

Appendix H

<p style="text-align: center;">NUCLEAR WASTE MANAGEMENT PROCEDURE</p> <p><small>Sandia National Laboratories</small></p>	<h2 style="margin: 0;">Validation Document Criteria</h2>	<p>Form Number: NP 19-1-7</p> <p>Page 1 of 1</p>
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1. **Software Name:** BRAGFLO
 2. **Software Version:** 6.0
 3. **Document Version:** 6.00 04/5/07
 4. **ERMS #:** 545018

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

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

- | | | | | |
|--|-------------------------------------|-----|-------------------------------------|-----|
| (a) computer program and version tested | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | N/A |
| (b) computer hardware and operating system used | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | N/A |
| (c) test equipment and calibrations | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | N/A |
| (d) date of test | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | N/A |
| (e) tester or data recorder | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | N/A |
| (f) simulation models used, | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | N/A |
| (g) test problem input and output files | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | N/A |
| (h) results and acceptability | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | N/A |
| (i) action taken in connection with any deviations noted | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | N/A |

6. **Test Result Validation**

The test results were compared to the following (check one or more, where applicable as based on code functionality):

- | | | | | |
|--|-------------------------------------|-----|--------------------------|-----|
| - hand calculations, | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | N/A |
| - manual inspection, | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | N/A |
| - calculations using comparable proven problems, | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | N/A |
| - empirical data & information from confirmed published data and correlations and/or technical literature, | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | N/A |
| - other validated software of similar purpose, | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | N/A |
| - other independent software of similar purpose. | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | N/A |

7. **Test Documentation Acceptability**

Do the tests meet the acceptance criteria identified in the approved VVP?

Yes

8. **Test Documentation Repeatability**

Are the tests documented in sufficient detail such that they can be repeated?

Yes

9. **Computer File Documentation**

Are the test case input and output files included in the Validation Document?

Yes

10. **Understandability of Documentation**

Are the validation methods, test data, results, and conclusions documented in a form that can be understood by an independent, technically competent individual?

Yes

11. Martin Nemer *M Nemer* 04/03/2007
Code Team/Sponsor (print) Signature Date

12. Michael Riggins *Michael Riggins for Mike Riggins* 04/03/2007
Technical Reviewer (print) Signature Date

13. Moo Y. Lee *Moo Y. Lee* 4/3/2007
Responsible Manager (print) Signature Date

14. Jennifer Long *Jennifer Long* 4/5/07
SCM Coordinator (print) Signature Date

Key for check boxes above:

Check **Yes** for each item reviewed and found acceptable

Check **N/A** for items not applicable

WIPP PA
VALIDATION DOCUMENT

For

BRAGFLO (Version 6.0)

Document Version 6.00
ERMS # 545018
April 2007

Information Only

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BF2_QB0600_TEST7_V007.INP	481
BF2_QB0600_TEST7_V008.INP	503
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BF2_QB0600_ES40_TEST7_V020_OUT.DIF	1205
BF2_QB0600_ES45_TEST7_V001_OUT.DIF	1210
BF2_QB0600_ES45_TEST7_V002_OUT.DIF	1216
BF2_QB0600_ES45_TEST7_V003_OUT.DIF	1220
BF2_QB0600_ES45_TEST7_V004_OUT.DIF	1224
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BF2_QB0600_ES45_TEST7_V010_OUT.DIF	1268
BF2_QB0600_ES45_TEST7_V011_OUT.DIF	1272
BF2_QB0600_ES45_TEST7_V012_OUT.DIF	1278
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1.0 INTRODUCTION & SUMMARY

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

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

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

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

1.1 Software Identifier

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

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

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

1.2 Points of Contact

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

1.3 Description of BRAGFLO 6.0

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

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

2.0 TESTING ENVIRONMENT

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

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

3.0 TEST TOOLS

TABLE 3.1 Software Tools Used for Testing.

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

4.0 STATIC TESTING

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

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

FIGURE 4.1 Static Testing Results

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

5.0 COVERAGE TESTING

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

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

FIGURE 5.1 Coverage Analysis Results

Performance and Coverage Analyzer Page 1

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

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

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

Performance and Coverage Analyzer

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

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

Command qualifiers and parameters used:

```
Qualifiers:
/COVERAGE /DESCENDING /NOMINIMUM /NOMAXIMUM
/NOCUMULATIVE /NOSOURCE /ZEROS /NOSCALE /NOCREATOR_PC
/NOPTHNAME /NOCHAIN_NAME /WRAP /NOPARENT_TASK /NOKEEP /NOTREE
/FILL={"*", "O", "x", "@", ":", "#", "/", "+"}
/NOSTACK_DEPTH /NOMAIN_IMAGE
Node specifications:
PROGRAM_ADDRESS BY ROUTINE
```

No filters are defined

6.0 FUNCTIONAL TESTING

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

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

6.1.1 Test Objective

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

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

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

where

p = brine pressure [Pa],
 p_o = initial brine pressure, 1.0×10^7 Pa,
 Q = brine injection rate, -0.01 m³/s,

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

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

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

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

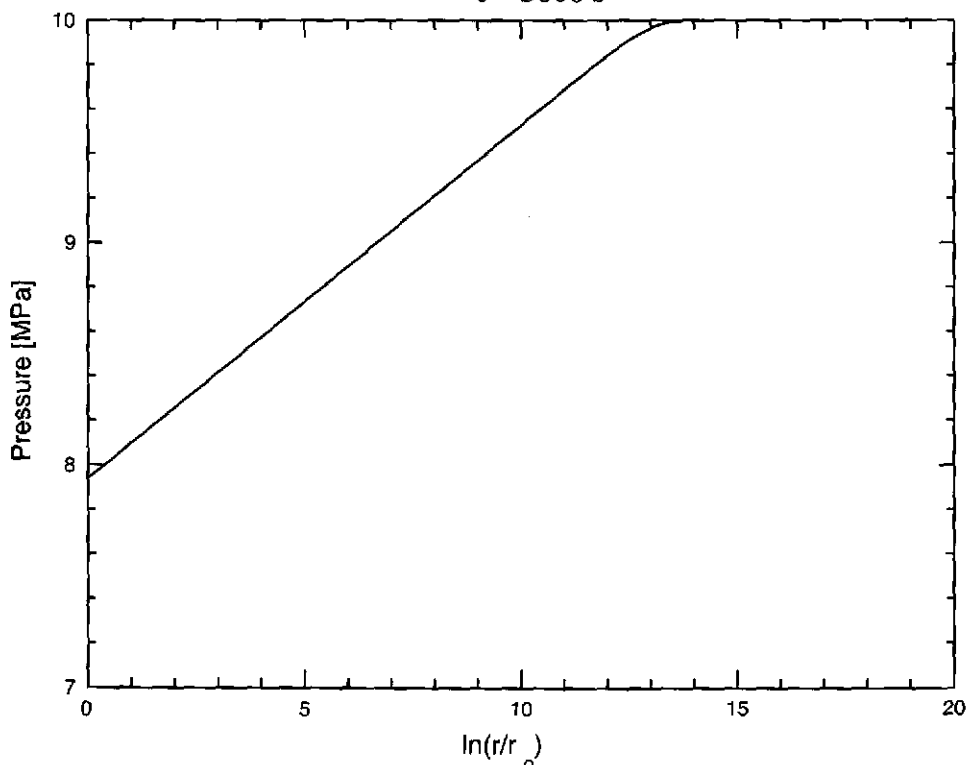
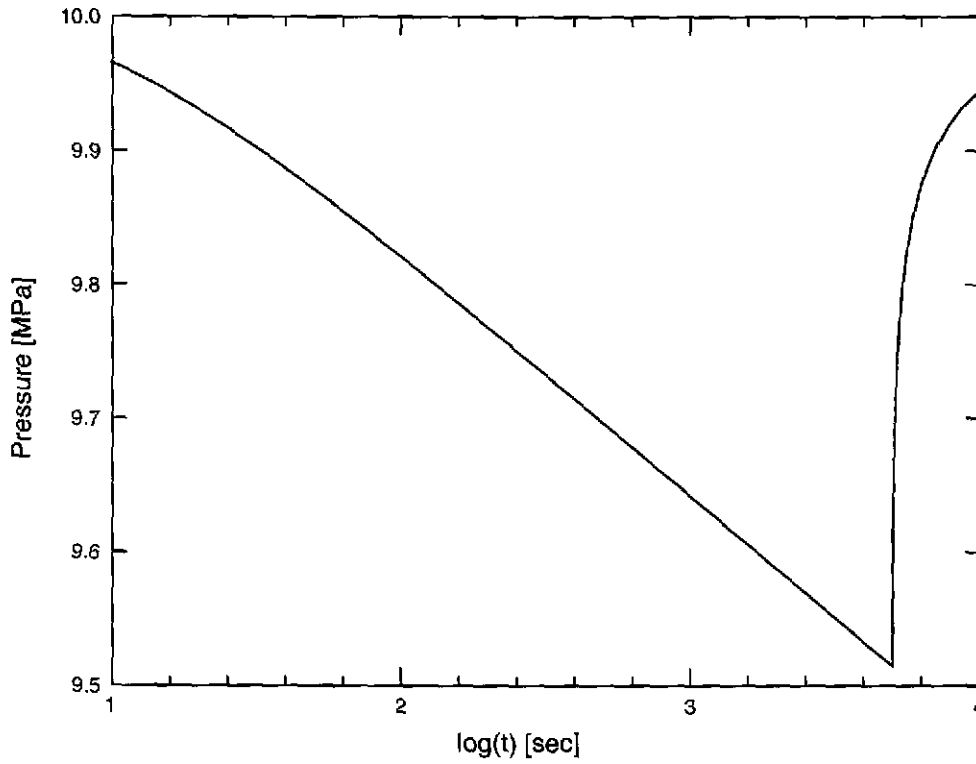


FIGURE 6.1.2 Analytical Solution for Test Case #1: Pressure Drawdown History at Distance from Well of $r = 100.4$ m



U1:\JDSCHRE\BRAGFLO_GA_95_S_04\BF2_TEST1_FIG2.CMD:1

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

$\ln(r/r_0)$	P, MPa
0.000000	7.937800
1.193922	8.127819
1.838961	8.230480
2.320130	8.307060
2.723274	8.371222
3.081870	8.428295
3.412430	8.480905
3.724259	8.530534
4.023076	8.578092
4.312603	8.624172
4.595371	8.669176
4.873151	8.713386
5.147215	8.757005
5.418486	8.800179
5.687649	8.843017
5.955211	8.885601
6.221555	8.927991
6.486971	8.970233
6.751675	9.012362
7.015836	9.054405
7.279581	9.096381
7.543005	9.138305
7.806184	9.180191
8.069174	9.222046
8.332020	9.263878
8.594754	9.305690
8.857403	9.347487
9.119987	9.389270
9.382519	9.431039
9.645013	9.472792
9.907477	9.514524
10.16992	9.556223
10.43234	9.597872
10.69475	9.639439
10.95715	9.680868
11.21954	9.722068
11.48193	9.762885
11.74431	9.803062
12.00668	9.842184
12.26906	9.879586
12.53143	9.914255
12.79380	9.944761
13.05617	9.969357
13.31853	9.986492
13.58090	9.995856
13.84327	9.999292
14.10563	9.999954
14.36800	9.999999
14.63036	10.000000
14.89273	10.000000

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

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

6.1.2 Test Procedure

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

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

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

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

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

6.1.3 Input Files

Two types of input files are required to run BRAGFLO 6.0. The first input file, BF2_QB0600_TEST1.INP, is an ASCII control file generated by the PREBRAG software module and is shown in Appendix A.1.2. This file is generated by modifying the input file,

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

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

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

```
227 7.8700E+03 3.4000E+03 4.7000E+03 1.1000E+03
228 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
229 3.6000E+03 2.3700E+03 3.0500E+03 2.1700E+03
230 WICKING SATURATION, LARXN, ALPHARXN
231 0.0000E+00 F F 5.0000E+01
232 WILL CREEP CLOSURE BE ACTIVATED?
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_TEST1_QA0500.INP;1
198 0.0 0.0
199 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
200 1.0 1.0
201 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5])/6
202 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
203 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O+c*FE=> a*H2+inert solids
204 1.0E+00 0.0 1.0000E+00
205 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O+c*CH2O=> a*GAS+inerts
206 1.0000E+00 0.0000E+00 1.0000E+00
207 WICKING SATURATION, LARXN, ALPHARXN
208 0.0000E+00 F 5.0000E+01
209 WILL CREEP CLOSURE BE ACTIVATED?
*****
```

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

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

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

6.1.4 Test Results

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

FIGURE 6.1.4 Summary of Difference Statistics for Test Case #1

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

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

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

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

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

6.2 Test Case #2. Horizontal One-Dimensional Infiltration

6.2.1 Test Objective

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

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

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

This test case uses linear relative permeability and capillary models:

$$k_{rw} = \begin{cases} 0, & S_w \leq S_{wr} \\ \frac{S_w - S_{wr}}{1 - S_{wr} - S_{nwr}}, & S_{wr} < S_w < 1 - S_{nwr} \\ 1, & S_w \geq 1 - S_{nwr} \end{cases} \quad (6.2.1)$$

$$k_{rnw} = 1 - k_{rw} \quad (6.2.2)$$

$$P_c = \begin{cases} P_{c,\max}, & S_w \leq S_{wr} \\ \left(P_{ct} - P_{c,\max} \right) \frac{S_w - S_{wr}}{1 - S_{wr} - S_{nwr}} + P_{c,\max}, & S_{wr} < S_w < 1 - S_{nwr} \\ P_{ct}, & S_w \geq 1 - S_{nwr} \end{cases} \quad (6.2.3)$$

where

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

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

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

(page 1 of 2)

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

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

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

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

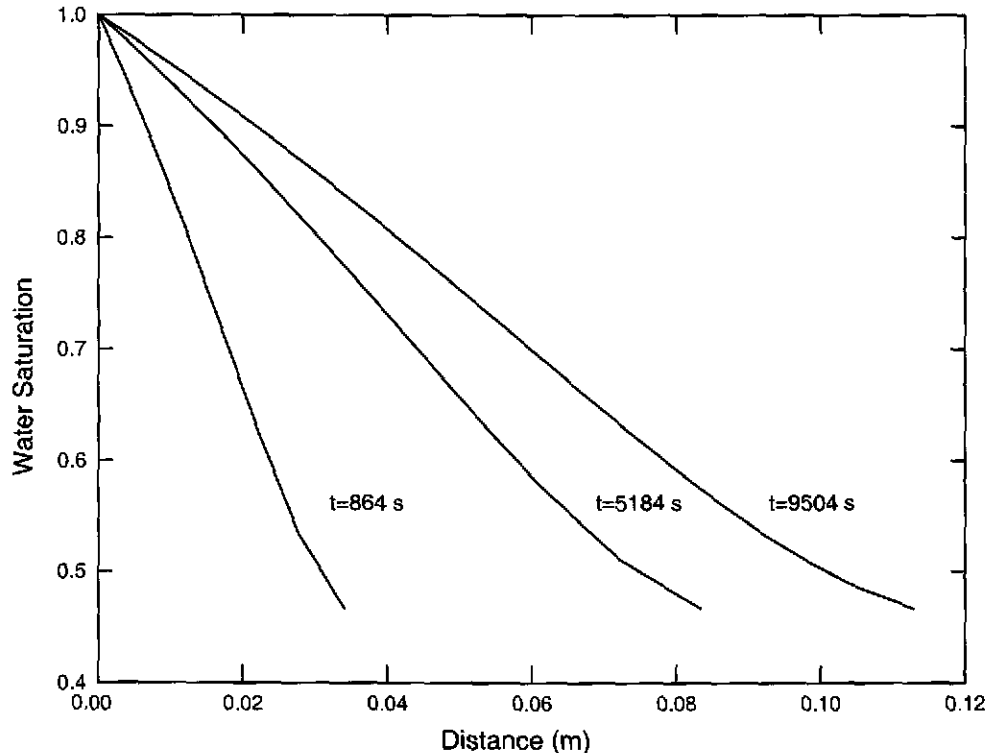
TABLE 6.2.2 Water Saturation Values for Analytical Solution to Test Cases #2 and #3.
DATA FROM TABLE 4.1 OF ROSS *ET AL.* (1982)

(page 2 of 2)

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

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

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



U11JDSCHRE BRAGFLO.QA_65 1DINFIL\BF2_TEST2_FIG1.CMD:1

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6.2.2 Test Procedure

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

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

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

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

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

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

6.2.3 Input Files

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

permeability model (with the model disabled by the 0 in the input). The last section contains the input parameters for the chemistry models, which are all disabled for this testcase.

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

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

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

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2_INP.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_TEST2_INP;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_TEST2_QA0500_INP;1
```

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

6.2.4 Test Results

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

FIGURE 6.2.3 Summary of Difference Statistics for Test Case #2

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2_OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2_OUT;1
```

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

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

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

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

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

6.3.1 Test Objective

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

6.3.2 Test Procedure

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

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

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

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

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

6.3.3 Input Files

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

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

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

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3_INP.DIF;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_TEST3_INP;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_TEST3_QA0500_INP;1
```

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

6.3.4 Test Results

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

FIGURE 6.3.2 Summary of Difference Statistics for Test Case #3

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3_OUT.DIF;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3_OUT;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3_OUT;1
```

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

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

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

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

6.4 Test Case #4. Two-Dimensional Infiltration.

6.4.1 Test Objective

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

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

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

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

$$S_e = \frac{1 - S_w}{S_w} \quad (6.4.1)$$

$$k_{rw} = \frac{1}{1 + 28.768353S_e^{1.7241379}} \quad (6.4.2)$$

$$k_{rnw} = 1 - k_{rw} \quad (6.4.3)$$

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

where

S_w = wetting phase (brine) saturation,

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

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

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

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

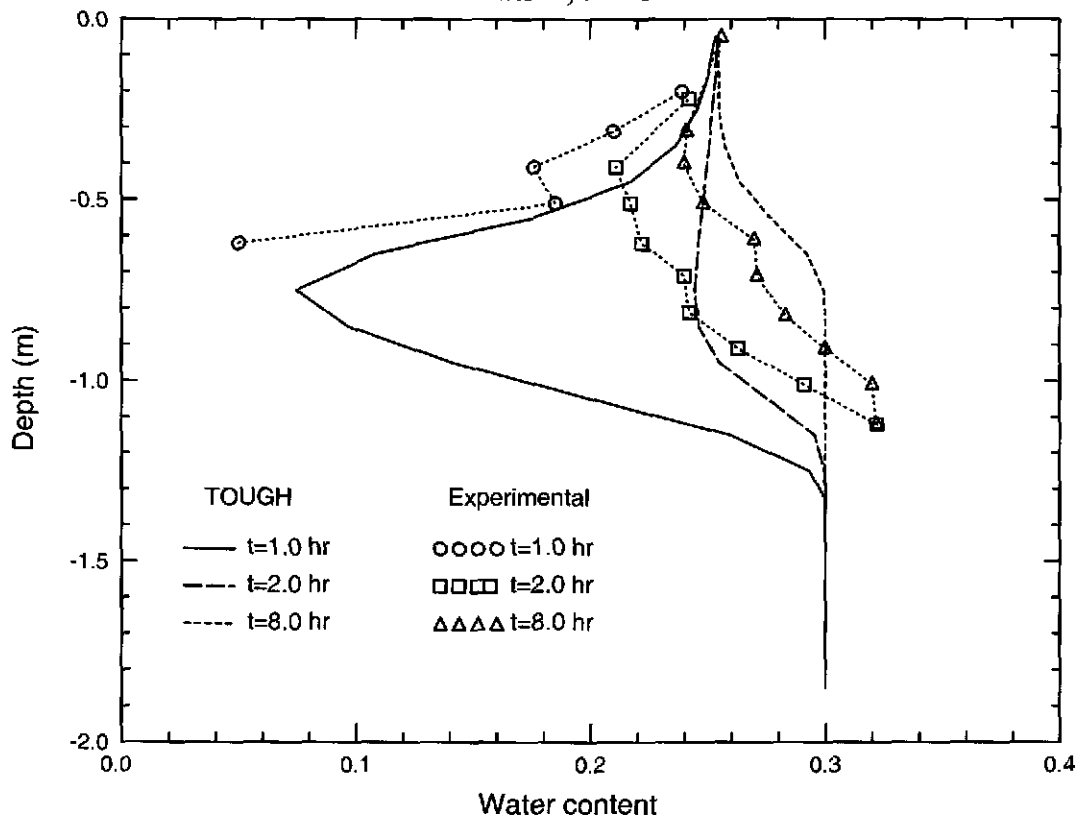


FIGURE 6.4.2 Comparison of TOUGH and Experimental Results for Test Case #4, Two-Dimensional Infiltration, at Distance $x = 1.39$ m

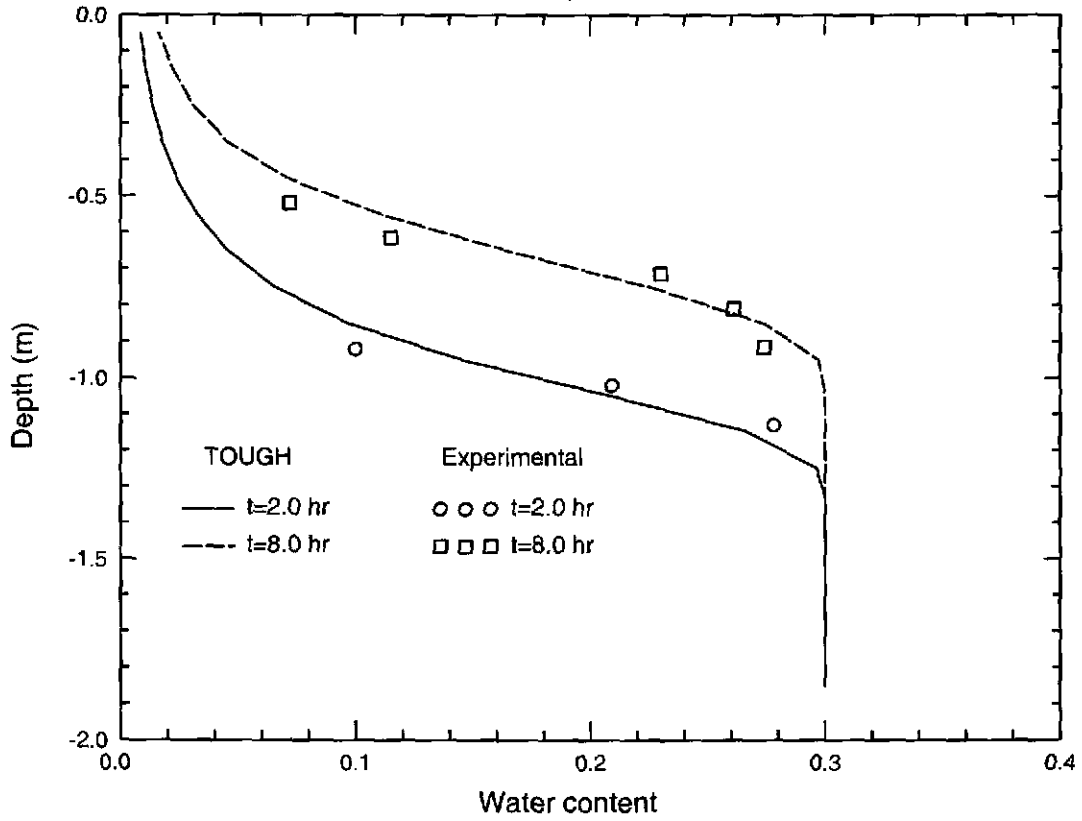


TABLE 6.4.1 Results from TOUGH Run on Test Case #4 BF2_TEST4_T019.DAT

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

BF2_TEST4 T139.DAT

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

6.4.2 Test Procedure

Test Case #4 is run using the WIPP PA run control system. The scripts, script input files, and all other files related to validation testing of BRAGFLO 6.0 reside in QB0600 class of the CMS library, LIBBF. All test inputs are fetched at run time by the scripts, and test outputs/results and

run logs are automatically stored by the scripts in the CMS library. The test case is run on each of the three platforms, ES40, ES45 and ES47. Excerpts from the BRAGFLO 6.0, Test Case #4, .LOG files, BF2_QB0600_ES40_TEST4_RUN.LOG, BF2_QB0600_ES45_TEST4_RUN.LOG and BF2_QB0600_ES47_TEST4_RUN.LOG are included in Appendix A.4.1. These indicate the files that are used or generated.

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

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

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

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

6.4.3 Input Files

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

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

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_TEST4.INP;1
 114  GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 115  378*0.0
 116  DSATLIM, DPRESLIM, SATLIMIT
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_TEST4_QA0500.INP;1
 114  DSATLIM, DPRESLIM, SATLIMIT
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_TEST4.INP;1
 188  NBORERESET
 189  0
 190  # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_TEST4_QA0500.INP;1
 186  # LAMBDA SOR SGR
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_TEST4.INP;1
 199  TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 200  1.000000E-02 1.000000E-03
 201  NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 202  0
 203  FRACTURE MODEL
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_TEST4_QA0500.INP;1
 195  FRACTURE MODEL
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_TEST4.INP;1
 249  0.0 0.0 F
 250  HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 251  0.0 0.0
 252  RATE CONSTANTS: BRUCITE1 AND BRUCITEH
 253  0.0 0.0
 254  RATE COEFFICIENTS: RXH2S AND RXCO2
 255  CHEMISTRY CUTOFF SATURATION: SOCMIN
 256  0.0
 257  REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 258  2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
 259  REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 260  8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 261  S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
```

```
262 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
263 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
264 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
265 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
266 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
267 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
268 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
269 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
270 7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
271 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
272 3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
273 WICKING SATN, HUMID SMOOTHING, ALPHARXN
274 0.0 F F 2000.
275 WILL CREEP CLOSURE BE ACTIVATED? IF .TRUE., 0=MOLE-BASED; 1=PRESSURE-BASED
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_TEST4_QA0500.INP;1
241 0.0 0.0
242 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
243 0.0 0.0
244 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6)
245 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
246 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
247 1.0683E+00 1.8633E+00 1.0000E+00
248 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
249 1.2290E+00 0.0000E+00 1.0000E+00
250 WICKING SATN, HUMID SMOOTHING, ALPHARXN
251 0.0 F 2000.
252 WILL CREEP CLOSURE BE ACTIVATED? IF .TRUE., 0=MOLE-BASED; 1=PRESSURE-BASED
*****
Number of difference sections found: 4
Number of difference records found: 34
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4_INP.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_TEST4.INP;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_TEST4_QA0500.INP;1
```

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

6.4.4 Test Results

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

FIGURE 6.4.4 Summary of Difference Statistics for Test Case #4

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4_OUT.DIF;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4_OUT;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4_OUT;1
```

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

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

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

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

6.5.1 Test Objective

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

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

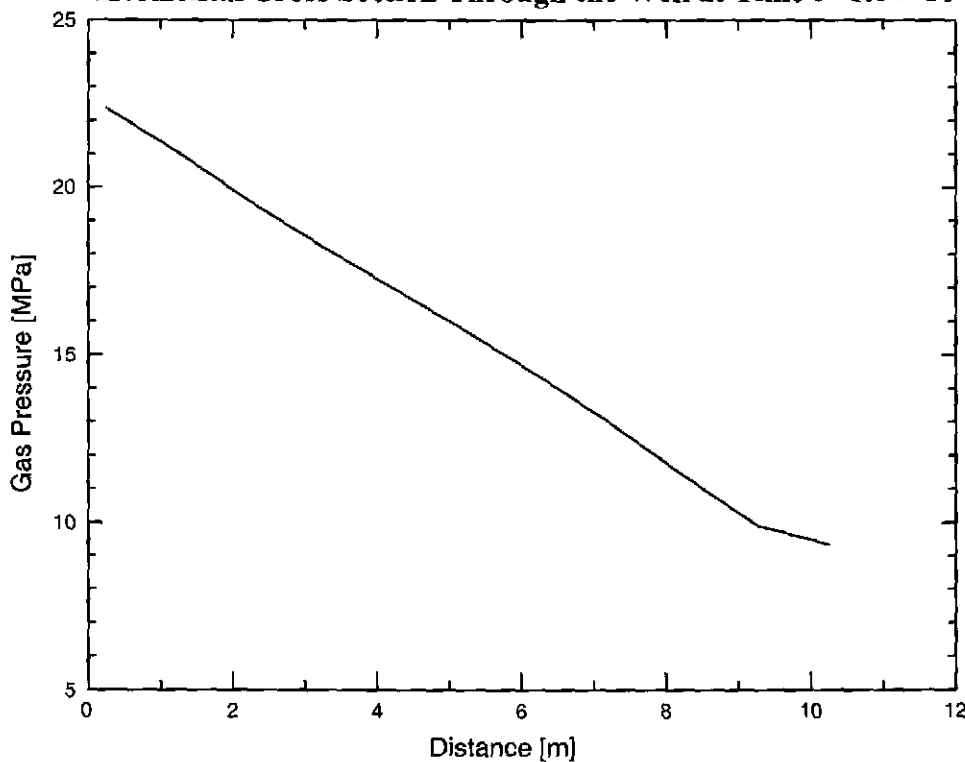
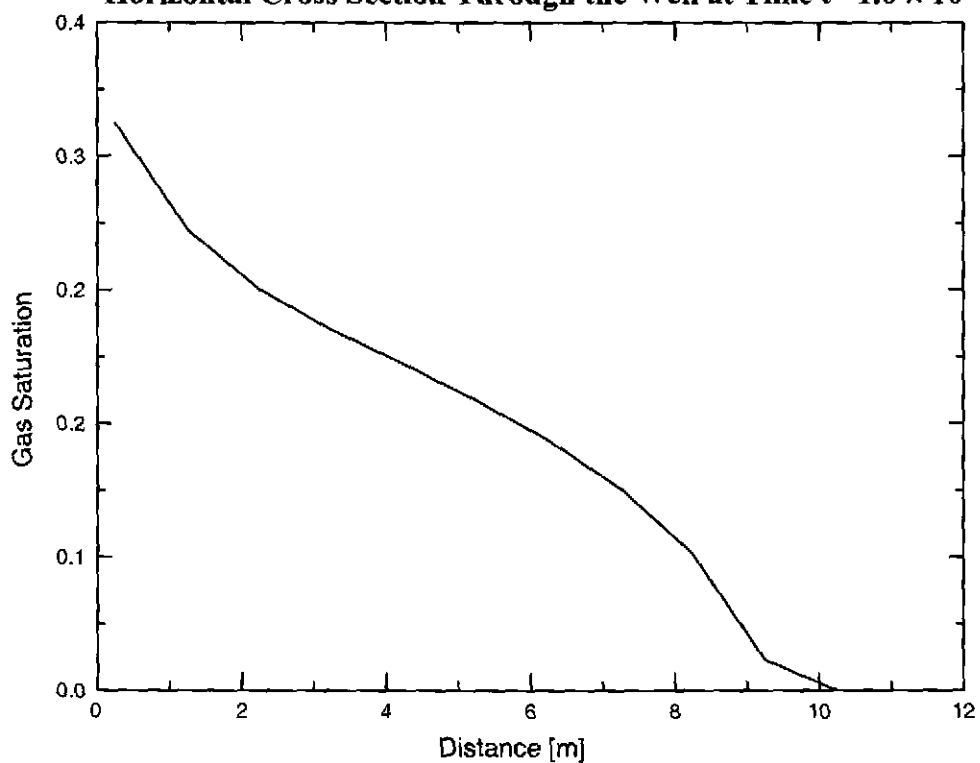


FIGURE 6.5.2 TOUGH Results for Test Case #5, Gas Injection. Gas Saturations in Horizontal Cross Section Through the Well at Time $t = 1.0 \times 10^7$ s



U1:(JDSCHRE BRAGFLO QA_95.2DGASIN)BF2_TESTS_THSX.CMD.2

SPLAT X2.0 09/27/95 11:38:01

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

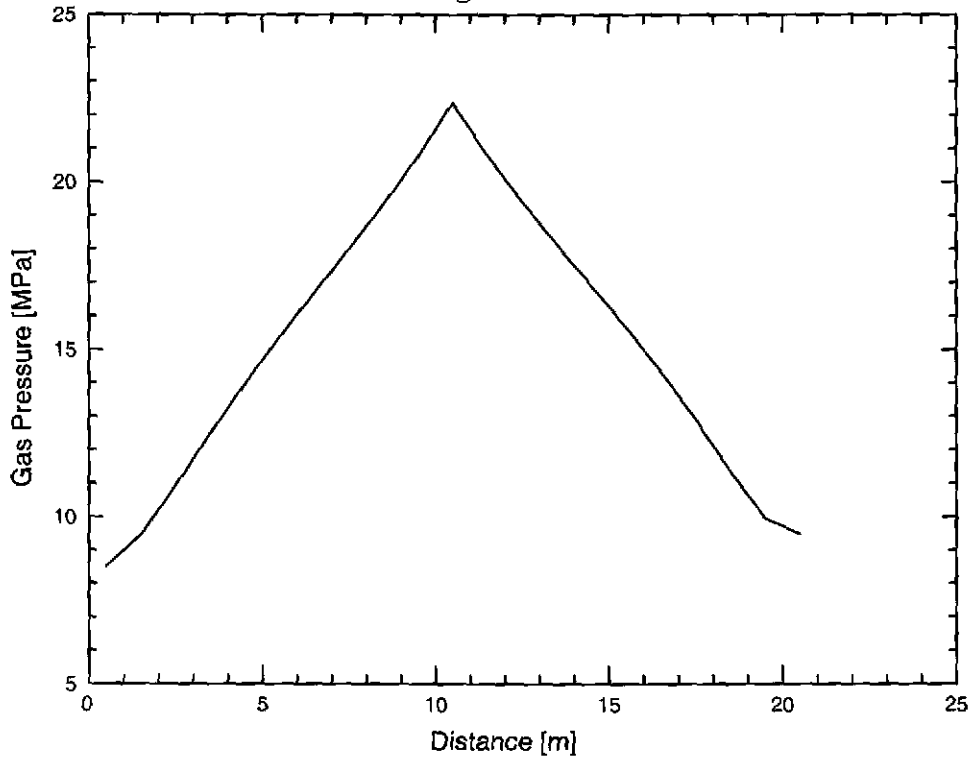
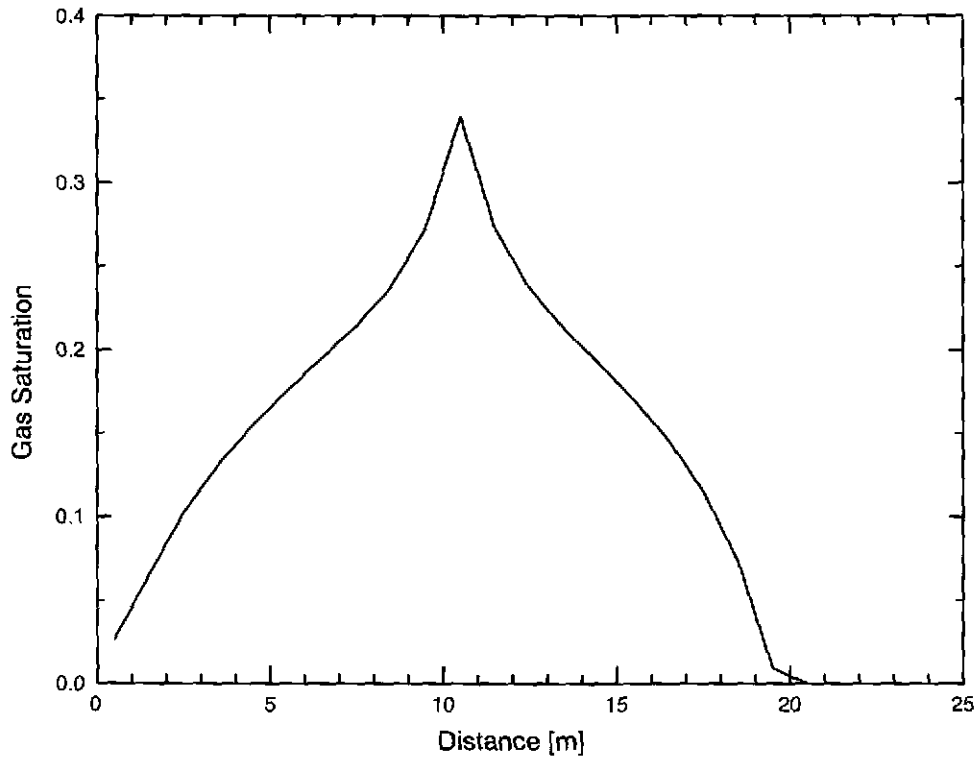


FIGURE 6.5.4 TOUGH Results for Test Case #5, Gas Injection. Gas Saturations in Vertical Cross Section Through the Well at Time $t=1.0 \times 10^7$ s



U1:JDSCHRE:BRAGFLO.OA_95.2DQASIN\BF2_TEST5_TV5X.CMD;1

SPLAT X2.0 09/27/85 11:42:16

TABLE 6.5.1 Data Files Produced by BF2 TEST5 BFDAT.FOR, Test Case #5

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

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

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

TABLE 6.5.3 Results from TOUGH Run on Test Case #5 BF2 TEST5_THHX.DAT

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

BF2 TEST5 THVX.DAT

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

6.5.2 Test Procedure

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

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

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

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

The results from the validation test of BRAGFLO 5.0 on the ES47 running OpenVMS 8.2 were determined valid by comparison to the output from the validation of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 (Nemer, 2006). The output of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 was determined to be valid by comparison to the output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 (Stein; Zelinski, 2004b). The output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 was determined valid by comparison to the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 (Fox; Trone, 2003). In turn, the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 was determined to be valid by comparison to the output of the validation of BRAGFLO 4.10, done on an Alpha 2100 running OpenVMS 6.1 (Hanson; Fox; Trone, 2003). In the validation for Test Case #5 for BRAGFLO 4.10, the acceptance criteria were comparisons with other independently developed software of similar purpose (i. e., TOUGH), together with manual inspection of the output from the test case (Schreiber 1997a). The code BF2_TEST5_BFDAT.FOR was run to

extract pressure and saturation data from the output file, BF2_TEST5.OUT, at time 1.0×10^7 s, the final printout time, and create data files, which were input to the plotting software, SPLAT. The resulting plots superimposed BRAGFLO results and the independent results. Numerical comparisons were also performed.

6.5.3 Input Files

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

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

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

```
158 # LAMBDA SOR SGR
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_TEST5.INP;1
170 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
171 1.000000E-02 1.000000E-03
172 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
173 0
174 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_TEST5_QA0500.INP;1
164 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_TEST5.INP;1
197 0.0 0.0 F
198 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
199 0.0 0.0
200 RATE CONSTANTS: BRUCITEI AND BRUCITEH
201 0.0 0.0
202 RATE COEFFICIENTS: RXH2S AND RXCO2
203 0.0 0.0
204 CHEMISTRY CUTOFF SATURATION: SOCMIN
205 0.0
206 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
207 2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
208 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
209 8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
210 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
211 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
212 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
213 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
214 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
215 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
216 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
217 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
218 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
219 7.8700E+03 3.4000E+03 4.7000E+03 1.1000E+03
220 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
221 3.6000E+03 2.3700E+03 3.0500E+03 2.1700E+03
222 WICKING SATURATION, HUMID SMOOTHING, ALPHARXN
223 0.0 F F 1000.
224 CREEP CLOSURE? IF .TRUE., 0=MOLE-BASED; 1=PRESSURE-BASED, PRES_LITHO TIME_INTRU
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_TEST5_QA0500.INP;1
187 0.0 0.0
188 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
189 0.0 0.0
190 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6)
191 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
192 SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
193 1.1730E+00 1.6540E+00 1.0000E+00
194 SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
195 7.6770E-01 0.0000E+00 1.0000E+00
196 WICKING SATURATION, HUMID SMOOTHING, ALPHARXN
197 0.0 F 1000.
198 CREEP CLOSURE? IF .TRUE., 0=MOLE-BASED; 1=PRESSURE-BASED, PRES_LITHO TIME_INTRU
*****
Number of difference sections found: 6
Number of difference records found: 37
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5_INP.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_TESTS.INP;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_TEST5_QA0500.INP;1
```

The second input file, BF2_CLOSURE.DAT, contains the closure surface data required by BRAGFLO to define the creep closure surface within the repository. The same input file is used for all 14 test cases. It is too wide to fit the format of a written report, but it is stored in class QB0600 of the CMS library. BF2_CLOSURE.DAT is an ASCII input file that is read by BRAGFLO if creep closure is to be simulated. If creep closure is not to be simulated a dummy

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

6.5.4 Test Results

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

FIGURE 6.5.6 Summary of Difference Statistics for Test Case #5

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

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

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

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

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

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

6.6.1 Test Objective

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

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

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

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

6.6.2 Test Procedure

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

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

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

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

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

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

6.6.3 Input Files

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

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

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

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6_INP;1
 29  1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 1 0 0 0 0 0 0 1 1 1
 30  1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 31  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500_INP;1
 29  1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 0 0
 30  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 31  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6_INP;1
 35  1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 1 0 0 0 0 0 1 1 1
 36  1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 37  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500_INP;1
 35  1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 0 0
 36  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 37  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6_INP;1
1121  GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
1122  0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1123  0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1124  0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1125  0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1126  0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1127  0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1128  0.000000E+00
1129  0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1130  0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1131  0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1132  0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1133  0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1134  0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1135  0.000000E+00
1136  0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1137  0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
```


1290 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1291 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1292 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1293 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1294 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1295 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1296 0.000000E+00
1297 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1298 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1299 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1300 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1301 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1302 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1303 0.000000E+00
1304 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1305 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1306 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1307 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1308 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1309 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1310 0.000000E+00
1311 DSATLIM, DPRESLIM, SATLIMIT

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1
1121 DSATLIM, DPRESLIM, SATLIMIT

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1

1394 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1395 11 11 11 11 11
1396 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1397 11 11 11 11 11
1398 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1399 11 11 11 11 11

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1

1204 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1205 11 11 11 11 11
1206 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1207 11 11 11 11 11
1208 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1209 11 11 11 11 11

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1

1610 39 CAVITY_5
1611 NWST

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1

1420 NWST

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1

1619 5
1620 MATRESET
1621 7 8 9 10 39
1622 BORE HOLE MATERIAL NUMBER

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1

1428 4
1429 MATRESET
1430 7 8 9 10
1431 BORE HOLE MATERIAL NUMBER

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1

1629 1.013250E+05
1630 1.013250E+05
1631 1.013250E+05
1632 SOWASTEIC

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1

1438 SOWASTEIC

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1

```
1635 0.000000E+00
1636 0.250000E+00
1637 0.200000E+00
1638 PRESDRZ
1640 NBORERESET
1641 0
1642 # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1
1441 PRESDRZ
1443 # LAMBDA SOR SGR
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
1681 39 7.000000E-01 0.000000E+00 0.000000E+00
1682 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1
1482 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
1721 39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1722 # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1
1521 # PERMX PERMY PERMZ POROSITY COMPRES
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
1761 39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1762 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1763 1.000000E-02 1.000000E-03
1764 NMAISP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1765 0
1766 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1
1560 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
1819 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO), INTRINSIC
1820 1.9045188518798551E-10 2.7932414729320935E-09 T
1821 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1822 1.000E-03 2.0000E-01
1823 RATE CONSTANTS: BRUCITEI AND BRUCITEH
1824 0.0000E+00 0.0000E+00
1825 RATE COEFFICIENTS: RXH2S AND RXCO2
1826 1.1100E+00 0.0000E+00
1827 1.1100E+00 0.0000E+00
1828 CHEMISTRY CUTOFF SATURATION: SOCMIN
1829 0.0000E+00
1830 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, Fe, [C6-H10-O5]/6)
1831 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1832 REACTANT/PRODUCT MOLECULAR WEIGHTS (Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
1833 8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
1834 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1835 1.3081E+00 -1.3838E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1836 0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1837 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1838 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1839 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1840 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1841 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1842 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
1843 7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
1844 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
1845 3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
1846 WICKING SATURATION, HUMID RATE SMOOTHING, CONC SMOOTHING, ALPHARXN
1847 0.0000E+00 T F 1.0000E+03
1848 CREEP CLOSURE?
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1
1613 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
1614 3.000E-08 1.5000E-07
```

```
1615 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1616 1.000E-03 2.0000E-01
1617 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5])/6
1618 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1619 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
1620 1.3081E+00 1.3838E+00 1.0000E+00
1621 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
1622 1.1100E+00 0.0000E+00 1.0000E+00
1623 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1624 0.0000E+00 T 1.0000E+03
1625 CREEP CLOSURE?
```


File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1

```
1852 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
1853 4 1.4800E+07 3.1557E+12 1 F
1854 MODPERM PARAMETERS
1855 5.5847E-12 0.0000E+00
1856 NUMBER OF MATERIAL REGIONS FOR CLOSURE
```

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1

```
1629 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
1630 4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
1631 NUMBER OF MATERIAL REGIONS FOR CLOSURE
```

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

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

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

6.6.4 Test Results

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

FIGURE 6.6.2 Summary of Difference Statistics for Test Case #6

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6_OUT.DIF;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6_OUT;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6_OUT;1
```

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

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

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

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

6.7.1 Test Objective

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

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

6.7.2 Test Procedure

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

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

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

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

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

6.7.3 Input Files

Two types of input files are required to run BRAGFLO 6.0. The first type of input file, BF2_QB0600_TEST7_Vnnn.INP (20 files), are ASCII control files generated by the PREBRAG software module and are shown in Appendix A.7.2. These files are generated by modifying the input file, BF2_TEST7_Rnnn_QA0500.INP (where nnn = 001 to 020, 20 files), which was used in the validation of BRAGFLO 5.0, for the new input information for BRAGFLO 6.0. The VMS DIFFERENCE command is used to compare these files and the differences are recorded in the ASCII file, BF2_QB0600_ES47_TEST7_Vnnn_INP.DIF (20 files, Appendix A.7.3). A summary of the differences is listed in Figure 6.7.1. As seen in Figure 6.7.1, each of the 20 files contained twelve sections of differences that correspond to the new input information for BRAGFLO 6.0. The first section contains flags to write the new output variables for BRAGFLO 6.0 to the ASCII and binary files. The order of the flags changed in BRAGFLO 6.0, but the input file flags are set to output the same variables as before. The second section contains the input of the initial MgO concentration (with the values all set to zero). Sections 3 to 10 shows changes made for the waste area reset model. This model is improved to enable more materials to be reset, instead of being limited to the waste materials (i.e. the shaft, open drifts, etc.) Material #10 CAVITY_4 had two different reset saturations which necessitated the introduction of a new material labeled #39 CAVITY_5 to represent both saturations. Material #39 is given the same properties as #10 (which it replaced in three cells), except for the reset saturation. Section 3 shows the replacement of material #10 with #39. Sections 4, 8, 9 and 10 show the added properties for material #39. Sections 5, 6, and 7 show the reset parameters added for the model change. The values are set to give the same conditions as are given before for the testcase. Section 7 also shows the input for the material change reset model (with the model disabled by the 0 in the input). Section 10 also contains the input parameters for permeability models 11 and 12 (which are not used in this testcase), as well as for the smooth permeability model (with the model disabled by the 0 in the input). Section 11 contains the input parameters for the chemistry models, which are set to the previous testcase values. The last section contains the inputs for the closure model, which contains the same values as before, but in a different input structure.

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

BF2_QB0600_ES47_TEST7_V001_INP.DIF

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

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

BF2_QB0600_ES47_TEST7_V002_INP.DIF

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

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

BF2_QB0600_ES47_TEST7_V003_INP.DIF

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

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

BF2_QB0600_ES47_TEST7_V004_INP.DIF

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

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

BF2_QB0600_ES47_TEST7_V005_INP.DIF

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

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

BF2_QB0600_ES47_TEST7_V006_INP.DIF

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

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

BF2_QB0600_ES47_TEST7_V007_INP.DIF

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

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

BF2_QB0600_ES47_TEST7_V008_INP.DIF

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

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

BF2_QB0600_ES47_TEST7_V009_INP.DIF

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

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

BF2_QB0600_ES47_TEST7_V010_INP.DIF

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

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

BF2_QB0600_ES47_TEST7_V011_INP.DIF

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

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

BF2_QB0600_ES47_TEST7_V012_INP.DIF

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

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

BF2_QB0600_ES47_TEST7_V013_INP.DIF

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

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

BF2_QB0600_ES47_TEST7_V014_INP.DIF

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

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

BF2_QB0600_ES47_TEST7_V015_INP.DIF

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

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

BF2_QB0600_ES47_TEST7_V016_INP.DIF

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

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

BF2_QB0600_ES47_TEST7_V017_INP.DIF

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

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

BF2_QB0600_ES47_TEST7_V018_INP.DIF

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

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

BF2_QB0600_ES47_TEST7_V019_INP.DIF

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

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

BF2_QB0600_ES47_TEST7_V020_INP.DIF

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

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

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

6.7.4 Test Results

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

FIGURE 6.7.2 Summary of Difference Statistics for Test Case #7

BF2_QB0600_ES47_TEST7_V001.DIF

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

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

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

BF2_QB0600_ES47_TEST7_V002.DIF

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002_OUT.DIF;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002_OUT;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002_OUT;1
```

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

BF2_QB0600_ES47_TEST7_V003.DIF

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003_OUT.DIF;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003_OUT;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003_OUT;1
```

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

BF2_QB0600_ES47_TEST7_V004.DIF

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004_OUT.DIF;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004_OUT;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004_OUT;1
```

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

BF2_QB0600_ES47_TEST7_V005.DIF

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005_OUT.DIF;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005_OUT;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005_OUT;1
```

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

BF2_QB0600_ES47_TEST7_V006.DIF

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006_OUT.DIF;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006_OUT;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006_OUT;1
```

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

BF2_QB0600_ES47_TEST7_V007.DIF

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007_OUT.DIF;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007_OUT;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007_OUT;1
```

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

BF2_QB0600_ES47_TEST7_V008.DIF

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008_OUT.DIF;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008_OUT;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008_OUT;1
```

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

BF2_QB0600_ES47_TEST7_V009.DIF

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009_OUT.DIF;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009_OUT;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009_OUT;1
```

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

BF2_QB0600_ES47_TEST7_V010.DIF

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010_OUT.DIF;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010_OUT;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010_OUT;1
```

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

BF2_QB0600_ES47_TEST7_V011.DIF

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011_OUT.DIF;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011_OUT;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011_OUT;1
```

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

BF2_QB0600_ES47_TEST7_V012.DIF

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012_OUT.DIF;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012_OUT;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012_OUT;1
```

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

BF2_QB0600_ES47_TEST7_V013.DIF

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013_OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013_OUT;1
```

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

BF2_QB0600_ES47_TEST7_V014.DIF

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014_OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014_OUT;1
```

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

BF2_QB0600_ES47_TEST7_V015.DIF

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015_OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015_OUT;1
```

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

BF2_QB0600_ES47_TEST7_V016.DIF

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016_OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016_OUT;1
```

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

BF2_QB0600_ES47_TEST7_V017.DIF

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

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

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

BF2_QB0600_ES47_TEST7_V018.DIF

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

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

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

BF2_QB0600_ES47_TEST7_V019.DIF

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

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

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

BF2_QB0600_ES47_TEST7_V020.DIF

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020_OUT.DIF;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020_OUT;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020_OUT;1
```

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

The ASCII output files, BF2_QB0600_ES40_TEST7_Vnnn.OUT (20 files) and BF2_QB0600_ES45_TEST7_Vnnn.OUT (20 files), from Test Case #7 of BRAGFLO 6.0 run on the ES40 and ES45, respectively, are compared to the output files, BF2_QB0600_ES47_TEST7_Vnnn.OUT (20 files), using the VMS DIFFERENCE command, with the results are stored in BF2_QB0600_ES40_TEST7_Vnnn.DIF (20 files, Appendix A.7.5) and BF2_QB0600_ES45_TEST7_Vnnn.DIF (20 files, Appendix A.7.5), respectively.

Examination of these files shows that there are no differences other than run dates and times, file and directory names, platform names, and execution statistics.

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

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

6.8.1 Test Objective

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

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

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

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

where

- q = volumetric flow rate [m^3/s],
- I = well productivity index [m^3],
- k_r = relative permeability [-],
- μ = viscosity [$\text{Pa}\cdot\text{s}$],
- p = pressure [Pa],

and subscripts

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

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

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

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

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

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

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

FIGURE 6.8.1 Results from TOUGH2W Run on Test Case #8. Reservoir Pressure Response for Pressure-Specified Deliverability

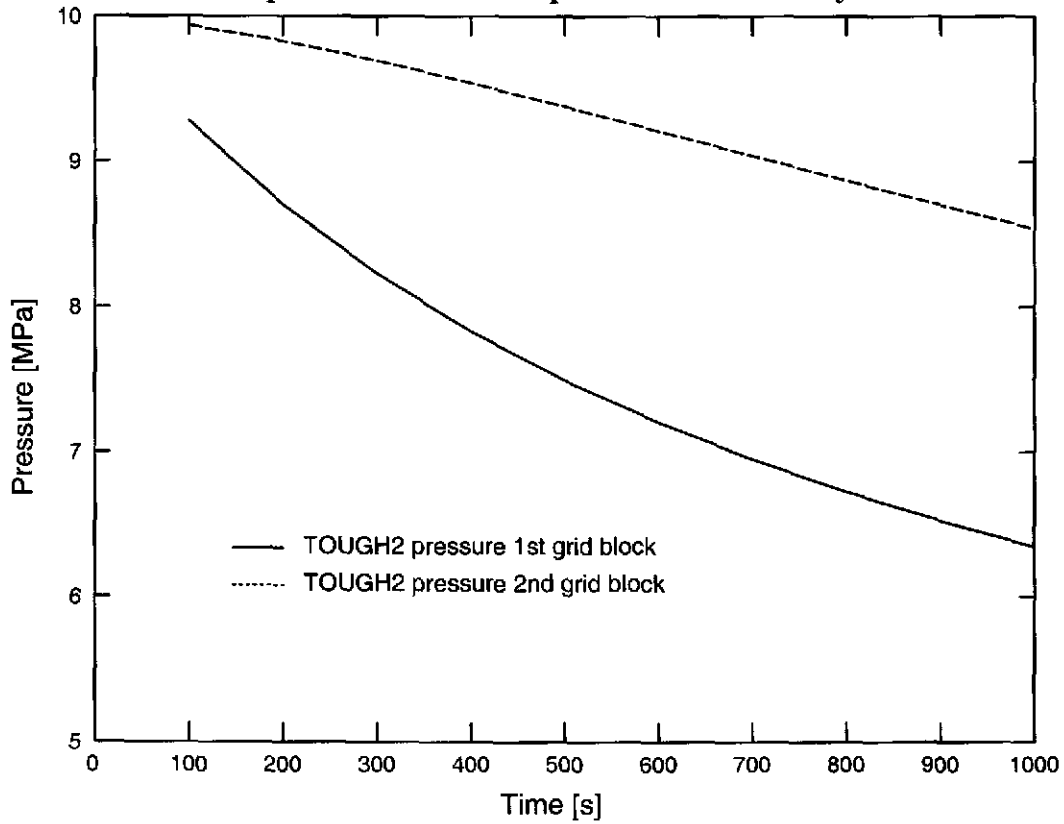


FIGURE 6.8.2 Results from TOUGH28W Run on Test Case #8. Brine Production Rate for Pressure-Specified Deliverability

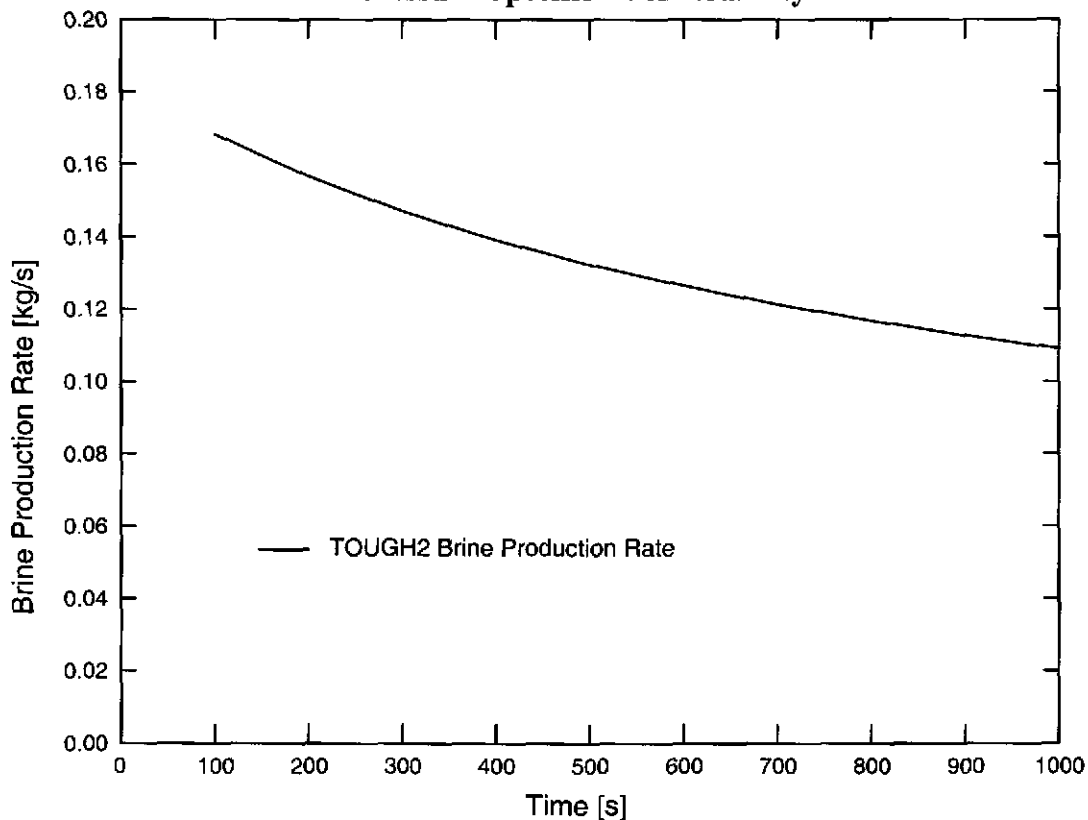
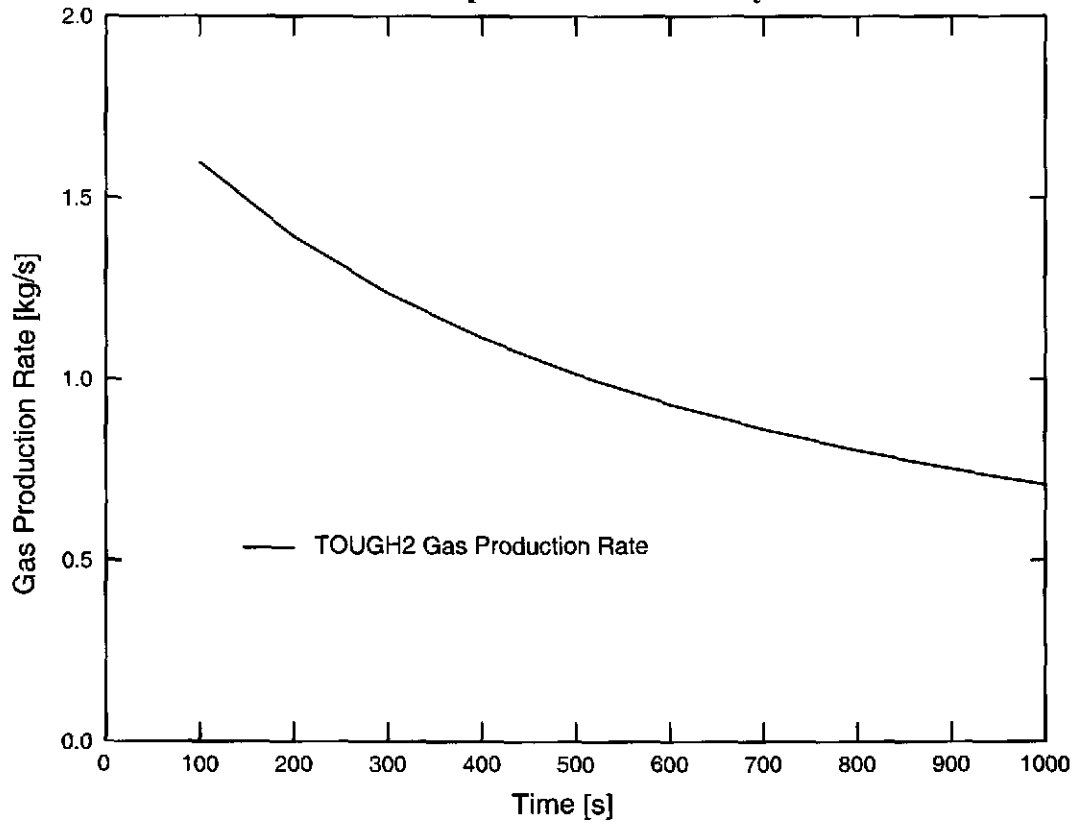


FIGURE 6.8.3 Results from TOUGH28W Run on Test Case #8. Gas Production Rate for Pressure-Specified Deliverability



**TABLE 6.8.1 Results from TOUGH28W Run on Test Case #8.
 BF2 TEST8 TOUGH.DAT**

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

6.8.2 Test Procedure

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

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

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

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

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

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

6.8.3 Input Files

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

permeability model (with the model disabled by the 0 in the input). The last section contains the input parameters for the chemistry models, which are all disabled for this testcase.

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

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_TESTS.INP;1
  69  GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
  70  2*0.0
  71  DSATLIM, DPRESLIM, SATLIMIT
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_TESTS_QA0500.INP;1
  69  DSATLIM, DPRESLIM, SATLIMIT
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_TESTS.INP;1
  127  NBORERESET
  128  0
  129  # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_TESTS_QA0500.INP;1
  125  # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_TESTS.INP;1
  135  TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
  136  1.000000E-02 1.000000E-03
  137  NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
  138  0
  139  FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_TESTS_QA0500.INP;1
  131  FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_TESTS.INP;1
  162  0.0 0.0 F
  163  HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  164  0.0 0.0
  165  RATE CONSTANTS: BRUCITEI AND BRUCITEH
  166  0.0 0.0
  167  RATE COEFFICIENTS: RXH2S AND RXCO2
  168  0.0 0.0
  169  CHEMISTRY CUTOFF SATURATION: SOCMIN
  170  0.0
  171  REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  172  2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
  173  REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  174  8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
  175  S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
  176  0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  177  0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  178  0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  179  0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  180  0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  181  0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  182  0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  183  REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  184  7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
  185  REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  186  3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
  187  WICKING SATN, HUMID SMOOTHING, ALPHARXN
  188  0.0 F F 50.
  189  CREEP CLOSURE?
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_TESTS_QA0500.INP;1
  154  0.0 0.0
  155  HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  156  0.0 0.0
  157  REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6)
  158  2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
  159  SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
```

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

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8_INP.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_TEST8_INP;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_TEST8_QA0500_INP;1
```

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

6.8.4 Test Results

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

FIGURE 6.8.5 Summary of Difference Statistics for Test Case #8

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8_OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8_OUT;1
```

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

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

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

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

6.9 Test Case #9. Heterogeneous Reservoir Conditions

6.9.1 Test Objective

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

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

where

$$\begin{aligned} v_w &= \text{Darcy velocity [m/s]}, \\ k &= \text{formation permeability [m}^2\text{]}, \\ \mu_w &= \text{water viscosity, 0.001 [Pa}\cdot\text{s]}, \\ dp/dx &= \text{pressure gradient in } x\text{-direction [Pa/m]}, \\ q_{inj} &= \text{water injection rate, 0.1 [kg/s]}, \\ \rho_w &= \text{water density, 1000 [kg/m}^3\text{]}, \\ A &= \text{area normal to flow, 1.0 [m}^2\text{]}. \end{aligned}$$

First consider the case with uniform formation property:

$$k = 1.0 \times 10^{-11} \text{ m}^2 \quad (6.9.2)$$

The pressure gradient is then determined by

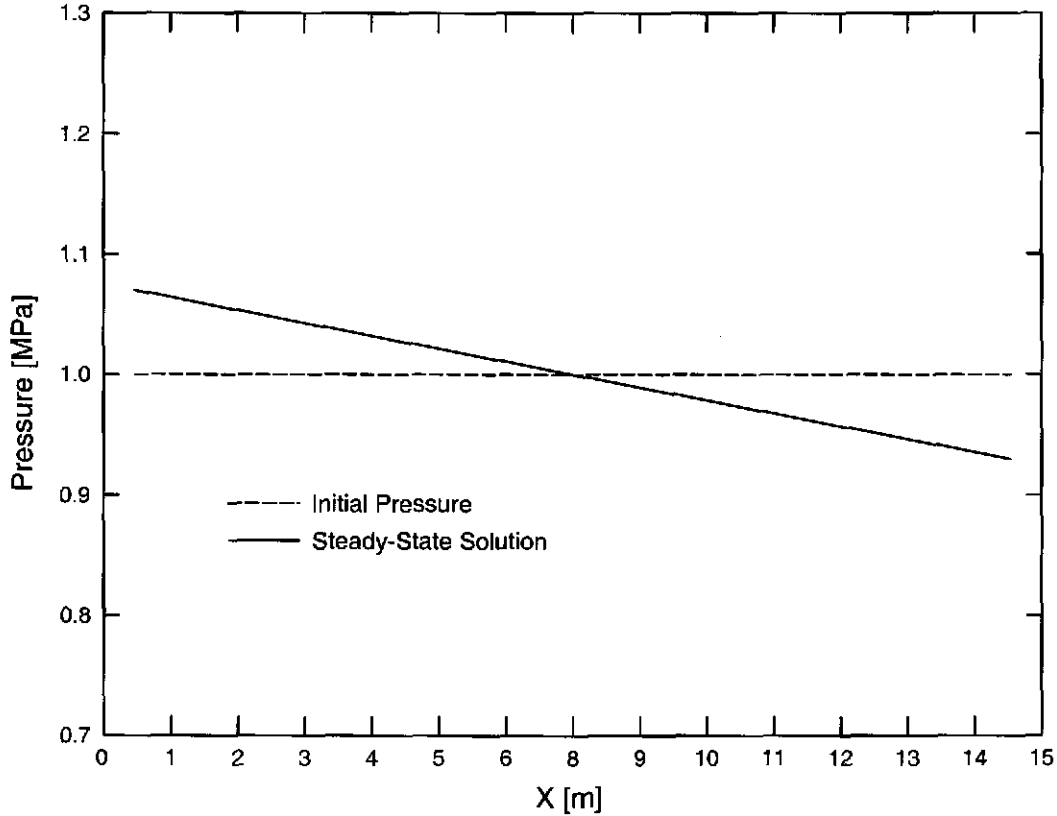
$$\frac{dp}{dx} = - \left(\frac{\mu_w}{k} \right) \frac{q_{inj}}{\rho_w A} \quad (6.9.3)$$

For the above parameter values,

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

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

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



U1:\jdschre\BRAGFLO_QA_96\TEST9\BF2_TEST9_HOMOG_RDVVP.CMD:1

SPLAT X2.0 04/25/96 11:49:36

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

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

This choice of permeability distribution maintains symmetry about the center of the reservoir.

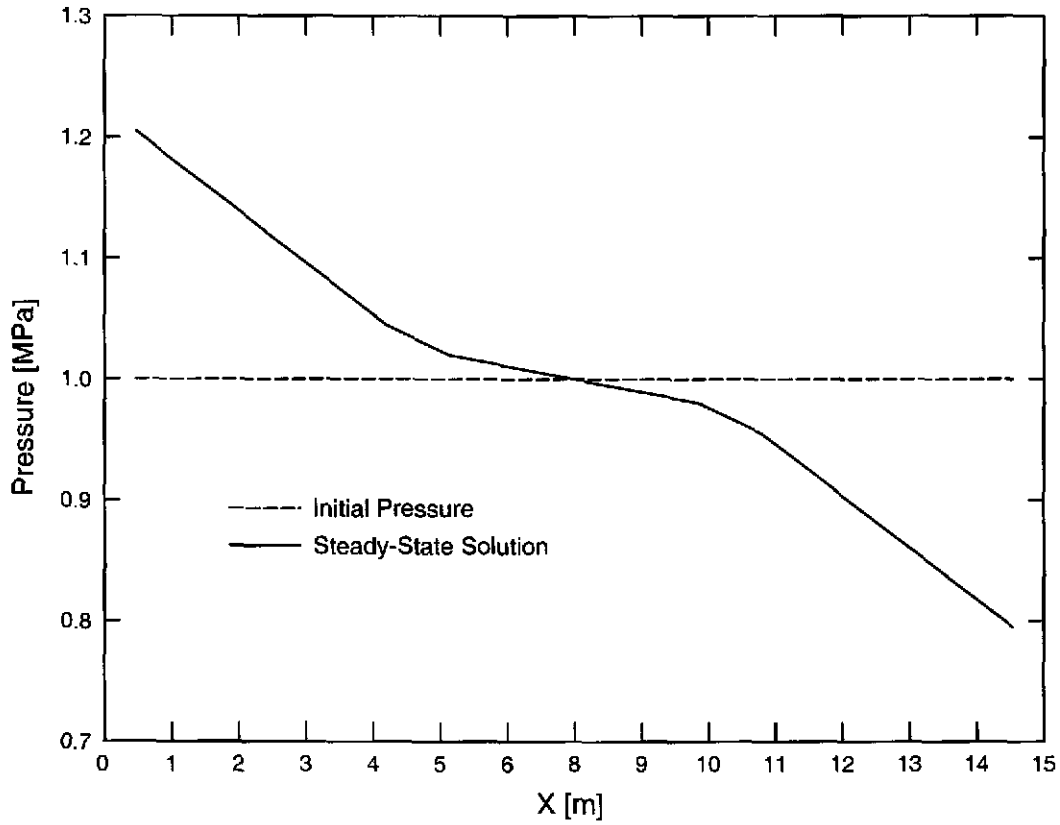
The resulting pressure gradients are:

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

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

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

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



**TABLE 6.9.1 Analytical Steady-State Solutions for Test Case #9.
 Homogeneous Reservoir Conditions**

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

Heterogeneous Reservoir Conditions

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

6.9.2 Test Procedure

Test Case #9 is run using the WIPP PA run control system. The scripts, script input files, and all other files related to validation testing of BRAGFLO 6.0 reside in QB0600 class of the CMS library, LIBBF. All test inputs are fetched at run time by the scripts, and test outputs/results and run logs are automatically stored by the scripts in the CMS library. The test case is run on each

of the three platforms, ES40, ES45 and ES47. Excerpts from the BRAGFLO 6.0, Test Case #9, .LOG files, BF2_QB0600_ES40_TEST9_HETER_RUN.LOG, BF2_QB0600_ES40_TEST9_HOMOGENEOUS_RUN.LOG, BF2_QB0600_ES45_TEST9_HETER_RUN.LOG, BF2_QB0600_ES45_TEST9_HOMOGENEOUS_RUN.LOG, BF2_QB0600_ES47_TEST9_HETER_RUN.LOG, and BF2_QB0600_ES47_TEST9_HOMOGENEOUS_RUN.LOG are included in Appendix A.9.1. These indicate the files that are used or generated.

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

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

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

The results from the validation test of BRAGFLO 5.0 on the ES47 running OpenVMS 8.2 were determined valid by comparison to the output from the validation of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 (Nemer, 2006). The output of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 was determined to be valid by comparison to the output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 (Stein; Zelinski, 2004b). The output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 was determined valid by comparison to the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 (Fox; Trone, 2003). In turn, the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 was determined to be valid by comparison to the output of the validation of BRAGFLO 4.10, done on an Alpha 2100 running OpenVMS 6.1 (Hanson; Fox; Trone, 2003). In the validation for Test Case #9 for BRAGFLO 4.10, the acceptance criteria were comparisons with analytical solutions of the output from the test case (Schreiber 1997a). The codes BF2_TEST9_HOMOGENEOUS_POST.FOR and BF2_TEST9_HETER_POST.FOR were run to extract water (brine) pressures and place this information into files used by the plotting package,

SPLAT. The resulting plots superimposed BRAGFLO results and the analytical solutions. Numerical comparisons were also performed.

6.9.3 Input Files

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

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

BF2_QB0600_ES47_TEST9_HETER_INP.DIF

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

```
139 FRACTURE MODEL FLAG
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_TEST9_HETER.INP;1
193 0.0 0.0 F
194 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
195 1.0 1.0
196 RATE CONSTANTS: BRUCITEI AND BRUCITEH
197 0.0 0.0
198 RATE COEFFICIENTS: RXH2S AND RXCO2
199 CHEMISTRY CUTOFF SATURATION: SOCMIN
200 0.0
201 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
202 2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
203 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
204 8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
205 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
206 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
207 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
208 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
209 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
210 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
211 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
212 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
213 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
214 7.8700E+03 3.4000E+03 4.7000E+03 1.1000E+03
215 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
216 3.6000E+03 2.3700E+03 3.0500E+03 2.1700E+03
217 WICKING SATURATION, LARXN, ALPHARXN
218 0.0000E+00 F F 5.0000E+01
219 WILL CREEP CLOSURE BE ACTIVATED?
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_TEST9_HETER_QA0500.INP;1
185 0.0 0.0
186 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
187 1.0 1.0
188 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6)
189 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
190 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O+c*FE=> a*H2+inert solids
191 1.0E+00 0.0 1.0000E+00
192 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O+c*CH2O=> a*GAS+inerts
193 1.0000E+00 0.0000E+00 1.0000E+00
194 WICKING SATURATION, LARXN, ALPHARXN
195 0.0000E+00 F 5.0000E+01
196 WILL CREEP CLOSURE BE ACTIVATED?
*****
```

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

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

BF2_QB0600_ES47_TEST9_HOMOG_INP.DIF

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

```
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_TEST9_HOMOG.INP;1
 135 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 136 1.000000E-02 1.000000E-03
 137 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 138 0
 139 FRACTURE MODEL FLAG
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_TEST9_HOMOG_QA0500.INP;1
 131 FRACTURE MODEL FLAG
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_TEST9_HOMOG.INP;1
 185 0.0 0.0 F
 186 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 187 1.0 1.0
 188 RATE CONSTANTS: BRUCITEI AND BRUCITEH
 189 0.0 0.0
 190 RATE COEFFICIENTS: RXH2S AND RXCO2
 191 CHEMISTRY CUTOFF SATURATION: SOCMIN
 192 0.0
 193 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 194 2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
 195 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 196 8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 197 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 198 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 199 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 200 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 201 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 202 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 203 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 204 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 205 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 206 7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 207 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 208 3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 209 WICKING SATURATION, LARXN, ALPHARXN
 210 0.0000E+00 F F 5.0000E+01
 211 WILL CREEP CLOSURE BE ACTIVATED?
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_TEST9_HOMOG_QA0500.INP;1
 177 0.0 0.0
 178 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 179 1.0 1.0
 180 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6)
 181 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 182 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O+c*FE=> a*H2+inert solids
 183 1.0E+00 0.0 1.00000E+00
 184 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O+c*CH2O=> a*GAS+inerts
 185 1.0000E+00 0.0000E+00 1.0000E+00
 186 WICKING SATURATION, LARXN, ALPHARXN
 187 0.0000E+00 F 5.0000E+01
 188 WILL CREEP CLOSURE BE ACTIVATED?
*****
Number of difference sections found: 4
Number of difference records found: 34
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.INP.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_TEST9_HOMOG.INP;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_TEST9_HOMOG_QA0500.INP;1
```

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

the creation of a file with porosity surface information. It is not generated by PREBRAG, but a .CSD file is generated by the SANTOS software module, which can be used as the BRAGFLO 6.0 input file.

6.9.4 Test Results

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

FIGURE 6.9.4 Summary of Difference Statistics for Test Case #9

BF2_QB0600_ES47_TEST9_HETER_OUT.DIF

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

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

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

BF2_QB0600_ES47_TEST9_HOMOG_OUT.DIF

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

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

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

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

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

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

6.10 Test Case #10. No Flow Boundary Conditions

6.10.1 Test Objective

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

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

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

where

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

Parameters for this study were taken to be

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

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

$$t > \frac{\phi\mu c A}{k} \quad (6.10.2)$$

where

- ϕ = porosity, 0.1,
- c = formation compressibility, $1.0 \times 10^{-8} \text{ [Pa}^{-1}\text{]}$,

$A = \text{reservoir area, } \pi r_e^2 \text{ [m}^2\text{]}.$

The time to semi-steady state is approximately

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

The simulation is run to 1.0×10^5 s.

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

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

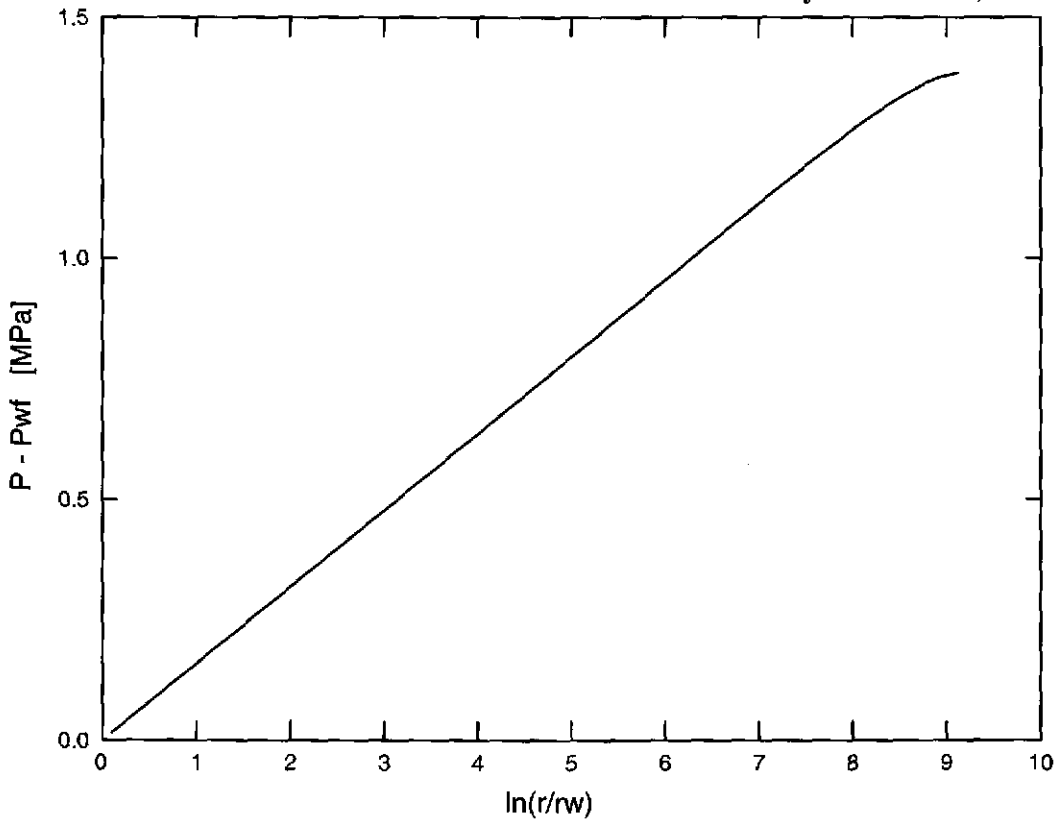


TABLE 6.10.1 Analytical Solution for Test Case #10, from BF2_TEST10.DAT

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

6.10.2 Test Procedure

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

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

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

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

The results from the validation test of BRAGFLO 5.0 on the ES47 running OpenVMS 8.2 were determined valid by comparison to the output from the validation of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 (Nemer, 2006). The output of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 was determined to be valid by comparison to the output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 (Stein; Zelinski, 2004b). The output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 was determined valid by comparison to the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 (Fox; Trone, 2003). In turn, the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 was determined to be valid by comparison to the output of the validation of BRAGFLO 4.10, done on an Alpha 2100 running OpenVMS 6.1 (Hanson; Fox; Trone, 2003). In the validation for Test Case #10 for BRAGFLO 4.10, the acceptance criteria were comparisons with analytical solutions of the output from the test case (Schreiber 1997a). The code BF2_TEST10_POST.FOR was run to perform several post-processing functions: 1) It extracts results from the BRAGFLO ASCII

output file; 2) it calculates the analytical solution at the same radial distances from the wellbore at which BRAGFLO has output results; 3) it calculates the absolute and relative errors in the BRAGFLO results compared with the analytical results; and 4) it places the results for both BRAGFLO and the analytical solution into a data file, BF2_TEST10.DAT, which is input to the plotting software, SPLAT. The resulting plots superimposed BRAGFLO results and the analytical solutions. Numerical comparisons were also performed.

6.10.3 Input Files

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

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

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

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

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

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

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

6.10.4 Test Results

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

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

FIGURE 6.10.3 Summary of Difference Statistics for Test Case #10

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10_OUT.DIF;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10_OUT;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10_OUT;1
```

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

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

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

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

6.11.1 Test Objective

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

The mass balance equations that BRAGFLO solves are:

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

where

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

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

6.11.2 Test Procedure

Test Case #11 is run using the WIPP PA run control system. The scripts, script input files, and all other files related to validation testing of BRAGFLO 6.0 reside in QB0600 class of the CMS

library, LIBBF. All test inputs are fetched at run time by the scripts, and test outputs/results and run logs are automatically stored by the scripts in the CMS library. The test case is run on each of the three platforms, ES40, ES45 and ES47. Excerpts from the BRAGFLO 6.0, Test Case #11, .LOG files, BF2_QB0600_ES40_TEST11_RUN.LOG, BF2_QB0600_ES45_TEST11_RUN.LOG and BF2_QB0600_ES47_TEST11_RUN.LOG are included in Appendix A.11.1. These indicate the files that are used or generated.

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

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

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

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

6.11.3 Input Files

Two types of input files are required to run BRAGFLO 6.0. The first input file, BF2_QB0600_TEST11.INP, is an ASCII control file generated by the PREBRAG software

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

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

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

```
177 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
178 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
179 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
180 7.8700E+03 3.4000E+03 4.7000E+03 1.1000E+03
181 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
182 3.6000E+03 2.3700E+03 3.0500E+03 2.1700E+03
183 WICKING SATURATION, HUMID SMOOTHING, ALPHARXN
184 0.0 F F 1000.
185 CREEP CLOSURE? IF .TRUE., 0=MOLE-BASED; 1=PRESSURE-BASED, PRES_LITHO TIME_INTRU
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_TEST11_DENNEW_QA0500.INP;1
151 0.0 0.0
152 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
153 0.0 0.0
154 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6)
155 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
156 SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
157 1.1730E+00 1.6540E+00 1.0000E+00
158 SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
159 7.6770E-01 0.0000E+00 1.0000E+00
160 WICKING SATURATION, HUMID SMOOTHING, ALPHARXN
161 0.0 F 1000.
162 CREEP CLOSURE? IF .TRUE., 0=MOLE-BASED; 1=PRESSURE-BASED, PRES_LITHO TIME_INTRU
*****
```

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

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

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

6.11.4 Test Results

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

FIGURE 6.11.2 Summary of Difference Statistics for Test Case #11

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

```
DIFFERENCES /IGNORE={SPACING,TRAILING_SPACES,BLANK_LINES}/MERGED=1/OUTPUT=-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11_OUT.DIF;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11_OUT;1-  
PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW_OUT;1
```

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

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

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

6.12 Test Case #12. Direct Brine Release

6.12.1 Test Objective

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

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

6.12.2 Test Procedure

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

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

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

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

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

6.12.3 Input Files

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

not used or read. The last sections of both files contain the density input parameters for the chemistry models, which are not used for this testcase.

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

BF2_QB0600_ES47_TEST12_UPPER_INP.DIF

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



```
343 39*0.000000E+00
344 39*0.000000E+00
345 39*0.000000E+00
346 39*0.000000E+00
347 39*0.000000E+00
348 39*0.000000E+00
349 39*0.000000E+00
350 39*0.000000E+00
351 39*0.000000E+00
352 39*0.000000E+00
353 39*0.000000E+00
354 39*0.000000E+00
355 39*0.000000E+00
356 39*0.000000E+00
357 DSATLIM, DPRESLIM, SATLIMIT
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_R1_S3_V046_T1200_L_QA0500.INP;1
317 DSATLIM, DPRESLIM, SATLIMIT
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1
500 NBORERESET
501 0
502 # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_R1_S3_V046_T1200_L_QA0500.INP;1
460 # LAMBDA SOR SGR
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1
517 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
518 1.000000E-02 1.000000E-03
519 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
520 0
521 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_R1_S3_V046_T1200_L_QA0500.INP;1
475 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1
536 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
537 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_R1_S3_V046_T1200_L_QA0500.INP;1
490 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 1 1
491 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1
566 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
567 7.8700E+03 3.4000E+03 4.7000E+03 1.1000E+03
568 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
569 3.6000E+03 2.3700E+03 3.0500E+03 2.1700E+03
570 CREEP CLOSURE?
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_R1_S3_V046_T1200_L_QA0500.INP;1
520 CREEP CLOSURE?
*****

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

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

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

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

6.12.4 Test Results

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

FIGURE 6.12.2 Summary of Difference Statistics for Test Case #12

BF2_QB0600_ES47_TEST12_UPPER_OUT.DIF

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

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

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

BF2_QB0600_ES47_TEST12_LOWER_OUT.DIF

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

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

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

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

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

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

6.13.1 Test Objective

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

6.13.2 Test Procedure

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

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

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

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

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

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

6.13.3 Input Files

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

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

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


1265 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1266 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1267 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1268 0.000000E+00
1269 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1270 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1271 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1272 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1273 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1274 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1275 0.000000E+00
1276 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1277 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1278 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1279 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1280 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1281 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1282 0.000000E+00
1283 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1284 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1285 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1286 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1287 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1288 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1289 0.000000E+00
1290 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1291 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1292 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1293 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1294 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1295 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1296 0.000000E+00
1297 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1298 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1299 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1300 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1301 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1302 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1303 0.000000E+00
1304 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1305 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1306 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1307 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1308 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1309 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1310 0.000000E+00
1311 DSATLIM, DPRESLIM, SATLIMIT

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
1121 DSATLIM, DPRESLIM, SATLIMIT

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1

1394 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1395 11 11 11 11 11
1396 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1397 11 11 11 11 11
1398 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1399 11 11 11 11 11

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1

1204 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1205 11 11 11 11 11
1206 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1207 11 11 11 11 11
1208 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1209 11 11 11 11 11

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1

1610 39 CAVITY_5
1611 NWST

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1

1420 NWST

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
1619 5
1620 MATRESET
1621 7 8 9 10 39
1622 BORE HOLE MATERIAL NUMBER
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
1428 4
1429 MATRESET
1430 7 8 9 10
1431 BORE HOLE MATERIAL NUMBER
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
1629 1.013250E+05
1630 1.013250E+05
1631 1.013250E+05
1632 SOWASTEIC
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
1438 SOWASTEIC
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
1635 0.000000E+00
1636 0.250000E+00
1637 0.200000E+00
1638 PRESDRZ
1640 NBORERESET
1641 0
1642 # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
1441 PRESDRZ
1443 # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
1681 39 7.000000E-01 0.000000E+00 0.000000E+00
1682 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
1482 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
1721 39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1722 # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
1521 # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
1761 39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1762 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1763 1.000000E-02 1.000000E-03
1764 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1765 0
1766 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
1560 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
1819 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO), INTRINSIC
1820 1.9045188518798551E-10 2.7932414729320935E-09 T
1821 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1822 1.000E-03 2.000E-01
1823 RATE CONSTANTS: BRUCITEI AND BRUCITEH
1824 0.0000E+00 0.0000E+00
1825 RATE COEFFICIENTS: RXH2S AND RXCO2
1826 1.1100E+00 0.0000E+00
1827 1.1100E+00 0.0000E+00
```



```
1828 CHEMISTRY CUTOFF SATURATION: SOCMIN
1829 0.0000E+00
1830 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
1831 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1832 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
1833 8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
1834 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1835 1.3081E+00 -1.3838E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1836 0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1837 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1838 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1839 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1840 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1841 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1842 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
1843 7.8700E+03 3.4000E+03 4.7000E+03 1.1000E+03
1844 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
1845 3.6000E+03 2.3700E+03 3.0500E+03 2.1700E+03
1846 WICKING SATURATION, HUMID RATE SMOOTHING, CONC SMOOTHING, ALPHARXN
1847 0.0000E+00 T F 1.0000E+03
1848 CREEP CLOSURE?
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
1613 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
1614 3.000E-08 1.5000E-07
1615 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1616 1.000E-03 2.0000E-01
1617 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6)
1618 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1619 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
1620 1.3081E+00 1.3838E+00 1.0000E+00
1621 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
1622 1.1100E+00 0.0000E+00 1.0000E+00
1623 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1624 0.0000E+00 T 1.0000E+03
1625 CREEP CLOSURE?
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
1852 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
1853 4 1.4800E+07 3.1557E+12 1 F
1854 MODPERM PARAMETERS
1855 5.5847E-12 0.0000E+00
1856 NUMBER OF MATERIAL REGIONS FOR CLOSURE
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
1629 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
1630 4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
1631 NUMBER OF MATERIAL REGIONS FOR CLOSURE
```

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

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

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

6.13.4 Test Results

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

FIGURE 6.13.2 Summary of Difference Statistics for Test Case #13

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

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

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

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

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

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

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

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

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

6.14.2 Test Procedure

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

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

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

6.14.3 Input Files

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

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

6.14.4 Test Results

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

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

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

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

6.14.4.1 Initial MgO Concentration

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

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

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

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

6.14.4.2 Material Change Reset Model

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

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

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

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

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

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

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

In Test Case #14, the species concentrations for material 8 (element 6) is set to change to 0 at 8,000 years (2.5246E+11 s), while the species concentrations for material 7 (element 7) should not be reset. The MgO concentration for element 6 and the Mg(OH)₂ concentration for element 7 are shown below in Figure 6.14.4. As seen in Figure 6.14.4, there is a step change in the MgO concentration to 0 for element 6 at 8,000 years, while no step change in the Mg(OH)₂ concentration is present for element 7.

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

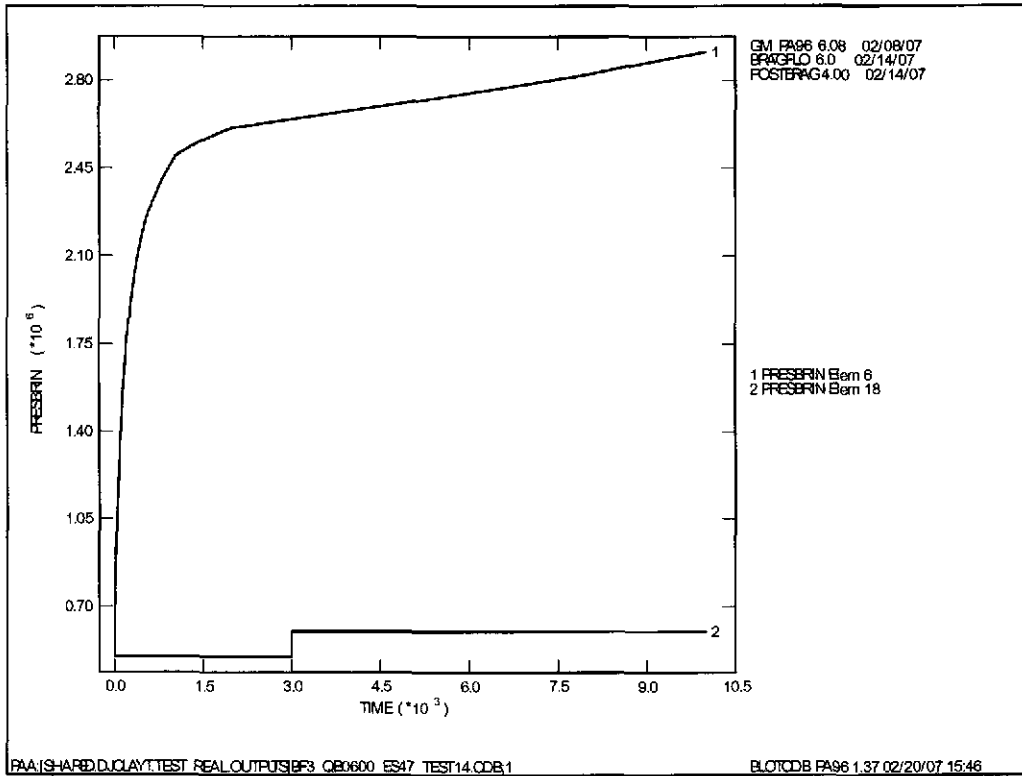


FIGURE 6.14.2 Pressure history for elements 6 and 18.

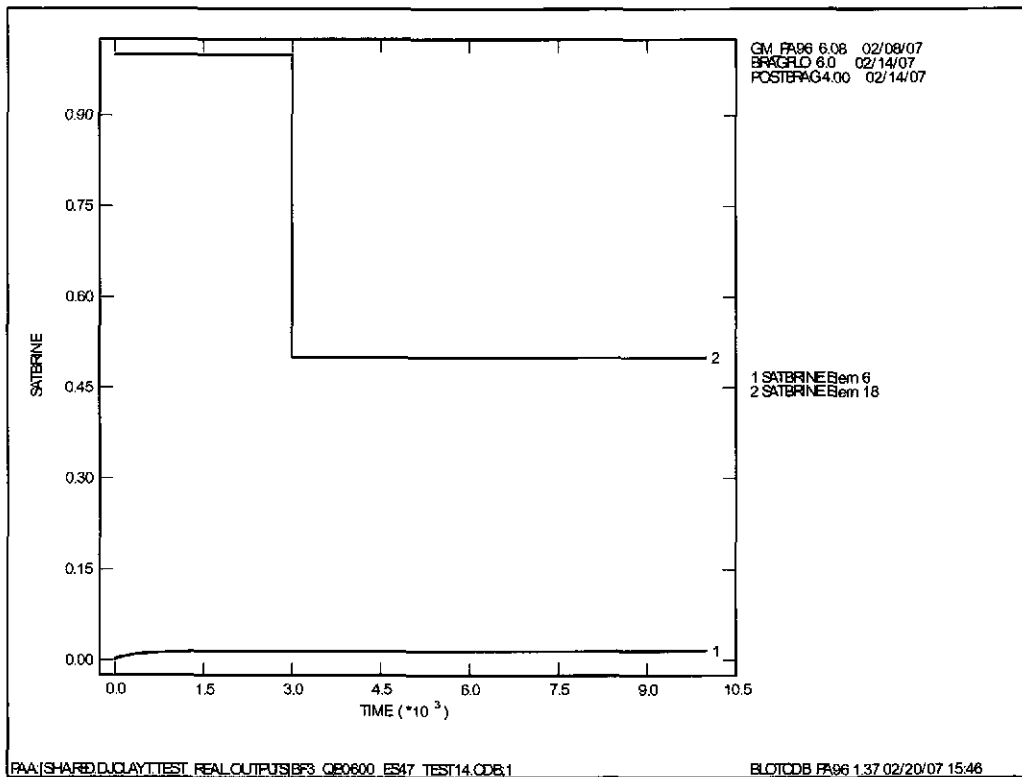


FIGURE 6.14.3 Brine saturation history for element 6 and 18.

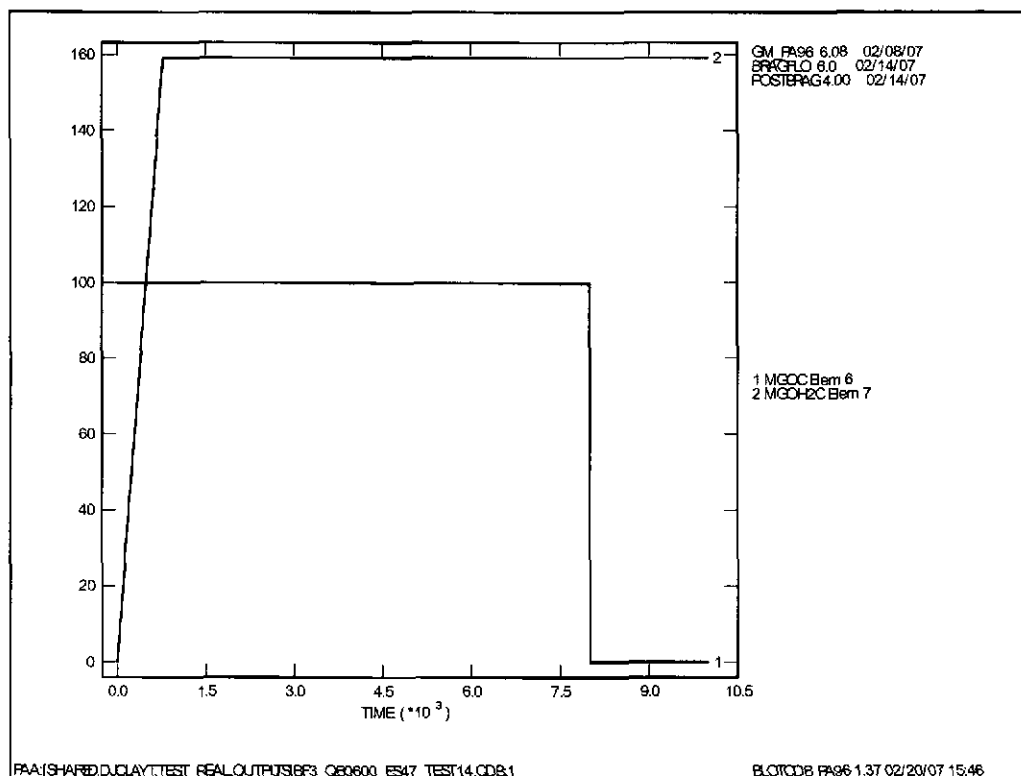


FIGURE 6.14.4 MgO concentration history for element 6 with Mg(OH)₂ concentration history for element 7.

6.14.4.3 Relative Permeability and Capillary Pressure Model

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

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

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

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

$$P_c = 0 \quad (6.14.3)$$

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

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

$$P_g = P_b + P_c. \quad (6.14.4)$$

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

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

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

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

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

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

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

Calculating the gas phase relative permeability from Equation 6.14.2 gives

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

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

Calculating the gas pressure from Equations 6.14.3 and 6.14.4 gives

$$P_g(999 \text{ s}) = 5.17104\text{E}+05 \quad \{\text{cell E38}\}$$

$$P_g(3.1557\text{E}+09 \text{ s}) = 1.42576\text{E}+06 \quad \{\text{cell E39}\}$$

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

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

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

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

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

where the modified brine saturation is

$$S_e = \frac{S_w - S_{wr}}{1 - S_{wr}} \quad (6.14.8)$$

the modified gas saturation is

$$S_{eg} = \frac{S_w - S_{wr}}{1 - S_{gr} - S_{wr}} \quad (6.14.9)$$

and the modified effective brine saturation is

$$S_{me} = \frac{S_w - (S_{co} - S_{emin})}{1 - (S_{co} - S_{emin})}. \quad (6.14.10)$$

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

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

$$P_t = ak^\eta, \quad (6.14.11)$$

The parameters in this correlation are input as $a = \text{PCT_A}$ and $\eta = \text{PCT_EXP}$.

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

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

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

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

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

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

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

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

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

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

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

$$P_g(3.1557\text{E}+09 \text{ s}) = 1.42577\text{E}+06 \quad \{\text{cell E57}\}$$

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

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

6.14.4.4 Saturation Dependent Chemistry Rates

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

$$\begin{aligned} q_{rc} &= (r_{ci}S_{cw} + r_{ch}S_{ncw})C_{Fe}^0V \\ q_{rm} &= (r_{mi}S_{cw} + r_{mh}S_{ncw})C_{CH_2O}^0V \\ q_{rh} &= (r_{hi}S_{cw} + r_{hh}S_{ncw})C_{MgO}^0V \end{aligned} \quad (6.14.12)$$

where

- r_{ci} is the intrinsic inundated iron corrosion rate (mol kg⁻¹ s⁻¹),
- r_{ch} is the intrinsic humid iron corrosion rate (mol kg⁻¹ s⁻¹),
- r_{mi} is the intrinsic inundated cellulose microbial degradation rate (mol kg⁻¹ s⁻¹),
- r_{mh} is the intrinsic humid cellulose microbial degradation rate (mol kg⁻¹ s⁻¹),
- r_{hi} is the intrinsic inundated MgO hydration rate (mol kg⁻¹ s⁻¹),
- r_{hh} is the intrinsic humid MgO hydration rate (mol kg⁻¹ s⁻¹),
- S_{cw} is the effective chemistry brine or wetting-phase saturation,
- S_{ncw} is the effective chemistry gas or non-wetting-phase saturation ($S_{ncw} = 1 - S_{cw}$),
- V is the volume of the grid cell (m³).

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

$$\begin{aligned} q_{rci} &= r_{ci}S_{cw}C_{Fe}^0V \\ q_{rmi} &= r_{mi}S_{cw}C_{CH_2O}^0V \\ q_{rhi} &= r_{hi}S_{cw}C_{MgO}^0V \end{aligned} \quad (6.14.13)$$

where

- q_{rci} is the iron corrosion rate under inundated conditions (mol Fe s⁻¹),
- q_{rmi} is the cellulose microbial degradation rate under inundated conditions (mol CH₂O s⁻¹),
- q_{rhi} is the MgO hydration rate under inundated conditions (mol MgO s⁻¹).

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

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

where

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

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

The saturation dependent chemistry rates are tested at $t = 3.1557\text{E}+09$ s for elements 6, 7, 8 and 9 (grid blocks (2,1,1), (6,1,1), (10,1,1) and (14,1,1)), where the brine saturations, grid volumes and initial concentrations of Fe, CH₂O, and MgO are given in the BRAGFLO output file as follows:

$S_w(\text{Waste 1 @ } 3.1557\text{E}+09 \text{ s})$	= 4.86647E-03	{line 59}
$S_w(\text{Waste 2 @ } 3.1557\text{E}+09 \text{ s})$	= 8.26608E-01	{line 60}
$S_w(\text{Waste 3 @ } 3.1557\text{E}+09 \text{ s})$	= 9.78357E-01	{line 61}
$S_w(\text{Waste 4 @ } 3.1557\text{E}+09 \text{ s})$	= 9.92682E-01	{line 62}
$V(\text{Waste 1})$	= 1.00000E+00 m ³	{line 64}
$V(\text{Waste 2})$	= 1.00000E+00 m ³	{line 65}
$V(\text{Waste 3})$	= 1.00000E+00 m ³	{line 66}
$V(\text{Waste 4})$	= 1.00000E+00 m ³	{line 67}
$C_{\text{Fe}}^0(\text{Waste 1})$	= 1.00000E+02 mol Fe m ⁻³	{line 68}
$C_{\text{Fe}}^0(\text{Waste 2})$	= 0.00000E+00 mol Fe m ⁻³	{line 69}
$C_{\text{Fe}}^0(\text{Waste 3})$	= 0.00000E+00 mol Fe m ⁻³	{line 70}
$C_{\text{Fe}}^0(\text{Waste 4})$	= 1.10000E+02 mol Fe m ⁻³	{line 71}
$C_{\text{CH}_2\text{O}}^0(\text{Waste 1})$	= 5.00000E+01 mol CH ₂ O m ⁻³	{line 72}
$C_{\text{CH}_2\text{O}}^0(\text{Waste 2})$	= 0.00000E+00 mol CH ₂ O m ⁻³	{line 73}
$C_{\text{CH}_2\text{O}}^0(\text{Waste 3})$	= 4.50000E+01 mol CH ₂ O m ⁻³	{line 74}
$C_{\text{CH}_2\text{O}}^0(\text{Waste 4})$	= 5.50000E+01 mol CH ₂ O m ⁻³	{line 75}
$C_{\text{MgO}}^0(\text{Waste 1})$	= 1.00000E+02 mol MgO m ⁻³	{line 76}

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

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

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

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

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

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

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

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

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

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

$$\begin{aligned}
 q_{rci}(\text{Waste 1 @ } 9.4673\text{E}+10 \text{ s}) &= 7.9115\text{E}-12 \text{ mol Fe s}^{-1} && \{\text{cell E98}\} \\
 q_{rmi}(\text{Waste 1 @ } 9.4673\text{E}+10 \text{ s}) &= 2.6372\text{E}-12 \text{ mol CH}_2\text{O s}^{-1} && \{\text{cell E103}\} \\
 q_{rhi}(\text{Waste 1 @ } 9.4673\text{E}+10 \text{ s}) &= 2.6372\text{E}-11 \text{ mol MgO s}^{-1} && \{\text{cell E108}\}
 \end{aligned}$$

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

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

6.14.4.5 Cellulosics Microbial Degradation Dependent Chemistry Rates

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

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

where

- q_{rsulf} = the sulfidation rate (mol H₂S s⁻¹),
- q_{rcarb} = the carbonation rate (mol CO₂ s⁻¹),
- s_{sulf} = the stoichiometric coefficient for H₂S in the cellulose microbial degradation reaction (mol H₂S/mol CH₂O),
- s_{carb} = the stoichiometric coefficient for CO₂ in the cellulose microbial degradation reaction (mol CO₂/mol CH₂O).

The sulfidation and carbonation is assumed to preferentially react with the Fe(OH)₂ and Mg(OH)₂ before the Fe and MgO, respectively. The sulfidation and carbonation reactions of Fe and MgO, are added for the case when the cellulose microbial degradation rate is much faster than the iron corrosion and MgO hydration reactions, respectively. The transition from Fe(OH)₂ and Mg(OH)₂ to Fe and MgO reacting is smoothed by the following equations, based on the ratio of current Fe(OH)₂ and Mg(OH)₂ concentrations, C_{FeOH2} and C_{MgOH2} , respectively and the initial concentrations.

$$\begin{aligned}
 q_{rsulf_FeOH2} &= q_{rsulf} \left[1 - \exp\left(-\alpha \frac{C_{FeOH2}}{C_{Fe}^0}\right) \right] \\
 q_{rsulf_Fe} &= q_{rsulf} - q_{rsulf_FeOH2} \\
 q_{rcarb_MgOH2} &= q_{rcarb} \left[1 - \exp\left(-\alpha \frac{C_{MgOH2}}{C_{MgO}^0}\right) \right] \\
 q_{rcarb_MgO} &= q_{rcarb} - q_{rcarb_MgOH2}
 \end{aligned}
 \tag{6.14.16}$$

where

- q_{rsulf_FeOH2} = the iron hydroxide sulfidation rate (mol H₂S s⁻¹),
- q_{rsulf_Fe} = the iron sulfidation rate (mol H₂S s⁻¹),
- q_{rcarb_MgOH2} = the MgOH₂ carbonation rate (mol CO₂ s⁻¹),
- q_{rcarb_MgO} = the MgO carbonation rate (mol CO₂ s⁻¹)
- q_{rsulf} = calculated in Equation 6.14.15,
- q_{rcarb} = calculated in Equation 6.14.15.

When the Fe and Fe(OH)₂ concentrations are zero, the sulfidation rates are both zero, while when the MgO and Mg(OH)₂ concentrations are zero, the carbonation rates are both zero.

The cellulose microbial degradation dependent chemistry rates are tested at $t = 3.1557E+09$ s for elements 7, 8 and 9 (grid blocks (6,1,1), (10,1,1) and (14,1,1)), where the microbial degradation rates and Fe, Fe(OH)₂, MgO and Mg(OH)₂ concentrations are given in the BRAGFLO output file as follows:

q_{rmi} (Waste 2 @ 3.1557E+09 s)	= 0.00000E+00 mol CH ₂ O s ⁻¹	{cell D100}
q_{rmi} (Waste 3 @ 3.1557E+09 s)	= 9.00000E-09 mol CH ₂ O s ⁻¹	{cell D101}
q_{rmi} (Waste 4 @ 3.1557E+09 s)	= 1.10000E-08 mol CH ₂ O s ⁻¹	{cell D102}

C_{Fe} (Waste 2 @ 3.1557E+09 s)	= 0.00000E+00 kg Fe m ⁻³	{line 110}
C_{Fe} (Waste 3 @ 3.1557E+09 s)	= 0.00000E+00 kg Fe m ⁻³	{line 111}
C_{Fe} (Waste 4 @ 3.1557E+09 s)	= 1.04170E+02 kg Fe m ⁻³	{line 112}
C_{FeOH_2} (Waste 2 @ 3.1557E+09 s)	= 0.00000E+00 kg Fe(OH) ₂ m ⁻³	{line 113}
C_{FeOH_2} (Waste 3 @ 3.1557E+09 s)	= 0.00000E+00 kg Fe(OH) ₂ m ⁻³	{line 114}
C_{FeOH_2} (Waste 4 @ 3.1557E+09 s)	= 7.82065E+00 kg Fe(OH) ₂ m ⁻³	{line 115}
C_{MgO} (Waste 2 @ 3.1557E+09 s)	= 9.60093E+01 kg MgO m ⁻³	{line 116}
C_{MgO} (Waste 3 @ 3.1557E+09 s)	= 7.85457E+01 kg MgO m ⁻³	{line 117}
C_{MgO} (Waste 4 @ 3.1557E+09 s)	= 0.00000E+00 kg MgO m ⁻³	{line 118}
C_{MgOH_2} (Waste 2 @ 3.1557E+09 s)	= 2.02443E+01 kg Mg(OH) ₂ m ⁻³	{line 119}
C_{MgOH_2} (Waste 3 @ 3.1557E+09 s)	= 1.49177E+01 kg Mg(OH) ₂ m ⁻³	{line 120}
C_{MgOH_2} (Waste 4 @ 3.1557E+09 s)	= 0.00000E+00 kg Mg(OH) ₂ m ⁻³	{line 121}

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

$s_{sulf}(1)$ = H ₂ S stoichiometric coefficient (1)	= 5.00E-01	{line 122}
$s_{sulf}(2)$ = H ₂ S stoichiometric coefficient (2)	= 5.00E-01	{line 123}
$s_{carb}(1)$ = CO ₂ stoichiometric coefficient (1)	= 1.00E+00	{line 124}
$s_{carb}(2)$ = CO ₂ stoichiometric coefficient (2)	= 1.00E+00	{line 125}

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

$q_{rsulf_FeOH_2}$ (Waste 2 @ 3.1557E+09 s)	= 0.0000E+00 mol H ₂ S s ⁻¹	{cell E132}
$q_{rsulf_FeOH_2}$ (Waste 3 @ 3.1557E+09 s)	= 0.0000E+00 mol H ₂ S s ⁻¹	{cell E133}
$q_{rsulf_FeOH_2}$ (Waste 4 @ 3.1557E+09 s)	= 5.5000E-09 mol H ₂ S s ⁻¹	{cell E134}
q_{rsulf_Fe} (Waste 2 @ 3.1557E+09 s)	= 0.0000E+00 mol H ₂ S s ⁻¹	{cell E135}
q_{rsulf_Fe} (Waste 3 @ 3.1557E+09 s)	= 0.0000E+00 mol H ₂ S s ⁻¹	{cell E136}
q_{rsulf_Fe} (Waste 4 @ 3.1557E+09 s)	= 0.0000E+00 mol H ₂ S s ⁻¹	{cell E137}
$q_{rcarb_MgOH_2}$ (Waste 2 @ 3.1557E+09 s)	= 0.0000E+00 mol CO ₂ s ⁻¹	{cell E138}

$q_{rcarb_MgOH2}(\text{Waste 3 @ } 3.1557\text{E}+09 \text{ s})$	$= 9.0000\text{E}-09 \text{ mol CO}_2 \text{ s}^{-1}$	{cell E139}
$q_{rcarb_MgOH2}(\text{Waste 4 @ } 3.1557\text{E}+09 \text{ s})$	$= 0.0000\text{E}+00 \text{ mol CO}_2 \text{ s}^{-1}$	{cell E140}
$q_{rcarb_MgO}(\text{Waste 2 @ } 3.1557\text{E}+09 \text{ s})$	$= 0.0000\text{E}+00 \text{ mol CO}_2 \text{ s}^{-1}$	{cell E141}
$q_{rcarb_MgO}(\text{Waste 3 @ } 3.1557\text{E}+09 \text{ s})$	$= 0.0000\text{E}+00 \text{ mol CO}_2 \text{ s}^{-1}$	{cell E142}
$q_{rcarb_MgO}(\text{Waste 4 @ } 3.1557\text{E}+09 \text{ s})$	$= 0.0000\text{E}+00 \text{ mol CO}_2 \text{ s}^{-1}$	{cell E143}

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

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

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

6.14.4.6 Additional Chemistry Tests

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

TABLE 6.14.2 Additional Chemistry Rates in Test Case #14.

Variable Name	Description	Units
H2RATE	H ₂ generation rate–simple model	kg/(s·m ³)
BRINRATE	Brine consumption rate–simple model	kg/(s·m ³)
FERATE	Fe consumption rate–simple model	kg/(s·m ³)
CELLRATE	Biodegrad consumption rate–simple model	kg/(s·m ³)
FEOH2R	Fe(OH) ₂ generation rate–simple model	kg/(s·m ³)
FESR	FeS generation rate–simple model	kg/(s·m ³)
MGOR	MgO generation rate–simple model	kg/(s·m ³)
MGOH2R	Mg(OH) ₂ generation rate–simple model	kg/(s·m ³)
MGCO3R	MgCO ₃ generation rate–simple model	kg/(s·m ³)

TABLE 6.14.3 Test Case #14 Stoichiometric Coefficients.

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

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

The brine consumption rate (BRINRATE) will be multiplied by the molecular weight of brine, which is calculated from the salinity of the brine, m_s , in weight percent salt and the molecular weight of H_2O , $M_{w,\text{H}_2\text{O}}$, which should be obtained from the output file, where it is echoed from the input:

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

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

$$MW_{brine} = \frac{MW_{\text{H}_2\text{O}}}{1 - \frac{m_s}{100}} \quad (6.14.17)$$

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

$$\begin{aligned} q_{rci}(\text{Waste 2 @ } 3.1557\text{E}+09 \text{ s}) &= 0.0000\text{E}+00 \text{ mol Fe s}^{-1} && \{\text{cell D95}\} \\ q_{rci}(\text{Waste 3 @ } 3.1557\text{E}+09 \text{ s}) &= 0.0000\text{E}+00 \text{ mol Fe s}^{-1} && \{\text{cell D96}\} \end{aligned}$$

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

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

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

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

$S_{5,4}$	= CH ₂ O reaction 5 coefficient	= 0.00E+00 mol CH ₂ O/mol MgO	{line 184}
$S_{5,5}$	= Fe(OH) ₂ reaction 5 coefficient	= 0.00E+00 mol Fe(OH) ₂ /mol MgO	{line 185}
$S_{5,6}$	= FeS reaction 5 coefficient	= 0.00E+00 mol FeS/mol MgO	{line 186}
$S_{5,7}$	= MgO reaction 5 coefficient	= -1.00E+00 mol MgO/mol MgO	{line 187}
$S_{5,8}$	= Mg(OH) ₂ reaction 5 coefficient	= 1.00E+00 mol Mg(OH) ₂ /mol MgO	{line 188}
$S_{5,9}$	= MgCO ₃ reaction 5 coefficient	= 0.00E+00 mol MgCO ₃ /mol MgO	{line 189}
$S_{6,1}$	= H ₂ reaction 6 coefficient	= 0.00E+00 mol H ₂ /mol Mg(OH) ₂	{line 190}
$S_{6,2}$	= H ₂ O reaction 6 coefficient	= 1.00E+00 mol H ₂ O /mol Mg(OH) ₂	{line 191}
$S_{6,3}$	= Fe reaction 6 coefficient	= 0.00E+00 mol Fe/mol Mg(OH) ₂	{line 192}
$S_{6,4}$	= CH ₂ O reaction 6 coefficient	= 0.00E+00 mol CH ₂ O/mol Mg(OH) ₂	{line 193}
$S_{6,5}$	= Fe(OH) ₂ reaction 6 coefficient	= 0.00E+00 mol Fe(OH) ₂ /mol Mg(OH) ₂	{line 194}
$S_{6,6}$	= FeS reaction 6 coefficient	= 0.00E+00 mol FeS/mol Mg(OH) ₂	{line 195}
$S_{6,7}$	= MgO reaction 6 coefficient	= 0.00E+00 mol MgO/mol Mg(OH) ₂	{line 196}
$S_{6,8}$	= Mg(OH) ₂ reaction 6 coefficient	= -1.00E+00 mol Mg(OH) ₂ /mol Mg(OH) ₂	{line 197}
$S_{6,9}$	= MgCO ₃ reaction 6 coefficient	= 1.00E+00 mol MgCO ₃ /mol Mg(OH) ₂	{line 198}
$S_{7,1}$	= H ₂ reaction 7 coefficient	= 0.00E+00 mol H ₂ /mol MgO	{line 199}
$S_{7,2}$	= H ₂ O reaction 7 coefficient	= 0.00E+00 mol H ₂ O /mol MgO	{line 200}
$S_{7,3}$	= Fe reaction 7 coefficient	= 0.00E+00 mol Fe/mol MgO	{line 201}
$S_{7,4}$	= CH ₂ O reaction 7 coefficient	= 0.00E+00 mol CH ₂ O/mol MgO	{line 202}
$S_{7,5}$	= Fe(OH) ₂ reaction 7 coefficient	= 0.00E+00 mol Fe(OH) ₂ /mol MgO	{line 203}
$S_{7,6}$	= FeS reaction 7 coefficient	= 0.00E+00 mol FeS/mol MgO	{line 204}
$S_{7,7}$	= MgO reaction 7 coefficient	= -1.00E+00 mol MgO/mol MgO	{line 205}
$S_{7,8}$	= Mg(OH) ₂ reaction 7 coefficient	= 0.00E+00 mol Mg(OH) ₂ /mol MgO	{line 206}
$S_{7,9}$	= MgCO ₃ reaction 7 coefficient	= 1.00E+00 mol MgCO ₃ /mol MgO	{line 207}
MW_{H_2}	= H ₂ molecular weight	= 2.0159E-03 kg/mol	{line 208}
MW_{H_2O}	= H ₂ O molecular weight	= 1.8015E-02 kg/mol	{line 209}
MW_{Fe}	= Fe molecular weight	= 5.5847E-02 kg/mol	{line 210}
MW_{CH_2O}	= CH ₂ O molecular weight	= 2.7023E-02 kg/mol	{line 211}
MW_{FeOH_2}	= Fe(OH) ₂ molecular weight	= 8.9862E-02 kg/mol	{line 212}
MW_{FeS}	= FeS molecular weight	= 8.7900E-02 kg/mol	{line 213}

MW_{MgO}	= MgO molecular weight	= 4.0304E-02 kg/mol	{line 214}
MW_{MgOH2}	= Mg(OH) ₂ molecular weight	= 5.8320E-02 kg/mol	{line 215}
MW_{MgCO3}	= MgCO ₃ molecular weight	= 8.4314E-02 kg/mol	{line 216}
m_s	= Brine salinity	= 3.2400E+01 %	{line 217}

Calculating the additional chemistry rates from the iron corrosion rates, microbial degradation rates, Fe and Fe(OH)₂ sulfidation rates, MgO hydration rates and MgO and Mg(OH)₂ carbonation rates and using the stoichiometric coefficients gives

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

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

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

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

6.14.4.7 Solids Production

As the chemical reactions occur, different chemical species with varying densities are produced, changing the volume of the solids. The total change in the volume of solids, ΔV_s (m³ solid/m³ grid), can be calculated by:

$$\Delta V_s = \sum_i \Delta V_{si} \quad (6.14.18)$$

where the volume change for species *i*, ΔV_{si} (m³ species i/m³ grid), is:

$$\Delta V_{si} = \frac{C_i - C_i^0}{\rho_i} \quad (6.14.19)$$

where

- C_i = the concentration of species *i* (kg species i/m³ grid),
- C_i^0 = the initial concentration of species *i* (kg species i/m³ grid),
- ρ_i = the density of species *i* (kg species i/ m³ species i).

The solid production model is tested at $t = 3.1557E+09$ s for elements 7, 8 and 9 (grid blocks (6,1,1), (10,1,1) and (14,1,1)), where the CH₂O, Fe, Fe(OH)₂, FeS, MgO, Mg(OH)₂, MgCO₃ and salt, current and initial concentrations are given in the BRAGFLO output file as follows:

$C_{\text{CH}_2\text{O}}$ (Waste 2 @ 3.1557E+09 s)	= 0.00000E+00 kg CH ₂ O m ⁻³	{line 247}
$C_{\text{CH}_2\text{O}}$ (Waste 3 @ 3.1557E+09 s)	= 4.42325E+01 kg CH ₂ O m ⁻³	{line 248}
$C_{\text{CH}_2\text{O}}$ (Waste 4 @ 3.1557E+09 s)	= 5.40620E+01 kg CH ₂ O m ⁻³	{line 249}
C_{Fe} (Waste 2 @ 3.1557E+09 s)	= 0.00000E+00 kg Fe m ⁻³	{line 250}
C_{Fe} (Waste 3 @ 3.1557E+09 s)	= 0.00000E+00 kg Fe m ⁻³	{line 251}
C_{Fe} (Waste 4 @ 3.1557E+09 s)	= 1.04170E+02 kg Fe m ⁻³	{line 252}
C_{FeOH_2} (Waste 2 @ 3.1557E+09 s)	= 0.00000E+00 kg Fe(OH) ₂ m ⁻³	{line 253}
C_{FeOH_2} (Waste 3 @ 3.1557E+09 s)	= 0.00000E+00 kg Fe(OH) ₂ m ⁻³	{line 254}
C_{FeOH_2} (Waste 4 @ 3.1557E+09 s)	= 7.82065E+00 kg Fe(OH) ₂ m ⁻³	{line 255}
C_{FeS} (Waste 2 @ 3.1557E+09 s)	= 0.00000E+00 kg FeS m ⁻³	{line 256}
C_{FeS} (Waste 3 @ 3.1557E+09 s)	= 0.00000E+00 kg FeS m ⁻³	{line 257}
C_{FeS} (Waste 4 @ 3.1557E+09 s)	= 1.52562E+00 kg FeS m ⁻³	{line 258}
C_{MgO} (Waste 2 @ 3.1557E+09 s)	= 9.60093E+01 kg MgO m ⁻³	{line 259}
C_{MgO} (Waste 3 @ 3.1557E+09 s)	= 7.85457E+01 kg MgO m ⁻³	{line 260}
C_{MgO} (Waste 4 @ 3.1557E+09 s)	= 0.00000E+00 kg MgO m ⁻³	{line 261}
C_{MgOH_2} (Waste 2 @ 3.1557E+09 s)	= 2.02443E+01 kg Mg(OH) ₂ m ⁻³	{line 262}
C_{MgOH_2} (Waste 3 @ 3.1557E+09 s)	= 1.49177E+01 kg Mg(OH) ₂ m ⁻³	{line 263}
C_{MgOH_2} (Waste 4 @ 3.1557E+09 s)	= 0.00000E+00 kg Mg(OH) ₂ m ⁻³	{line 264}
C_{MgCO_3} (Waste 2 @ 3.1557E+09 s)	= 0.00000E+00 kg MgCO ₃ m ⁻³	{line 265}
C_{MgCO_3} (Waste 3 @ 3.1557E+09 s)	= 2.39463E+00 kg MgCO ₃ m ⁻³	{line 266}
C_{MgCO_3} (Waste 4 @ 3.1557E+09 s)	= 0.00000E+00 kg MgCO ₃ m ⁻³	{line 267}
C_{Salt} (Waste 2 @ 3.1557E+09 s)	= 2.99724E+00 kg Salt m ⁻³	{line 268}
C_{Salt} (Waste 3 @ 3.1557E+09 s)	= 2.20862E+00 kg Salt m ⁻³	{line 269}
C_{Salt} (Waste 4 @ 3.1557E+09 s)	= 1.50290E+00 kg Salt m ⁻³	{line 270}
$C_{\text{CH}_2\text{O}}^0$ (Waste 2)	= 0.00000E+00 kg CH ₂ O m ⁻³	{line 271}

$C_{\text{CH}_2\text{O}}^0$ (Waste 3)	= 4.50000E+01 kg CH ₂ O m ⁻³	{line 272}
$C_{\text{CH}_2\text{O}}^0$ (Waste 4)	= 5.50000E+01 kg CH ₂ O m ⁻³	{line 273}
C_{Fe}^0 (Waste 2)	= 0.00000E+00 kg Fe m ⁻³	{line 274}
C_{Fe}^0 (Waste 3)	= 0.00000E+00 kg Fe m ⁻³	{line 275}
C_{Fe}^0 (Waste 4)	= 1.10000E+02 kg Fe m ⁻³	{line 276}
$C_{\text{FeOH}_2}^0$ (Waste 2)	= 0.00000E+00 kg Fe(OH) ₂ m ⁻³	{line 277}
$C_{\text{FeOH}_2}^0$ (Waste 3)	= 0.00000E+00 kg Fe(OH) ₂ m ⁻³	{line 278}
$C_{\text{FeOH}_2}^0$ (Waste 4)	= 0.00000E+00 kg Fe(OH) ₂ m ⁻³	{line 279}
C_{FeS}^0 (Waste 2)	= 0.00000E+00 kg FeS m ⁻³	{line 280}
C_{FeS}^0 (Waste 3)	= 0.00000E+00 kg FeS m ⁻³	{line 281}
C_{FeS}^0 (Waste 4)	= 0.00000E+00 kg FeS m ⁻³	{line 282}
C_{MgO}^0 (Waste 2)	= 1.10000E+02 kg MgO m ⁻³	{line 283}
C_{MgO}^0 (Waste 3)	= 9.00000E+01 kg MgO m ⁻³	{line 284}
C_{MgO}^0 (Waste 4)	= 0.00000E+00 kg MgO m ⁻³	{line 285}
$C_{\text{MgOH}_2}^0$ (Waste 2)	= 0.00000E+00 kg Mg(OH) ₂ m ⁻³	{line 286}
$C_{\text{MgOH}_2}^0$ (Waste 3)	= 0.00000E+00 kg Mg(OH) ₂ m ⁻³	{line 287}
$C_{\text{MgOH}_2}^0$ (Waste 4)	= 0.00000E+00 kg Mg(OH) ₂ m ⁻³	{line 288}
$C_{\text{MgCO}_3}^0$ (Waste 2)	= 0.00000E+00 kg MgCO ₃ m ⁻³	{line 289}
$C_{\text{MgCO}_3}^0$ (Waste 3)	= 0.00000E+00 kg MgCO ₃ m ⁻³	{line 290}
$C_{\text{MgCO}_3}^0$ (Waste 4)	= 0.00000E+00 kg MgCO ₃ m ⁻³	{line 291}
C_{Salt}^0 (Waste 2)	= 0.00000E+00 kg Salt m ⁻³	{line 292}
C_{Salt}^0 (Waste 3)	= 0.00000E+00 kg Salt m ⁻³	{line 293}
C_{Salt}^0 (Waste 4)	= 0.00000E+00 kg Salt m ⁻³	{line 294}

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

Information Only

ρ_{CH_2O}	= CH ₂ O density	= 1.1000E+03	{line 295}
ρ_{Fe}	= Fe density	= 7.8700E+03	{line 296}
ρ_{FeOH_2}	= Fe(OH) ₂ density	= 3.4000E+03	{line 297}
ρ_{FeS}	= FeS density	= 4.7000E+03	{line 298}
ρ_{MgO}	= MgO density	= 3.6000E+03	{line 299}
ρ_{MgOH_2}	= Mg(OH) ₂ density	= 2.3700E+03	{line 300}
ρ_{MgCO_3}	= MgCO ₃ density	= 3.0500E+03	{line 301}
ρ_{Salt}	= Salt density	= 2.1700E+03	{line 302}

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

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

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

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

6.14.4.8 Smooth Permeability

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

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

$$f(t_n) = (c_1 + c_2 t_n + c_3 t_n^2 + c_4 t_n^3 + c_5 t_n^4 + c_6 t_n^5 + c_7 t_n^6 + c_8 t_n^7) \quad (6.14.21)$$

$$t_n = \begin{cases} 0 & t \leq t_{init} \\ \frac{t - t_{init}}{t_{final} - t_{init}} & t_{init} < t < t_{final} \\ 1 & t \geq t_{final} \end{cases} \quad (6.14.22)$$

$$t_{init} = t_{final} - t_{change} \quad (6.14.23)$$

where

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

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

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

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

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

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

Calculating the smoothed permeabilities from Equations 6.14.20-23 gives

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

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

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

6.14.4.9 ES40 and ES45

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

7.0 CONCLUSION

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

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

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A. APPENDICES

A.1 Test Case 1 Files

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

BF2_QB0600_ES40_TEST1_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST1.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_Test1.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_Test1.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_Test1.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_Test1.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_Test1.ROT  
$ set noverify  
  
image name: "BRAGFLO_QB0600"  
image file identification: "P QB0600 6.0"  
image file build identification: ""  
link date/time: 12-FEB-2007 14:57:24.36  
linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST1_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST1.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_Test1.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_Test1.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_Test1.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_Test1.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_Test1.ROT  
$ set noverify  
  
image name: "BRAGFLO_QB0600"  
image file identification: "P QB0600 6.0"  
image file build identification: ""  
link date/time: 12-FEB-2007 14:57:24.36  
linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST1_RUN.LOG

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

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

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

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

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

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

```
0.7056402E+01 0.9173322E+01 0.1192532E+02 0.1550291E+02 0.2015379E+02
0.2619992E+02 0.3405989E+02 0.4427786E+02 0.5756122E+02 0.7482958E+02
0.9727845E+02 0.1264620E+03 0.1644006E+03 0.2137207E+03 0.2778369E+03
0.3611880E+03 0.4695444E+03 0.6104077E+03 0.7935300E+03 0.1031589E+04
0.1341066E+04 0.1743385E+04 0.2266401E+04 0.2946321E+04 0.3830217E+04
GRID DATA CARDS: GRID BLOCK DY'S
1.0
GRID DATA CARDS: GRID BLOCK DZ'S
0.3141593E-01 0.1036726E+00 0.1976062E+00 0.3197199E+00 0.4784677E+00
0.6848398E+00 0.9531236E+00 0.1301892E+01 0.1755292E+01 0.2344711E+01
0.31110957E+01 0.4107075E+01 0.5402029E+01 0.7085469E+01 0.9273942E+01
0.1211896E+02 0.1581747E+02 0.2062555E+02 0.2687604E+02 0.3500168E+02
0.4556502E+02 0.5929735E+02 0.7714938E+02 0.1003570E+03 0.1305270E+03
0.1697479E+03 0.2207350E+03 0.2870184E+03 0.3731867E+03 0.4852056E+03
0.6308300E+03 0.8201418E+03 0.1066247E+04 0.1386184E+04 0.1802102E+04
0.2342795E+04 0.3045697E+04 0.3959469E+04 0.5147372E+04 0.6691646E+04
0.8699202E+04 0.1130903E+05 0.1470179E+05 0.1911240E+05 0.2484618E+05
0.3230009E+05 0.4199018E+05 0.5458730E+05 0.7096354E+05 0.9225267E+05
DEPTH
10.
WELL DATA
2
0.0 1
1 1 1 1
INJQ
0.0 -12.33 1.0 1.E5
5000. 0
DIRICHLET CONDITIONS
F 0
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
50*1.E7
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
50*0.99999999
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
50*0.0
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
50*0.0
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
50*0.0
DSATLIM, DPRESLIM, SATLIMIT
1.0000E-01 -1.0000E+07 1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
6.0000E-01 1.0000E+06
DDEPMAX(1) DDEPMAX(2)
1.000 1.0E7
CONVERGENCE TEST FLAG: 0=OR, 1=AND
1
EPS_SAT, EPS_PRES: NORMAL CONVERGENCE CRITERIA
7.0000E+00 1.0000E-07
EPS_SAT, EPS_PRES: LOOSE CONVERGENCE CRITERIA
7.0000E+00 1.0000E-07
FTOL SAT FTOL PRESS: NORMAL CONVERGENCE CRITERIA
1.0000E-06 1.00000E-6
FTOL SAT FTOL PRESS: LOOSE CONVERGENCE CRITERIA
1.0000E-06 1.00000E-6
EPGAS1 EPGAS2 EPGAS3 EPGAS4: GAS MODEL CONVERGENCE CRITERIA
1.0000E-05 1.0000E-05 1.0000E-05 1.0000E-05
LINEAR EQUATION SOLVER TYPE
LU
ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWTCH
40 40 1 F 1.0000E+07 F
IUPRPFLAG, IUPMFFLAG, DT_REDU, ITRAVE, IMFAVE
40 40 5.0000E-01 1 0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
40 40 40 40 40
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
1.0000E-08 1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
1.0000E-09 1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
1
START TIME FOR MAP 1
0.0
MATERIAL TYPE GRID MAP
50*1
# NAME
```

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

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

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

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

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

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

```
227 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
228 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
229 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
230 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
231 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
232 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
233 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
234 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
235 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
236 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
237 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
238 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
239 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
240 89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
241 90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
242 91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
243 92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
244 93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
245 94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
246 95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
247 96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
248 97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
249 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
250 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
251 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
252 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
253 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
254 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
255 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
256 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
257 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
258 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
259 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
260 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
261 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
262 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
263 112 0 0 H2OFLOWIN Water inflow rate kg/s
264 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
265 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
266 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
267 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
268 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
269 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
270 119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
271 120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
272 121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
273 122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
274 123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
275 124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
277
```



```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
194 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
195 44 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
196 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
197 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
198 47 0 0 CONCFE Fe concentration -- simple model kg/m^3
199 48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
200 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
201 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
202 51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
203 52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
204 53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
205 54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
206 55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
207 56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
208 57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
209 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
210 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
```



```
211 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
212 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
213 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
214 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
215 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
216 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
217 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
218 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
219 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
220 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
221 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
222 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
223 72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
224 73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
225 74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
226 75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
227 76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
228 77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
229 78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
230 79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
231 80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
232 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
233 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
234 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
235 84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
236 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
237 86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
238 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
239 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
240 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
241 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
242 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
243 92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
244 93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
245 94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
246 95 0 0 H2OFLOWIN Water inflow rate kg/s
247 96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
248 97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
249 98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
250 99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
251 100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
252 101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
253 102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
254 103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
255 104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
256 105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
257 106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
258 107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
260
```



```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 467 instead of Input IC's for the Cavities
 468 {0=No, 1=Yes} (ICWASTE) = 0
 470 Uniform Cavity Region
 471 Uniform Cavity Region
 473 -----
```

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 450 instead of Input IC's for the Waste
 451 {0=No, 1=Yes} (ICWASTE) = 0
 453 Uniform Waste Region
 454 Uniform Waste Region
 456 -----
```

```
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 502 TOL = 1.0000E-02
 503 SOCEFFMIN = 1.0000E-03
 505 Fracture model will be used? (KRACTURE): F
*****
```

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
486 Fracture model will be used? (KRACTURE): F

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1

604 Intrinsic reaction rate constants? (LINTRIN): F

606 Reaction rate constants (RK):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1

585 Reaction rate constants (RK):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1

614 MgO hydration reaction rate constants:

615 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)

616 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)

619 Saturation cutoff value (SOCMIN): 0.000000E+00

620 Stoichiometric coeff's for Rxn 1:

621 H2 coefficient = 0.000000E+00

622 H2O coefficient = 0.000000E+00

623 Fe coefficient = 0.000000E+00

624 Bio coefficient = 0.000000E+00

625 Fe(OH)2 coefficient = 0.000000E+00

626 FeS coefficient = 0.000000E+00

627 MgO coefficient = 0.000000E+00

628 Mg(OH)2 coefficient = 0.000000E+00

629 MgCO3 coefficient = 0.000000E+00

631 Stoichiometric coeff's for Rxn 2:

632 H2 coefficient = 0.000000E+00

633 H2O coefficient = 0.000000E+00

634 Fe coefficient = 0.000000E+00

635 Bio coefficient = 0.000000E+00

636 Fe(OH)2 coefficient = 0.000000E+00

637 FeS coefficient = 0.000000E+00

638 MgO coefficient = 0.000000E+00

639 Mg(OH)2 coefficient = 0.000000E+00

640 MgCO3 coefficient = 0.000000E+00

642 Stoichiometric coeff's for Rxn 3:

643 H2 coefficient = 0.000000E+00

644 H2O coefficient = 0.000000E+00

645 Fe coefficient = 0.000000E+00

646 Bio coefficient = 0.000000E+00

647 Fe(OH)2 coefficient = 0.000000E+00

648 FeS coefficient = 0.000000E+00

649 MgO coefficient = 0.000000E+00

650 Mg(OH)2 coefficient = 0.000000E+00

651 MgCO3 coefficient = 0.000000E+00

653 Stoichiometric coeff's for Rxn 4:

654 H2 coefficient = 0.000000E+00

655 H2O coefficient = 0.000000E+00

656 Fe coefficient = 0.000000E+00

657 Bio coefficient = 0.000000E+00

658 Fe(OH)2 coefficient = 0.000000E+00

659 FeS coefficient = 0.000000E+00

660 MgO coefficient = 0.000000E+00

661 Mg(OH)2 coefficient = 0.000000E+00

662 MgCO3 coefficient = 0.000000E+00

664 Stoichiometric coeff's for Rxn 5:

665 H2 coefficient = 0.000000E+00

666 H2O coefficient = 0.000000E+00

667 Fe coefficient = 0.000000E+00

668 Bio coefficient = 0.000000E+00

669 Fe(OH)2 coefficient = 0.000000E+00

670 FeS coefficient = 0.000000E+00

671 MgO coefficient = 0.000000E+00

672 Mg(OH)2 coefficient = 0.000000E+00

673 MgCO3 coefficient = 0.000000E+00

675 Stoichiometric coeff's for Rxn 6:

676 H2 coefficient = 0.000000E+00

677 H2O coefficient = 0.000000E+00

678 Fe coefficient = 0.000000E+00

```
679 Bio coefficient = 0.000000E+00
680 Fe(OH)2 coefficient = 0.000000E+00
681 FeS coefficient = 0.000000E+00
682 MgO coefficient = 0.000000E+00
683 Mg(OH)2 coefficient = 0.000000E+00
684 MgCO3 coefficient = 0.000000E+00
686 Stoichiometric coeff's for Rxn 7:
687 H2 coefficient = 0.000000E+00
688 H2O coefficient = 0.000000E+00
689 Fe coefficient = 0.000000E+00
690 Bio coefficient = 0.000000E+00
691 Fe(OH)2 coefficient = 0.000000E+00
692 FeS coefficient = 0.000000E+00
693 MgO coefficient = 0.000000E+00
694 Mg(OH)2 coefficient = 0.000000E+00
695 MgCO3 coefficient = 0.000000E+00
697 Wicking term (SATWICK) = 0.000000E+00
698 Humid rates to be smoothed? (LARKN) = F
699 Concentration rates to be smoothed? (LARKN2) = F
700 Humid rate smoothing factor (ALPHARKN) = 5.000000E+01
702 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
593 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
594 Gas coefficient = 1.000000E+00
595 H2O coefficient = 0.000000E+00
596 Fe coefficient = 1.000000E+00
598 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
599 Gas coefficient = 1.000000E+00
600 H2O coefficient = 0.000000E+00
601 Bio coefficient = 1.000000E+00
603 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
706 Bio: 2.7023E-02 kg/mol
708 Molecular weights (WM):
709 Fe(OH)2: 8.9862E-02 kg/mol
710 FeS: 8.7900E-02 kg/mol
711 MgO: 4.0304E-02 kg/mol
712 Mg(OH)2: 5.8320E-02 kg/mol
713 MgCO3: 8.4314E-02 kg/mol
715 Densities (DEN(1-4)):
716 Fe: 7.8700E+03 kg/m3
717 Fe(OH)2: 3.4000E+03 kg/m3
718 FeS: 4.7000E+03 kg/m3
719 Bio: 1.1000E+03 kg/m3
721 Densities (DEN(5-8)):
722 MgO: 3.6000E+03 kg/m3
723 Mg(OH)2: 2.3700E+03 kg/m3
724 MgCO3: 3.0500E+03 kg/m3
725 SALT: 2.1700E+03 kg/m3
727 Will creep closure be used (CLOSURE): F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
607 Bio: 3.0026E-02 kg/mol
609 Wicking term (SATWICK) = 0.000000E+00
610 Humid rates to be smoothed? (LARKN) = F
611 Humid rate smoothing factor (ALPHARKN) = 5.000000E+01
613 Will creep closure be used (CLOSURE): F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
886 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
888 Time Step No. = 0 Elapsed Time = 0.000000E+00 days
889 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
892 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
772 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) ASCII
774 Time Step No. = 0 Elapsed Time = 0.000000E+00 days
775 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) Binary
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778 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
900 CPU Time (this time step) = 0.06 sec = 0.00002 hr
901 CPU Time (total for run) = 0.06 sec = 0.00002 hr
902 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
786 CPU Time (this time step) = 0.02 sec = 0.00001 hr
787 CPU Time (total for run) = 0.02 sec = 0.00001 hr
788 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
960 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
962 Time Step No. = 1 Elapsed Time = 1.157407E-04 days
963 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
966 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
846 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
848 Time Step No. = 1 Elapsed Time = 1.157407E-04 days
849 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
852 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
975 CPU Time (total for run) = 0.06 sec = 0.00002 hr
976 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
861 CPU Time (total for run) = 0.02 sec = 0.00001 hr
862 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1034 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
1036 Time Step No. = 2 Elapsed Time = 2.314803E-04 days
1037 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
1040 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
920 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
922 Time Step No. = 2 Elapsed Time = 2.314803E-04 days
923 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
926 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1049 CPU Time (total for run) = 0.06 sec = 0.00002 hr
1050 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
935 CPU Time (total for run) = 0.02 sec = 0.00001 hr
936 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1108 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
1110 Time Step No. = 3 Elapsed Time = 3.819418E-04 days
1111 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
1114 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
994 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
996 Time Step No. = 3 Elapsed Time = 3.819418E-04 days
997 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
1000 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1123 CPU Time (total for run) = 0.07 sec = 0.00002 hr
1124 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
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1009 CPU Time (total for run) = 0.03 sec = 0.00001 hr
1010 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1182 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
1184 Time Step No. = 4 Elapsed Time = 5.775417E-04 days
1185 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
1188 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1068 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
1070 Time Step No. = 4 Elapsed Time = 5.775417E-04 days
1071 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
1074 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1197 CPU Time (total for run) = 0.07 sec = 0.00002 hr
1198 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1083 CPU Time (total for run) = 0.03 sec = 0.00001 hr
1084 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1256 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
1258 Time Step No. = 5 Elapsed Time = 8.318215E-04 days
1259 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
1262 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1142 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
1144 Time Step No. = 5 Elapsed Time = 8.318215E-04 days
1145 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
1148 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1271 CPU Time (total for run) = 0.07 sec = 0.00002 hr
1272 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1157 CPU Time (total for run) = 0.03 sec = 0.00001 hr
1158 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1330 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
1332 Time Step No. = 6 Elapsed Time = 1.162385E-03 days
1333 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
1336 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1216 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
1218 Time Step No. = 6 Elapsed Time = 1.162385E-03 days
1219 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
1222 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1345 CPU Time (total for run) = 0.08 sec = 0.00002 hr
1346 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1231 CPU Time (total for run) = 0.04 sec = 0.00001 hr
1232 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1404 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
1406 Time Step No. = 7 Elapsed Time = 1.592118E-03 days
1407 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
1410 *****
*****
```

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1290 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
1292 Time Step No. = 7 Elapsed Time = 1.592118E-03 days
1293 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
1296 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1419 CPU Time (total for run) = 0.08 sec = 0.00002 hr
1420 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1305 CPU Time (total for run) = 0.04 sec = 0.00001 hr
1306 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1478 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
1480 Time Step No. = 8 Elapsed Time = 2.150771E-03 days
1481 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
1484 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1364 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
1366 Time Step No. = 8 Elapsed Time = 2.150771E-03 days
1367 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
1370 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1493 CPU Time (total for run) = 0.08 sec = 0.00002 hr
1494 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1379 CPU Time (total for run) = 0.04 sec = 0.00001 hr
1380 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1552 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
1554 Time Step No. = 9 Elapsed Time = 2.877020E-03 days
1555 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
1558 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1438 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
1440 Time Step No. = 9 Elapsed Time = 2.877020E-03 days
1441 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
1444 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1566 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1567 CPU Time (total for run) = 0.09 sec = 0.00003 hr
1568 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1452 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1453 CPU Time (total for run) = 0.04 sec = 0.00001 hr
1454 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1626 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
1628 Time Step No. = 10 Elapsed Time = 3.821143E-03 days
1629 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
1632 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1512 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
1514 Time Step No. = 10 Elapsed Time = 3.821143E-03 days
1515 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
1518 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
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1640 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1641 CPU Time (total for run) = 0.09 sec = 0.00003 hr
1642 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1526 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1527 CPU Time (total for run) = 0.05 sec = 0.00001 hr
1528 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1700 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
1702 Time Step No. = 11 Elapsed Time = 5.048504E-03 days
1703 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
1706 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1586 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
1588 Time Step No. = 11 Elapsed Time = 5.048504E-03 days
1589 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
1592 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1715 CPU Time (total for run) = 0.09 sec = 0.00003 hr
1716 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1601 CPU Time (total for run) = 0.05 sec = 0.00001 hr
1602 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1774 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
1776 Time Step No. = 12 Elapsed Time = 6.644072E-03 days
1777 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
1780 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1660 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
1662 Time Step No. = 12 Elapsed Time = 6.644072E-03 days
1663 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
1666 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1789 CPU Time (total for run) = 0.09 sec = 0.00003 hr
1790 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1675 CPU Time (total for run) = 0.05 sec = 0.00001 hr
1676 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1848 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
1850 Time Step No. = 13 Elapsed Time = 8.718311E-03 days
1851 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
1854 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1734 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
1736 Time Step No. = 13 Elapsed Time = 8.718311E-03 days
1737 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
1740 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1863 CPU Time (total for run) = 0.10 sec = 0.00003 hr
1864 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1749 CPU Time (total for run) = 0.06 sec = 0.00002 hr
1750 *****
*****
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1922 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
1924 Time Step No. = 14 Elapsed Time = 1.141482E-02 days
1925 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
1928 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1808 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
1810 Time Step No. = 14 Elapsed Time = 1.141482E-02 days
1811 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
1814 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1937 CPU Time (total for run) = 0.10 sec = 0.00003 hr
1938 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1823 CPU Time (total for run) = 0.06 sec = 0.00002 hr
1824 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1996 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
1998 Time Step No. = 15 Elapsed Time = 1.492029E-02 days
1999 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
2002 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1882 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
1884 Time Step No. = 15 Elapsed Time = 1.492029E-02 days
1885 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
1888 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2011 CPU Time (total for run) = 0.10 sec = 0.00003 hr
2012 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1897 CPU Time (total for run) = 0.06 sec = 0.00002 hr
1898 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2070 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
2072 Time Step No. = 16 Elapsed Time = 1.947739E-02 days
2073 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
2076 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1956 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
1958 Time Step No. = 16 Elapsed Time = 1.947739E-02 days
1959 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
1962 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2084 CPU Time (this time step) = 0.01 sec = 0.00000 hr
2085 CPU Time (total for run) = 0.11 sec = 0.00003 hr
2086 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
1970 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1971 CPU Time (total for run) = 0.06 sec = 0.00002 hr
1972 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2144 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
2146 Time Step No. = 17 Elapsed Time = 2.540162E-02 days
2147 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
2150 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
2030 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
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2032 Time Step No. = 17 Elapsed Time = 2.540162E-02 days
2033 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
2036 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2159 CPU Time (total for run) = 0.11 sec = 0.00003 hr
2160 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
2045 CPU Time (total for run) = 0.06 sec = 0.00002 hr
2046 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2218 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
2220 Time Step No. = 18 Elapsed Time = 3.310313E-02 days
2221 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
2224 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
2104 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
2106 Time Step No. = 18 Elapsed Time = 3.310313E-02 days
2107 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
2110 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2233 CPU Time (total for run) = 0.11 sec = 0.00003 hr
2234 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
2119 CPU Time (total for run) = 0.06 sec = 0.00002 hr
2120 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2292 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
2294 Time Step No. = 19 Elapsed Time = 4.311508E-02 days
2295 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
2298 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
2178 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
2180 Time Step No. = 19 Elapsed Time = 4.311508E-02 days
2181 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
2184 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2307 CPU Time (total for run) = 0.12 sec = 0.00003 hr
2308 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
2193 CPU Time (total for run) = 0.07 sec = 0.00002 hr
2194 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2366 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
2368 Time Step No. = 20 Elapsed Time = 5.613062E-02 days
2369 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
2372 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
2252 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
2254 Time Step No. = 20 Elapsed Time = 5.613062E-02 days
2255 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
2258 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2381 CPU Time (total for run) = 0.12 sec = 0.00003 hr
2382 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
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2267 CPU Time (total for run) = 0.07 sec = 0.00002 hr
2268 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2440 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
2442 Time Step No. = 21 Elapsed Time = 5.787037E-02 days
2443 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
2446 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
2326 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
2328 Time Step No. = 21 Elapsed Time = 5.787037E-02 days
2329 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
2332 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2455 CPU Time (total for run) = 0.12 sec = 0.00003 hr
2456 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
2341 CPU Time (total for run) = 0.07 sec = 0.00002 hr
2342 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2514 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
2516 Time Step No. = 22 Elapsed Time = 5.798611E-02 days
2517 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
2520 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
2400 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
2402 Time Step No. = 22 Elapsed Time = 5.798611E-02 days
2403 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
2406 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2528 CPU Time (this time step) = 0.00 sec = 0.00000 hr
2529 CPU Time (total for run) = 0.12 sec = 0.00003 hr
2530 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
2414 CPU Time (this time step) = 0.01 sec = 0.00000 hr
2415 CPU Time (total for run) = 0.08 sec = 0.00002 hr
2416 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2588 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
2590 Time Step No. = 23 Elapsed Time = 5.810185E-02 days
2591 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
2594 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
2474 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
2476 Time Step No. = 23 Elapsed Time = 5.810185E-02 days
2477 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
2480 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2602 CPU Time (this time step) = 0.01 sec = 0.00000 hr
2603 CPU Time (total for run) = 0.13 sec = 0.00004 hr
2604 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
2488 CPU Time (this time step) = 0.00 sec = 0.00000 hr
2489 CPU Time (total for run) = 0.08 sec = 0.00002 hr
2490 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2662 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
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2664 Time Step No. = 24 Elapsed Time = 5.825231E-02 days
2665 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
2668 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
2548 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
2550 Time Step No. = 24 Elapsed Time = 5.825231E-02 days
2551 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
2554 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2677 CPU Time (total for run) = 0.13 sec = 0.00004 hr
2678 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
2563 CPU Time (total for run) = 0.08 sec = 0.00002 hr
2564 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2736 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
2738 Time Step No. = 25 Elapsed Time = 5.844791E-02 days
2739 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
2742 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
2622 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
2624 Time Step No. = 25 Elapsed Time = 5.844791E-02 days
2625 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
2628 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2751 CPU Time (total for run) = 0.13 sec = 0.00004 hr
2752 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
2637 CPU Time (total for run) = 0.08 sec = 0.00002 hr
2638 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2810 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
2812 Time Step No. = 26 Elapsed Time = 5.870219E-02 days
2813 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
2816 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
2696 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
2698 Time Step No. = 26 Elapsed Time = 5.870219E-02 days
2699 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
2702 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2825 CPU Time (total for run) = 0.14 sec = 0.00004 hr
2826 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
2711 CPU Time (total for run) = 0.09 sec = 0.00003 hr
2712 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2884 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
2886 Time Step No. = 27 Elapsed Time = 5.903276E-02 days
2887 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
2890 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
2770 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
2772 Time Step No. = 27 Elapsed Time = 5.903276E-02 days
2773 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
2776 *****
*****
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*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2899   CPU Time (total for run) = 0.14 sec = 0.00004 hr
 2900   *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2785   CPU Time (total for run) = 0.09 sec = 0.00003 hr
 2786   *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2958   Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
 2960   Time Step No. = 28 Elapsed Time = 5.946249E-02 days
 2961   Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 2964   *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2844   Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 2846   Time Step No. = 28 Elapsed Time = 5.946249E-02 days
 2847   Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 2850   *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2973   CPU Time (total for run) = 0.14 sec = 0.00004 hr
 2974   *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2859   CPU Time (total for run) = 0.09 sec = 0.00003 hr
 2860   *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3032   Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
 3034   Time Step No. = 29 Elapsed Time = 6.002114E-02 days
 3035   Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 3038   *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2918   Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 2920   Time Step No. = 29 Elapsed Time = 6.002114E-02 days
 2921   Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 2924   *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3047   CPU Time (total for run) = 0.14 sec = 0.00004 hr
 3048   *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2933   CPU Time (total for run) = 0.09 sec = 0.00003 hr
 2934   *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3106   Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
 3108   Time Step No. = 30 Elapsed Time = 6.074739E-02 days
 3109   Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 3112   *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2992   Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 2994   Time Step No. = 30 Elapsed Time = 6.074739E-02 days
 2995   Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 2998   *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3121   CPU Time (total for run) = 0.15 sec = 0.00004 hr
 3122   *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3007   CPU Time (total for run) = 0.10 sec = 0.00003 hr
 3008   *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3180 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
3182 Time Step No. = 31 Elapsed Time = 6.169151E-02 days
3183 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
3186 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3066 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
3068 Time Step No. = 31 Elapsed Time = 6.169151E-02 days
3069 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
3072 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3195 CPU Time (total for run) = 0.15 sec = 0.00004 hr
3196 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3081 CPU Time (total for run) = 0.10 sec = 0.00003 hr
3082 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3254 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
3256 Time Step No. = 32 Elapsed Time = 6.291887E-02 days
3257 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
3260 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3140 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
3142 Time Step No. = 32 Elapsed Time = 6.291887E-02 days
3143 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
3146 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3269 CPU Time (total for run) = 0.15 sec = 0.00004 hr
3270 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3155 CPU Time (total for run) = 0.10 sec = 0.00003 hr
3156 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3328 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
3330 Time Step No. = 33 Elapsed Time = 6.451444E-02 days
3331 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
3334 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3214 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
3216 Time Step No. = 33 Elapsed Time = 6.451444E-02 days
3217 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
3220 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3343 CPU Time (total for run) = 0.16 sec = 0.00004 hr
3344 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3229 CPU Time (total for run) = 0.11 sec = 0.00003 hr
3230 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3402 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
3404 Time Step No. = 34 Elapsed Time = 6.658868E-02 days
3405 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
3408 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3288 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
3290 Time Step No. = 34 Elapsed Time = 6.658868E-02 days
3291 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
```

```
3294 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3417 CPU Time (total for run) = 0.16 sec = 0.00004 hr
3418 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3303 CPU Time (total for run) = 0.11 sec = 0.00003 hr
3304 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3476 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
3478 Time Step No. = 35 Elapsed Time = 6.928519E-02 days
3479 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
3482 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3362 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
3364 Time Step No. = 35 Elapsed Time = 6.928519E-02 days
3365 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
3368 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3491 CPU Time (total for run) = 0.16 sec = 0.00004 hr
3492 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3377 CPU Time (total for run) = 0.11 sec = 0.00003 hr
3378 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3550 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
3552 Time Step No. = 36 Elapsed Time = 7.279066E-02 days
3553 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
3556 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3436 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
3438 Time Step No. = 36 Elapsed Time = 7.279066E-02 days
3439 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
3442 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3564 CPU Time (this time step) = 0.00 sec = 0.00000 hr
3565 CPU Time (total for run) = 0.16 sec = 0.00004 hr
3566 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3450 CPU Time (this time step) = 0.01 sec = 0.00000 hr
3451 CPU Time (total for run) = 0.12 sec = 0.00003 hr
3452 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3624 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
3626 Time Step No. = 37 Elapsed Time = 7.734776E-02 days
3627 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
3630 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3510 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
3512 Time Step No. = 37 Elapsed Time = 7.734776E-02 days
3513 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
3516 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3639 CPU Time (total for run) = 0.16 sec = 0.00004 hr
3640 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
```

```
3525 CPU Time (total for run) = 0.12 sec = 0.00003 hr
3526 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3698 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
3700 Time Step No. = 38 Elapsed Time = 8.327199E-02 days
3701 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
3704 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3584 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
3586 Time Step No. = 38 Elapsed Time = 8.327199E-02 days
3587 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
3590 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3713 CPU Time (total for run) = 0.16 sec = 0.00004 hr
3714 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3599 CPU Time (total for run) = 0.12 sec = 0.00003 hr
3600 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3772 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
3774 Time Step No. = 39 Elapsed Time = 9.097350E-02 days
3775 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
3778 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3658 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
3660 Time Step No. = 39 Elapsed Time = 9.097350E-02 days
3661 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
3664 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3786 CPU Time (this time step) = 0.00 sec = 0.00000 hr
3787 CPU Time (total for run) = 0.16 sec = 0.00004 hr
3788 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3672 CPU Time (this time step) = 0.01 sec = 0.00000 hr
3673 CPU Time (total for run) = 0.13 sec = 0.00004 hr
3674 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3846 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) ASCII
3848 Time Step No. = 40 Elapsed Time = 1.009855E-01 days
3849 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
3852 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3732 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
3734 Time Step No. = 40 Elapsed Time = 1.009855E-01 days
3735 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
3738 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3860 CPU Time (this time step) = 0.01 sec = 0.00000 hr
3861 CPU Time (total for run) = 0.17 sec = 0.00005 hr
3862 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3746 CPU Time (this time step) = 0.00 sec = 0.00000 hr
3747 CPU Time (total for run) = 0.13 sec = 0.00004 hr
3748 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3920 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) ASCII
```

```
3922 Time Step No. = 41 Elapsed Time = 1.140010E-01 days
3923 Date: 02/13/07 Time: 11:10:50 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
3926 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3806 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
3808 Time Step No. = 41 Elapsed Time = 1.140010E-01 days
3809 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
3812 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3935 CPU Time (total for run) = 0.17 sec = 0.00005 hr
3936 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3821 CPU Time (total for run) = 0.13 sec = 0.00004 hr
3822 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3994 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) ASCII
3996 Time Step No. = 42 Elapsed Time = 1.157407E-01 days
3997 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
4002 *****
4003 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
4004 * Completed: 02/13/07 at 14:11:29 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
4005 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
3880 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
3882 Time Step No. = 42 Elapsed Time = 1.157407E-01 days
3883 Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
3888 *****
3889 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3890 * Completed: 04/06/06 at 11:10:50 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
3891 *****
*****
Number of difference sections found: 98
Number of difference records found: 375
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
```

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

BF2_QB0600_ES40_TEST1_OUT.DIF

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



```
75 PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_CLOSURE.DAT;1
76 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
75 PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_CLOSURE.DAT;1
76 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
80 PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
81 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
80 PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
81 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
85 PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.SUM;1
86 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
85 PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.SUM;1
86 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
90 PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.BIN;1
91 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
90 PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.BIN;1
91 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
886 Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
888 Time Step No. = 0 Elapsed Time = 0.000000E+00 days
889 Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
892 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
886 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
888 Time Step No. = 0 Elapsed Time = 0.000000E+00 days
889 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
892 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
960 Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
962 Time Step No. = 1 Elapsed Time = 1.157407E-04 days
963 Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
966 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
960 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
962 Time Step No. = 1 Elapsed Time = 1.157407E-04 days
963 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
966 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1034 Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
1036 Time Step No. = 2 Elapsed Time = 2.314803E-04 days
1037 Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
1040 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1034 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
1036 Time Step No. = 2 Elapsed Time = 2.314803E-04 days
1037 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
1040 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1048 CPU Time (this time step) = 0.01 sec = 0.00000 hr
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1049 CPU Time (total for run) = 0.07 sec = 0.00002 hr
1050 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1048 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1049 CPU Time (total for run) = 0.06 sec = 0.00002 hr
1050 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1108 Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
1110 Time Step No. = 3 Elapsed Time = 3.819418E-04 days
1111 Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
1114 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1108 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
1110 Time Step No. = 3 Elapsed Time = 3.819418E-04 days
1111 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
1114 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1122 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1123 CPU Time (total for run) = 0.07 sec = 0.00002 hr
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1122 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1123 CPU Time (total for run) = 0.07 sec = 0.00002 hr
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1182 Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
1184 Time Step No. = 4 Elapsed Time = 5.775417E-04 days
1185 Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
1188 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1182 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
1184 Time Step No. = 4 Elapsed Time = 5.775417E-04 days
1185 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
1188 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1256 Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
1258 Time Step No. = 5 Elapsed Time = 8.318215E-04 days
1259 Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
1262 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1256 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
1258 Time Step No. = 5 Elapsed Time = 8.318215E-04 days
1259 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
1262 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1270 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1271 CPU Time (total for run) = 0.08 sec = 0.00002 hr
1272 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1270 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1271 CPU Time (total for run) = 0.07 sec = 0.00002 hr
1272 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1330 Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
1332 Time Step No. = 6 Elapsed Time = 1.162385E-03 days
1333 Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
1336 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1330 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
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1332 Time Step No. = 6 Elapsed Time = 1.162385E-03 days
1333 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
1336 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1344 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1345 CPU Time (total for run) = 0.08 sec = 0.00002 hr
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1344 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1345 CPU Time (total for run) = 0.08 sec = 0.00002 hr
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1404 Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
1406 Time Step No. = 7 Elapsed Time = 1.592118E-03 days
1407 Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
1410 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1404 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
1406 Time Step No. = 7 Elapsed Time = 1.592118E-03 days
1407 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
1410 *****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1418 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1419 CPU Time (total for run) = 0.09 sec = 0.00003 hr
1420 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1418 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1419 CPU Time (total for run) = 0.08 sec = 0.00002 hr
1420 *****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1478 Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
1480 Time Step No. = 8 Elapsed Time = 2.150771E-03 days
1481 Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
1484 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1478 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
1480 Time Step No. = 8 Elapsed Time = 2.150771E-03 days
1481 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
1484 *****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1493 CPU Time (total for run) = 0.09 sec = 0.00003 hr
1494 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1493 CPU Time (total for run) = 0.08 sec = 0.00002 hr
1494 *****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1552 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
1554 Time Step No. = 9 Elapsed Time = 2.877020E-03 days
1555 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
1558 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1552 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
1554 Time Step No. = 9 Elapsed Time = 2.877020E-03 days
1555 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
1558 *****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1566 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1567 CPU Time (total for run) = 0.09 sec = 0.00003 hr
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1566 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1567 CPU Time (total for run) = 0.09 sec = 0.00003 hr
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1626 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
1628 Time Step No. = 10 Elapsed Time = 3.821143E-03 days
1629 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
1632 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1626 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
1628 Time Step No. = 10 Elapsed Time = 3.821143E-03 days
1629 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
1632 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1640 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1641 CPU Time (total for run) = 0.10 sec = 0.00003 hr
1642 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1640 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1641 CPU Time (total for run) = 0.09 sec = 0.00003 hr
1642 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1700 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
1702 Time Step No. = 11 Elapsed Time = 5.048504E-03 days
1703 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
1706 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1700 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
1702 Time Step No. = 11 Elapsed Time = 5.048504E-03 days
1703 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
1706 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1715 CPU Time (total for run) = 0.10 sec = 0.00003 hr
1716 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1715 CPU Time (total for run) = 0.09 sec = 0.00003 hr
1716 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1774 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
1776 Time Step No. = 12 Elapsed Time = 6.644072E-03 days
1777 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
1780 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1774 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
1776 Time Step No. = 12 Elapsed Time = 6.644072E-03 days
1777 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
1780 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1788 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1789 CPU Time (total for run) = 0.11 sec = 0.00003 hr
1790 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1788 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1789 CPU Time (total for run) = 0.09 sec = 0.00003 hr
1790 *****
*****
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1848 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
1850 Time Step No. = 13 Elapsed Time = 8.718311E-03 days
1851 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
1854 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1848 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
1850 Time Step No. = 13 Elapsed Time = 8.718311E-03 days
1851 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
1854 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1862 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1863 CPU Time (total for run) = 0.11 sec = 0.00003 hr
1864 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1862 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1863 CPU Time (total for run) = 0.10 sec = 0.00003 hr
1864 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1922 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
1924 Time Step No. = 14 Elapsed Time = 1.141482E-02 days
1925 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
1928 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1922 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
1924 Time Step No. = 14 Elapsed Time = 1.141482E-02 days
1925 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
1928 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1936 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1937 CPU Time (total for run) = 0.12 sec = 0.00003 hr
1938 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1936 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1937 CPU Time (total for run) = 0.10 sec = 0.00003 hr
1938 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
1996 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
1998 Time Step No. = 15 Elapsed Time = 1.492029E-02 days
1999 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
2002 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1996 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
1998 Time Step No. = 15 Elapsed Time = 1.492029E-02 days
1999 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
2002 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2011 CPU Time (total for run) = 0.12 sec = 0.00003 hr
2012 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2011 CPU Time (total for run) = 0.10 sec = 0.00003 hr
2012 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2070 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
2072 Time Step No. = 16 Elapsed Time = 1.947739E-02 days
2073 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
2076 *****
*****
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2070 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
2072 Time Step No. = 16 Elapsed Time = 1.947739E-02 days
2073 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
2076 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2084 CPU Time (this time step) = 0.00 sec = 0.00000 hr
2085 CPU Time (total for run) = 0.12 sec = 0.00003 hr
2086 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2084 CPU Time (this time step) = 0.01 sec = 0.00000 hr
2085 CPU Time (total for run) = 0.11 sec = 0.00003 hr
2086 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2144 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
2146 Time Step No. = 17 Elapsed Time = 2.540162E-02 days
2147 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
2150 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2144 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
2146 Time Step No. = 17 Elapsed Time = 2.540162E-02 days
2147 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
2150 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2158 CPU Time (this time step) = 0.01 sec = 0.00000 hr
2159 CPU Time (total for run) = 0.13 sec = 0.00004 hr
2160 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2158 CPU Time (this time step) = 0.00 sec = 0.00000 hr
2159 CPU Time (total for run) = 0.11 sec = 0.00003 hr
2160 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2218 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
2220 Time Step No. = 18 Elapsed Time = 3.310313E-02 days
2221 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
2224 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2218 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
2220 Time Step No. = 18 Elapsed Time = 3.310313E-02 days
2221 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
2224 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2233 CPU Time (total for run) = 0.13 sec = 0.00004 hr
2234 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2233 CPU Time (total for run) = 0.11 sec = 0.00003 hr
2234 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2292 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
2294 Time Step No. = 19 Elapsed Time = 4.311508E-02 days
2295 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
2298 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2292 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
2294 Time Step No. = 19 Elapsed Time = 4.311508E-02 days
2295 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
2298 *****
*****
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*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2306 CPU Time (this time step) = 0.00 sec = 0.00000 hr
2307 CPU Time (total for run) = 0.13 sec = 0.00004 hr
2308 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2306 CPU Time (this time step) = 0.01 sec = 0.00000 hr
2307 CPU Time (total for run) = 0.12 sec = 0.00003 hr
2308 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2366 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
2368 Time Step No. = 20 Elapsed Time = 5.613062E-02 days
2369 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
2372 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2366 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
2368 Time Step No. = 20 Elapsed Time = 5.613062E-02 days
2369 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
2372 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2380 CPU Time (this time step) = 0.01 sec = 0.00000 hr
2381 CPU Time (total for run) = 0.14 sec = 0.00004 hr
2382 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2380 CPU Time (this time step) = 0.00 sec = 0.00000 hr
2381 CPU Time (total for run) = 0.12 sec = 0.00003 hr
2382 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2440 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
2442 Time Step No. = 21 Elapsed Time = 5.787037E-02 days
2443 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
2446 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2440 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
2442 Time Step No. = 21 Elapsed Time = 5.787037E-02 days
2443 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
2446 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2454 CPU Time (this time step) = 0.01 sec = 0.00000 hr
2455 CPU Time (total for run) = 0.15 sec = 0.00004 hr
2456 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2454 CPU Time (this time step) = 0.00 sec = 0.00000 hr
2455 CPU Time (total for run) = 0.12 sec = 0.00003 hr
2456 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2514 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
2516 Time Step No. = 22 Elapsed Time = 5.798611E-02 days
2517 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
2520 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2514 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
2516 Time Step No. = 22 Elapsed Time = 5.798611E-02 days
2517 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
2520 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2529 CPU Time (total for run) = 0.15 sec = 0.00004 hr
2530 *****
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*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2529 CPU Time (total for run) = 0.12 sec = 0.00003 hr
 2530 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2588 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
 2590 Time Step No. = 23 Elapsed Time = 5.810185E-02 days
 2591 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 2594 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2588 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 2590 Time Step No. = 23 Elapsed Time = 5.810185E-02 days
 2591 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 2594 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2602 CPU Time (this time step) = 0.00 sec = 0.00000 hr
 2603 CPU Time (total for run) = 0.15 sec = 0.00004 hr
 2604 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2602 CPU Time (this time step) = 0.01 sec = 0.00000 hr
 2603 CPU Time (total for run) = 0.13 sec = 0.00004 hr
 2604 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2662 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 2664 Time Step No. = 24 Elapsed Time = 5.825231E-02 days
 2665 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 2668 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2662 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 2664 Time Step No. = 24 Elapsed Time = 5.825231E-02 days
 2665 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 2668 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2676 CPU Time (this time step) = 0.01 sec = 0.00000 hr
 2677 CPU Time (total for run) = 0.16 sec = 0.00004 hr
 2678 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2676 CPU Time (this time step) = 0.00 sec = 0.00000 hr
 2677 CPU Time (total for run) = 0.13 sec = 0.00004 hr
 2678 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2736 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 2738 Time Step No. = 25 Elapsed Time = 5.844791E-02 days
 2739 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 2742 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2736 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 2738 Time Step No. = 25 Elapsed Time = 5.844791E-02 days
 2739 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 2742 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2751 CPU Time (total for run) = 0.16 sec = 0.00004 hr
 2752 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2751 CPU Time (total for run) = 0.13 sec = 0.00004 hr
 2752 *****
*****
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2810 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) ASCII
2812 Time Step No. = 26 Elapsed Time = 5.870219E-02 days
2813 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
2816 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2810 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
2812 Time Step No. = 26 Elapsed Time = 5.870219E-02 days
2813 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
2816 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2825 CPU Time (total for run) = 0.17 sec = 0.00005 hr
2826 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2825 CPU Time (total for run) = 0.14 sec = 0.00004 hr
2826 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2884 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) ASCII
2886 Time Step No. = 27 Elapsed Time = 5.903276E-02 days
2887 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
2890 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2884 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
2886 Time Step No. = 27 Elapsed Time = 5.903276E-02 days
2887 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
2890 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2899 CPU Time (total for run) = 0.17 sec = 0.00005 hr
2900 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2899 CPU Time (total for run) = 0.14 sec = 0.00004 hr
2900 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2958 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) ASCII
2960 Time Step No. = 28 Elapsed Time = 5.946249E-02 days
2961 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
2964 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2958 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
2960 Time Step No. = 28 Elapsed Time = 5.946249E-02 days
2961 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
2964 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
2973 CPU Time (total for run) = 0.17 sec = 0.00005 hr
2974 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2973 CPU Time (total for run) = 0.14 sec = 0.00004 hr
2974 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
3032 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) ASCII
3034 Time Step No. = 29 Elapsed Time = 6.002114E-02 days
3035 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
3038 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3032 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
3034 Time Step No. = 29 Elapsed Time = 6.002114E-02 days
3035 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
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3038 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
3046 CPU Time (this time step) = 0.01 sec = 0.00000 hr
3047 CPU Time (total for run) = 0.18 sec = 0.00005 hr
3048 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3046 CPU Time (this time step) = 0.00 sec = 0.00000 hr
3047 CPU Time (total for run) = 0.14 sec = 0.00004 hr
3048 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
3106 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) ASCII
3108 Time Step No. = 30 Elapsed Time = 6.074739E-02 days
3109 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
3112 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3106 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
3108 Time Step No. = 30 Elapsed Time = 6.074739E-02 days
3109 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
3112 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
3120 CPU Time (this time step) = 0.00 sec = 0.00000 hr
3121 CPU Time (total for run) = 0.18 sec = 0.00005 hr
3122 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3120 CPU Time (this time step) = 0.01 sec = 0.00000 hr
3121 CPU Time (total for run) = 0.15 sec = 0.00004 hr
3122 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
3180 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) ASCII
3182 Time Step No. = 31 Elapsed Time = 6.169151E-02 days
3183 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
3186 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3180 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
3182 Time Step No. = 31 Elapsed Time = 6.169151E-02 days
3183 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
3186 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
3194 CPU Time (this time step) = 0.01 sec = 0.00000 hr
3195 CPU Time (total for run) = 0.19 sec = 0.00005 hr
3196 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3194 CPU Time (this time step) = 0.00 sec = 0.00000 hr
3195 CPU Time (total for run) = 0.15 sec = 0.00004 hr
3196 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
3254 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) ASCII
3256 Time Step No. = 32 Elapsed Time = 6.291887E-02 days
3257 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
3260 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3254 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
3256 Time Step No. = 32 Elapsed Time = 6.291887E-02 days
3257 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
3260 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
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3269 CPU Time (total for run) = 0.19 sec = 0.00005 hr
3270 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3269 CPU Time (total for run) = 0.15 sec = 0.00004 hr
3270 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
3328 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) ASCII
3330 Time Step No. = 33 Elapsed Time = 6.451444E-02 days
3331 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
3334 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3328 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
3330 Time Step No. = 33 Elapsed Time = 6.451444E-02 days
3331 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
3334 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
3342 CPU Time (this time step) = 0.00 sec = 0.00000 hr
3343 CPU Time (total for run) = 0.19 sec = 0.00005 hr
3344 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3342 CPU Time (this time step) = 0.01 sec = 0.00000 hr
3343 CPU Time (total for run) = 0.16 sec = 0.00004 hr
3344 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
3402 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) ASCII
3404 Time Step No. = 34 Elapsed Time = 6.658868E-02 days
3405 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
3408 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3402 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
3404 Time Step No. = 34 Elapsed Time = 6.658868E-02 days
3405 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
3408 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
3416 CPU Time (this time step) = 0.01 sec = 0.00000 hr
3417 CPU Time (total for run) = 0.20 sec = 0.00006 hr
3418 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3416 CPU Time (this time step) = 0.00 sec = 0.00000 hr
3417 CPU Time (total for run) = 0.16 sec = 0.00004 hr
3418 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
3476 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) ASCII
3478 Time Step No. = 35 Elapsed Time = 6.928519E-02 days
3479 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
3482 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3476 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
3478 Time Step No. = 35 Elapsed Time = 6.928519E-02 days
3479 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
3482 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
3491 CPU Time (total for run) = 0.20 sec = 0.00006 hr
3492 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3491 CPU Time (total for run) = 0.16 sec = 0.00004 hr
3492 *****
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*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
3550 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) ASCII
3552 Time Step No. = 36 Elapsed Time = 7.279066E-02 days
3553 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
3556 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3550 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
3552 Time Step No. = 36 Elapsed Time = 7.279066E-02 days
3553 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
3556 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
3564 CPU Time (this time step) = 0.01 sec = 0.00000 hr
3565 CPU Time (total for run) = 0.21 sec = 0.00006 hr
3566 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3564 CPU Time (this time step) = 0.00 sec = 0.00000 hr
3565 CPU Time (total for run) = 0.16 sec = 0.00004 hr
3566 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
3624 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) ASCII
3626 Time Step No. = 37 Elapsed Time = 7.734776E-02 days
3627 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
3630 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3624 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
3626 Time Step No. = 37 Elapsed Time = 7.734776E-02 days
3627 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
3630 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
3639 CPU Time (total for run) = 0.21 sec = 0.00006 hr
3640 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3639 CPU Time (total for run) = 0.16 sec = 0.00004 hr
3640 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
3698 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) ASCII
3700 Time Step No. = 38 Elapsed Time = 8.327199E-02 days
3701 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
3704 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3698 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
3700 Time Step No. = 38 Elapsed Time = 8.327199E-02 days
3701 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
3704 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
3713 CPU Time (total for run) = 0.21 sec = 0.00006 hr
3714 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3713 CPU Time (total for run) = 0.16 sec = 0.00004 hr
3714 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
3772 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) ASCII
3774 Time Step No. = 39 Elapsed Time = 9.097350E-02 days
3775 Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) Binary
3778 *****
*****
```

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

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

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

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

BF2_QB0600_ES45_TEST1_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
  3 ** Begun on: 02/14/07 at 09:14:28 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
  4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  3 ** Begun on: 02/13/07 at 14:11:29 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
  70 PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_TEST1.INP;2
  71 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  70 PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_TEST1.INP;2
  71 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
  75 PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_CLOSURE.DAT;1
  76 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  75 PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_CLOSURE.DAT;1
  76 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
  80 PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
  81 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  80 PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  81 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
  85 PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.SUM;1
  86 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  85 PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.SUM;1
  86 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
  90 PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.BIN;1
  91 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  90 PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.BIN;1
  91 *****
*****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 886 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
 888 Time Step No. = 0 Elapsed Time = 0.000000E+00 days
 889 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
 892 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 886 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
 888 Time Step No. = 0 Elapsed Time = 0.000000E+00 days
 889 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
 892 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 900 CPU Time (this time step) = 0.03 sec = 0.00001 hr
 901 CPU Time (total for run) = 0.03 sec = 0.00001 hr
 902 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 900 CPU Time (this time step) = 0.06 sec = 0.00002 hr
 901 CPU Time (total for run) = 0.06 sec = 0.00002 hr
 902 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 960 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
 962 Time Step No. = 1 Elapsed Time = 1.157407E-04 days
 963 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
 966 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 960 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
 962 Time Step No. = 1 Elapsed Time = 1.157407E-04 days
 963 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
 966 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 975 CPU Time (total for run) = 0.03 sec = 0.00001 hr
 976 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 975 CPU Time (total for run) = 0.06 sec = 0.00002 hr
 976 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1034 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
1036 Time Step No. = 2 Elapsed Time = 2.314803E-04 days
1037 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
1040 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1034 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
1036 Time Step No. = 2 Elapsed Time = 2.314803E-04 days
1037 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
1040 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1049 CPU Time (total for run) = 0.03 sec = 0.00001 hr
1050 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1049 CPU Time (total for run) = 0.06 sec = 0.00002 hr
1050 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1108 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
1110 Time Step No. = 3 Elapsed Time = 3.819418E-04 days
1111 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
1114 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1108 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
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1110 Time Step No. = 3 Elapsed Time = 3.819418E-04 days
1111 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
1114 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1123 CPU Time (total for run) = 0.04 sec = 0.00001 hr
1124 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1123 CPU Time (total for run) = 0.07 sec = 0.00002 hr
1124 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1182 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
1184 Time Step No. = 4 Elapsed Time = 5.775417E-04 days
1185 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
1188 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1182 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
1184 Time Step No. = 4 Elapsed Time = 5.775417E-04 days
1185 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
1188 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1197 CPU Time (total for run) = 0.04 sec = 0.00001 hr
1198 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1197 CPU Time (total for run) = 0.07 sec = 0.00002 hr
1198 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1256 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
1258 Time Step No. = 5 Elapsed Time = 8.318215E-04 days
1259 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
1262 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1256 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
1258 Time Step No. = 5 Elapsed Time = 8.318215E-04 days
1259 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
1262 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1271 CPU Time (total for run) = 0.04 sec = 0.00001 hr
1272 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1271 CPU Time (total for run) = 0.07 sec = 0.00002 hr
1272 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1330 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
1332 Time Step No. = 6 Elapsed Time = 1.162385E-03 days
1333 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
1336 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1330 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
1332 Time Step No. = 6 Elapsed Time = 1.162385E-03 days
1333 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
1336 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1344 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1345 CPU Time (total for run) = 0.04 sec = 0.00001 hr
1346 *****
*****
```



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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1344 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1345 CPU Time (total for run) = 0.08 sec = 0.00002 hr
1346 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1404 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
1406 Time Step No. = 7 Elapsed Time = 1.592118E-03 days
1407 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
1410 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1404 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
1406 Time Step No. = 7 Elapsed Time = 1.592118E-03 days
1407 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
1410 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1418 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1419 CPU Time (total for run) = 0.05 sec = 0.00001 hr
1420 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1418 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1419 CPU Time (total for run) = 0.08 sec = 0.00002 hr
1420 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1478 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
1480 Time Step No. = 8 Elapsed Time = 2.150771E-03 days
1481 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
1484 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1478 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
1480 Time Step No. = 8 Elapsed Time = 2.150771E-03 days
1481 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
1484 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1493 CPU Time (total for run) = 0.05 sec = 0.00001 hr
1494 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1493 CPU Time (total for run) = 0.08 sec = 0.00002 hr
1494 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1552 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
1554 Time Step No. = 9 Elapsed Time = 2.877020E-03 days
1555 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
1558 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1552 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
1554 Time Step No. = 9 Elapsed Time = 2.877020E-03 days
1555 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
1558 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1566 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1567 CPU Time (total for run) = 0.05 sec = 0.00001 hr
1568 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1566 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1567 CPU Time (total for run) = 0.09 sec = 0.00003 hr
1568 *****
*****
*****
*****
```

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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1626 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
1628 Time Step No. = 10 Elapsed Time = 3.821143E-03 days
1629 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
1632 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1626 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
1628 Time Step No. = 10 Elapsed Time = 3.821143E-03 days
1629 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
1632 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1640 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1641 CPU Time (total for run) = 0.06 sec = 0.00002 hr
1642 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1640 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1641 CPU Time (total for run) = 0.09 sec = 0.00003 hr
1642 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1700 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
1702 Time Step No. = 11 Elapsed Time = 5.048504E-03 days
1703 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
1706 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1700 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
1702 Time Step No. = 11 Elapsed Time = 5.048504E-03 days
1703 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
1706 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1715 CPU Time (total for run) = 0.06 sec = 0.00002 hr
1716 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1715 CPU Time (total for run) = 0.09 sec = 0.00003 hr
1716 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1774 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
1776 Time Step No. = 12 Elapsed Time = 6.644072E-03 days
1777 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
1780 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1774 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
1776 Time Step No. = 12 Elapsed Time = 6.644072E-03 days
1777 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
1780 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1789 CPU Time (total for run) = 0.06 sec = 0.00002 hr
1790 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1789 CPU Time (total for run) = 0.09 sec = 0.00003 hr
1790 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1848 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
1850 Time Step No. = 13 Elapsed Time = 8.718311E-03 days
1851 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
1854 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1848 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
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1850 Time Step No. = 13 Elapsed Time = 8.718311E-03 days
1851 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
1854 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1863 CPU Time (total for run) = 0.07 sec = 0.00002 hr
1864 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1863 CPU Time (total for run) = 0.10 sec = 0.00003 hr
1864 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1922 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
1924 Time Step No. = 14 Elapsed Time = 1.141482E-02 days
1925 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
1928 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1922 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
1924 Time Step No. = 14 Elapsed Time = 1.141482E-02 days
1925 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
1928 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1937 CPU Time (total for run) = 0.07 sec = 0.00002 hr
1938 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1937 CPU Time (total for run) = 0.10 sec = 0.00003 hr
1938 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
1996 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
1998 Time Step No. = 15 Elapsed Time = 1.492029E-02 days
1999 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
2002 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1996 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
1998 Time Step No. = 15 Elapsed Time = 1.492029E-02 days
1999 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
2002 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2011 CPU Time (total for run) = 0.07 sec = 0.00002 hr
2012 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2011 CPU Time (total for run) = 0.10 sec = 0.00003 hr
2012 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2070 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
2072 Time Step No. = 16 Elapsed Time = 1.947739E-02 days
2073 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
2076 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2070 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
2072 Time Step No. = 16 Elapsed Time = 1.947739E-02 days
2073 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
2076 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2084 CPU Time (this time step) = 0.00 sec = 0.00000 hr
2085 CPU Time (total for run) = 0.07 sec = 0.00002 hr
2086 *****
*****
```

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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2084 CPU Time (this time step) = 0.01 sec = 0.00000 hr
2085 CPU Time (total for run) = 0.11 sec = 0.00003 hr
2086 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2144 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
2146 Time Step No. = 17 Elapsed Time = 2.540162E-02 days
2147 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
2150 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2144 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
2146 Time Step No. = 17 Elapsed Time = 2.540162E-02 days
2147 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
2150 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2158 CPU Time (this time step) = 0.01 sec = 0.00000 hr
2159 CPU Time (total for run) = 0.08 sec = 0.00002 hr
2160 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2158 CPU Time (this time step) = 0.00 sec = 0.00000 hr
2159 CPU Time (total for run) = 0.11 sec = 0.00003 hr
2160 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2218 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
2220 Time Step No. = 18 Elapsed Time = 3.310313E-02 days
2221 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
2224 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2218 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
2220 Time Step No. = 18 Elapsed Time = 3.310313E-02 days
2221 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
2224 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2233 CPU Time (total for run) = 0.08 sec = 0.00002 hr
2234 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2233 CPU Time (total for run) = 0.11 sec = 0.00003 hr
2234 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2292 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
2294 Time Step No. = 19 Elapsed Time = 4.311508E-02 days
2295 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
2298 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2292 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
2294 Time Step No. = 19 Elapsed Time = 4.311508E-02 days
2295 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
2298 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2306 CPU Time (this time step) = 0.00 sec = 0.00000 hr
2307 CPU Time (total for run) = 0.08 sec = 0.00002 hr
2308 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2306 CPU Time (this time step) = 0.01 sec = 0.00000 hr
2307 CPU Time (total for run) = 0.12 sec = 0.00003 hr
2308 *****
*****
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2366 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
2368 Time Step No. = 20 Elapsed Time = 5.613062E-02 days
2369 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
2372 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2366 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
2368 Time Step No. = 20 Elapsed Time = 5.613062E-02 days
2369 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
2372 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2380 CPU Time (this time step) = 0.01 sec = 0.00000 hr
2381 CPU Time (total for run) = 0.09 sec = 0.00003 hr
2382 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2380 CPU Time (this time step) = 0.00 sec = 0.00000 hr
2381 CPU Time (total for run) = 0.12 sec = 0.00003 hr
2382 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2440 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
2442 Time Step No. = 21 Elapsed Time = 5.787037E-02 days
2443 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
2446 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2440 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
2442 Time Step No. = 21 Elapsed Time = 5.787037E-02 days
2443 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
2446 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2455 CPU Time (total for run) = 0.09 sec = 0.00003 hr
2456 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2455 CPU Time (total for run) = 0.12 sec = 0.00003 hr
2456 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2514 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
2516 Time Step No. = 22 Elapsed Time = 5.798611E-02 days
2517 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
2520 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2514 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
2516 Time Step No. = 22 Elapsed Time = 5.798611E-02 days
2517 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
2520 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2529 CPU Time (total for run) = 0.09 sec = 0.00003 hr
2530 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2529 CPU Time (total for run) = 0.12 sec = 0.00003 hr
2530 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2588 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
2590 Time Step No. = 23 Elapsed Time = 5.810185E-02 days
2591 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
2594 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2588 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
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2590 Time Step No. = 23 Elapsed Time = 5.810185E-02 days
2591 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
2594 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2603 CPU Time (total for run) = 0.10 sec = 0.00003 hr
2604 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2603 CPU Time (total for run) = 0.13 sec = 0.00004 hr
2604 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2662 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
2664 Time Step No. = 24 Elapsed Time = 5.825231E-02 days
2665 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
2668 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2662 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
2664 Time Step No. = 24 Elapsed Time = 5.825231E-02 days
2665 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
2668 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2677 CPU Time (total for run) = 0.10 sec = 0.00003 hr
2678 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2677 CPU Time (total for run) = 0.13 sec = 0.00004 hr
2678 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2736 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
2738 Time Step No. = 25 Elapsed Time = 5.844791E-02 days
2739 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
2742 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2736 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
2738 Time Step No. = 25 Elapsed Time = 5.844791E-02 days
2739 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
2742 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2751 CPU Time (total for run) = 0.10 sec = 0.00003 hr
2752 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2751 CPU Time (total for run) = 0.13 sec = 0.00004 hr
2752 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2810 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
2812 Time Step No. = 26 Elapsed Time = 5.870219E-02 days
2813 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
2816 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2810 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
2812 Time Step No. = 26 Elapsed Time = 5.870219E-02 days
2813 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
2816 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2824 CPU Time (this time step) = 0.00 sec = 0.00000 hr
2825 CPU Time (total for run) = 0.10 sec = 0.00003 hr
2826 *****
*****
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2824 CPU Time (this time step) = 0.01 sec = 0.00000 hr
2825 CPU Time (total for run) = 0.14 sec = 0.00004 hr
2826 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2884 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
2886 Time Step No. = 27 Elapsed Time = 5.903276E-02 days
2887 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
2890 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2884 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
2886 Time Step No. = 27 Elapsed Time = 5.903276E-02 days
2887 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
2890 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2898 CPU Time (this time step) = 0.01 sec = 0.00000 hr
2899 CPU Time (total for run) = 0.11 sec = 0.00003 hr
2900 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2898 CPU Time (this time step) = 0.00 sec = 0.00000 hr
2899 CPU Time (total for run) = 0.14 sec = 0.00004 hr
2900 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2958 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
2960 Time Step No. = 28 Elapsed Time = 5.946249E-02 days
2961 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
2964 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2958 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
2960 Time Step No. = 28 Elapsed Time = 5.946249E-02 days
2961 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
2964 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
2973 CPU Time (total for run) = 0.11 sec = 0.00003 hr
2974 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
2973 CPU Time (total for run) = 0.14 sec = 0.00004 hr
2974 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
3032 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
3034 Time Step No. = 29 Elapsed Time = 6.002114E-02 days
3035 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
3038 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3032 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
3034 Time Step No. = 29 Elapsed Time = 6.002114E-02 days
3035 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
3038 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
3047 CPU Time (total for run) = 0.11 sec = 0.00003 hr
3048 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3047 CPU Time (total for run) = 0.14 sec = 0.00004 hr
3048 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
3106 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
```

```
3108 Time Step No. = 30 Elapsed Time = 6.074739E-02 days
3109 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
3112 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3106 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
3108 Time Step No. = 30 Elapsed Time = 6.074739E-02 days
3109 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
3112 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
3121 CPU Time (total for run) = 0.12 sec = 0.00003 hr
3122 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3121 CPU Time (total for run) = 0.15 sec = 0.00004 hr
3122 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
3180 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
3182 Time Step No. = 31 Elapsed Time = 6.169151E-02 days
3183 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
3186 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3180 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
3182 Time Step No. = 31 Elapsed Time = 6.169151E-02 days
3183 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
3186 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
3195 CPU Time (total for run) = 0.12 sec = 0.00003 hr
3196 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3195 CPU Time (total for run) = 0.15 sec = 0.00004 hr
3196 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
3254 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
3256 Time Step No. = 32 Elapsed Time = 6.291887E-02 days
3257 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
3260 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3254 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
3256 Time Step No. = 32 Elapsed Time = 6.291887E-02 days
3257 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
3260 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
3269 CPU Time (total for run) = 0.12 sec = 0.00003 hr
3270 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3269 CPU Time (total for run) = 0.15 sec = 0.00004 hr
3270 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
3328 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
3330 Time Step No. = 33 Elapsed Time = 6.451444E-02 days
3331 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
3334 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
3328 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
3330 Time Step No. = 33 Elapsed Time = 6.451444E-02 days
3331 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
3334 *****
*****
```



```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3342 CPU Time (this time step) = 0.00 sec = 0.00000 hr
 3343 CPU Time (total for run) = 0.12 sec = 0.00003 hr
 3344 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3342 CPU Time (this time step) = 0.01 sec = 0.00000 hr
 3343 CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3344 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3402 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 3404 Time Step No. = 34 Elapsed Time = 6.658868E-02 days
 3405 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 3408 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3402 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3404 Time Step No. = 34 Elapsed Time = 6.658868E-02 days
 3405 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3408 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3416 CPU Time (this time step) = 0.01 sec = 0.00000 hr
 3417 CPU Time (total for run) = 0.13 sec = 0.00004 hr
 3418 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3416 CPU Time (this time step) = 0.00 sec = 0.00000 hr
 3417 CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3418 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3476 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 3478 Time Step No. = 35 Elapsed Time = 6.928519E-02 days
 3479 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 3482 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3476 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3478 Time Step No. = 35 Elapsed Time = 6.928519E-02 days
 3479 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3482 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3491 CPU Time (total for run) = 0.13 sec = 0.00004 hr
 3492 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3491 CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3492 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3550 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 3552 Time Step No. = 36 Elapsed Time = 7.279066E-02 days
 3553 Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 3556 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3550 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3552 Time Step No. = 36 Elapsed Time = 7.279066E-02 days
 3553 Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3556 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3565 CPU Time (total for run) = 0.13 sec = 0.00004 hr
 3566 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
```

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

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

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

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

A.2 Test Case 2 Files

A.2.1 Test Case 2: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST2_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST2.INP
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_Test2.OUT
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_Test2.SUM
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_Test2.BIN
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_Test2.RIN
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_Test2.ROT
$ set noverify

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

$ show symbol bragflo_exe
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST2_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST2.INP
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_Test2.OUT
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_Test2.SUM
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_Test2.BIN
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_Test2.RIN
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_Test2.ROT
$ set noverify

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

$ show symbol bragflo_exe
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST2_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST2.INP
$ DEFINE bf2_uifold$input   working_dir:BF2_TEST2_QA0500.INP
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_Test2.OUT
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_Test2.SUM
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_Test2.BIN
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_Test2.RIN
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_Test2.ROT
```

```
$ set noverify

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

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

A.2.2 Test Case 2: Input File, BF2_QB0600_TEST2.INP

```
1D HORIZONTAL INFILTRATION BENCHMARK PROBLEM
FILES TO USE:  ASCII, BINARY, SUMMARY, RESTART OUT, RESTART IN
  T   F   T   F   F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
  1   41   1   1
TSTART,   TMAX,   MAXSTEPS
  0.0   9504.   5000
DT_INIT,  DT_MIN,  DT_MAX,  DT_INCR, IAUTODT, TSWITCH
  1.0   1.0   1000.   1.5000E+00  1   1.0000E-02
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
  0
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
  2   0   0   'SI'   'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  2
USER REQUESTED PRINTOUT TIMES
  864.   5184.
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  100
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  100
ASCII PRINT FLAGS
1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
BINARY PRINT FLAGS
1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
HISTORY VARIABLES
0
MONITOR PARAMETER VALUES AT 1 GRIDBLOCK
T
NUMBER OF MONITOR BLOCKS
  1
MONITOR BLOCK (I,J,K)
  2   1   1
GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
  1   1   1   0
GRID DATA CARDS: GRID BLOCK DX'S
  0.000001  40*0.005
GRID DATA CARDS: GRID BLOCK DY'S
  10000.   40*1.0
GRID DATA CARDS: GRID BLOCK DZ'S
  10000.   40*1.0
GRID DATA CARDS: IORG, JORG, KORG, DEPTH, THETAX, THETAY, THETAZ
  1   1   1  0.000000E+00  9.000000E+01  0.000000E+00  0.000000E+00
WELL DATA
0
DIRICHLET CONDITIONS
F   1
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
  109525.  40*1.013250E+05
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
```

```
1.0 40*0.44444444
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
41*0.0
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
41*0.0
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
41*0.0
DSATLIM, DPRESLIM, SATLIMIT
1.0000E-01 -1.0000E+07 1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
6.0000E-01 1.0000E+06
DDEPMAX(1), DDEPMAX(2)
1.0000 1.E7
CONVERGENCE TEST FLAG: 0=OR/1=AND
1
EPS_SAT, EPS_PRES: NORMAL CONVERGENCE CRITERIA
6.0000E+00 1.0000E-06
EPS_SAT, EPS_PRES: LOOSER CONVERGENCE CRITERIA
6.0000E+00 1.0000E-06
FTOL_SAT, FTOL_PRES: NORMAL RESIDUALS TOLERANCE
1.0000E-07 1.0000E-07
FTOL_SAT, FTOL_PRES: LOOSER RESIDUALS TOLERANCE
1.0000E-07 1.0000E-07
EPSGAS: RXN PATH TOLS
4*1.E-4
SOLVER
LU
ITMAX, IRESETMAX, IJACINT, SCALING, P_SCALE, LVARSWTCH
40 40 1 T 1.E7 F
IUPRPFLAG, IUPMFFLAG, DT_REDU, ITRAVE, IMFAVE
40 40 5.0000E-01 1 0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
40 40 40 40 40
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
1.0000E-08 1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
1.0000E-09 1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
1
START TIME FOR MAP 1
0.0
MATERIAL TYPE GRID MAP
41*1
# NAME
1 WASTE
NWST
0
NDRZ
0
NMATRESET
0
MAT_BOREHOLE
1
RESET TIME, ICWASTE
0.0 0
POWASTEIC
0.0
SOWASTEIC
0.0
PRESDRZ
0.0
NBORERESSET
0
# LAMBDA SOR SGR
1 1.517E+00 0.3333333 0.0
# SBMIN POMIN PCMAX PCT_A PCT_EXP KRP KPC KPT
1 0.34 1.01325E5 9807. 0.0 -0.2865812 5 2 1
# PERMX PERMY PERMZ POROSITY COMPRES
1 1.18E-14 1.18E-14 1.18E-14 0.45 0.0E-00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL
F
KLINKENBERG EFFECT
```

F
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01325E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
0.0 1.00E+03 0 0 0.0000E-00 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.0000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, O2, AND H2S
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 1 1
GAS MOLE CULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONET NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTIS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.000D+00 +0.0000D+00
IGASVAR (1=GENERATION USING REACTION SOURCE; 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
0.0 0.0 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0 0.0
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0 0.0
RATE COEFFICIENTS: RXH2S AND RXCO2
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
WICKING SATN, HUMID SMOOTHING, ALPHARXN
0.0 F F 2000.
WILL CREEP CLOSURE BE ACTIVATED?
F
WILL RADIONUCLIDE DECAY BE ACTIVATED?
F
WILL TRANSPORT BE CALCULATED?
F
RXN PATH?

F

A.2.3 Test Case 2: Output Difference File, BF2_QB0600_ES47_TEST2_OUT.DIF

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

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  2  ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
  3  ** Begun on: 02/13/07 at 14:11:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
  2  ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
  3  ** Begun on: 04/06/06 at 15:37:06 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
  4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_TEST2.INP;1
  62 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
  61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST2]BF2_TEST2_QA0500.INP;2
  62 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_CLOSURE.DAT;1
  67 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
  66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST2]BF2_CLOSURE.DAT;1
  67 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  72 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
  71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
  72 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.SUM;1
  77 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
  76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.SUM;1
  77 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  125 Restart output timestep interval (IPRNRST) = 100
  127 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
  125 Restart output timestep interval (IPRNRST) =100
  127 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  178 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  179 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
```



```
180 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
181 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
182 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
183 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
184 49 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
185 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
186 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
187 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
188 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
189 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
190 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
191 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
192 57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
193 58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
194 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
195 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
196 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
197 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
198 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
199 64 0 0 CONCGT Salt concentration -- simple model kg/m^3
200 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
201 66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
216 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
217 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
218 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
219 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
220 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
221 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
222 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
223 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
224 89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
225 90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
226 91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
227 92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
228 93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
229 94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
230 95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
231 96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
232 97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
233 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
234 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
235 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
236 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
237 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
238 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
239 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
240 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
241 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
242 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
243 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
244 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
245 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
246 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
247 112 0 0 H2OFLOWIN Water inflow rate kg/s
248 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
249 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
```

```
250 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
251 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
252 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
253 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
254 119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
255 120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
256 121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
257 122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
258 123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
259 124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
261
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
178 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
179 44 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
180 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
181 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
182 47 0 0 CONCFE Fe concentration -- simple model kg/m^3
183 48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
184 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
185 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
186 51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
187 52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
188 53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
189 54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
190 55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
191 56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
192 57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
193 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
194 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
195 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
196 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
197 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
198 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
199 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
200 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
201 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
202 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
203 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
204 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
205 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
206 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
207 72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
208 73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
209 74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
210 75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
211 76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
212 77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
213 78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
214 79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
215 80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
216 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
217 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
218 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
219 84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
220 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
221 86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
222 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
223 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
224 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
225 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
226 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
227 92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
228 93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
229 94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
230 95 0 0 H2OFLOWIN Water inflow rate kg/s
231 96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
232 97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
233 98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
234 99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
235 100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
236 101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
237 102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
```

```
238 103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
239 104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
240 105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
241 106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
242 107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
244
*****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
428 instead of Input IC's for the Cavities
429 [0=No, 1=Yes] (ICWASTE) = 0
431 Uniform Cavity Region
432 Uniform Cavity Region
434 -----
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
411 instead of Input IC's for the Waste
412 [0=No, 1=Yes] (ICWASTE) = 0
414 Uniform Waste Region
415 Uniform Waste Region
417 -----
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
463 TOL = 1.0000E-02
464 SOCEFFMIN = 1.0000E-03
466 Fracture model will be used? (KRACTURE): F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
447 Fracture model will be used? (KRACTURE): F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
565 Intrinsic reaction rate constants? (LINTRIN): F
567 Reaction rate constants (RK):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
546 Reaction rate constants (RK):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
575 MgO hydration reaction rate constants:
576 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
577 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
579 Saturation cutoff value (SOCMIN): 0.000000E+00
581 Stoichiometric coeff's for Rxn 1:
582 H2 coefficient = 0.000000E+00
583 H2O coefficient = 0.000000E+00
584 Fe coefficient = 0.000000E+00
585 Bio coefficient = 0.000000E+00
586 Fe(OH)2 coefficient = 0.000000E+00
587 FeS coefficient = 0.000000E+00
588 MgO coefficient = 0.000000E+00
589 Mg(OH)2 coefficient = 0.000000E+00
590 MgCO3 coefficient = 0.000000E+00
592 Stoichiometric coeff's for Rxn 2:
593 H2 coefficient = 0.000000E+00
594 H2O coefficient = 0.000000E+00
595 Fe coefficient = 0.000000E+00
596 Bio coefficient = 0.000000E+00
597 Fe(OH)2 coefficient = 0.000000E+00
598 FeS coefficient = 0.000000E+00
599 MgO coefficient = 0.000000E+00
600 Mg(OH)2 coefficient = 0.000000E+00
601 MgCO3 coefficient = 0.000000E+00
603 Stoichiometric coeff's for Rxn 3:
604 H2 coefficient = 0.000000E+00
605 H2O coefficient = 0.000000E+00
606 Fe coefficient = 0.000000E+00
```

```
607 Bio coefficient = 0.000000E+00
608 Fe(OH)2 coefficient = 0.000000E+00
609 FeS coefficient = 0.000000E+00
610 MgO coefficient = 0.000000E+00
611 Mg(OH)2 coefficient = 0.000000E+00
612 MgCO3 coefficient = 0.000000E+00
614 Stoichiometric coeff's for Rxn 4:
615 H2 coefficient = 0.000000E+00
616 H2O coefficient = 0.000000E+00
617 Fe coefficient = 0.000000E+00
618 Bio coefficient = 0.000000E+00
619 Fe(OH)2 coefficient = 0.000000E+00
620 FeS coefficient = 0.000000E+00
621 MgO coefficient = 0.000000E+00
622 Mg(OH)2 coefficient = 0.000000E+00
623 MgCO3 coefficient = 0.000000E+00
625 Stoichiometric coeff's for Rxn 5:
626 H2 coefficient = 0.000000E+00
627 H2O coefficient = 0.000000E+00
628 Fe coefficient = 0.000000E+00
629 Bio coefficient = 0.000000E+00
630 Fe(OH)2 coefficient = 0.000000E+00
631 FeS coefficient = 0.000000E+00
632 MgO coefficient = 0.000000E+00
633 Mg(OH)2 coefficient = 0.000000E+00
634 MgCO3 coefficient = 0.000000E+00
636 Stoichiometric coeff's for Rxn 6:
637 H2 coefficient = 0.000000E+00
638 H2O coefficient = 0.000000E+00
639 Fe coefficient = 0.000000E+00
640 Bio coefficient = 0.000000E+00
641 Fe(OH)2 coefficient = 0.000000E+00
642 FeS coefficient = 0.000000E+00
643 MgO coefficient = 0.000000E+00
644 Mg(OH)2 coefficient = 0.000000E+00
645 MgCO3 coefficient = 0.000000E+00
647 Stoichiometric coeff's for Rxn 7:
648 H2 coefficient = 0.000000E+00
649 H2O coefficient = 0.000000E+00
650 Fe coefficient = 0.000000E+00
651 Bio coefficient = 0.000000E+00
652 Fe(OH)2 coefficient = 0.000000E+00
653 FeS coefficient = 0.000000E+00
654 MgO coefficient = 0.000000E+00
655 Mg(OH)2 coefficient = 0.000000E+00
656 MgCO3 coefficient = 0.000000E+00
658 Wicking term (SATWICK) = 0.000000E+00
659 Humid rates to be smoothed? (LARKN) = F
660 Concentration rates to be smoothed? (LARKN2) = F
661 Humid rate smoothing factor (ALPHARKN) = 2.000000E+03
663 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
554 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
555 Gas coefficient = 1.068300E+00
556 H2O coefficient = 1.863300E+00
557 Fe coefficient = 1.000000E+00
559 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
560 Gas coefficient = 1.229000E+00
561 H2O coefficient = 0.000000E+00
562 Bio coefficient = 1.000000E+00
564 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
667 Bio: 2.7023E-02 kg/mol
669 Molecular weights (WM):
670 Fe(OH)2: 8.9862E-02 kg/mol
671 FeS: 8.7900E-02 kg/mol
672 MgO: 4.0304E-02 kg/mol
673 Mg(OH)2: 5.8320E-02 kg/mol
```

```
674 MgCO3: 8.4314E-02 kg/mol
676 Densities (DEN(1-4)):
677 Fe: 7.8700E+03 kg/m3
678 Fe(OH)2: 3.4000E+03 kg/m3
679 FeS: 4.7000E+03 kg/m3
680 Bio: 1.1000E+03 kg/m3
682 Densities (DEN(5-8)):
683 MgO: 3.6000E+03 kg/m3
684 Mg(OH)2: 2.3700E+03 kg/m3
685 MgCO3: 3.0500E+03 kg/m3
686 SALT: 2.1700E+03 kg/m3
688 Will creep closure be used (CLOSURE): F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
568 Bio: 3.0026E-02 kg/mol
570 Wicking term (SATWICK) = 0.000000E+00
571 Humid rates to be smoothed? (LARXN) = F
572 Humid rate smoothing factor (ALPHARXN) = 2.000000E+03
574 Will creep closure be used (CLOSURE): F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
828 Date: 02/13/07 Time: 14:11:36 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
831 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
714 Date: 04/06/06 Time: 15:37:06 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
717 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
891 Date: 02/13/07 Time: 14:11:36 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
894 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
777 Date: 04/06/06 Time: 15:37:06 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
780 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
902 CPU Time (this time step) = 0.00 sec = 0.00000 hr
903 CPU Time (total for run) = 0.08 sec = 0.00002 hr
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
788 CPU Time (this time step) = 0.01 sec = 0.00000 hr
789 CPU Time (total for run) = 0.08 sec = 0.00002 hr
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
954 Date: 02/13/07 Time: 14:11:36 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
959 *****
960 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
961 * Completed: 02/13/07 at 14:11:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
962 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
840 Date: 04/06/06 Time: 15:37:06 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
845 *****
846 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
847 * Completed: 04/06/06 at 15:37:06 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
848 *****
*****
Number of difference sections found: 16
Number of difference records found: 198
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
```

A.2.4 Test Case 2: Output Difference Files, BF2_QB0600_ES40_TEST2_OUT.DIF and BF2_QB0600_ES45_TEST2_OUT.DIF

BF2_QB0600_ES40_TEST2_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
  3  ** Begun on: 02/14/07 at 08:52:41 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  3  ** Begun on: 02/13/07 at 14:11:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_TEST2.INP;1
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_TEST2.INP;1
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
  777 CPU Time (total for run) = 0.08 sec = 0.00002 hr
  778 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  777 CPU Time (total for run) = 0.06 sec = 0.00002 hr
  778 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
  828 Date: 02/14/07 Time: 08:52:41 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
  831 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  828 Date: 02/13/07 Time: 14:11:36 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  831 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
  840 CPU Time (total for run) = 0.10 sec = 0.00003 hr
  841 *****
```

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
 840 CPU Time (total for run) = 0.07 sec = 0.00002 hr
 841 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
 891 Date: 02/14/07 Time: 08:52:41 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 894 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
 891 Date: 02/13/07 Time: 14:11:36 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 894 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
 903 CPU Time (total for run) = 0.11 sec = 0.00003 hr
 904 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
 903 CPU Time (total for run) = 0.08 sec = 0.00002 hr
 904 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
 954 Date: 02/14/07 Time: 08:52:41 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 959 *****
 960 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 961 * Completed: 02/14/07 at 08:52:41 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 962 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
 954 Date: 02/13/07 Time: 14:11:36 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
 959 *****
 960 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 961 * Completed: 02/13/07 at 14:11:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 962 *****
*****
Number of difference sections found: 11
Number of difference records found: 14
```

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
```

BF2_QB0600_ES45_TEST2_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.OUT;1
 3 ** Begun on: 02/14/07 at 09:14:49 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
 3 ** Begun on: 02/13/07 at 14:11:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.OUT;1
 61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_TEST2.INP;1
 62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
 61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_TEST2.INP;1
 62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.OUT;1
 66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_CLOSURE.DAT;1
 67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
 66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_CLOSURE.DAT;1
```

```
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.OUT;1
828 Date: 02/14/07 Time: 09:14:49 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
831 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
828 Date: 02/13/07 Time: 14:11:36 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
831 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.OUT;1
891 Date: 02/14/07 Time: 09:14:49 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
894 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
891 Date: 02/13/07 Time: 14:11:36 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
894 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.OUT;1
954 Date: 02/14/07 Time: 09:14:49 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
959 *****
960 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
961 * Completed: 02/14/07 at 09:14:49 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
962 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
954 Date: 02/13/07 Time: 14:11:36 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
959 *****
960 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
961 * Completed: 02/13/07 at 14:11:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
962 *****
*****
```

Number of difference sections found: 8
Number of difference records found: 11

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
```


A.3 Test Case 3 Files

A.3.1 Test Case 3: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST3_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST3.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_Test3.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_Test3.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_Test3.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_Test3.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_Test3.ROT  
$ set noverify  
  
image name: "BRAGFLO_QB0600"  
image file identification: "P QB0600 6.0"  
image file build identification: ""  
link date/time: 12-FEB-2007 14:57:24.36  
linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST3_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST3.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_Test3.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_Test3.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_Test3.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_Test3.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_Test3.ROT  
$ set noverify  
  
image name: "BRAGFLO_QB0600"  
image file identification: "P QB0600 6.0"  
image file build identification: ""  
link date/time: 12-FEB-2007 14:57:24.36  
linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST3_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST3.INP  
$ DEFINE bf2_uifold$input   working_dir:BF2_TEST3_QA0500.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_Test3.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_Test3.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_Test3.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_Test3.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_Test3.ROT
```

\$ set noverify

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

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

A.3.2 Test Case 3: Input File, BF2_QB0600_TEST3.INP

```
1D HORIZONTAL INFILTRATION BENCHMARK PROBLEM
FILES TO USE:  ASCII,  BINARY,  SUMMARY,  RESTART OUT,  RESTART IN
  T    F    T    F    F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
  1    41    1    1
TSTART,    TMAX,    MAXSTEPS
  0.0    9504.    5000
DT_INIT,  DT_MIN,  DT_MAX,  DT_INCR,  IAUTODT,  TSWITCH
  1.0    1.0    1000.    1.5000E+00    1    1.0000E-02
TIME-STEP CHANGES:  NUMBER OF CHANGES,  TIME OF CHANGE,  DELT USED
  0
IPRTYPEASC  IPRTYPEBIN  IPRTYPERST  UNITSI  UNITSO
  2    0    0    'SI'    'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  2
USER REQUESTED PRINTOUT TIMES
  864.    5184.
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL,  IPRTBIN
  100
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  100
ASCII PRINT FLAGS
  1 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0
  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
  0 0 0 0 0 0 0
BINARY PRINT FLAGS
  1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0
  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
  0 0 0 0 0 0 0 0
HISTORY VARIABLES
  0
MONITOR PARAMETER VALUES AT 1 GRIDBLOCK
  T
NUMBER OF MONITOR BLOCKS
  1
MONITOR BLOCK (I,J,K)
  2    1    1
GRID DATA FLAGS:  IDXFLAG,  IDYFLAG,  IDZFLAG,  IDEPTHFLAG
  1    1    1    0
GRID DATA CARDS:  GRID BLOCK DX'S
  0.000001  40*0.005
GRID DATA CARDS:  GRID BLOCK DY'S
  41*1.0
GRID DATA CARDS:  GRID BLOCK DZ'S
  41*1.0
GRID DATA CARDS:  IORG,  JORG,  KORG,  DEPTH,  THETAX,  THETAY,  THETAZ
  1    1    1  0.000000E+00  9.000000E+01  0.000000E+00  0.000000E+00
WELL DATA
  0
DIRICHLET CONDITIONS
  T    1
  1  1  1  T  T  109525.  1.0
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
  109525.  40*1.013250E+05
```

```
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
1.0 40*0.44444444
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
41*0.0
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
41*0.0
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
41*0.0
DSATLIM, DPRESLIM, SATLIMIT
1.0000E-01 -1.0000E+07 1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
6.0000E-01 1.0000E+06
DDEPMAX(1), DDEPMAX(2)
1.0000 1.E7
CONVERGENCE TEST FLAG: 0=OR/1=AND
1
EPS_SAT, EPS_PRES: NORMAL CONVERGENCE CRITERIA
6.0000E+00 1.0000E-06
EPS_SAT, EPS_PRES: LOOSER CONVERGENCE CRITERIA
6.0000E+00 1.0000E-06
FTOL_SAT, FTOL_PRES: NORMAL RESIDUALS TOLERANCE
1.0000E-07 1.0000E-07
FTOL_SAT, FTOL_PRES: LOOSER RESIDUALS TOLERANCE
1.0000E-07 1.0000E-07
EPGAS: RXN PATH TOLS
4*1.E-4
SOLVER
LU
ITMAX, IRESETMAX, IJACINT, SCALING, P_SCALE, LVARSWTCH
40 40 1 T 1.E7 F
IUPRPFLAG, IUPMFFLAG, DT_REDU, ITRAVE, IMFAVE
40 40 5.0000E-01 1 0
IJACSWTCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
40 40 40 40 40
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
1.0000E-08 1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
1.0000E-09 1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
1
START TIME FOR MAP 1
0.0
MATERIAL TYPE GRID MAP
41*1
# NAME
1 WASTE
NWST
0
NDRZ
0
NMATRESET
0
MAT_BOREHOLE
1
RESET TIME, ICWASTE
0.0 0
POWASTEIC
0.0
SOWASTEIC
0.0
PRESDRZ
0.0
NBORERESSET
0
# LAMBDA SOR SGR
1 1.517E+00 0.3333333 0.0
# SBMIN POMIN PCMAX PCT_A PCT_EXP KRP KPC KPT
1 0.34 1.01325E5 9807. 0.0 -0.2865812 5 2 1
# PERMX PERMY PERMZ POROSITY COMPRES
1 1.18E-14 1.18E-14 1.18E-14 0.45 0.0E-00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL
F
```

KLINKENBERG EFFECT

F
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01325E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
0.0 1.00E+03 0 0 0.0000E-00 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.0000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, O2, AND H2S
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 1 1
GAS MOLE CULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONET NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANT'S OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.0000D+00 +0.0000D+00
IGASVAR (1=GENERATION USING REACTION SOURCE; 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
0.0 0.0 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0 0.0
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0 0.0
RATE COEFFICIENTS: RXH2S AND RXCO2
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
WICKING SATN, HUMID SMOOTHING, ALPHARXN
0.0 F F 2000.
WILL CREEP CLOSURE BE ACTIVATED?
F
WILL RADIONUCLIDE DECAY BE ACTIVATED?
F
WILL TRANSPORT BE CALCULATED?
F

RXN PATH?
F

A.3.3 Test Case 3: Output Difference File, BF2_QB0600_ES47_TEST3_OUT.DIF

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

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  2  ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
  3  ** Begun on: 02/13/07 at 14:11:35 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
  2  ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
  3  ** Begun on: 04/06/06 at 15:41:53 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
  4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_TEST3.INP;1
  62 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
  61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST3]BF2_TEST3_QA0500.INP;2
  62 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_CLOSURE.DAT;1
  67 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
  66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST3]BF2_CLOSURE.DAT;1
  67 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  72 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
  71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
  72 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.SUM;1
  77 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
  76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.SUM;1
  77 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  125 Restart output timestep interval (IPRNTRST) = 100
  127 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
  125 Restart output timestep interval (IPRNTRST) =100
  127 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  178 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
```

179 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
180 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
181 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
182 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
183 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
184 49 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
185 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
186 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
187 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
188 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
189 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
190 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
191 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
192 57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
193 58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
194 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
195 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
196 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
197 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
198 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
199 64 0 0 CONCST Salt concentration -- simple model kg/m^3
200 65 0 0 POROLID Volume fraction of generated solids dimensionless
201 66 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 67 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 68 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204 69 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205 70 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206 71 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207 72 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208 73 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209 74 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
216 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
217 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
218 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
219 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
220 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
221 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
222 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
223 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
224 89 0 0 CONCRXN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
225 90 0 0 CONCRXN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
226 91 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
227 92 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
228 93 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
229 94 0 0 CONCRXN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
230 95 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
231 96 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
232 97 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
233 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
234 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
235 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
236 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
237 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
238 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
239 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
240 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
241 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
242 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
243 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
244 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
245 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
246 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
247 112 0 0 H2OFLOWIN Water inflow rate kg/s
248 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg

```
249 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
250 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
251 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
252 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
253 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
254 119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
255 120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
256 121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
257 122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
258 123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
259 124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
261
*****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT:1
178 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
179 44 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
180 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
181 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
182 47 0 0 CONCFE Fe concentration -- simple model kg/m^3
183 48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
184 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
185 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
186 51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
187 52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
188 53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
189 54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
190 55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
191 56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
192 57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
193 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
194 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
195 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
196 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
197 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
198 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
199 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
200 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
201 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
202 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
203 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
204 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
205 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
206 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
207 72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
208 73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
209 74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
210 75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
211 76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
212 77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
213 78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
214 79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
215 80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
216 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
217 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
218 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
219 84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
220 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
221 86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
222 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
223 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
224 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
225 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
226 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
227 92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
228 93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
229 94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
230 95 0 0 H2OFLOWIN Water inflow rate kg/s
231 96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
232 97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
233 98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
234 99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
235 100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
236 101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
```

```
237 102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
238 103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
239 104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
240 105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
241 106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
242 107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
244
*****
*****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
430 instead of Input IC's for the Cavities
431 [0=No, 1=Yes] (ICWASTE) = 0
433 Uniform Cavity Region
434 Uniform Cavity Region
436 -----
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
413 instead of Input IC's for the Waste
414 [0=No, 1=Yes] (ICWASTE) = 0
416 Uniform Waste Region
417 Uniform Waste Region
419 -----
*****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
465 TOL = 1.0000E-02
466 SOCEFFMIN = 1.0000E-03
468 Fracture model will be used? (K FRACTURE): F
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
449 Fracture model will be used? (K FRACTURE): F
*****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
567 Intrinsic reaction rate constants? (LINTRIN): F
569 Reaction rate constants (RK):
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
548 Reaction rate constants (RK):
*****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
577 MgO hydration reaction rate constants:
578 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
579 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
581 Saturation cutoff value (SOCMIN): 0.000000E+00
583 Stoichiometric coeff's for Rxn 1:
584 H2 coefficient = 0.000000E+00
585 H2O coefficient = 0.000000E+00
586 Fe coefficient = 0.000000E+00
587 Bio coefficient = 0.000000E+00
588 Fe(OH)2 coefficient = 0.000000E+00
589 FeS coefficient = 0.000000E+00
590 MgO coefficient = 0.000000E+00
591 Mg(OH)2 coefficient = 0.000000E+00
592 MgCO3 coefficient = 0.000000E+00
594 Stoichiometric coeff's for Rxn 2:
595 H2 coefficient = 0.000000E+00
596 H2O coefficient = 0.000000E+00
597 Fe coefficient = 0.000000E+00
598 Bio coefficient = 0.000000E+00
599 Fe(OH)2 coefficient = 0.000000E+00
600 FeS coefficient = 0.000000E+00
601 MgO coefficient = 0.000000E+00
602 Mg(OH)2 coefficient = 0.000000E+00
603 MgCO3 coefficient = 0.000000E+00
605 Stoichiometric coeff's for Rxn 3:
606 H2 coefficient = 0.000000E+00
607 H2O coefficient = 0.000000E+00
```



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608 Fe coefficient = 0.000000E+00
609 Bio coefficient = 0.000000E+00
610 Fe(OH)2 coefficient = 0.000000E+00
611 FeS coefficient = 0.000000E+00
612 MgO coefficient = 0.000000E+00
613 Mg(OH)2 coefficient = 0.000000E+00
614 MgCO3 coefficient = 0.000000E+00
616 Stoichiometric coeff's for Rxn 4:
617 H2 coefficient = 0.000000E+00
618 H2O coefficient = 0.000000E+00
619 Fe coefficient = 0.000000E+00
620 Bio coefficient = 0.000000E+00
621 Fe(OH)2 coefficient = 0.000000E+00
622 FeS coefficient = 0.000000E+00
623 MgO coefficient = 0.000000E+00
624 Mg(OH)2 coefficient = 0.000000E+00
625 MgCO3 coefficient = 0.000000E+00
627 Stoichiometric coeff's for Rxn 5:
628 H2 coefficient = 0.000000E+00
629 H2O coefficient = 0.000000E+00
630 Fe coefficient = 0.000000E+00
631 Bio coefficient = 0.000000E+00
632 Fe(OH)2 coefficient = 0.000000E+00
633 FeS coefficient = 0.000000E+00
634 MgO coefficient = 0.000000E+00
635 Mg(OH)2 coefficient = 0.000000E+00
636 MgCO3 coefficient = 0.000000E+00
638 Stoichiometric coeff's for Rxn 6:
639 H2 coefficient = 0.000000E+00
640 H2O coefficient = 0.000000E+00
641 Fe coefficient = 0.000000E+00
642 Bio coefficient = 0.000000E+00
643 Fe(OH)2 coefficient = 0.000000E+00
644 FeS coefficient = 0.000000E+00
645 MgO coefficient = 0.000000E+00
646 Mg(OH)2 coefficient = 0.000000E+00
647 MgCO3 coefficient = 0.000000E+00
649 Stoichiometric coeff's for Rxn 7:
650 H2 coefficient = 0.000000E+00
651 H2O coefficient = 0.000000E+00
652 Fe coefficient = 0.000000E+00
653 Bio coefficient = 0.000000E+00
654 Fe(OH)2 coefficient = 0.000000E+00
655 FeS coefficient = 0.000000E+00
656 MgO coefficient = 0.000000E+00
657 Mg(OH)2 coefficient = 0.000000E+00
658 MgCO3 coefficient = 0.000000E+00
660 Wicking term (SATWICK) = 0.000000E+00
661 Humid rates to be smoothed? (LARKN) = F
662 Concentration rates to be smoothed? (LARKN2) = F
663 Humid rate smoothing factor (ALPHARXN) = 2.000000E+03
665 Molecular weights (WM):
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
556 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
557 Gas coefficient = 1.068300E+00
558 H2O coefficient = 1.863300E+00
559 Fe coefficient = 1.000000E+00
561 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
562 Gas coefficient = 1.229000E+00
563 H2O coefficient = 0.000000E+00
564 Bio coefficient = 1.000000E+00
566 Molecular weights (WM):
*****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
669 Bio: 2.7023E-02 kg/mol
671 Molecular weights (WM):
672 Fe(OH)2: 8.9862E-02 kg/mol
673 FeS: 8.7900E-02 kg/mol
674 MgO: 4.0304E-02 kg/mol
```

```
675 Mg(OH)2: 5.8320E-02 kg/mol
676 MgCO3: 8.4314E-02 kg/mol
678 Densities (DEN(1-4)):
679 Fe: 7.8700E+03 kg/m3
680 Fe(OH)2: 3.4000E+03 kg/m3
681 FeS: 4.7000E+03 kg/m3
682 Bio: 1.1000E+03 kg/m3
684 Densities (DEN(5-8)):
685 MgO: 3.6000E+03 kg/m3
686 Mg(OH)2: 2.3700E+03 kg/m3
687 MgCO3: 3.0500E+03 kg/m3
688 SALT: 2.1700E+03 kg/m3
690 Will creep closure be used (CLOSURE): F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
570 Bio: 3.0026E-02 kg/mol
572 Wicking term (SATWICK) = 0.000000E+00
573 Humid rates to be smoothed? (LARXN) = F
574 Humid rate smoothing factor (ALPHARXN) = 2.000000E+03
576 Will creep closure be used (CLOSURE): F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
779 CPU Time (total for run) = 0.06 sec = 0.00002 hr
780 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
665 CPU Time (total for run) = 0.03 sec = 0.00001 hr
666 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
830 Date: 02/13/07 Time: 14:11:35 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
833 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
716 Date: 04/06/06 Time: 15:41:53 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
719 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
842 CPU Time (total for run) = 0.07 sec = 0.00002 hr
843 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
728 CPU Time (total for run) = 0.05 sec = 0.00001 hr
729 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
893 Date: 02/13/07 Time: 14:11:35 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
896 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
779 Date: 04/06/06 Time: 15:41:53 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
782 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
905 CPU Time (total for run) = 0.08 sec = 0.00002 hr
906 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
791 CPU Time (total for run) = 0.05 sec = 0.00001 hr
792 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
956 Date: 02/13/07 Time: 14:11:35 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
961 *****
962 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
963 * Completed: 02/13/07 at 14:11:35 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
964 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
```

```
842 Date: 04/06/06 Time: 15:41:53 CPU Time: 0 0: 0: 0.05 { 0.05 sec) ASCII
847 *****
848 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
849 * Completed: 04/06/06 at 15:41:53 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
850 *****
*****
```

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

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

A.3.4 Test Case 3: Output Difference Files, BF2_QB0600_ES40_TEST3_OUT.DIF and BF2_QB0600_ES45_TEST3_OUT.DIF

BF2_QB0600_ES40_TEST3_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
  3 ** Begun on: 02/14/07 at 08:52:46 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
  4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  3 ** Begun on: 02/13/07 at 14:11:35 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_TEST3.INP;1
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_TEST3.INP;1
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
  779 CPU Time (total for run) = 0.08 sec = 0.00002 hr
  780 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  779 CPU Time (total for run) = 0.06 sec = 0.00002 hr
```

```
780 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
830 Date: 02/14/07 Time: 08:52:46 CPU Time: 0 0: 0: 0.09 { 0.09 sec} ASCII
833 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
830 Date: 02/13/07 Time: 14:11:35 CPU Time: 0 0: 0: 0.06 { 0.06 sec} ASCII
833 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
841 CPU Time (this time step) = 0.00 sec = 0.00000 hr
842 CPU Time (total for run) = 0.10 sec = 0.00003 hr
843 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
841 CPU Time (this time step) = 0.01 sec = 0.00000 hr
842 CPU Time (total for run) = 0.07 sec = 0.00002 hr
843 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
893 Date: 02/14/07 Time: 08:52:46 CPU Time: 0 0: 0: 0.10 { 0.10 sec} ASCII
896 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
893 Date: 02/13/07 Time: 14:11:35 CPU Time: 0 0: 0: 0.07 { 0.07 sec} ASCII
896 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
905 CPU Time (total for run) = 0.11 sec = 0.00003 hr
906 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
905 CPU Time (total for run) = 0.08 sec = 0.00002 hr
906 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
956 Date: 02/14/07 Time: 08:52:46 CPU Time: 0 0: 0: 0.12 { 0.12 sec} ASCII
961 *****
962 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
963 * Completed: 02/14/07 at 08:52:46 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
964 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
956 Date: 02/13/07 Time: 14:11:35 CPU Time: 0 0: 0: 0.08 { 0.08 sec} ASCII
961 *****
962 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
963 * Completed: 02/13/07 at 14:11:35 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
964 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 15

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
```

BF2_QB0600_ES45_TEST3_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1
3 ** Begun on: 02/14/07 at 09:14:54 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
3 ** Begun on: 02/13/07 at 14:11:35 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
```

```
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_TEST3.INP;1
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_TEST3.INP;1
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1
  830 Date: 02/14/07 Time: 09:14:54 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  833 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  830 Date: 02/13/07 Time: 14:11:35 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  833 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1
  841 CPU Time (this time step) = 0.00 sec = 0.00000 hr
  842 CPU Time (total for run) = 0.07 sec = 0.00002 hr
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  841 CPU Time (this time step) = 0.01 sec = 0.00000 hr
  842 CPU Time (total for run) = 0.07 sec = 0.00002 hr
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1
  893 Date: 02/14/07 Time: 09:14:54 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
  896 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  893 Date: 02/13/07 Time: 14:11:35 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
  896 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1
  956 Date: 02/14/07 Time: 09:14:54 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
  961 *****
  962 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  963 * Completed: 02/14/07 at 09:14:54 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
  964 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  956 Date: 02/13/07 Time: 14:11:35 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
  961 *****
  962 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
```

963 * Completed: 02/13/07 at 14:11:35 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
964 *****

Number of difference sections found: 9
Number of difference records found: 12

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES47_TEST3.OUT;1

A.4 Test Case 4 Files

A.4.1 Test Case 4: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST4_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST4.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_Test4.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_Test4.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_Test4.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_Test4.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_Test4.ROT  
$ set noverify  
  
image name: "BRAGFLO_QB0600"  
image file identification: "P QB0600 6.0"  
image file build identification: ""  
link date/time: 12-FEB-2007 14:57:24.36  
linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST4_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST4.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_Test4.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_Test4.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_Test4.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_Test4.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_Test4.ROT  
$ set noverify  
  
image name: "BRAGFLO_QB0600"  
image file identification: "P QB0600 6.0"  
image file build identification: ""  
link date/time: 12-FEB-2007 14:57:24.36  
linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST4_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST4.INP  
$ DEFINE bf2_uifold$input   working_dir:BF2_TEST4_QA0500.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_Test4.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_Test4.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_Test4.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_Test4.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_Test4.ROT
```

```
$ set noverify

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

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

A.4.2 Test Case 4: Input File, BF2_QB0600_TEST4.INP

```
2D VERTICAL INFILTRATION BENCHMARK PROBLEM
FILES: ASCII, BINARY, SUMMARY, RESTART OUTPUT, RESTART INPUT
T F T F F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
  2  21  18  1
TSTART, TMAX, MAXSTEPS
  0.0 28800. 1000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
  0.1 0.1 300. 1.5000E+00 1 1.0000E-02
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
  0
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
  2 0 0 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  3
USER REQUESTED PRINTOUT TIMES
  3600. 7200. 28800.
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  100
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  100
ASCII PRINT FLAGS
1 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
BINARY PRINT FLAGS
1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
HISTORY VARIABLES
  0
MONITOR PARAMETER VALUES AT 1 GRIDBLOCK
T
NUMBER OF MONITOR BLOCKS
  1
MONITOR BLOCK (I,J,K)
  1 10 1
GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
  1 2 1 -3
GRID DATA CARDS: GRID BLOCK DX'S
  0.115 0.15 0.15 0.085 0.075 0.14 0.15 0.15 0.15 0.15
  0.15 0.15 0.15 0.15 0.15 0.155 0.18 0.20 0.20 0.20
  2.00 1.0E-4
GRID DATA CARDS: GRID BLOCK DY'S
  0.30 0.20 0.10 0.05 0.05 0.10 0.10 0.10 0.10 0.10
  0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10
GRID DATA CARDS: GRID BLOCK DZ'S
  20*1.0 1.E6
GRID DATA CARDS: IORG, JORG, KORG, DEPTH, THETAX, THETAY, THETAZ
  1 1 1 0.000000E+00 9.000000E+01 0.000000E+00 0.000000E+00
WELL DATA
  1
  0.0 4
  1 18 1 1
```



```
INJQ
0.0 0.0047201 1.0 1.E-5
2 18 1 1
INJQ
0.0 0.0061566 1.0 1.E-5
3 18 1 1
INJQ
0.0 0.0061566 1.0 1.E-5
4 18 1 1
INJQ
0.0 0.0034888 1.0 1.E-5
DIRICHLET CONDITIONS
F 0
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
21*0.10622565D+06
21*0.10377783D+06
21*0.10230913D+06
21*0.10157478D+06
20*0.10108522D+06 0.101330D+06
20*0.10035087D+06 0.101330D+06
20*0.99371738D+05 0.101330D+06
20*0.98392607D+05 0.101330D+06
20*0.97413476D+05 0.101330D+06
20*0.96434346D+05 0.101330D+06
20*0.95455215D+05 0.101330D+06
20*0.94476084D+05 0.101330D+06
20*0.93496953D+05 0.101330D+06
20*0.92517822D+05 0.101330D+06
20*0.91538691D+05 0.101330D+06
20*0.90559560D+05 0.101330D+06
20*0.89580429D+05 0.101330D+06
20*0.88601299D+05 0.101330D+06
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
21*0.10000000D+01
21*0.10000000D+01
21*0.10000000D+01
21*0.10000000D+01
20*0.99964370D+00 0.000000D+00
20*0.98052838D+00 0.000000D+00
20*0.87090754D+00 0.000000D+00
20*0.67549792D+00 0.000000D+00
20*0.47474155D+00 0.000000D+00
20*0.32120575D+00 0.000000D+00
20*0.21806666D+00 0.000000D+00
20*0.15135593D+00 0.000000D+00
20*0.10800850D+00 0.000000D+00
20*0.79232753D-01 0.000000D+00
20*0.59616072D-01 0.000000D+00
20*0.45879896D-01 0.000000D+00
20*0.36016551D-01 0.000000D+00
20*0.28770300D-01 0.000000D+00
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
378*0.0
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
378*0.0
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
378*0.0
DSATLIM, DPRESLIM, SATLIMIT
1.0000E-01 -1.0000E+07 1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
6.0000E-01 1.0000E+06
DDEPMAX(1), DDEPMAX(2)
1.0000 1.E7
CONVERGENCE TEST FLAG: 0=OR/1=AND
1
EPS_SAT, EPS_PRES: NORMAL CONVERGENCE CRITERIA
7.0000E+00 1.0000E-07
EPS_SAT, EPS_PRES: LOOSER CONVERGENCE CRITERIA
6.0000E+00 1.0000E-06
FTOL_SAT, FTOL_PRES: NORMAL RESIDUALS TOLERANCE
1.0000E-06 1.0000E-06
FTOL_SAT, FTOL_PRES: LOOSER RESIDUALS TOLERANCE
1.0000E-06 1.0000E-06
EPPGAS: RXN PATH TOLS
4*1.E-6
SOLVER TYPE
```

```
LU
ITMAX, IRESETMAX, IJACINT, SCALING, P_SCALE, LVARSWTCH
40      40      1      T      1.E7      F
IUPRPFLAG, IUPMPFLAG, DT_REDU, ITRAVE, IMFAVE
40      40      5.0000E-01  1      0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
40      40      40      40      40
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
1.0000E-08  1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
1.0000E-09  1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
1
START TIME FOR MAP 1
0.0
MATERIAL TYPE GRID MAP
21*1
21*1
21*1
21*1
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
#      NAME
1      WASTE
2      BOUNDARY
NWST
0
NDRZ
0
NMATRESET
0
MAT_BOREHOLE
1
RESET TIME, ICWASTE
0.0      0
POWASTEIC
0.0
SOWASTEIC
0.0
PRESDRZ
0.0
NBORERESET
0
#      LAMBDA      SOR      SGR
1  1.517E+00      0.0      0.1
2  1.000E+00      0.0      0.0
#      SBMIN      POMIN      PCMAX      PCT_A      PCT_EXP      KRP      KPC      KPT
1  0.0      1.01330E5  1.E8  6.40601E+06  0.0      9      1      0
2  0.0      1.01330E5  1.E8  0.0      0.0      10     1      0
#      PERMX      PERMY      PERMZ      POROSITY      COMPRES
1  9.95E-12  9.95E-12  9.95E-12  0.3      0.0
2  9.95E-12  9.95E-12  9.95E-12  0.3      0.0
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02  1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL
F
KLINKENBERG EFFECT
F
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00  8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
293.15  1.01330D+05
```

```
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
0.0 0.9984E+03 0 0 2.5000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.0000E-03 17.9E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
0
GAS MOLE FRACTIONS FOR H2, CO2, CH4, AND N2
0.0000E+00 0.0000E+00 0.0000E+00 1.0000E+00 0.0000E+00 0.0000E+00
GAS MOLE CULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONET NUMBER (N1GAS)
1 4
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.0000D+00 +0.0000D+00
IGASVAR (1=GENERATION USING REACTION SOURCE; 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
0.0 0.0 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0 0.0
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0 0.0
RATE COEFFICIENTS: RXH2S AND RXCO2
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
WICKING SATN, HUMID SMOOTHING, ALPHARXN
0.0 F F 2000.
WILL CREEP CLOSURE BE ACTIVATED? IF .TRUE., 0=MOLE-BASED; 1=PRESSURE-BASED
F 0
WILL TRANSPORT BE CALCULATED?
F
WILL RADIONUCLIDE DECAY BE ACTIVATED?
F
RXN PATH?
F
```

A.4.3 Test Case 4: Output Difference File, BF2_QB0600_ES47_TEST4_OUT.DIF

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

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  2  ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
  3  ** Begun on: 02/13/07 at 14:11:41 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
  2  ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
  3  ** Begun on: 04/06/06 at 15:43:40 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_TEST4.INP;1
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
  61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST4]BF2_TEST4_QA0500.INP;2
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
  66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST4]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
  71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
  76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  126 Restart output timestep interval (IPRNTRST) = 100
  128 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
  126 Restart output timestep interval (IPRNTRST) =100
  128 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  179 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  180 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  181 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  182 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  183 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
```

184 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
185 49 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
186 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
187 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
188 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
189 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
190 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
191 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
192 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
193 57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
194 58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
195 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
196 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
197 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
198 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
199 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
200 64 0 0 CONCST Salt concentration -- simple model kg/m^3
201 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
202 66 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
203 67 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
204 68 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
205 69 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
206 70 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
207 71 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
208 72 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
209 73 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
210 74 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
211 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
212 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
213 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
214 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
215 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
216 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
217 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
218 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
219 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
220 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
221 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
222 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
223 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
224 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
225 89 0 0 CONCRXN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
226 90 0 0 CONCRXN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
227 91 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
228 92 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
229 93 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
230 94 0 0 CONCRXN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
231 95 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
232 96 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
233 97 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
234 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
235 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
236 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
237 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
238 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
239 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
240 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
241 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
242 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
243 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
244 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
245 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
246 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
247 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
248 112 0 0 H2OFLOWIN Water inflow rate kg/s
249 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
250 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
251 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
252 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
253 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3

254 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
255 119 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
256 120 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg
257 121 0 0 B_CONC(1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
258 122 0 0 B_CONC(1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
259 123 0 0 S_MASS(1,1) Solid mass of isotope 1 from Waste Region 1 kg
260 124 0 0 S_MASS(1,2) Solid mass of isotope 1 from Waste Region 2 kg
262

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
179 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
180 44 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
181 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
182 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
183 47 0 0 CONCFE Fe concentration -- simple model kg/m^3
184 48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
185 49 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
186 50 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
187 51 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
188 52 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
189 53 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
190 54 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
191 55 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
192 56 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
193 57 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
194 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
195 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
196 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
197 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
198 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
199 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
200 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
201 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
202 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
203 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
204 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
205 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
206 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
207 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
208 72 0 0 CONCRXN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
209 73 0 0 CONCRXN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
210 74 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
211 75 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
212 76 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
213 77 0 0 CONCRXN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
214 78 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
215 79 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
216 80 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
217 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
218 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
219 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
220 84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
221 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
222 86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
223 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
224 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
225 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
226 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
227 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
228 92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
229 93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
230 94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
231 95 0 0 H2OFLOWIN Water inflow rate kg/s
232 96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
233 97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
234 98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
235 99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
236 100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
237 101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
238 102 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
239 103 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg
240 104 0 0 B_CONC(1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
241 105 0 0 B_CONC(1,2) Conc of isotope 1 from Waste Region 2 kg/m^3

```
242 106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
243 107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
245
*****
*****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
473 instead of Input IC's for the Cavities
474 [0=No, 1=Yes] (ICWASTE) = 0
475 Uniform Cavity Region
476 Uniform Cavity Region
477 Uniform Cavity Region
479 -----
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
456 instead of Input IC's for the Waste
457 [0=No, 1=Yes] (ICWASTE) = 0
459 Uniform Waste Region
460 Uniform Waste Region
462 -----
*****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
509 TOL = 1.0000E-02
510 SOCEFFMIN = 1.0000E-03
512 Fracture model will be used? (K FRACTURE): F
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
493 Fracture model will be used? (K FRACTURE): F
*****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
611 Intrinsic reaction rate constants? (LINTRIN): F
613 Reaction rate constants (RK):
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
592 Reaction rate constants (RK):
*****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
621 MgO hydration reaction rate constants:
622 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
623 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
625 Saturation cutoff value (SOCMIN): 0.000000E+00
627 Stoichiometric coeff's for Rxn 1:
628 H2 coefficient = 0.000000E+00
629 H2O coefficient = 0.000000E+00
630 Fe coefficient = 0.000000E+00
631 Bio coefficient = 0.000000E+00
632 Fe(OH)2 coefficient = 0.000000E+00
633 FeS coefficient = 0.000000E+00
634 MgO coefficient = 0.000000E+00
635 Mg(OH)2 coefficient = 0.000000E+00
636 MgCO3 coefficient = 0.000000E+00
638 Stoichiometric coeff's for Rxn 2:
639 H2 coefficient = 0.000000E+00
640 H2O coefficient = 0.000000E+00
641 Fe coefficient = 0.000000E+00
642 Bio coefficient = 0.000000E+00
643 Fe(OH)2 coefficient = 0.000000E+00
644 FeS coefficient = 0.000000E+00
645 MgO coefficient = 0.000000E+00
646 Mg(OH)2 coefficient = 0.000000E+00
647 MgCO3 coefficient = 0.000000E+00
649 Stoichiometric coeff's for Rxn 3:
650 H2 coefficient = 0.000000E+00
651 H2O coefficient = 0.000000E+00
652 Fe coefficient = 0.000000E+00
653 Bio coefficient = 0.000000E+00
654 Fe(OH)2 coefficient = 0.000000E+00
```

```
655 FeS coefficient = 0.000000E+00
656 MgO coefficient = 0.000000E+00
657 Mg(OH)2 coefficient = 0.000000E+00
658 MgCO3 coefficient = 0.000000E+00
660 Stoichiometric coeff's for Rxn 4:
661 H2 coefficient = 0.000000E+00
662 H2O coefficient = 0.000000E+00
663 Fe coefficient = 0.000000E+00
664 Bio coefficient = 0.000000E+00
665 Fe(OH)2 coefficient = 0.000000E+00
666 FeS coefficient = 0.000000E+00
667 MgO coefficient = 0.000000E+00
668 Mg(OH)2 coefficient = 0.000000E+00
669 MgCO3 coefficient = 0.000000E+00
671 Stoichiometric coeff's for Rxn 5:
672 H2 coefficient = 0.000000E+00
673 H2O coefficient = 0.000000E+00
674 Fe coefficient = 0.000000E+00
675 Bio coefficient = 0.000000E+00
676 Fe(OH)2 coefficient = 0.000000E+00
677 FeS coefficient = 0.000000E+00
678 MgO coefficient = 0.000000E+00
679 Mg(OH)2 coefficient = 0.000000E+00
680 MgCO3 coefficient = 0.000000E+00
682 Stoichiometric coeff's for Rxn 6:
683 H2 coefficient = 0.000000E+00
684 H2O coefficient = 0.000000E+00
685 Fe coefficient = 0.000000E+00
686 Bio coefficient = 0.000000E+00
687 Fe(OH)2 coefficient = 0.000000E+00
688 FeS coefficient = 0.000000E+00
689 MgO coefficient = 0.000000E+00
690 Mg(OH)2 coefficient = 0.000000E+00
691 MgCO3 coefficient = 0.000000E+00
693 Stoichiometric coeff's for Rxn 7:
694 H2 coefficient = 0.000000E+00
695 H2O coefficient = 0.000000E+00
696 Fe coefficient = 0.000000E+00
697 Bio coefficient = 0.000000E+00
698 Fe(OH)2 coefficient = 0.000000E+00
699 FeS coefficient = 0.000000E+00
700 MgO coefficient = 0.000000E+00
701 Mg(OH)2 coefficient = 0.000000E+00
702 MgCO3 coefficient = 0.000000E+00
704 Wicking term (SATWICK) = 0.000000E+00
705 Humid rates to be smoothed? (LARKN) = F
706 Concentration rates to be smoothed? (LARKN2) = F
707 Humid rate smoothing factor (ALPHARKN) = 2.000000E+03
709 Molecular weights (WM):
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
600 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
601 Gas coefficient = 1.068300E+00
602 H2O coefficient = 1.863300E+00
603 Fe coefficient = 1.000000E+00
605 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
606 Gas coefficient = 1.229000E+00
607 H2O coefficient = 0.000000E+00
608 Bio coefficient = 1.000000E+00
610 Molecular weights (WM):
*****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
713 Bio: 2.7023E-02 kg/mol
715 Molecular weights (WM):
716 Fe(OH)2: 8.9862E-02 kg/mol
717 FeS: 8.7900E-02 kg/mol
718 MgO: 4.0304E-02 kg/mol
719 Mg(OH)2: 5.8320E-02 kg/mol
720 MgCO3: 8.4314E-02 kg/mol
722 Densities (DEN(1-4)):
```



```
723 Fe: 7.8700E+03 kg/m3
724 Fe(OH)2: 3.4000E+03 kg/m3
725 FeS: 4.7000E+03 kg/m3
726 Bio: 1.1000E+03 kg/m3
728 Densities (DEN(5-8)):
729 MgO: 3.6000E+03 kg/m3
730 Mg(OH)2: 2.3700E+03 kg/m3
731 MgCO3: 3.0500E+03 kg/m3
732 SALT: 2.1700E+03 kg/m3
734 Will creep closure be used (CLOSURE): F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
614 Bio: 3.0026E-02 kg/mol
616 Wicking term (SATWICK) = 0.000000E+00
617 Humid rates to be smoothed? (LARXN) = F
618 Humid rate smoothing factor (ALPHARXN) = 2.000000E+03
620 Will creep closure be used (CLOSURE): F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
1189 CPU Time (this time step) = 0.08 sec = 0.00002 hr
1190 CPU Time (total for run) = 2.26 sec = 0.00063 hr
1191 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
1075 CPU Time (this time step) = 0.05 sec = 0.00001 hr
1076 CPU Time (total for run) = 1.65 sec = 0.00046 hr
1077 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
1486 Date: 02/13/07 Time: 14:11:43 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) ASCII
1489 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
1372 Date: 04/06/06 Time: 15:43:42 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) ASCII
1375 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
1497 CPU Time (this time step) = 0.11 sec = 0.00003 hr
1498 CPU Time (total for run) = 3.28 sec = 0.00091 hr
1499 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
1383 CPU Time (this time step) = 0.08 sec = 0.00002 hr
1384 CPU Time (total for run) = 2.39 sec = 0.00066 hr
1385 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
1794 Date: 02/13/07 Time: 14:11:44 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) ASCII
1797 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
1680 Date: 04/06/06 Time: 15:43:43 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) ASCII
1683 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
1805 CPU Time (this time step) = 0.06 sec = 0.00002 hr
1806 CPU Time (total for run) = 8.38 sec = 0.00233 hr
1807 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
1691 CPU Time (this time step) = 0.04 sec = 0.00001 hr
1692 CPU Time (total for run) = 6.05 sec = 0.00168 hr
1693 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
2102 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 8.38 ( 8.38 sec) ASCII
2107 *****
2108 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
2109 * Completed: 02/13/07 at 14:11:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
```

```
2110 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
1988 Date: 04/06/06 Time: 15:43:46 CPU Time: 0 0: 0: 6.06 ( 6.06 sec) ASCII
1993 *****
1994 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
1995 * Completed: 04/06/06 at 15:43:46 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
1996 *****
*****
```

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

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

A.4.4 Test Case 4: Output Difference Files, BF2_QB0600_ES40_TEST4_OUT.DIF and BF2_QB0600_ES45_TEST4_OUT.DIF

BF2_QB0600_ES40_TEST4_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
3 ** Begun on: 02/14/07 at 08:52:51 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
3 ** Begun on: 02/13/07 at 14:11:41 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_TEST4.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_TEST4.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
1189 CPU Time (this time step) = 0.11 sec = 0.00003 hr
1190 CPU Time (total for run) = 3.26 sec = 0.00091 hr
```

```
1191 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
1189 CPU Time (this time step) = 0.08 sec = 0.00002 hr
1190 CPU Time (total for run) = 2.26 sec = 0.00063 hr
1191 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
1486 Date: 02/14/07 Time: 08:52:55 CPU Time: 0 0: 0: 3.26 ( 3.26 sec) ASCII
1489 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
1486 Date: 02/13/07 Time: 14:11:43 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) ASCII
1489 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
1497 CPU Time (this time step) = 0.16 sec = 0.00004 hr
1498 CPU Time (total for run) = 4.74 sec = 0.00132 hr
1499 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
1497 CPU Time (this time step) = 0.11 sec = 0.00003 hr
1498 CPU Time (total for run) = 3.28 sec = 0.00091 hr
1499 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
1794 Date: 02/14/07 Time: 08:52:56 CPU Time: 0 0: 0: 4.75 ( 4.75 sec) ASCII
1797 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
1794 Date: 02/13/07 Time: 14:11:44 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) ASCII
1797 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
1805 CPU Time (this time step) = 0.08 sec = 0.00002 hr
1806 CPU Time (total for run) = 12.09 sec = 0.00336 hr
1807 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
1805 CPU Time (this time step) = 0.06 sec = 0.00002 hr
1806 CPU Time (total for run) = 8.38 sec = 0.00233 hr
1807 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
2102 Date: 02/14/07 Time: 08:53:04 CPU Time: 0 0: 0: 12.10 ( 12.10 sec) ASCII
2107 *****
2108 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
2109 * Completed: 02/14/07 at 08:53:04 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
2110 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
2102 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 8.38 ( 8.38 sec) ASCII
2107 *****
2108 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
2109 * Completed: 02/13/07 at 14:11:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
2110 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 17

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
```

BF2_QB0600_ES45_TEST4_OUT.DIF

Information Only

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
  3  ** Begun on: 02/14/07 at 09:14:58 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
  4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  3  ** Begun on: 02/13/07 at 14:11:41 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_TEST4.INP;1
  62 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_TEST4.INP;1
  62 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_CLOSURE.DAT;1
  67 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_CLOSURE.DAT;1
  67 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
  72 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  72 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.SUM;1
  77 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.SUM;1
  77 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
 1189 CPU Time (this time step) = 0.07 sec = 0.00002 hr
 1190 CPU Time (total for run) = 2.12 sec = 0.00059 hr
 1191 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 1189 CPU Time (this time step) = 0.08 sec = 0.00002 hr
 1190 CPU Time (total for run) = 2.26 sec = 0.00063 hr
 1191 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
 1486 Date: 02/14/07 Time: 09:15:00 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) ASCII
 1489 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 1486 Date: 02/13/07 Time: 14:11:43 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) ASCII
 1489 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
 1498 CPU Time (total for run) = 3.08 sec = 0.00086 hr
 1499 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 1498 CPU Time (total for run) = 3.28 sec = 0.00091 hr
 1499 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
 1794 Date: 02/14/07 Time: 09:15:01 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) ASCII
```

```
1797 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
1794 Date: 02/13/07 Time: 14:11:44 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) ASCII
1797 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
1805 CPU Time (this time step) = 0.05 sec = 0.00001 hr
1806 CPU Time (total for run) = 7.79 sec = 0.00216 hr
1807 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
1805 CPU Time (this time step) = 0.06 sec = 0.00002 hr
1806 CPU Time (total for run) = 8.38 sec = 0.00233 hr
1807 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
2102 Date: 02/14/07 Time: 09:15:06 CPU Time: 0 0: 0: 7.80 ( 7.80 sec) ASCII
2107 *****
2108 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
2109 * Completed: 02/14/07 at 09:15:06 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
2110 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
2102 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 8.38 ( 8.38 sec) ASCII
2107 *****
2108 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
2109 * Completed: 02/13/07 at 14:11:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
2110 *****
*****

Number of difference sections found: 11
Number of difference records found: 16

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4_OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4_OUT;1
```

A.5 Test Case 5 Files

A.5.1 Test Case 5: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST5_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST5.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_Test5.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_Test5.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_Test5.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_Test5.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_Test5.ROT  
$ set noverify  
  
image name: "BRAGFLO_QB0600"  
image file identification: "P QB0600 6.0"  
image file build identification: ""  
link date/time: 12-FEB-2007 14:57:24.36  
linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST5_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST5.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_Test5.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_Test5.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_Test5.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_Test5.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_Test5.ROT  
$ set noverify  
  
image name: "BRAGFLO_QB0600"  
image file identification: "P QB0600 6.0"  
image file build identification: ""  
link date/time: 12-FEB-2007 14:57:24.36  
linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST5_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST5.INP  
$ DEFINE bf2_uifold$input   working_dir:BF2_TEST5_QA0500.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_Test5.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_Test5.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_Test5.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_Test5.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_Test5.ROT
```



```
1.0000E-09 1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
1
START TIME FOR MAP 1
0.0
MATERIAL TYPE GRID MAP
231*1
# NAME
1 WASTE
NWST
1
WASTE INITIAL, FINAL
1 1
NDRZ
0
NMATRESET
0
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000 0
POWASTEIC
0.
SOWASTEIC
0.
PRESDRZ
0.
NBORERESET
0
# LAMBDA SOR SGR
1 0.7 0.2 0.00001
# SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KPT
1 1.0 1.013250E+05 1.0E+08 1.0E+06 0.0 4 2 0
# PERMX PERMY PERMZ POROSITY COMPRES
1 1.00000E-17 1.00000E-17 1.00000E-17 0.45 1.0E-8
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
F
KLINKENBERG EFFECT TO BE USED? True or False
F
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01320E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
0.0 996.629 0 0 4.45E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
8.5077E-4 9.0829E-6
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE; =-2 IDEAL GAS LAW
-2
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0 0.0
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONET NUMBER (N1GAS)
1 1
IGASVAR (1=GENERATION USING REACTION SOURCE; 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
0.0 0.0 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0 0.0
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0 0.0
RATE COEFFICIENTS: RXH2S AND RXCO2
0.0 0.0
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
```

```
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.4000E+03 4.7000E+03 1.1000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.3700E+03 3.0500E+03 2.1700E+03
WICKING SATURATION, HUMID SMOOTHING, ALPHARXN
0.0 F F 1000.
CREEP CLOSURE? IF .TRUE., 0=MOLE-BASED; 1=PRESSURE-BASED, PRES_LITHO TIME_INTRU
F
RADIOACTIVE DECAY?
F
WILL TRANSPORT BE CALCULATED? T or F
F
RXN PATH
F
```

A.5.3 Test Case 5: Output Difference File, BF2_QB0600_ES47_TEST5_OUT.DIF

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

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
2  ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3  ** Begun on: 02/13/07 at 14:11:43 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
2  ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3  ** Begun on: 04/06/06 at 15:50:58 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
61  PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_TEST5.INP;1
62  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
61  PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST5]BF2_TEST5_QA0500.INP;2
62  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
66  PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_CLOSURE.DAT;1
67  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
66  PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST5]BF2_CLOSURE.DAT;1
67  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
71  PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
72  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
71  PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
72  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
76  PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.SUM;1
77  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
76  PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.SUM;1
```

```
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
126 Restart output timestep interval (IPRNRTRST) = 999
128
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
126 Restart output timestep interval (IPRNRTRST) =999
128
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
179 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
180 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
181 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
182 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
183 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
184 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
185 49 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
186 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
187 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
188 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
189 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
190 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
191 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
192 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
193 57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
194 58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
195 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
196 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
197 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
198 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
199 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
200 64 0 0 CONCONST Salt concentration -- simple model kg/m^3
201 65 0 0 POROLID Volume fraction of generated solids dimensionless
202 66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
203 67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
204 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
205 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
206 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
207 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
208 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
209 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
210 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
211 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
212 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
213 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
214 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
215 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
216 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
217 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
218 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
219 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
220 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
221 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
222 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
223 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
224 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
225 89 0 0 CONCRKN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
226 90 0 0 CONCRKN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
227 91 0 0 CONCRKN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
228 92 0 0 CONCRKN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
229 93 0 0 CONCRKN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
230 94 0 0 CONCRKN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
231 95 0 0 CONCRKN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
232 96 0 0 CONCRKN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
```

233 97 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
234 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
235 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
236 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
237 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
238 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
239 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
240 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
241 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
242 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
243 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
244 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
245 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
246 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
247 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
248 112 0 0 H2OFLOWIN Water inflow rate kg/s
249 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
250 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
251 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
252 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
253 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
254 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
255 119 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
256 120 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg
257 121 0 0 B_CONC(1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
258 122 0 0 B_CONC(1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
259 123 0 0 S_MASS(1,1) Solid mass of isotope 1 from Waste Region 1 kg
260 124 0 0 S_MASS(1,2) Solid mass of isotope 1 from Waste Region 2 kg
262

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TESTS.OUT;1

179 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
180 44 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
181 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
182 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
183 47 0 0 CONCFE Fe concentration -- simple model kg/m^3
184 48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
185 49 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
186 50 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
187 51 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
188 52 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
189 53 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
190 54 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
191 55 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
192 56 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
193 57 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
194 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
195 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
196 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
197 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
198 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
199 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
200 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
201 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
202 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
203 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
204 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
205 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
206 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
207 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
208 72 0 0 CONCRXN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
209 73 0 0 CONCRXN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
210 74 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
211 75 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
212 76 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
213 77 0 0 CONCRXN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
214 78 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
215 79 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
216 80 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
217 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
218 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3

```
219 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
220 84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
221 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
222 86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
223 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
224 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
225 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
226 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
227 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
228 92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
229 93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
230 94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
231 95 0 0 H2OFLOWIN Water inflow rate kg/s
232 96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
233 97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
234 98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
235 99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
236 100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
237 101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
238 102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
239 103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
240 104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
241 105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
242 106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
243 107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
245
*****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 458 instead of Input IC's for the Cavities
 459 [0=No, 1=Yes] (ICWASTE) = 0
 461 Uniform Cavity Region
 462 Uniform Cavity Region
 464 -----
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
 441 instead of Input IC's for the Waste
 442 [0=No, 1=Yes] (ICWASTE) = 0
 444 Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 0.00000E+00 Pa
 445 Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
 447 -----
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 493 TOL = 1.0000E-02
 494 SOCEFFMIN = 1.0000E-03
 496 Fracture model will be used? (KRACTURE): F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
 477 Fracture model will be used? (KRACTURE): F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 543 Intrinsic reaction rate constants? (LINTRIN): F
 545 Reaction rate constants (RK):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
 524 Reaction rate constants (RK):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 553 MgO hydration reaction rate constants:
 554 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
 555 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
 557 Gas generation factors for biodegradation reaction:
 558 Waste Area # 1
 559 H2/H2S production (RXH2S) = 0.000000E+00
 560 CO2 production (RXCO2) = 0.000000E+00
 562 Saturation cutoff value (SOCMIN): 0.000000E+00
 564 Stoichiometric coeff's for Rkn 1:
```

565 H2 coefficient = 0.000000E+00
566 H2O coefficient = 0.000000E+00
567 Fe coefficient = 0.000000E+00
568 Bio coefficient = 0.000000E+00
569 Fe(OH)2 coefficient = 0.000000E+00
570 FeS coefficient = 0.000000E+00
571 MgO coefficient = 0.000000E+00
572 Mg(OH)2 coefficient = 0.000000E+00
573 MgCO3 coefficient = 0.000000E+00
575 Stoichiometric coeff's for Rxn 2:
576 H2 coefficient = 0.000000E+00
577 H2O coefficient = 0.000000E+00
578 Fe coefficient = 0.000000E+00
579 Bio coefficient = 0.000000E+00
580 Fe(OH)2 coefficient = 0.000000E+00
581 FeS coefficient = 0.000000E+00
582 MgO coefficient = 0.000000E+00
583 Mg(OH)2 coefficient = 0.000000E+00
584 MgCO3 coefficient = 0.000000E+00
586 Stoichiometric coeff's for Rxn 3:
587 H2 coefficient = 0.000000E+00
588 H2O coefficient = 0.000000E+00
589 Fe coefficient = 0.000000E+00
590 Bio coefficient = 0.000000E+00
591 Fe(OH)2 coefficient = 0.000000E+00
592 FeS coefficient = 0.000000E+00
593 MgO coefficient = 0.000000E+00
594 Mg(OH)2 coefficient = 0.000000E+00
595 MgCO3 coefficient = 0.000000E+00
597 Stoichiometric coeff's for Rxn 4:
598 H2 coefficient = 0.000000E+00
599 H2O coefficient = 0.000000E+00
600 Fe coefficient = 0.000000E+00
601 Bio coefficient = 0.000000E+00
602 Fe(OH)2 coefficient = 0.000000E+00
603 FeS coefficient = 0.000000E+00
604 MgO coefficient = 0.000000E+00
605 Mg(OH)2 coefficient = 0.000000E+00
606 MgCO3 coefficient = 0.000000E+00
608 Stoichiometric coeff's for Rxn 5:
609 H2 coefficient = 0.000000E+00
610 H2O coefficient = 0.000000E+00
611 Fe coefficient = 0.000000E+00
612 Bio coefficient = 0.000000E+00
613 Fe(OH)2 coefficient = 0.000000E+00
614 FeS coefficient = 0.000000E+00
615 MgO coefficient = 0.000000E+00
616 Mg(OH)2 coefficient = 0.000000E+00
617 MgCO3 coefficient = 0.000000E+00
619 Stoichiometric coeff's for Rxn 6:
620 H2 coefficient = 0.000000E+00
621 H2O coefficient = 0.000000E+00
622 Fe coefficient = 0.000000E+00
623 Bio coefficient = 0.000000E+00
624 Fe(OH)2 coefficient = 0.000000E+00
625 FeS coefficient = 0.000000E+00
626 MgO coefficient = 0.000000E+00
627 Mg(OH)2 coefficient = 0.000000E+00
628 MgCO3 coefficient = 0.000000E+00
630 Stoichiometric coeff's for Rxn 7:
631 H2 coefficient = 0.000000E+00
632 H2O coefficient = 0.000000E+00
633 Fe coefficient = 0.000000E+00
634 Bio coefficient = 0.000000E+00
635 Fe(OH)2 coefficient = 0.000000E+00
636 FeS coefficient = 0.000000E+00
637 MgO coefficient = 0.000000E+00
638 Mg(OH)2 coefficient = 0.000000E+00
639 MgCO3 coefficient = 0.000000E+00
641 Wicking term (SATWICK) = 0.000000E+00

```
642 . Humid rates to be smoothed? (LARKN) = F
643 Concentration rates to be smoothed? (LARKN2) = F
644 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
646 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
532 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
533 Gas coefficient = 1.173000E+00
534 H2O coefficient = 1.654000E+00
535 Fe coefficient = 1.000000E+00
537 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
538 Gas coefficient = 7.677000E-01
539 H2O coefficient = 0.000000E+00
540 Bio coefficient = 1.000000E+00
542 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
650 Bio: 2.7023E-02 kg/mol
652 Molecular weights (WM):
653 Fe(OH)2: 8.9862E-02 kg/mol
654 FeS: 8.7900E-02 kg/mol
655 MgO: 4.0304E-02 kg/mol
656 Mg(OH)2: 5.8320E-02 kg/mol
657 MgCO3: 8.4314E-02 kg/mol
659 Densities (DEN(1-4)):
660 Fe: 7.8700E+03 kg/m3
661 Fe(OH)2: 3.4000E+03 kg/m3
662 FeS: 4.7000E+03 kg/m3
663 Bio: 1.1000E+03 kg/m3
665 Densities (DEN(5-8)):
666 MgO: 3.6000E+03 kg/m3
667 Mg(OH)2: 2.3700E+03 kg/m3
668 MgCO3: 3.0500E+03 kg/m3
669 SALT: 2.1700E+03 kg/m3
671 Will creep closure be used (CLOSURE): F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
546 Bio: 3.0026E-02 kg/mol
548 Wicking term (SATWICK) = 0.000000E+00
549 Humid rates to be smoothed? (LARKN) = F
550 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
552 Will creep closure be used (CLOSURE): F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
1142 Date: 02/13/07 Time: 14:11:44 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
1145 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
1023 Date: 04/06/06 Time: 15:50:58 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
1026 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
1153 CPU Time (this time step) = 0.03 sec = 0.00001 hr
1154 CPU Time (total for run) = 3.00 sec = 0.00083 hr
1155 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
1034 CPU Time (this time step) = 0.02 sec = 0.00001 hr
1035 CPU Time (total for run) = 2.12 sec = 0.00059 hr
1036 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
1300 Date: 02/13/07 Time: 14:11:46 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) ASCII
1303 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
1181 Date: 04/06/06 Time: 15:51:00 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) ASCII
1184 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
1311 CPU Time (this time step) = 0.04 sec = 0.00001 hr
1312 CPU Time (total for run) = 4.48 sec = 0.00124 hr
1313 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
1192 CPU Time (this time step) = 0.02 sec = 0.00001 hr
1193 CPU Time (total for run) = 3.17 sec = 0.00088 hr
1194 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
1458 Date: 02/13/07 Time: 14:11:48 CPU Time: 0 0: 0: 4.48 ( 4.48 sec) ASCII
1463 *****
1464 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
1465 * Completed: 02/13/07 at 14:11:48 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
1466 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
1339 Date: 04/06/06 Time: 15:51:01 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) ASCII
1344 *****
1345 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
1346 * Completed: 04/06/06 at 15:51:01 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
1347 *****
*****
```

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

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

A.5.4 Test Case 5: Output Difference Files, BF2_QB0600_ES40_TEST5_OUT.DIF and BF2_QB0600_ES45_TEST5_OUT.DIF

BF2_QB0600_ES40_TEST5_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
3 ** Begun on: 02/14/07 at 08:52:56 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
3 ** Begun on: 02/13/07 at 14:11:43 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_TEST5.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_TEST5.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
```



```
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
1142 Date: 02/14/07 Time: 08:52:56 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
1145 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
1142 Date: 02/13/07 Time: 14:11:44 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
1145 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
1154 CPU Time (total for run) = 4.33 sec = 0.00120 hr
1155 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
1154 CPU Time (total for run) = 3.00 sec = 0.00083 hr
1155 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
1300 Date: 02/14/07 Time: 08:53:00 CPU Time: 0 0: 0: 4.33 ( 4.33 sec) ASCII
1303 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
1300 Date: 02/13/07 Time: 14:11:46 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) ASCII
1303 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
1311 CPU Time (this time step) = 0.05 sec = 0.00001 hr
1312 CPU Time (total for run) = 6.45 sec = 0.00179 hr
1313 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
1311 CPU Time (this time step) = 0.04 sec = 0.00001 hr
1312 CPU Time (total for run) = 4.48 sec = 0.00124 hr
1313 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
1458 Date: 02/14/07 Time: 08:53:03 CPU Time: 0 0: 0: 6.45 ( 6.45 sec) ASCII
1463 *****
1464 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
1465 * Completed: 02/14/07 at 08:53:03 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
1466 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
1458 Date: 02/13/07 Time: 14:11:48 CPU Time: 0 0: 0: 4.48 ( 4.48 sec) ASCII
1463 *****
1464 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
1465 * Completed: 02/13/07 at 14:11:48 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
1466 *****
*****
```

Number of difference sections found: 10
Number of difference records found: 14

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1

BF2_QB0600_ES45_TEST5_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
  3  ** Begun on: 02/14/07 at 09:15:02 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
  3  ** Begun on: 02/13/07 at 14:11:43 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_TEST5.INP;1
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_TEST5.INP;1
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
 1142 Date: 02/14/07 Time: 09:15:02 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
 1145 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 1142 Date: 02/13/07 Time: 14:11:44 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1145 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
 1154 CPU Time (total for run) = 2.86 sec = 0.00079 hr
 1155 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 1154 CPU Time (total for run) = 3.00 sec = 0.00083 hr
 1155 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
 1300 Date: 02/14/07 Time: 09:15:05 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) ASCII
 1303 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 1300 Date: 02/13/07 Time: 14:11:46 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) ASCII
 1303 *****
*****
```

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
1311 CPU Time (this time step) = 0.03 sec = 0.00001 hr
1312 CPU Time (total for run) = 4.26 sec = 0.00118 hr
1313 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
1311 CPU Time (this time step) = 0.04 sec = 0.00001 hr
1312 CPU Time (total for run) = 4.48 sec = 0.00124 hr
1313 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
1458 Date: 02/14/07 Time: 09:15:07 CPU Time: 0 0: 0: 4.26 ( 4.26 sec) ASCII
1463 *****
1464 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
1465 * Completed: 02/14/07 at 09:15:07 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
1466 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
1458 Date: 02/13/07 Time: 14:11:48 CPU Time: 0 0: 0: 4.48 ( 4.48 sec) ASCII
1463 *****
1464 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
1465 * Completed: 02/13/07 at 14:11:48 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
1466 *****
*****
```

Number of difference sections found: 10
Number of difference records found: 14

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
```

A.6 Test Case 6 Files

A.6.1 Test Case 6: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST6_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST6.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_Test6.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_Test6.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_Test6.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_Test6.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_Test6.ROT  
$ set noverify  
  
image name: "BRAGFLO_QB0600"  
image file identification: "P QB0600 6.0"  
image file build identification: ""  
link date/time: 12-FEB-2007 14:57:24.36  
linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST6_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST6.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_Test6.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_Test6.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_Test6.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_Test6.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_Test6.ROT  
$ set noverify  
  
image name: "BRAGFLO_QB0600"  
image file identification: "P QB0600 6.0"  
image file build identification: ""  
link date/time: 12-FEB-2007 14:57:24.36  
linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST6_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST6.INP  
$ DEFINE bf2_uifold$input   working_dir:BF2_TEST6_QA0500.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_Test6.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_Test6.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_Test6.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_Test6.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_Test6.ROT
```

```
$ set noverify

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

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

A.6.2 Test Case 6: Input File, BF2_QB0600_TEST6.INP

```
1996 BF2_TEST6: QA Test Case #6.
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
  2 31 27 1
TSTART, TMAX, MAXSTEPS
-1.5779E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
 8.6400E+00 8.6400E-04 1.7280E+09 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
 3
 0.0000E+00 8.6400E+02
 3.1666E+09 8.6400E+02
 3.1666E+10 8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
 2 0 2 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
 5
USER REQUESTED PRINTOUT TIMES (0, 200, 900, 1001, 10000 YEARS)
 0.0000E+00 6.3114E+09 2.840123E+10 3.1558848E+10 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
 20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
 1
USER REQUESTED RESTART TIMES
 3.1557E+11
ASCII PRINT FLAGS
1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 1
1 1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 1 0 0 0 0 0 0 1 1 1
1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
BINARY PRINT FLAGS
1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 1
1 1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 1 0 0 0 0 0 0 1 1 1
1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
HISTORY VARIABLE OUTPUT
 8
 1 4 NAME=BRINE PRESSURE
11 8 1 17 8 1 11 1 1 22 6 1
 2 1 NAME=GAS PRESSURE
22 12 1
 10 6 NAME=GAS DENSITY
 7 6 1 7 12 1 7 14 1 25 6 1 25 12 1 25 14 1
 18 30 NAME=GAS SATURATION
 8 8 1 9 8 1 10 8 1 11 8 1 12 8 1 13 8 1
14 8 1 8 9 1 9 9 1 10 9 1 11 9 1 12 9 1
13 9 1 14 9 1 8 10 1 9 10 1 10 10 1 11 10 1
12 10 1 13 10 1 14 10 1 16 8 1 17 8 1 18 8 1
16 9 1 17 9 1 18 9 1 16 10 1 17 10 1 18 10 1
 31 140 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
 3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
 8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
```

16	8	1	16	9	1	16	10	1	19	8	1	19	9	1	19	10	1	
8	8	1	8	9	1	8	10	1	15	8	1	15	9	1	15	10	1	
22	6	1	22	7	1	22	8	1	22	9	1	22	10	1	22	11	1	
22	12	1	22	13	1	22	14	1	22	15	1	22	16	1	22	17	1	
22	18	1	22	19	1	22	20	1	22	21	1	22	22	1	22	23	1	
22	24	1	22	25	1	22	26	1	22	27	1	23	6	1	23	7	1	
23	8	1	23	9	1	23	10	1	23	11	1	23	12	1	23	13	1	
23	14	1	23	15	1	23	16	1	23	17	1	23	18	1	23	19	1	
23	20	1	23	21	1	23	22	1	23	23	1	23	24	1	23	25	1	
23	26	1	23	27	1	11	1	1	11	2	1	11	3	1	11	4	1	
11	5	1	11	6	1	11	7	1	11	8	1	11	9	1	11	10	1	
11	11	1	11	12	1	11	13	1	11	14	1	11	15	1	11	16	1	
11	17	1	11	18	1	11	19	1	11	20	1	11	21	1	11	22	1	
11	23	1	11	24	1	11	25	1	11	26	1	11	27	1	12	1	1	
12	2	1	12	3	1	12	4	1	12	5	1	12	6	1	12	7	1	
12	8	1	12	9	1	12	10	1	12	11	1	12	12	1	12	13	1	
12	14	1	12	15	1	12	16	1	12	17	1	12	18	1	12	19	1	
12	20	1	12	21	1	12	22	1	12	23	1	12	24	1	12	25	1	
12	26	1	12	27	1													
32	69		NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION															
8	11	1	9	11	1	10	11	1	11	11	1	12	11	1	13	11	1	
14	11	1	8	8	1	9	8	1	10	8	1	11	8	1	12	8	1	
13	8	1	14	8	1	16	11	1	17	11	1	18	11	1	16	8	1	
17	8	1	18	8	1	22	6	1	22	7	1	22	8	1	22	9	1	
22	10	1	22	11	1	22	12	1	22	13	1	22	14	1	22	15	1	
22	16	1	22	17	1	22	18	1	22	19	1	22	20	1	22	21	1	
22	22	1	22	23	1	22	24	1	22	25	1	22	26	1	22	27	1	
11	1	1	11	2	1	11	3	1	11	4	1	11	5	1	11	6	1	
11	7	1	11	8	1	11	9	1	11	10	1	11	11	1	11	12	1	
11	13	1	11	14	1	11	15	1	11	16	1	11	17	1	11	18	1	
11	19	1	11	20	1	11	21	1	11	22	1	11	23	1	11	24	1	
11	25	1	11	26	1	11	27	1										
34	140		NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION															
3	6	1	3	12	1	3	14	1	3	19	1	3	20	1	3	21	1	
3	22	1	3	23	1	3	24	1	3	25	1	3	26	1	3	27	1	
30	6	1	30	12	1	30	14	1	30	19	1	30	20	1	30	21	1	
30	22	1	30	23	1	30	24	1	30	25	1	30	26	1	30	27	1	
8	6	1	8	12	1	8	14	1	25	6	1	25	12	1	25	14	1	
16	8	1	16	9	1	16	10	1	19	8	1	19	9	1	19	10	1	
8	8	1	8	9	1	8	10	1	15	8	1	15	9	1	15	10	1	
22	6	1	22	7	1	22	8	1	22	9	1	22	10	1	22	11	1	
22	12	1	22	13	1	22	14	1	22	15	1	22	16	1	22	17	1	
22	18	1	22	19	1	22	20	1	22	21	1	22	22	1	22	23	1	
22	24	1	22	25	1	22	26	1	22	27	1	23	6	1	23	7	1	
23	8	1	23	9	1	23	10	1	23	11	1	23	12	1	23	13	1	
23	14	1	23	15	1	23	16	1	23	17	1	23	18	1	23	19	1	
23	20	1	23	21	1	23	22	1	23	23	1	23	24	1	23	25	1	
23	26	1	23	27	1	11	1	1	11	2	1	11	3	1	11	4	1	
11	5	1	11	6	1	11	7	1	11	8	1	11	9	1	11	10	1	
11	11	1	11	12	1	11	13	1	11	14	1	11	15	1	11	16	1	
11	17	1	11	18	1	11	19	1	11	20	1	11	21	1	11	22	1	
11	23	1	11	24	1	11	25	1	11	26	1	11	27	1	12	1	1	
12	2	1	12	3	1	12	4	1	12	5	1	12	6	1	12	7	1	
12	8	1	12	9	1	12	10	1	12	11	1	12	12	1	12	13	1	
12	14	1	12	15	1	12	16	1	12	17	1	12	18	1	12	19	1	
12	20	1	12	21	1	12	22	1	12	23	1	12	24	1	12	25	1	
12	26	1	12	27	1													
35	69		NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION															
8	11	1	9	11	1	10	11	1	11	11	1	12	11	1	13	11	1	
14	11	1	8	8	1	9	8	1	10	8	1	11	8	1	12	8	1	
13	8	1	14	8	1	16	11	1	17	11	1	18	11	1	16	8	1	
17	8	1	18	8	1	22	6	1	22	7	1	22	8	1	22	9	1	
22	10	1	22	11	1	22	12	1	22	13	1	22	14	1	22	15	1	
22	16	1	22	17	1	22	18	1	22	19	1	22	20	1	22	21	1	
22	22	1	22	23	1	22	24	1	22	25	1	22	26	1	22	27	1	
11	1	1	11	2	1	11	3	1	11	4	1	11	5	1	11	6	1	
11	7	1	11	8	1	11	9	1	11	10	1	11	11	1	11	12	1	
11	13	1	11	14	1	11	15	1	11	16	1	11	17	1	11	18	1	
11	19	1	11	20	1	11	21	1	11	22	1	11	23	1	11	24	1	
11	25	1	11	26	1	11	27	1										

MONITOR PARAMETER VALUES AT GRIDBLOCK(S)

T

NUMBER OF MONITOR BLOCKS

3

MONITOR BLOCKS (I,J,K)

11 10 1

```
17 10 1
25 12 1
GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
1 2 1 7
GRID DATA CARDS: GRID BLOCK DX'S
1.500000E+04 5.000000E+03 1.750000E+03 5.000000E+02 1.000000E+02 4.000000E+01
1.000000E+01 4.380000E+01 1.000000E+01 2.000000E+00 2.407879E-01 2.000000E+00
1.000000E+01 4.380000E+01 4.000000E+01 1.000000E+02 4.950000E+02 1.000000E+02
8.000000E+01 2.830000E+02 5.000000E+01 1.000000E+01 6.000000E+01 5.000000E+02
1.000000E+01 4.000000E+01 1.000000E+02 5.000000E+02 1.750000E+03 5.000000E+03
1.500000E+04
GRID DATA CARDS: GRID BLOCK DY'S
2.728000E+00 4.737200E+01 1.391600E+02 5.000000E+01 1.100000E+01 8.500000E-01
1.380000E+00 1.320800E+00 1.320800E+00 1.320800E+00 2.617600E+00 2.700000E-01
9.060000E+00 1.800000E-01 6.098000E+01 1.585300E+02 1.585300E+02 5.080000E+00
3.600000E+01 7.700000E+00 2.480000E+01 8.500000E+00 1.730000E+01 1.060000E+02
4.330000E+01 1.566000E+01 1.000000E-01
GRID DATA CARDS: GRID BLOCK DZ'S
6.131430E+04 2.131430E+04 7.814300E+03 3.314300E+03 2.114300E+03 1.834300E+03
1.734300E+03 1.262000E+02 2.880000E+01 4.800000E+00 2.407879E-01 4.800000E+00
2.880000E+01 1.262000E+02 1.000000E+01 1.323000E+02 1.435000E+02 1.416000E+02
1.890000E+01 1.890000E+01 1.890000E+01 9.500000E+00 2.050000E+01 5.310000E+01
1.258900E+03 1.458900E+03 2.018900E+03 3.928000E+03 8.226900E+03 2.172690E+04
6.172690E+04
GRID BLOCK ELEVATIONS
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
-3.441824E+01 1.401058E+02 1.990077E+02 2.186417E+02 2.238774E+02 2.250991E+02
2.255354E+02 2.260048E+02 2.264743E+02 2.265790E+02 2.266000E+02 2.266209E+02
2.267256E+02 2.271951E+02 2.279264E+02 2.291480E+02 2.343401E+02 2.395322E+02
2.411029E+02 2.442706E+02 2.471764E+02 2.477000E+02 2.483108E+02 2.531975E+02
2.576478E+02 2.580841E+02 2.593058E+02 2.645415E+02 2.841755E+02 3.430774E+02
5.176014E+02
6.014737E+01 2.346714E+02 2.935733E+02 3.132073E+02 3.184430E+02 3.196646E+02
3.201010E+02 3.205704E+02 3.210399E+02 3.211446E+02 3.211656E+02 3.211865E+02
3.212912E+02 3.217607E+02 3.224920E+02 3.237137E+02 3.289057E+02 3.340978E+02
3.356685E+02 3.388362E+02 3.417420E+02 3.422656E+02 3.428764E+02 3.477631E+02
3.522134E+02 3.526497E+02 3.538714E+02 3.591071E+02 3.787411E+02 4.376429E+02
6.121671E+02
9.064270E+01 2.651668E+02 3.240687E+02 3.437026E+02 3.489384E+02 3.501600E+02
3.505963E+02 3.510658E+02 3.515353E+02 3.516400E+02 3.516609E+02 3.516819E+02
3.517866E+02 3.522561E+02 3.529873E+02 3.542090E+02 3.594011E+02 3.645932E+02
3.661639E+02 3.693315E+02 3.722373E+02 3.727609E+02 3.733717E+02 3.782584E+02
3.827088E+02 3.831451E+02 3.843668E+02 3.896025E+02 4.092365E+02 4.681383E+02
6.426624E+02
9.656680E+01 2.710909E+02 3.299928E+02 3.496267E+02 3.548625E+02 3.560841E+02
3.565204E+02 3.569899E+02 3.574594E+02 3.575641E+02 3.575851E+02 3.576060E+02
3.577107E+02 3.581802E+02 3.589114E+02 3.601331E+02 3.653252E+02 3.705173E+02
3.720880E+02 3.752556E+02 3.781614E+02 3.786850E+02 3.792958E+02 3.841825E+02
3.886329E+02 3.890692E+02 3.902909E+02 3.955266E+02 4.151606E+02 4.740624E+02
6.485865E+02
9.768167E+01 2.722057E+02 3.311076E+02 3.507415E+02 3.559773E+02 3.571989E+02
3.576353E+02 3.581047E+02 3.585742E+02 3.586789E+02 3.586999E+02 3.587208E+02
3.588255E+02 3.592950E+02 3.600263E+02 3.612480E+02 3.664400E+02 3.716321E+02
3.732029E+02 3.763705E+02 3.792763E+02 3.797998E+02 3.804107E+02 3.852974E+02
3.897477E+02 3.901840E+02 3.914057E+02 3.966414E+02 4.162754E+02 4.751772E+02
6.497014E+02
9.903186E+01 2.735559E+02 3.324578E+02 3.520918E+02 3.573275E+02 3.585491E+02
3.589854E+02 3.594549E+02 3.599244E+02 3.600291E+02 3.600501E+02 3.600710E+02
3.601757E+02 3.606452E+02 3.613765E+02 3.625981E+02 3.677902E+02 3.729823E+02
3.745530E+02 3.777206E+02 3.806265E+02 3.811501E+02 3.817609E+02 3.866476E+02
3.910979E+02 3.915342E+02 3.927559E+02 3.979916E+02 4.176256E+02 4.765274E+02
6.510515E+02
1.003524E+02 2.748765E+02 3.337784E+02 3.534124E+02 3.586481E+02 3.598698E+02
3.603061E+02 3.607755E+02 3.612450E+02 3.613497E+02 3.613707E+02 3.613916E+02
3.614963E+02 3.619658E+02 3.626971E+02 3.639187E+02 3.691108E+02 3.743029E+02
```

3.758736E+02	3.790413E+02	3.819471E+02	3.824706E+02	3.830815E+02	3.879681E+02
3.924185E+02	3.928548E+02	3.940765E+02	3.993122E+02	4.189462E+02	4.778481E+02
6.523721E+02					
1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	3.611903E+02
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	3.627122E+02
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.194830E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.357305E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02

1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.600225E+07
1.600225E+07				
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.797447E+07	1.587290E+07	1.516362E+07	1.492719E+07	1.486415E+07
1.484944E+07	1.484418E+07	1.483853E+07	1.483288E+07	1.483161E+07
1.483136E+07	1.483111E+07	1.482985E+07	1.482420E+07	1.481539E+07
1.480068E+07	1.473816E+07	1.467564E+07	1.465672E+07	1.461858E+07
1.458359E+07	1.457728E+07	1.456993E+07	1.451108E+07	1.445749E+07
1.445224E+07	1.443753E+07	1.437448E+07	1.413806E+07	1.342878E+07
1.132721E+07				
1.683574E+07	1.473417E+07	1.402489E+07	1.378846E+07	1.372542E+07
1.371071E+07	1.370545E+07	1.369980E+07	1.369415E+07	1.369289E+07
1.369263E+07	1.369238E+07	1.369112E+07	1.368547E+07	1.367666E+07
1.366195E+07	1.359943E+07	1.353691E+07	1.351799E+07	1.347985E+07
1.344486E+07	1.343855E+07	1.343120E+07	1.337235E+07	1.331876E+07
1.331351E+07	1.329880E+07	1.323575E+07	1.299933E+07	1.229005E+07
1.018848E+07				
1.646852E+07	1.436695E+07	1.365768E+07	1.342125E+07	1.335820E+07
1.334349E+07	1.333824E+07	1.333258E+07	1.332693E+07	1.332567E+07
1.332542E+07	1.332516E+07	1.332390E+07	1.331825E+07	1.330945E+07
1.329473E+07	1.323221E+07	1.316969E+07	1.315078E+07	1.311263E+07
1.307764E+07	1.307134E+07	1.306398E+07	1.300514E+07	1.295155E+07
1.294629E+07	1.293158E+07	1.286854E+07	1.263211E+07	1.192283E+07
9.821265E+06				
1.639718E+07	1.429562E+07	1.358634E+07	1.334991E+07	1.328687E+07
1.327215E+07	1.326690E+07	1.326125E+07	1.325559E+07	1.325433E+07
1.325408E+07	1.325383E+07	1.325257E+07	1.324691E+07	1.323811E+07
1.322340E+07	1.316088E+07	1.309835E+07	1.307944E+07	1.304130E+07
1.300631E+07	1.013250E+05	1.299265E+07	1.293380E+07	1.288021E+07
1.287496E+07	1.286025E+07	1.279720E+07	1.256077E+07	1.185150E+07
9.749928E+06				
1.638376E+07	1.428219E+07	1.357291E+07	1.333649E+07	1.327344E+07
1.325873E+07	1.325348E+07	1.324782E+07	1.324217E+07	1.324091E+07
1.324066E+07	1.324040E+07	1.323914E+07	1.323349E+07	1.322468E+07
1.320997E+07	1.314745E+07	1.308493E+07	1.306602E+07	1.302787E+07
1.299288E+07	1.013250E+05	1.297922E+07	1.292038E+07	1.286679E+07
1.286153E+07	1.284682E+07	1.278378E+07	1.254735E+07	1.183807E+07
9.736503E+06				
1.636750E+07	1.426594E+07	1.355666E+07	1.332023E+07	1.325718E+07
1.324247E+07	1.323722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.285053E+07
1.284528E+07	1.283056E+07	1.276752E+07	1.253109E+07	1.182181E+07
9.720245E+06				
1.635160E+07	1.425003E+07	1.354075E+07	1.330433E+07	1.324128E+07
1.322657E+07	1.322132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.283463E+07
1.282937E+07	1.281466E+07	1.275161E+07	1.251519E+07	1.180591E+07
9.704342E+06				
1.633570E+07	1.423413E+07	1.352485E+07	1.328843E+07	1.322538E+07
1.321067E+07	1.320541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.281872E+07
1.281347E+07	1.279876E+07	1.273571E+07	1.249929E+07	1.179001E+07
9.688441E+06				
1.631199E+07	1.421042E+07	1.350114E+07	1.326472E+07	1.320167E+07
1.318696E+07	1.318170E+07	1.317605E+07	1.317040E+07	1.316914E+07
1.316888E+07	1.316863E+07	1.316737E+07	1.316172E+07	1.315291E+07
1.313820E+07	1.307568E+07	1.301316E+07	1.299424E+07	1.295610E+07
1.292111E+07	1.013250E+05	1.290745E+07	1.284860E+07	1.279502E+07
1.278976E+07	1.277505E+07	1.271200E+07	1.247558E+07	1.176630E+07
9.664732E+06				

1.629460E+07	1.419304E+07	1.348376E+07	1.324733E+07	1.318429E+07
1.316957E+07	1.316432E+07	1.315867E+07	1.315301E+07	1.315175E+07
1.315150E+07	1.315125E+07	1.314999E+07	1.314433E+07	1.313553E+07
1.312082E+07	1.305830E+07	1.299577E+07	1.297686E+07	1.293872E+07
1.290373E+07	1.013250E+05	1.289007E+07	1.283122E+07	1.277763E+07
1.277238E+07	1.275767E+07	1.269462E+07	1.245819E+07	1.174891E+07
9.647348E+06				
1.623844E+07	1.413687E+07	1.342759E+07	1.319117E+07	1.312812E+07
1.311341E+07	1.310815E+07	1.310250E+07	1.309685E+07	1.309559E+07
1.309533E+07	1.309508E+07	1.309382E+07	1.308817E+07	1.307936E+07
1.306465E+07	1.300213E+07	1.293961E+07	1.292069E+07	1.288255E+07
1.284756E+07	1.013250E+05	1.283390E+07	1.277506E+07	1.272147E+07
1.271621E+07	1.270150E+07	1.263845E+07	1.240203E+07	1.169275E+07
9.591182E+06				
1.618281E+07	1.408125E+07	1.337197E+07	1.313554E+07	1.307250E+07
1.305778E+07	1.305253E+07	1.304688E+07	1.304122E+07	1.303996E+07
1.303971E+07	1.303946E+07	1.303820E+07	1.303254E+07	1.302374E+07
1.300903E+07	1.294651E+07	1.288398E+07	1.286507E+07	1.282693E+07
1.279194E+07	1.013250E+05	1.277828E+07	1.271943E+07	1.266584E+07
1.266059E+07	1.264588E+07	1.258283E+07	1.234640E+07	1.163712E+07
9.535558E+06				
1.581463E+07	1.371307E+07	1.300379E+07	1.276736E+07	1.270432E+07
1.268961E+07	1.268435E+07	1.267870E+07	1.267304E+07	1.267178E+07
1.267153E+07	1.267128E+07	1.267002E+07	1.266437E+07	1.265556E+07
1.264085E+07	1.257833E+07	1.251580E+07	1.249689E+07	1.245875E+07
1.242376E+07	1.013250E+05	1.241010E+07	1.235125E+07	1.229766E+07
1.229241E+07	1.227770E+07	1.221465E+07	1.197822E+07	1.126895E+07
9.167379E+06				
1.449320E+07	1.239163E+07	1.168235E+07	1.144593E+07	1.138288E+07
1.136817E+07	1.136292E+07	1.135726E+07	1.135161E+07	1.135035E+07
1.135010E+07	1.134984E+07	1.134858E+07	1.134293E+07	1.133412E+07
1.131941E+07	1.125689E+07	1.119437E+07	1.117546E+07	1.113731E+07
1.110232E+07	1.013250E+05	1.108866E+07	1.102982E+07	1.097623E+07
1.097097E+07	1.095626E+07	1.089322E+07	1.065679E+07	9.947510E+06
7.845944E+06				
1.258452E+07	1.048295E+07	9.773674E+06	9.537248E+06	9.474200E+06
9.459489E+06	9.454235E+06	9.448582E+06	9.442928E+06	9.441667E+06
9.441415E+06	9.441163E+06	9.439902E+06	9.434249E+06	9.425443E+06
9.410732E+06	9.348211E+06	9.285689E+06	9.266775E+06	9.228632E+06
9.193641E+06	1.013250E+05	9.179980E+06	9.121136E+06	9.067546E+06
9.062292E+06	9.047582E+06	8.984535E+06	8.748108E+06	8.038830E+06
5.937264E+06				
1.159960E+07	9.498031E+06	8.788752E+06	8.552326E+06	8.489279E+06
8.474568E+06	8.469314E+06	8.463660E+06	8.458007E+06	8.456746E+06
8.456494E+06	8.456242E+06	8.454981E+06	8.449328E+06	8.440522E+06
8.425811E+06	8.363289E+06	8.300768E+06	8.281853E+06	8.243710E+06
8.208719E+06	1.013250E+05	8.195059E+06	8.136215E+06	8.082625E+06
8.077371E+06	8.062660E+06	7.999613E+06	7.763187E+06	7.053909E+06
4.952342E+06				
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	1.013250E+05	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06				
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	1.013250E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05				
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.013250E+05	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06				
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	1.013250E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05

1 1 1 1 1 1 1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38 1 1
1 1 1 1 1
6 25 6 6 6 6
6 6 6 6 6
1 31 1 1 1 1
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1 27 1 1 1 1
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1 33 1 1 1 1
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16 33 16 16 16 16
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21 29 21 21 21 21
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22 29 22 22 22 22
22 22 22 22 22
22 29 22 22 22 22
22 22 22 22 22
START TIME FOR MAP 3
3.1557E+09
MATERIAL TYPE GRID MAP
11 11 12
12 12 12 11 11
11
11 11 11 11 11
1
1 1 1 1 1
1
1
1 1 1 1 1
4 4 4 4 4 4 4 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15 4 4
4 4 4 4 4
1 1 1 1 1 1 1 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15 1 1
1 1 1 1 1
1 1 1 1 1 1 1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24 1 1
1 1 1 1 1
1 1 1 1 1 1 1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24 1 1
1 1 1 1 1
1 1 1 1 1 1 1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24 1 1
1 1 1 1 1
1 1 1 1 1 1 1 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15 1 1
1 1 1 1 1
5 5 5 5 5 5 5 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15 5 5
5 5 5 5 5
1 1 1 1 1 1 1 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38 1 1
1 1 1 1 1
6 26 6 6 6 6
6 6 6 6 6
1 32 1 1 1 1
1 1 1 1 1
1 28 1 1 1 1
1 1 1 1 1
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1 34 1 1 1 1
1 1 1 1 1
16 34 16 16 16 16
16 16 16 16 16
17 34 17 17 17 17
17 17 17 17 17
18 30 18 18 18 18
18 18 18 18 18
19 30 19 19 19 19


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8 CAVITY_2
9 CAVITY_3
10 CAVITY_4
11 IMPERM_Z
12 CASTLER
13 WAS_AREA
14 REPOSIT
15 DRZ_1
16 UNNAMED
17 CULEBRA
18 TAMARISK
19 MAGENTA
20 FORTYNIN
21 DEWYLAKE
22 SANTAROS
23 BACKFILL
24 EXP_AREA
25 SHFT_B_1
26 SHFT_B_2
27 SHFT_L_1
28 SHFT_L_2
29 SHFT_U_1
30 SHFT_U_2
31 SHFT_LS1
32 SHFT_LS2
33 SHFT_US1
34 SHFT_US2
35 PAN_S_1
36 PAN_S_2
37 BOREHOLE
38 TRANS_1
39 CAVITY_5
NWST
2
MAT_WASTE1 MAT_WASTE
7 8
13 14
NDRZ
0
NMATRESET
5
MATRESET
7 8 9 10 39
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000E+00 1
POWASTEIC
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
SOWASTEIC
0.000000E+00
0.000000E+00
0.000000E+00
0.250000E+00
0.200000E+00
PRESDRZ
NBORERESET
0
# LAMBDA SOR SGR
1 2.832000E-01 3.819000E-01 2.395000E-01
2 2.832000E-01 0.000000E+00 0.000000E+00
3 2.832000E-01 0.000000E+00 0.000000E+00
4 7.425000E+00 5.074000E-02 8.257000E-02
5 7.425000E+00 5.074000E-02 8.257000E-02
6 7.425000E+00 5.074000E-02 8.257000E-02
7 7.000000E-01 0.000000E+00 0.000000E+00
8 7.000000E-01 0.000000E+00 0.000000E+00
9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
```

13 3.681000E-01 2.927000E-01 1.087000E-01
 14 3.681000E-01 2.927000E-01 1.087000E-01
 15 2.832000E-01 0.000000E+00 0.000000E+00
 16 7.000000E-01 2.000000E-01 2.000000E-01
 17 7.000000E-01 2.000000E-01 2.000000E-01
 18 7.000000E-01 2.000000E-01 2.000000E-01
 19 7.000000E-01 2.000000E-01 2.000000E-01
 20 7.000000E-01 2.000000E-01 2.000000E-01
 21 7.000000E-01 2.000000E-01 2.000000E-01
 22 7.000000E-01 2.000000E-01 2.000000E-01
 23 7.000000E-01 0.000000E+00 0.000000E+00
 24 7.000000E-01 0.000000E+00 0.000000E+00
 25 7.000000E-01 2.000000E-01 2.000000E-01
 26 7.000000E-01 2.000000E-01 2.000000E-01
 27 7.000000E-01 2.000000E-01 2.000000E-01
 28 7.000000E-01 2.000000E-01 2.000000E-01
 29 7.000000E-01 2.000000E-01 2.000000E-01
 30 7.000000E-01 2.000000E-01 2.000000E-01
 31 7.000000E-01 2.000000E-01 2.000000E-01
 32 7.000000E-01 2.000000E-01 2.000000E-01
 33 7.000000E-01 2.000000E-01 2.000000E-01
 34 7.000000E-01 2.000000E-01 2.000000E-01
 35 7.000000E-01 2.000000E-01 2.000000E-01
 36 7.000000E-01 2.000000E-01 2.000000E-01
 37 7.000000E-01 2.000000E-01 0.000000E+00
 38 2.832000E-01 0.000000E+00 0.000000E+00
 39 7.000000E-01 0.000000E+00 0.000000E+00

#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP
1	4.009950E-01	1.013250E+05	1.000000E+08	5.918000E+06	0.000000E+00	4	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
4	5.327700E-02	1.013250E+05	1.000000E+08	2.360479E-03	-3.460000E-01	4	2	0
5	5.327700E-02	1.013250E+05	1.000000E+08	2.360479E-03	-3.460000E-01	4	2	0
6	5.327700E-02	1.013250E+05	1.000000E+08	2.360479E-03	-3.460000E-01	4	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	3.073350E-01	1.013250E+05	1.000000E+08	5.818192E-01	-3.460000E-01	1	4	0
14	3.073350E-01	1.013250E+05	1.000000E+08	5.818192E-01	-3.460000E-01	1	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	1.539033E+06	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	1.539033E+06	0.000000E+00	4	2	0
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0

#	PERMX	PERMY	PERMZ	POROSITY	COMPRES
1	1.318259E-24	1.318259E-24	1.318259E-24	2.256000E-02	8.339604E-09
2	1.000000E-15	1.000000E-15	1.000000E-15	2.256000E-02	3.656062E-08
3	1.000000E-15	1.000000E-15	1.000000E-15	2.256000E-02	3.656062E-08
4	2.041735E-18	2.041735E-18	2.041735E-18	3.968000E-02	1.280173E-09
5	2.041735E-18	2.041735E-18	2.041735E-18	3.968000E-02	1.280173E-09
6	2.041735E-18	2.041735E-18	2.041735E-18	3.968000E-02	1.280173E-09
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00

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9 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00 5.000000E-03 0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11 5.200000E-03 1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12 8.810400E-01 1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12 8.810400E-01 1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15 2.256000E-02 3.656062E-08
16 0.000000E+00 0.000000E+00 0.000000E+00 2.000000E-01 0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13 1.460000E-01 1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00 2.000000E-01 0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16 9.000000E-02 2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00 2.000000E-01 0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16 1.500000E-01 6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10 1.750000E-01 5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
32 2.454706E-19 2.454706E-19 2.454706E-19 5.000000E-02 2.000000E-08
33 2.454706E-19 2.454706E-19 2.454706E-19 5.000000E-02 2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
37 1.659588E-13 1.659588E-13 1.659588E-13 3.700000E-01 0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15 2.256000E-02 3.656062E-08
39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
T
NFRAC
3
# DELTA_PI DELTA_PF FRAC_PHI FRAC_EXP IFRX IFRY IFRZ
4 1.390000E+06 2.500000E+06 4.968000E-02 8.973829E+01 1 1 0
5 1.390000E+06 2.500000E+06 4.968000E-02 8.973829E+01 1 1 0
6 1.390000E+06 2.500000E+06 4.968000E-02 8.973829E+01 1 1 0
KLINKENBERG EFFECT TO BE USED? True or False
T
BKLINK EXPKLINK
9.800000E-01 -3.300000E-01
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01320E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.80000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONET NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
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BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.0000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO), INTRINSIC
1.9045188518798551E-10 2.7932414729320935E-09 T
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1.000E-03 2.0000E-01
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
1.1100E+00 0.0000E+00
1.1100E+00 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1.3081E+00 -1.3838E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING, CONC SMOOTHING, ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
# MAT NO. MODEL 1=WASTE-FILLED, 2=BACKFILLED, 4=WASTE (1996)
1 13 4
2 14 4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

A.6.3 Test Case 6: Output Difference File, BF2_QB0600_ES47_TEST6_OUT.DIF

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

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3 ** Begun on: 02/13/07 at 14:11:43 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
```

```
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
2 ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3 ** Begun on: 04/06/06 at 15:52:15 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST6]BF2_TEST6_QA0500.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST6]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
86 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
198 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
199 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
200 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
201 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
202 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
203 48 1 1 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
204 49 1 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
205 50 1 1 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
206 51 1 1 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
207 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
208 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
209 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
```

210 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
211 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
212 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
213 58 1 1 CONCBIO C6-H10-05 concentration -- simple model kg/m^3
214 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
215 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
216 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
217 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
218 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
219 64 0 0 CONCST Salt concentration -- simple model kg/m^3
220 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
221 66 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
222 67 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
223 68 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
224 69 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
225 70 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
226 71 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
227 72 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
228 73 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
229 74 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
230 75 0 0 GENRAT(10,I,J,K) C6-H10-05 consumption rate -- reaction path model kg/(s*m^3)
231 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
232 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
233 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
234 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
235 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
236 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
237 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
238 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
239 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
240 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
241 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
242 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
243 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
244 89 0 0 CONCRXN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
245 90 0 0 CONCRXN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
246 91 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
247 92 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
248 93 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
249 94 0 0 CONCRXN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
250 95 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
251 96 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
252 97 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
253 98 0 0 CONCRXN(10,I,J,K) C6-H10-05 concentration -- reaction path model kg/m^3
254 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
255 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
256 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
257 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
258 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
259 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
260 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
261 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
262 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
263 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
264 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
265 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
266 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
267 112 0 0 H2OFLOWIN Water inflow rate kg/s
268 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
269 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
270 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
271 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
272 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
273 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
274 119 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
275 120 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg
276 121 0 0 B_CONC(1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
277 122 0 0 B_CONC(1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
278 123 0 0 S_MASS(1,1) Solid mass of isotope 1 from Waste Region 1 kg
279 124 0 0 S_MASS(1,2) Solid mass of isotope 1 from Waste Region 2 kg

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281
*****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
198 43 1 1 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
199 44 1 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
200 45 1 1 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
201 46 1 1 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
202 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
203 48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
204 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
205 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
206 51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
207 52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
208 53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
209 54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
210 55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
211 56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
212 57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
213 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
214 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
215 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
216 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
217 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
218 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
219 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
220 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
221 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
222 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
223 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
224 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
225 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
226 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
227 72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
228 73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
229 74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
230 75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
231 76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
232 77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
233 78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
234 79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
235 80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
236 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
237 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
238 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
239 84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
240 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
241 86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
242 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
243 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
244 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
245 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
246 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
247 92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
248 93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
249 94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
250 95 0 0 H2OFLOWIN Water inflow rate kg/s
251 96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
252 97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
253 98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
254 99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
255 100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
256 101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
257 102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
258 103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
259 104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
260 105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
261 106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
262 107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
264
*****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
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Information Only


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956 Fracture model will be used? (KRACTURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
929 Fracture model will be used? (KRACTURE): T
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
1089 Intrinsic reaction rate constants? (LINTRIN): T
1091 Reaction rate constants (RK):
1092 Corrosion reaction rate constant = 1.904519E-10 (1/s)
1093 Biodegradation reaction rate constant = 2.793241E-09 (1/s)
1095 Factor for humid reaction rate constants (HF):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
1062 Reaction rate constants (RK):
1063 Corrosion reaction rate constant = 3.000000E-08 mol Fe/(s*m^3)
1064 Biodegradation reaction rate constant = 1.500000E-07 mol cell/(s*m^3)
1066 Factor for humid reaction rate constants (HF):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
1099 MgO hydration reaction rate constants:
1100 Inundated reaction (BRUCITEI) = 0.000000E+00 (1/s)
1101 Humid reaction (BRUCITEH) = 0.000000E+00 (1/s)
1103 Gas generation factors for biodegradation reaction:
1104 Waste Area # 1
1105 H2/H2S production (RXH2S) = 1.110000E+00
1106 CO2 production (RXCO2) = 0.000000E+00
1108 Gas generation factors for biodegradation reaction:
1109 Waste Area # 2
1110 H2/H2S production (RXH2S) = 1.110000E+00
1111 CO2 production (RXCO2) = 0.000000E+00
1113 Saturation cutoff value (SOCMIN): 0.000000E+00
1115 Stoichiometric coeff's for Rxn 1:
1116 H2 coefficient = 1.308100E+00
1117 H2O coefficient = -1.383800E+00
1118 Fe coefficient = -1.000000E+00
1119 Bio coefficient = 0.000000E+00
1120 Fe(OH)2 coefficient = 0.000000E+00
1121 FeS coefficient = 0.000000E+00
1122 MgO coefficient = 0.000000E+00
1123 Mg(OH)2 coefficient = 0.000000E+00
1124 MgCO3 coefficient = 0.000000E+00
1126 Stoichiometric coeff's for Rxn 2:
1127 H2 coefficient = 1.110000E+00
1128 H2O coefficient = 0.000000E+00
1129 Fe coefficient = 0.000000E+00
1130 Bio coefficient = -1.000000E+00
1131 Fe(OH)2 coefficient = 0.000000E+00
1132 FeS coefficient = 0.000000E+00
1133 MgO coefficient = 0.000000E+00
1134 Mg(OH)2 coefficient = 0.000000E+00
1135 MgCO3 coefficient = 0.000000E+00
1137 Stoichiometric coeff's for Rxn 3:
1138 H2 coefficient = 0.000000E+00
1139 H2O coefficient = 0.000000E+00
1140 Fe coefficient = 0.000000E+00
1141 Bio coefficient = 0.000000E+00
1142 Fe(OH)2 coefficient = 0.000000E+00
1143 FeS coefficient = 0.000000E+00
1144 MgO coefficient = 0.000000E+00
1145 Mg(OH)2 coefficient = 0.000000E+00
1146 MgCO3 coefficient = 0.000000E+00
1148 Stoichiometric coeff's for Rxn 4:
1149 H2 coefficient = 0.000000E+00
1150 H2O coefficient = 0.000000E+00
1151 Fe coefficient = 0.000000E+00
1152 Bio coefficient = 0.000000E+00
1153 Fe(OH)2 coefficient = 0.000000E+00
1154 FeS coefficient = 0.000000E+00
1155 MgO coefficient = 0.000000E+00
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1156 Mg(OH)2 coefficient = 0.000000E+00
1157 MgCO3 coefficient = 0.000000E+00
1159 Stoichiometric coeff's for Rxn 5:
1160 H2 coefficient = 0.000000E+00
1161 H2O coefficient = 0.000000E+00
1162 Fe coefficient = 0.000000E+00
1163 Bio coefficient = 0.000000E+00
1164 Fe(OH)2 coefficient = 0.000000E+00
1165 FeS coefficient = 0.000000E+00
1166 MgO coefficient = 0.000000E+00
1167 Mg(OH)2 coefficient = 0.000000E+00
1168 MgCO3 coefficient = 0.000000E+00
1170 Stoichiometric coeff's for Rxn 6:
1171 H2 coefficient = 0.000000E+00
1172 H2O coefficient = 0.000000E+00
1173 Fe coefficient = 0.000000E+00
1174 Bio coefficient = 0.000000E+00
1175 Fe(OH)2 coefficient = 0.000000E+00
1176 FeS coefficient = 0.000000E+00
1177 MgO coefficient = 0.000000E+00
1178 Mg(OH)2 coefficient = 0.000000E+00
1179 MgCO3 coefficient = 0.000000E+00
1181 Stoichiometric coeff's for Rxn 7:
1182 H2 coefficient = 0.000000E+00
1183 H2O coefficient = 0.000000E+00
1184 Fe coefficient = 0.000000E+00
1185 Bio coefficient = 0.000000E+00
1186 Fe(OH)2 coefficient = 0.000000E+00
1187 FeS coefficient = 0.000000E+00
1188 MgO coefficient = 0.000000E+00
1189 Mg(OH)2 coefficient = 0.000000E+00
1190 MgCO3 coefficient = 0.000000E+00
1192 Wicking term (SATWICK) = 0.000000E+00
1193 Humid rates to be smoothed? (LARKN) = T
1194 Concentration rates to be smoothed? (LARKN2) = F
1195 Humid rate smoothing factor (ALPHARKN) = 1.000000E+03
1197 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
1070 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1071 Gas coefficient = 1.308100E+00
1072 H2O coefficient = 1.383800E+00
1073 Fe coefficient = 1.000000E+00
1075 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1076 Gas coefficient = 1.110000E+00
1077 H2O coefficient = 0.000000E+00
1078 Bio coefficient = 1.000000E+00
1080 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
1203 Molecular weights (WM):
1204 Fe(OH)2: 8.9862E-02 kg/mol
1205 FeS: 8.7900E-02 kg/mol
1206 MgO: 4.0304E-02 kg/mol
1207 Mg(OH)2: 5.8320E-02 kg/mol
1208 MgCO3: 8.4314E-02 kg/mol
1210 Densities (DEN(1-4)):
1211 Fe: 7.8700E+03 kg/m3
1212 Fe(OH)2: 3.4000E+03 kg/m3
1213 FeS: 4.7000E+03 kg/m3
1214 Bio: 1.1000E+03 kg/m3
1216 Densities (DEN(5-8)):
1217 MgO: 3.6000E+03 kg/m3
1218 Mg(OH)2: 2.3700E+03 kg/m3
1219 MgCO3: 3.0500E+03 kg/m3
1220 SALT: 2.1700E+03 kg/m3
1222 Will creep closure be used (CLOSURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
1086 Wicking term (SATWICK) = 0.000000E+00
```

```
1087 Humid rates to be smoothed? (LARKN) = T
1088 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1090 Will creep closure be used (CLOSURE): T
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
1236 PHIUPPER = Upper porosity limit in permeability-porosity expression
1237 PHILOWER = Lower porosity limit in permeability-porosity expression
1238 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
1239 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1240 4 1.480000E+07 3.155700E+12 1 F
1241 MODPERM Parameters
1242 Model Number (CLOSPERMFAC) [m^2] (CLOSPERMEXP) [-]
1243 4 5.584700E-12 0.000000E+00
1245 Number of materials using closure (NMATCLOS) = 2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
1104 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFAC) [m^2] (CLOSPERMEXP) [-]
1105 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1106 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1108 Number of materials using closure (NMATCLOS) = 2
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
1263 *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1266 *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1269 *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1272 *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
1275 *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
1279
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
1126 *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1129 *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1133
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
1334 48 H2RATE H2 generation rate -- simple model kg/(s*m^3) 1.000000E+00
1335 49 BRINRATE Brine consumption rate -- simple model kg/(s*m^3) 1.000000E+00
1336 50 FERATE Fe consumption rate -- simple model kg/(s*m^3) 1.000000E+00
1337 51 CELLRATE C6-H10-O5 consumption rate -- simple model kg/(s*m^3) 1.000000E+00
1338 57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1339 58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1341 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
1188 43 H2RATE H2 generation rate -- simple model kg/(s*m^3) 1.000000E+00
1189 44 BRINRATE Brine consumption rate -- simple model kg/(s*m^3) 1.000000E+00
1190 45 FERATE Fe consumption rate -- simple model kg/(s*m^3) 1.000000E+00
1191 46 CELLRATE C6-H10-O5 consumption rate -- simple model kg/(s*m^3) 1.000000E+00
1192 47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1193 48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1195 CAMCON Global Variable Units Conv
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
1810 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1811 CPU Time (total for run) = 23.09 sec = 0.00641 hr
1812 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
1664 CPU Time (this time step) = 0.11 sec = 0.00003 hr
1665 CPU Time (total for run) = 19.83 sec = 0.00551 hr
1666 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
6373 Date: 02/13/07 Time: 14:12:07 CPU Time: 0 0: 0:23.15 ( 23.15 sec) ASCII
6375 Time Step No. = 135 Elapsed Time = 0.000000E+00 days
```

6376 Date: 02/13/07 Time: 14:12:07 CPU Time: 0 0: 0:23.17 (23.17 sec) Binary
6378 Time Step No. = 140 Elapsed Time = 8.207031E-02 days
6379 Date: 02/13/07 Time: 14:12:08 CPU Time: 0 0: 0:24.20 (24.20 sec) Binary
6381 Time Step No. = 160 Elapsed Time = 6.773074E+00 days
6382 Date: 02/13/07 Time: 14:12:11 CPU Time: 0 0: 0:27.57 (27.57 sec) Binary
6384 Time Step No. = 180 Elapsed Time = 1.856436E+02 days
6385 Date: 02/13/07 Time: 14:12:15 CPU Time: 0 0: 0:31.15 (31.15 sec) Binary
6387 Time Step No. = 200 Elapsed Time = 1.266619E+03 days
6388 Date: 02/13/07 Time: 14:12:20 CPU Time: 0 0: 0:36.67 (36.67 sec) Binary
6390 Time Step No. = 220 Elapsed Time = 1.297866E+04 days
6391 Date: 02/13/07 Time: 14:12:26 CPU Time: 0 0: 0:42.13 (42.13 sec) Binary
6393 Time Step No. = 240 Elapsed Time = 3.652431E+04 days
6394 Date: 02/13/07 Time: 14:12:41 CPU Time: 0 0: 0:57.61 (57.61 sec) Binary
6396 Time Step No. = 260 Elapsed Time = 3.652431E+04 days
6397 Date: 02/13/07 Time: 14:12:44 CPU Time: 0 0: 1: 0.47 (60.47 sec) Binary
6399 Time Step No. = 280 Elapsed Time = 3.652431E+04 days
6400 Date: 02/13/07 Time: 14:12:47 CPU Time: 0 0: 1: 3.66 (63.66 sec) Binary
6402 Time Step No. = 300 Elapsed Time = 3.652436E+04 days
6403 Date: 02/13/07 Time: 14:12:51 CPU Time: 0 0: 1: 7.11 (67.11 sec) Binary
6405 Time Step No. = 320 Elapsed Time = 3.652923E+04 days
6406 Date: 02/13/07 Time: 14:12:54 CPU Time: 0 0: 1: 9.96 (69.96 sec) Binary
6408 Time Step No. = 340 Elapsed Time = 3.665792E+04 days
6409 Date: 02/13/07 Time: 14:12:57 CPU Time: 0 0: 1:13.56 (73.56 sec) Binary
6411 Time Step No. = 360 Elapsed Time = 3.666839E+04 days
6412 Date: 02/13/07 Time: 14:13:00 CPU Time: 0 0: 1:15.63 (75.63 sec) Binary
6414 Time Step No. = 380 Elapsed Time = 3.702040E+04 days
6415 Date: 02/13/07 Time: 14:13:04 CPU Time: 0 0: 1:19.71 (79.71 sec) Binary
6417 Time Step No. = 400 Elapsed Time = 3.811571E+04 days
6418 Date: 02/13/07 Time: 14:13:11 CPU Time: 0 0: 1:26.76 (86.76 sec) Binary
6421 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
6227 Date: 04/06/06 Time: 15:52:35 CPU Time: 0 0: 0:19.91 (19.91 sec) ASCII
6229 Time Step No. = 135 Elapsed Time = 0.000000E+00 days
6230 Date: 04/06/06 Time: 15:52:35 CPU Time: 0 0: 0:19.92 (19.92 sec) Binary
6232 Time Step No. = 140 Elapsed Time = 8.207031E-02 days
6233 Date: 04/06/06 Time: 15:52:36 CPU Time: 0 0: 0:20.81 (20.81 sec) Binary
6235 Time Step No. = 160 Elapsed Time = 6.773074E+00 days
6236 Date: 04/06/06 Time: 15:52:39 CPU Time: 0 0: 0:23.77 (23.77 sec) Binary
6238 Time Step No. = 180 Elapsed Time = 1.856436E+02 days
6239 Date: 04/06/06 Time: 15:52:42 CPU Time: 0 0: 0:26.92 (26.92 sec) Binary
6241 Time Step No. = 200 Elapsed Time = 1.266619E+03 days
6242 Date: 04/06/06 Time: 15:52:47 CPU Time: 0 0: 0:31.76 (31.76 sec) Binary
6244 Time Step No. = 220 Elapsed Time = 1.297866E+04 days
6245 Date: 04/06/06 Time: 15:52:51 CPU Time: 0 0: 0:36.51 (36.51 sec) Binary
6247 Time Step No. = 240 Elapsed Time = 3.652431E+04 days
6248 Date: 04/06/06 Time: 15:53:04 CPU Time: 0 0: 0:49.48 (49.48 sec) Binary
6250 Time Step No. = 260 Elapsed Time = 3.652431E+04 days
6251 Date: 04/06/06 Time: 15:53:07 CPU Time: 0 0: 0:51.81 (51.81 sec) Binary
6253 Time Step No. = 280 Elapsed Time = 3.652431E+04 days
6254 Date: 04/06/06 Time: 15:53:09 CPU Time: 0 0: 0:54.41 (54.41 sec) Binary
6256 Time Step No. = 300 Elapsed Time = 3.652436E+04 days
6257 Date: 04/06/06 Time: 15:53:12 CPU Time: 0 0: 0:57.23 (57.23 sec) Binary
6259 Time Step No. = 320 Elapsed Time = 3.652923E+04 days
6260 Date: 04/06/06 Time: 15:53:15 CPU Time: 0 0: 0:59.57 (59.57 sec) Binary
6262 Time Step No. = 340 Elapsed Time = 3.665792E+04 days
6263 Date: 04/06/06 Time: 15:53:18 CPU Time: 0 0: 1: 2.63 (62.63 sec) Binary
6265 Time Step No. = 360 Elapsed Time = 3.666839E+04 days
6266 Date: 04/06/06 Time: 15:53:19 CPU Time: 0 0: 1: 4.45 (64.45 sec) Binary
6268 Time Step No. = 380 Elapsed Time = 3.702040E+04 days
6269 Date: 04/06/06 Time: 15:53:23 CPU Time: 0 0: 1: 8.03 (68.03 sec) Binary
6271 Time Step No. = 400 Elapsed Time = 3.811571E+04 days
6272 Date: 04/06/06 Time: 15:53:29 CPU Time: 0 0: 1:14.22 (74.22 sec) Binary
6275 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
6429 CPU Time (this time step) = 0.37 sec = 0.00010 hr
6430 CPU Time (total for run) = 92.24 sec = 0.02562 hr
6431 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
6283 CPU Time (this time step) = 0.33 sec = 0.00009 hr
6284 CPU Time (total for run) = 79.02 sec = 0.02195 hr
6285 *****

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
10992 Date: 02/13/07 Time: 14:13:16 CPU Time: 0 0: 1:32.31 ( 92.31 sec) ASCII
10994 Time Step No. = 418 Elapsed Time = 7.304861E+04 days
10995 Date: 02/13/07 Time: 14:13:16 CPU Time: 0 0: 1:32.31 ( 92.31 sec) Binary
10997 Time Step No. = 420 Elapsed Time = 8.669839E+04 days
10998 Date: 02/13/07 Time: 14:13:17 CPU Time: 0 0: 1:33.27 ( 93.27 sec) Binary
11000 Time Step No. = 440 Elapsed Time = 2.216406E+05 days
11001 Date: 02/13/07 Time: 14:13:25 CPU Time: 0 0: 1:41.27 ( 101.27 sec) Binary
11003 Time Step No. = 460 Elapsed Time = 2.488238E+05 days
11004 Date: 02/13/07 Time: 14:13:35 CPU Time: 0 0: 1:51.22 ( 111.22 sec) Binary
11006 Time Step No. = 480 Elapsed Time = 2.511960E+05 days
11007 Date: 02/13/07 Time: 14:13:39 CPU Time: 0 0: 1:55.48 ( 115.48 sec) Binary
11009 Time Step No. = 500 Elapsed Time = 2.923516E+05 days
11010 Date: 02/13/07 Time: 14:13:49 CPU Time: 0 0: 2: 4.69 ( 124.69 sec) Binary
11012 Time Step No. = 520 Elapsed Time = 2.937006E+05 days
11013 Date: 02/13/07 Time: 14:13:58 CPU Time: 0 0: 2:14.04 ( 134.04 sec) Binary
11015 Time Step No. = 540 Elapsed Time = 2.996768E+05 days
11016 Date: 02/13/07 Time: 14:14:05 CPU Time: 0 0: 2:20.63 ( 140.63 sec) Binary
11018 Time Step No. = 560 Elapsed Time = 3.032487E+05 days
11019 Date: 02/13/07 Time: 14:14:15 CPU Time: 0 0: 2:31.01 ( 151.01 sec) Binary
11021 Time Step No. = 580 Elapsed Time = 3.049319E+05 days
11022 Date: 02/13/07 Time: 14:14:22 CPU Time: 0 0: 2:37.65 ( 157.65 sec) Binary
11024 Time Step No. = 600 Elapsed Time = 3.135519E+05 days
11025 Date: 02/13/07 Time: 14:14:31 CPU Time: 0 0: 2:47.28 ( 167.28 sec) Binary
11027 Time Step No. = 620 Elapsed Time = 3.149492E+05 days
11028 Date: 02/13/07 Time: 14:14:39 CPU Time: 0 0: 2:54.80 ( 174.80 sec) Binary
11030 Time Step No. = 640 Elapsed Time = 3.161170E+05 days
11031 Date: 02/13/07 Time: 14:14:47 CPU Time: 0 0: 3: 2.94 ( 182.94 sec) Binary
11033 Time Step No. = 660 Elapsed Time = 3.173440E+05 days
11034 Date: 02/13/07 Time: 14:14:56 CPU Time: 0 0: 3:11.95 ( 191.95 sec) Binary
11036 Time Step No. = 680 Elapsed Time = 3.204458E+05 days
11037 Date: 02/13/07 Time: 14:15:04 CPU Time: 0 0: 3:19.71 ( 199.71 sec) Binary
11039 Time Step No. = 700 Elapsed Time = 3.283157E+05 days
11040 Date: 02/13/07 Time: 14:15:13 CPU Time: 0 0: 3:28.72 ( 208.72 sec) Binary
11043 *****
```

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
10846 Date: 04/06/06 Time: 15:53:34 CPU Time: 0 0: 1:19.08 ( 79.08 sec) ASCII
10848 Time Step No. = 418 Elapsed Time = 7.304861E+04 days
10849 Date: 04/06/06 Time: 15:53:34 CPU Time: 0 0: 1:19.08 ( 79.08 sec) Binary
10851 Time Step No. = 420 Elapsed Time = 8.669839E+04 days
10852 Date: 04/06/06 Time: 15:53:35 CPU Time: 0 0: 1:19.92 ( 79.92 sec) Binary
10854 Time Step No. = 440 Elapsed Time = 2.216406E+05 days
10855 Date: 04/06/06 Time: 15:53:42 CPU Time: 0 0: 1:27.01 ( 87.01 sec) Binary
10857 Time Step No. = 460 Elapsed Time = 2.488238E+05 days
10858 Date: 04/06/06 Time: 15:53:51 CPU Time: 0 0: 1:35.79 ( 95.79 sec) Binary
10860 Time Step No. = 480 Elapsed Time = 2.511960E+05 days
10861 Date: 04/06/06 Time: 15:53:55 CPU Time: 0 0: 1:39.53 ( 99.53 sec) Binary
10863 Time Step No. = 500 Elapsed Time = 2.923516E+05 days
10864 Date: 04/06/06 Time: 15:54:03 CPU Time: 0 0: 1:47.64 ( 107.64 sec) Binary
10866 Time Step No. = 520 Elapsed Time = 2.937006E+05 days
10867 Date: 04/06/06 Time: 15:54:11 CPU Time: 0 0: 1:55.93 ( 115.93 sec) Binary
10869 Time Step No. = 540 Elapsed Time = 2.996768E+05 days
10870 Date: 04/06/06 Time: 15:54:17 CPU Time: 0 0: 2: 1.75 ( 121.75 sec) Binary
10872 Time Step No. = 560 Elapsed Time = 3.032487E+05 days
10873 Date: 04/06/06 Time: 15:54:26 CPU Time: 0 0: 2:11.01 ( 131.01 sec) Binary
10875 Time Step No. = 580 Elapsed Time = 3.049319E+05 days
10876 Date: 04/06/06 Time: 15:54:32 CPU Time: 0 0: 2:16.89 ( 136.89 sec) Binary
10878 Time Step No. = 600 Elapsed Time = 3.135519E+05 days
10879 Date: 04/06/06 Time: 15:54:41 CPU Time: 0 0: 2:25.41 ( 145.41 sec) Binary
10881 Time Step No. = 620 Elapsed Time = 3.149492E+05 days
10882 Date: 04/06/06 Time: 15:54:47 CPU Time: 0 0: 2:32.03 ( 152.03 sec) Binary
10884 Time Step No. = 640 Elapsed Time = 3.161170E+05 days
10885 Date: 04/06/06 Time: 15:54:54 CPU Time: 0 0: 2:39.20 ( 159.20 sec) Binary
10887 Time Step No. = 660 Elapsed Time = 3.173440E+05 days
10888 Date: 04/06/06 Time: 15:55:03 CPU Time: 0 0: 2:47.29 ( 167.29 sec) Binary
10890 Time Step No. = 680 Elapsed Time = 3.204458E+05 days
10891 Date: 04/06/06 Time: 15:55:09 CPU Time: 0 0: 2:54.14 ( 174.14 sec) Binary
10893 Time Step No. = 700 Elapsed Time = 3.283157E+05 days
10894 Date: 04/06/06 Time: 15:55:17 CPU Time: 0 0: 3: 2.09 ( 182.09 sec) Binary
10897 *****
```

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
11051 CPU Time (this time step) = 0.25 sec = 0.00007 hr
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11052 CPU Time (total for run) = 210.03 sec = 0.05834 hr
11053 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
10905 CPU Time (this time step) = 0.22 sec = 0.00006 hr
10906 CPU Time (total for run) = 183.25 sec = 0.05090 hr
10907 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
15614 Date: 02/13/07 Time: 14:15:14 CPU Time: 0 0: 3:30.12 ( 210.12 sec) ASCII
15616 Time Step No. = 703 Elapsed Time = 3.287179E+05 days
15617 Date: 02/13/07 Time: 14:15:14 CPU Time: 0 0: 3:30.12 ( 210.12 sec) Binary
15619 Time Step No. = 720 Elapsed Time = 3.327229E+05 days
15620 Date: 02/13/07 Time: 14:15:22 CPU Time: 0 0: 3:37.40 ( 217.40 sec) Binary
15622 Time Step No. = 740 Elapsed Time = 3.346052E+05 days
15623 Date: 02/13/07 Time: 14:15:30 CPU Time: 0 0: 3:46.08 ( 226.08 sec) Binary
15625 Time Step No. = 760 Elapsed Time = 3.499571E+05 days
15626 Date: 02/13/07 Time: 14:15:38 CPU Time: 0 0: 3:53.73 ( 233.73 sec) Binary
15628 Time Step No. = 780 Elapsed Time = 3.566330E+05 days
15629 Date: 02/13/07 Time: 14:15:45 CPU Time: 0 0: 4: 0.76 ( 240.76 sec) Binary
15631 Time Step No. = 800 Elapsed Time = 3.652602E+05 days
15632 Date: 02/13/07 Time: 14:15:51 CPU Time: 0 0: 4: 6.55 ( 246.55 sec) Binary
15635 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
15468 Date: 04/06/06 Time: 15:55:19 CPU Time: 0 0: 3: 3.32 ( 183.32 sec) ASCII
15470 Time Step No. = 703 Elapsed Time = 3.287179E+05 days
15471 Date: 04/06/06 Time: 15:55:19 CPU Time: 0 0: 3: 3.33 ( 183.33 sec) Binary
15473 Time Step No. = 720 Elapsed Time = 3.327229E+05 days
15474 Date: 04/06/06 Time: 15:55:25 CPU Time: 0 0: 3: 9.75 ( 189.75 sec) Binary
15476 Time Step No. = 740 Elapsed Time = 3.346052E+05 days
15477 Date: 04/06/06 Time: 15:55:33 CPU Time: 0 0: 3:17.42 ( 197.42 sec) Binary
15479 Time Step No. = 760 Elapsed Time = 3.499571E+05 days
15480 Date: 04/06/06 Time: 15:55:40 CPU Time: 0 0: 3:24.31 ( 204.31 sec) Binary
15482 Time Step No. = 780 Elapsed Time = 3.566330E+05 days
15483 Date: 04/06/06 Time: 15:55:46 CPU Time: 0 0: 3:30.54 ( 210.54 sec) Binary
15485 Time Step No. = 800 Elapsed Time = 3.652602E+05 days
15486 Date: 04/06/06 Time: 15:55:51 CPU Time: 0 0: 3:35.66 ( 215.66 sec) Binary
15489 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
15643 CPU Time (this time step) = 0.13 sec = 0.00004 hr
15644 CPU Time (total for run) = 246.93 sec = 0.06859 hr
15645 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
15497 CPU Time (this time step) = 0.11 sec = 0.00003 hr
15498 CPU Time (total for run) = 216.00 sec = 0.06000 hr
15499 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
20206 Date: 02/13/07 Time: 14:15:51 CPU Time: 0 0: 4: 7.02 ( 247.02 sec) ASCII
20208 Time Step No. = 803 Elapsed Time = 3.652644E+05 days
20209 Date: 02/13/07 Time: 14:15:51 CPU Time: 0 0: 4: 7.03 ( 247.03 sec) Binary
20211 Time Step No. = 820 Elapsed Time = 3.653083E+05 days
20212 Date: 02/13/07 Time: 14:15:56 CPU Time: 0 0: 4:11.52 ( 251.52 sec) Binary
20214 Time Step No. = 840 Elapsed Time = 3.654241E+05 days
20215 Date: 02/13/07 Time: 14:16:02 CPU Time: 0 0: 4:18.00 ( 258.00 sec) Binary
20217 Time Step No. = 860 Elapsed Time = 3.659611E+05 days
20218 Date: 02/13/07 Time: 14:16:09 CPU Time: 0 0: 4:24.31 ( 264.31 sec) Binary
20220 Time Step No. = 880 Elapsed Time = 3.665388E+05 days
20221 Date: 02/13/07 Time: 14:16:12 CPU Time: 0 0: 4:28.01 ( 268.01 sec) Binary
20223 Time Step No. = 900 Elapsed Time = 3.665643E+05 days
20224 Date: 02/13/07 Time: 14:16:14 CPU Time: 0 0: 4:29.58 ( 269.58 sec) Binary
20226 Time Step No. = 920 Elapsed Time = 3.687806E+05 days
20227 Date: 02/13/07 Time: 14:16:18 CPU Time: 0 0: 4:33.40 ( 273.40 sec) Binary
20229 Time Step No. = 940 Elapsed Time = 3.726602E+05 days
20230 Date: 02/13/07 Time: 14:16:27 CPU Time: 0 0: 4:42.23 ( 282.23 sec) Binary
20232 Time Step No. = 960 Elapsed Time = 3.777459E+05 days
20233 Date: 02/13/07 Time: 14:16:34 CPU Time: 0 0: 4:49.27 ( 289.27 sec) Binary
20235 Time Step No. = 980 Elapsed Time = 3.943263E+05 days
20236 Date: 02/13/07 Time: 14:16:41 CPU Time: 0 0: 4:56.74 ( 296.74 sec) Binary
20238 Time Step No. = 1000 Elapsed Time = 4.162550E+05 days
```

20239	Date: 02/13/07	Time: 14:16:48	CPU Time: 0 0: 5: 3.47 (303.47 sec)	Binary
20241	Time Step No. = 1020	Elapsed Time = 4.353864E+05 days		
20242	Date: 02/13/07	Time: 14:16:56	CPU Time: 0 0: 5:11.87 (311.87 sec)	Binary
20244	Time Step No. = 1040	Elapsed Time = 4.585234E+05 days		
20245	Date: 02/13/07	Time: 14:17:03	CPU Time: 0 0: 5:18.24 (318.24 sec)	Binary
20247	Time Step No. = 1060	Elapsed Time = 5.099879E+05 days		
20248	Date: 02/13/07	Time: 14:17:12	CPU Time: 0 0: 5:27.26 (327.26 sec)	Binary
20250	Time Step No. = 1080	Elapsed Time = 5.143304E+05 days		
20251	Date: 02/13/07	Time: 14:17:17	CPU Time: 0 0: 5:32.38 (332.38 sec)	Binary
20253	Time Step No. = 1100	Elapsed Time = 5.154704E+05 days		
20254	Date: 02/13/07	Time: 14:17:20	CPU Time: 0 0: 5:35.80 (335.80 sec)	Binary
20256	Time Step No. = 1120	Elapsed Time = 5.565073E+05 days		
20257	Date: 02/13/07	Time: 14:17:29	CPU Time: 0 0: 5:44.17 (344.17 sec)	Binary
20259	Time Step No. = 1140	Elapsed Time = 5.900105E+05 days		
20260	Date: 02/13/07	Time: 14:17:34	CPU Time: 0 0: 5:49.28 (349.28 sec)	Binary
20262	Time Step No. = 1160	Elapsed Time = 5.917396E+05 days		
20263	Date: 02/13/07	Time: 14:17:41	CPU Time: 0 0: 5:56.49 (356.49 sec)	Binary
20265	Time Step No. = 1180	Elapsed Time = 6.207847E+05 days		
20266	Date: 02/13/07	Time: 14:17:46	CPU Time: 0 0: 6: 1.54 (361.54 sec)	Binary
20268	Time Step No. = 1200	Elapsed Time = 7.988527E+05 days		
20269	Date: 02/13/07	Time: 14:17:58	CPU Time: 0 0: 6:13.53 (373.53 sec)	Binary
20271	Time Step No. = 1220	Elapsed Time = 7.990476E+05 days		
20272	Date: 02/13/07	Time: 14:18:00	CPU Time: 0 0: 6:15.57 (375.57 sec)	Binary
20274	Time Step No. = 1240	Elapsed Time = 7.999523E+05 days		
20275	Date: 02/13/07	Time: 14:18:04	CPU Time: 0 0: 6:19.31 (379.31 sec)	Binary
20277	Time Step No. = 1260	Elapsed Time = 8.036273E+05 days		
20278	Date: 02/13/07	Time: 14:18:07	CPU Time: 0 0: 6:22.68 (382.68 sec)	Binary
20280	Time Step No. = 1280	Elapsed Time = 8.095812E+05 days		
20281	Date: 02/13/07	Time: 14:18:19	CPU Time: 0 0: 6:34.43 (394.43 sec)	Binary
20283	Time Step No. = 1300	Elapsed Time = 8.097922E+05 days		
20284	Date: 02/13/07	Time: 14:18:21	CPU Time: 0 0: 6:36.90 (396.90 sec)	Binary
20286	Time Step No. = 1320	Elapsed Time = 8.172796E+05 days		
20287	Date: 02/13/07	Time: 14:18:30	CPU Time: 0 0: 6:45.75 (405.75 sec)	Binary
20289	Time Step No. = 1340	Elapsed Time = 8.174733E+05 days		
20290	Date: 02/13/07	Time: 14:18:33	CPU Time: 0 0: 6:48.33 (408.33 sec)	Binary
20292	Time Step No. = 1360	Elapsed Time = 8.176452E+05 days		
20293	Date: 02/13/07	Time: 14:18:38	CPU Time: 0 0: 6:53.14 (413.14 sec)	Binary
20295	Time Step No. = 1380	Elapsed Time = 8.205265E+05 days		
20296	Date: 02/13/07	Time: 14:18:43	CPU Time: 0 0: 6:57.99 (417.99 sec)	Binary
20298	Time Step No. = 1400	Elapsed Time = 8.478698E+05 days		
20299	Date: 02/13/07	Time: 14:18:47	CPU Time: 0 0: 7: 2.60 (422.60 sec)	Binary
20301	Time Step No. = 1420	Elapsed Time = 1.025254E+06 days		
20302	Date: 02/13/07	Time: 14:18:58	CPU Time: 0 0: 7:13.33 (433.33 sec)	Binary
20304	Time Step No. = 1440	Elapsed Time = 1.025565E+06 days		
20305	Date: 02/13/07	Time: 14:19:01	CPU Time: 0 0: 7:16.06 (436.06 sec)	Binary
20307	Time Step No. = 1460	Elapsed Time = 1.026679E+06 days		
20308	Date: 02/13/07	Time: 14:19:05	CPU Time: 0 0: 7:20.22 (440.22 sec)	Binary
20310	Time Step No. = 1480	Elapsed Time = 1.039111E+06 days		
20311	Date: 02/13/07	Time: 14:19:10	CPU Time: 0 0: 7:25.47 (445.47 sec)	Binary
20313	Time Step No. = 1500	Elapsed Time = 1.047557E+06 days		
20314	Date: 02/13/07	Time: 14:19:15	CPU Time: 0 0: 7:30.22 (450.22 sec)	Binary
20316	Time Step No. = 1520	Elapsed Time = 1.047671E+06 days		
20317	Date: 02/13/07	Time: 14:19:24	CPU Time: 0 0: 7:38.96 (458.96 sec)	Binary
20319	Time Step No. = 1540	Elapsed Time = 1.047991E+06 days		
20320	Date: 02/13/07	Time: 14:19:29	CPU Time: 0 0: 7:43.95 (463.95 sec)	Binary
20322	Time Step No. = 1560	Elapsed Time = 1.052298E+06 days		
20323	Date: 02/13/07	Time: 14:19:32	CPU Time: 0 0: 7:47.11 (467.11 sec)	Binary
20325	Time Step No. = 1580	Elapsed Time = 1.207615E+06 days		
20326	Date: 02/13/07	Time: 14:19:38	CPU Time: 0 0: 7:53.17 (473.17 sec)	Binary
20328	Time Step No. = 1600	Elapsed Time = 1.311097E+06 days		
20329	Date: 02/13/07	Time: 14:19:42	CPU Time: 0 0: 7:57.54 (477.54 sec)	Binary
20331	Time Step No. = 1620	Elapsed Time = 1.322737E+06 days		
20332	Date: 02/13/07	Time: 14:19:51	CPU Time: 0 0: 8: 5.82 (485.82 sec)	Binary
20334	Time Step No. = 1640	Elapsed Time = 1.334443E+06 days		
20335	Date: 02/13/07	Time: 14:19:56	CPU Time: 0 0: 8:11.18 (491.18 sec)	Binary
20337	Time Step No. = 1660	Elapsed Time = 1.375587E+06 days		
20338	Date: 02/13/07	Time: 14:20:01	CPU Time: 0 0: 8:16.49 (496.49 sec)	Binary
20340	Time Step No. = 1680	Elapsed Time = 1.524609E+06 days		
20341	Date: 02/13/07	Time: 14:20:08	CPU Time: 0 0: 8:23.09 (503.09 sec)	Binary
20343	Time Step No. = 1700	Elapsed Time = 1.718303E+06 days		
20344	Date: 02/13/07	Time: 14:20:16	CPU Time: 0 0: 8:30.88 (510.88 sec)	Binary
20346	Time Step No. = 1720	Elapsed Time = 1.734169E+06 days		
20347	Date: 02/13/07	Time: 14:20:21	CPU Time: 0 0: 8:35.85 (515.85 sec)	Binary
20349	Time Step No. = 1740	Elapsed Time = 2.019845E+06 days		
20350	Date: 02/13/07	Time: 14:20:29	CPU Time: 0 0: 8:43.66 (523.66 sec)	Binary
20352	Time Step No. = 1760	Elapsed Time = 2.027910E+06 days		

20353 Date: 02/13/07 Time: 14:20:36 CPU Time: 0 0: 8:51.52 (531.52 sec) Binary
20355 Time Step No. = 1780 Elapsed Time = 2.089115E+06 days
20356 Date: 02/13/07 Time: 14:20:43 CPU Time: 0 0: 8:58.24 (538.24 sec) Binary
20358 Time Step No. = 1800 Elapsed Time = 2.128138E+06 days
20359 Date: 02/13/07 Time: 14:20:50 CPU Time: 0 0: 9: 5.51 (545.51 sec) Binary
20361 Time Step No. = 1820 Elapsed Time = 2.402891E+06 days
20362 Date: 02/13/07 Time: 14:20:59 CPU Time: 0 0: 9:13.98 (553.98 sec) Binary
20364 Time Step No. = 1840 Elapsed Time = 2.466271E+06 days
20365 Date: 02/13/07 Time: 14:21:07 CPU Time: 0 0: 9:21.91 (561.91 sec) Binary
20367 Time Step No. = 1860 Elapsed Time = 2.672622E+06 days
20368 Date: 02/13/07 Time: 14:21:15 CPU Time: 0 0: 9:29.59 (569.59 sec) Binary
20370 Time Step No. = 1880 Elapsed Time = 2.865793E+06 days
20371 Date: 02/13/07 Time: 14:21:22 CPU Time: 0 0: 9:37.11 (577.11 sec) Binary
20373 Time Step No. = 1900 Elapsed Time = 2.904071E+06 days
20374 Date: 02/13/07 Time: 14:21:29 CPU Time: 0 0: 9:44.14 (584.14 sec) Binary
20376 Time Step No. = 1920 Elapsed Time = 3.211642E+06 days
20377 Date: 02/13/07 Time: 14:21:36 CPU Time: 0 0: 9:51.42 (591.42 sec) Binary
20379 Time Step No. = 1940 Elapsed Time = 3.611642E+06 days
20380 Date: 02/13/07 Time: 14:21:43 CPU Time: 0 0: 9:57.81 (597.81 sec) Binary
20383 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
20060 Date: 04/06/06 Time: 15:55:51 CPU Time: 0 0: 3:36.09 (216.09 sec) ASCII
20062 Time Step No. = 803 Elapsed Time = 3.652644E+05 days
20063 Date: 04/06/06 Time: 15:55:51 CPU Time: 0 0: 3:36.11 (216.11 sec) Binary
20065 Time Step No. = 820 Elapsed Time = 3.653083E+05 days
20066 Date: 04/06/06 Time: 15:55:55 CPU Time: 0 0: 3:40.06 (220.06 sec) Binary
20068 Time Step No. = 840 Elapsed Time = 3.654241E+05 days
20069 Date: 04/06/06 Time: 15:56:01 CPU Time: 0 0: 3:45.76 (225.76 sec) Binary
20071 Time Step No. = 860 Elapsed Time = 3.659611E+05 days
20072 Date: 04/06/06 Time: 15:56:07 CPU Time: 0 0: 3:51.31 (231.31 sec) Binary
20074 Time Step No. = 880 Elapsed Time = 3.665388E+05 days
20075 Date: 04/06/06 Time: 15:56:10 CPU Time: 0 0: 3:54.55 (234.55 sec) Binary
20077 Time Step No. = 900 Elapsed Time = 3.665643E+05 days
20078 Date: 04/06/06 Time: 15:56:11 CPU Time: 0 0: 3:55.97 (235.97 sec) Binary
20080 Time Step No. = 920 Elapsed Time = 3.687806E+05 days
20081 Date: 04/06/06 Time: 15:56:15 CPU Time: 0 0: 3:59.44 (239.44 sec) Binary
20083 Time Step No. = 940 Elapsed Time = 3.726602E+05 days
20084 Date: 04/06/06 Time: 15:56:23 CPU Time: 0 0: 4: 7.23 (247.23 sec) Binary
20086 Time Step No. = 960 Elapsed Time = 3.777459E+05 days
20087 Date: 04/06/06 Time: 15:56:29 CPU Time: 0 0: 4:13.32 (253.32 sec) Binary
20089 Time Step No. = 980 Elapsed Time = 3.943263E+05 days
20090 Date: 04/06/06 Time: 15:56:35 CPU Time: 0 0: 4:19.78 (259.78 sec) Binary
20092 Time Step No. = 1000 Elapsed Time = 4.162550E+05 days
20093 Date: 04/06/06 Time: 15:56:41 CPU Time: 0 0: 4:25.55 (265.55 sec) Binary
20095 Time Step No. = 1020 Elapsed Time = 4.353864E+05 days
20096 Date: 04/06/06 Time: 15:56:48 CPU Time: 0 0: 4:32.51 (272.51 sec) Binary
20098 Time Step No. = 1040 Elapsed Time = 4.585234E+05 days
20099 Date: 04/06/06 Time: 15:56:54 CPU Time: 0 0: 4:38.03 (278.03 sec) Binary
20101 Time Step No. = 1060 Elapsed Time = 5.099879E+05 days
20102 Date: 04/06/06 Time: 15:57:01 CPU Time: 0 0: 4:45.73 (285.73 sec) Binary
20104 Time Step No. = 1080 Elapsed Time = 5.143304E+05 days
20105 Date: 04/06/06 Time: 15:57:06 CPU Time: 0 0: 4:50.10 (290.10 sec) Binary
20107 Time Step No. = 1100 Elapsed Time = 5.154704E+05 days
20108 Date: 04/06/06 Time: 15:57:09 CPU Time: 0 0: 4:53.03 (293.03 sec) Binary
20110 Time Step No. = 1120 Elapsed Time = 5.565073E+05 days
20111 Date: 04/06/06 Time: 15:57:16 CPU Time: 0 0: 5: 0.19 (300.19 sec) Binary
20113 Time Step No. = 1140 Elapsed Time = 5.900105E+05 days
20114 Date: 04/06/06 Time: 15:57:20 CPU Time: 0 0: 5: 4.55 (304.55 sec) Binary
20116 Time Step No. = 1160 Elapsed Time = 5.917396E+05 days
20117 Date: 04/06/06 Time: 15:57:26 CPU Time: 0 0: 5:10.69 (310.69 sec) Binary
20119 Time Step No. = 1180 Elapsed Time = 6.207847E+05 days
20120 Date: 04/06/06 Time: 15:57:31 CPU Time: 0 0: 5:15.00 (315.00 sec) Binary
20122 Time Step No. = 1200 Elapsed Time = 7.988527E+05 days
20123 Date: 04/06/06 Time: 15:57:41 CPU Time: 0 0: 5:25.22 (325.22 sec) Binary
20125 Time Step No. = 1220 Elapsed Time = 7.990476E+05 days
20126 Date: 04/06/06 Time: 15:57:43 CPU Time: 0 0: 5:26.97 (326.97 sec) Binary
20128 Time Step No. = 1240 Elapsed Time = 7.999523E+05 days
20129 Date: 04/06/06 Time: 15:57:46 CPU Time: 0 0: 5:30.15 (330.15 sec) Binary
20131 Time Step No. = 1260 Elapsed Time = 8.036273E+05 days
20132 Date: 04/06/06 Time: 15:57:49 CPU Time: 0 0: 5:33.05 (333.05 sec) Binary
20134 Time Step No. = 1280 Elapsed Time = 8.095812E+05 days
20135 Date: 04/06/06 Time: 15:57:59 CPU Time: 0 0: 5:43.10 (343.10 sec) Binary
20137 Time Step No. = 1300 Elapsed Time = 8.097922E+05 days
20138 Date: 04/06/06 Time: 15:58:01 CPU Time: 0 0: 5:45.22 (345.22 sec) Binary
20140 Time Step No. = 1320 Elapsed Time = 8.172796E+05 days

20141 Date: 04/06/06 Time: 15:58:09 CPU Time: 0 0: 5:52.79 (352.79 sec) Binary
20143 Time Step No. = 1340 Elapsed Time = 8.174733E+05 days
20144 Date: 04/06/06 Time: 15:58:11 CPU Time: 0 0: 5:55.01 (355.01 sec) Binary
20146 Time Step No. = 1360 Elapsed Time = 8.176452E+05 days
20147 Date: 04/06/06 Time: 15:58:15 CPU Time: 0 0: 5:59.14 (359.14 sec) Binary
20149 Time Step No. = 1380 Elapsed Time = 8.205265E+05 days
20150 Date: 04/06/06 Time: 15:58:19 CPU Time: 0 0: 6: 3.32 (363.32 sec) Binary
20152 Time Step No. = 1400 Elapsed Time = 8.478698E+05 days
20153 Date: 04/06/06 Time: 15:58:23 CPU Time: 0 0: 6: 7.27 (367.27 sec) Binary
20155 Time Step No. = 1420 Elapsed Time = 1.025254E+06 days
20156 Date: 04/06/06 Time: 15:58:32 CPU Time: 0 0: 6:16.43 (376.43 sec) Binary
20158 Time Step No. = 1440 Elapsed Time = 1.025565E+06 days
20159 Date: 04/06/06 Time: 15:58:35 CPU Time: 0 0: 6:18.79 (378.79 sec) Binary
20161 Time Step No. = 1460 Elapsed Time = 1.026679E+06 days
20162 Date: 04/06/06 Time: 15:58:38 CPU Time: 0 0: 6:22.37 (382.37 sec) Binary
20164 Time Step No. = 1480 Elapsed Time = 1.039111E+06 days
20165 Date: 04/06/06 Time: 15:58:43 CPU Time: 0 0: 6:26.85 (386.85 sec) Binary
20167 Time Step No. = 1500 Elapsed Time = 1.047557E+06 days
20168 Date: 04/06/06 Time: 15:58:47 CPU Time: 0 0: 6:30.92 (390.92 sec) Binary
20170 Time Step No. = 1520 Elapsed Time = 1.047671E+06 days
20171 Date: 04/06/06 Time: 15:58:54 CPU Time: 0 0: 6:38.36 (398.36 sec) Binary
20173 Time Step No. = 1540 Elapsed Time = 1.047991E+06 days
20174 Date: 04/06/06 Time: 15:58:59 CPU Time: 0 0: 6:42.66 (402.66 sec) Binary
20176 Time Step No. = 1560 Elapsed Time = 1.052298E+06 days
20177 Date: 04/06/06 Time: 15:59:01 CPU Time: 0 0: 6:45.40 (405.40 sec) Binary
20179 Time Step No. = 1580 Elapsed Time = 1.207615E+06 days
20180 Date: 04/06/06 Time: 15:59:06 CPU Time: 0 0: 6:50.21 (410.21 sec) Binary
20182 Time Step No. = 1600 Elapsed Time = 1.311097E+06 days
20183 Date: 04/06/06 Time: 15:59:10 CPU Time: 0 0: 6:53.70 (413.70 sec) Binary
20185 Time Step No. = 1620 Elapsed Time = 1.322737E+06 days
20186 Date: 04/06/06 Time: 15:59:16 CPU Time: 0 0: 7: 0.34 (420.34 sec) Binary
20188 Time Step No. = 1640 Elapsed Time = 1.334443E+06 days
20189 Date: 04/06/06 Time: 15:59:21 CPU Time: 0 0: 7: 4.67 (424.67 sec) Binary
20191 Time Step No. = 1660 Elapsed Time = 1.375587E+06 days
20192 Date: 04/06/06 Time: 15:59:25 CPU Time: 0 0: 7: 8.90 (428.90 sec) Binary
20194 Time Step No. = 1680 Elapsed Time = 1.524609E+06 days
20195 Date: 04/06/06 Time: 15:59:30 CPU Time: 0 0: 7:14.23 (434.23 sec) Binary
20197 Time Step No. = 1700 Elapsed Time = 1.718303E+06 days
20198 Date: 04/06/06 Time: 15:59:36 CPU Time: 0 0: 7:20.47 (440.47 sec) Binary
20200 Time Step No. = 1720 Elapsed Time = 1.734169E+06 days
20201 Date: 04/06/06 Time: 15:59:40 CPU Time: 0 0: 7:24.44 (444.44 sec) Binary
20203 Time Step No. = 1740 Elapsed Time = 2.019845E+06 days
20204 Date: 04/06/06 Time: 15:59:47 CPU Time: 0 0: 7:30.73 (450.73 sec) Binary
20206 Time Step No. = 1760 Elapsed Time = 2.027910E+06 days
20207 Date: 04/06/06 Time: 15:59:53 CPU Time: 0 0: 7:37.04 (457.04 sec) Binary
20209 Time Step No. = 1780 Elapsed Time = 2.089115E+06 days
20210 Date: 04/06/06 Time: 15:59:58 CPU Time: 0 0: 7:42.42 (462.42 sec) Binary
20212 Time Step No. = 1800 Elapsed Time = 2.128138E+06 days
20213 Date: 04/06/06 Time: 16:00:04 CPU Time: 0 0: 7:48.22 (468.22 sec) Binary
20215 Time Step No. = 1820 Elapsed Time = 2.402891E+06 days
20216 Date: 04/06/06 Time: 16:00:11 CPU Time: 0 0: 7:55.01 (475.01 sec) Binary
20218 Time Step No. = 1840 Elapsed Time = 2.466271E+06 days
20219 Date: 04/06/06 Time: 16:00:18 CPU Time: 0 0: 8: 1.41 (481.41 sec) Binary
20221 Time Step No. = 1860 Elapsed Time = 2.672622E+06 days
20222 Date: 04/06/06 Time: 16:00:24 CPU Time: 0 0: 8: 7.57 (487.57 sec) Binary
20224 Time Step No. = 1880 Elapsed Time = 2.865793E+06 days
20225 Date: 04/06/06 Time: 16:00:30 CPU Time: 0 0: 8:13.99 (493.99 sec) Binary
20227 Time Step No. = 1900 Elapsed Time = 2.904071E+06 days
20228 Date: 04/06/06 Time: 16:00:36 CPU Time: 0 0: 8:19.98 (499.98 sec) Binary
20230 Time Step No. = 1920 Elapsed Time = 3.211642E+06 days
20231 Date: 04/06/06 Time: 16:00:42 CPU Time: 0 0: 8:26.22 (506.22 sec) Binary
20233 Time Step No. = 1940 Elapsed Time = 3.611642E+06 days
20234 Date: 04/06/06 Time: 16:00:48 CPU Time: 0 0: 8:31.71 (511.71 sec) Binary
20237 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
20399 CPU Time (this time step) = 0.20 sec = 0.00006 hr
20400 CPU Time (total for run) = 598.64 sec = 0.16629 hr
20401 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
20253 CPU Time (this time step) = 0.17 sec = 0.00005 hr
20254 CPU Time (total for run) = 512.43 sec = 0.14234 hr
20255 *****

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
24962 Date: 02/13/07 Time: 14:21:44 CPU Time: 0 0: 9:58.73 ( 598.73 sec) ASCII
24964 Time Step No. = 1943 Elapsed Time = 3.652431E+06 days
24965 Date: 02/13/07 Time: 14:21:44 CPU Time: 0 0: 9:58.75 ( 598.75 sec) Binary
24970 *****
24971 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
24972 * Completed: 02/13/07 at 14:21:44 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
24973 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
24816 Date: 04/06/06 Time: 16:00:49 CPU Time: 0 0: 8:32.52 ( 512.52 sec) ASCII
24818 Time Step No. = 1943 Elapsed Time = 3.652431E+06 days
24819 Date: 04/06/06 Time: 16:00:49 CPU Time: 0 0: 8:32.53 ( 512.53 sec) Binary
24824 *****
24825 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
24826 * Completed: 04/06/06 at 16:00:49 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
24827 *****
*****
```

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

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

A.6.4 Test Case 6: Output Difference Files, BF2_QB0600_ES40_TEST6_OUT.DIF and BF2_QB0600_ES45_TEST6_OUT.DIF

BF2_QB0600_ES40_TEST6_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
3 ** Begun on: 02/14/07 at 08:53:00 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
3 ** Begun on: 02/13/07 at 14:11:43 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_TEST6.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.SUM;1
```

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77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
1810 CPU Time (this time step) = 0.17 sec = 0.00005 hr
1811 CPU Time (total for run) = 31.00 sec = 0.00861 hr
1812 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
1810 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1811 CPU Time (total for run) = 23.09 sec = 0.00641 hr
1812 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
6373 Date: 02/14/07 Time: 08:53:32 CPU Time: 0 0: 0:31.10 ( 31.10 sec) ASCII
6375 Time Step No. = 135 Elapsed Time = 0.000000E+00 days
6376 Date: 02/14/07 Time: 08:53:32 CPU Time: 0 0: 0:31.11 ( 31.11 sec) Binary
6378 Time Step No. = 140 Elapsed Time = 8.207031E-02 days
6379 Date: 02/14/07 Time: 08:53:33 CPU Time: 0 0: 0:32.54 ( 32.54 sec) Binary
6381 Time Step No. = 160 Elapsed Time = 6.773074E+00 days
6382 Date: 02/14/07 Time: 08:53:38 CPU Time: 0 0: 0:37.26 ( 37.26 sec) Binary
6384 Time Step No. = 180 Elapsed Time = 1.856436E+02 days
6385 Date: 02/14/07 Time: 08:53:43 CPU Time: 0 0: 0:42.21 ( 42.21 sec) Binary
6387 Time Step No. = 200 Elapsed Time = 1.266619E+03 days
6388 Date: 02/14/07 Time: 08:53:51 CPU Time: 0 0: 0:49.91 ( 49.91 sec) Binary
6390 Time Step No. = 220 Elapsed Time = 1.297866E+04 days
6391 Date: 02/14/07 Time: 08:53:59 CPU Time: 0 0: 0:57.58 ( 57.58 sec) Binary
6393 Time Step No. = 240 Elapsed Time = 3.652431E+04 days
6394 Date: 02/14/07 Time: 08:54:19 CPU Time: 0 0: 1:18.47 ( 78.47 sec) Binary
6396 Time Step No. = 260 Elapsed Time = 3.652431E+04 days
6397 Date: 02/14/07 Time: 08:54:23 CPU Time: 0 0: 1:22.18 ( 82.18 sec) Binary
6399 Time Step No. = 280 Elapsed Time = 3.652431E+04 days
6400 Date: 02/14/07 Time: 08:54:27 CPU Time: 0 0: 1:26.34 ( 86.34 sec) Binary
6402 Time Step No. = 300 Elapsed Time = 3.652436E+04 days
6403 Date: 02/14/07 Time: 08:54:32 CPU Time: 0 0: 1:30.85 ( 90.85 sec) Binary
6405 Time Step No. = 320 Elapsed Time = 3.652923E+04 days
6406 Date: 02/14/07 Time: 08:54:36 CPU Time: 0 0: 1:34.57 ( 94.57 sec) Binary
6408 Time Step No. = 340 Elapsed Time = 3.665792E+04 days
6409 Date: 02/14/07 Time: 08:54:41 CPU Time: 0 0: 1:39.54 ( 99.54 sec) Binary
6411 Time Step No. = 360 Elapsed Time = 3.666839E+04 days
6412 Date: 02/14/07 Time: 08:54:43 CPU Time: 0 0: 1:42.47 ( 102.47 sec) Binary
6414 Time Step No. = 380 Elapsed Time = 3.702040E+04 days
6415 Date: 02/14/07 Time: 08:54:49 CPU Time: 0 0: 1:48.24 ( 108.24 sec) Binary
6417 Time Step No. = 400 Elapsed Time = 3.811571E+04 days
6418 Date: 02/14/07 Time: 08:54:59 CPU Time: 0 0: 1:58.18 ( 118.18 sec) Binary
6421 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
6373 Date: 02/13/07 Time: 14:12:07 CPU Time: 0 0: 0:23.15 ( 23.15 sec) ASCII
6375 Time Step No. = 135 Elapsed Time = 0.000000E+00 days
6376 Date: 02/13/07 Time: 14:12:07 CPU Time: 0 0: 0:23.17 ( 23.17 sec) Binary
6378 Time Step No. = 140 Elapsed Time = 8.207031E-02 days
6379 Date: 02/13/07 Time: 14:12:08 CPU Time: 0 0: 0:24.20 ( 24.20 sec) Binary
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6381 Time Step No. = 160 Elapsed Time = 6.773074E+00 days
6382 Date: 02/13/07 Time: 14:12:11 CPU Time: 0 0: 0:27.57 ( 27.57 sec) Binary
6384 Time Step No. = 180 Elapsed Time = 1.856436E+02 days
6385 Date: 02/13/07 Time: 14:12:15 CPU Time: 0 0: 0:31.15 ( 31.15 sec) Binary
6387 Time Step No. = 200 Elapsed Time = 1.266619E+03 days
6388 Date: 02/13/07 Time: 14:12:20 CPU Time: 0 0: 0:36.67 ( 36.67 sec) Binary
6390 Time Step No. = 220 Elapsed Time = 1.297866E+04 days
6391 Date: 02/13/07 Time: 14:12:26 CPU Time: 0 0: 0:42.13 ( 42.13 sec) Binary
6393 Time Step No. = 240 Elapsed Time = 3.652431E+04 days
6394 Date: 02/13/07 Time: 14:12:41 CPU Time: 0 0: 0:57.61 ( 57.61 sec) Binary
6396 Time Step No. = 260 Elapsed Time = 3.652431E+04 days
6397 Date: 02/13/07 Time: 14:12:44 CPU Time: 0 0: 1: 0.47 ( 60.47 sec) Binary
6399 Time Step No. = 280 Elapsed Time = 3.652431E+04 days
6400 Date: 02/13/07 Time: 14:12:47 CPU Time: 0 0: 1: 3.66 ( 63.66 sec) Binary
6402 Time Step No. = 300 Elapsed Time = 3.652436E+04 days
6403 Date: 02/13/07 Time: 14:12:51 CPU Time: 0 0: 1: 7.11 ( 67.11 sec) Binary
6405 Time Step No. = 320 Elapsed Time = 3.652923E+04 days
6406 Date: 02/13/07 Time: 14:12:54 CPU Time: 0 0: 1: 9.96 ( 69.96 sec) Binary
6408 Time Step No. = 340 Elapsed Time = 3.665792E+04 days
6409 Date: 02/13/07 Time: 14:12:57 CPU Time: 0 0: 1:13.56 ( 73.56 sec) Binary
6411 Time Step No. = 360 Elapsed Time = 3.666839E+04 days
6412 Date: 02/13/07 Time: 14:13:00 CPU Time: 0 0: 1:15.63 ( 75.63 sec) Binary
6414 Time Step No. = 380 Elapsed Time = 3.702040E+04 days
6415 Date: 02/13/07 Time: 14:13:04 CPU Time: 0 0: 1:19.71 ( 79.71 sec) Binary
6417 Time Step No. = 400 Elapsed Time = 3.811571E+04 days
6418 Date: 02/13/07 Time: 14:13:11 CPU Time: 0 0: 1:26.76 ( 86.76 sec) Binary
6421 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
6429 CPU Time (this time step) = 0.53 sec = 0.00015 hr
6430 CPU Time (total for run) = 125.85 sec = 0.03496 hr
6431 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
6429 CPU Time (this time step) = 0.37 sec = 0.00010 hr
6430 CPU Time (total for run) = 92.24 sec = 0.02562 hr
6431 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
10992 Date: 02/14/07 Time: 08:55:07 CPU Time: 0 0: 2: 5.96 ( 125.96 sec) ASCII
10994 Time Step No. = 418 Elapsed Time = 7.304861E+04 days
10995 Date: 02/14/07 Time: 08:55:07 CPU Time: 0 0: 2: 5.96 ( 125.96 sec) Binary
10997 Time Step No. = 420 Elapsed Time = 8.669839E+04 days
10998 Date: 02/14/07 Time: 08:55:09 CPU Time: 0 0: 2: 7.28 ( 127.28 sec) Binary
11000 Time Step No. = 440 Elapsed Time = 2.216406E+05 days
11001 Date: 02/14/07 Time: 08:55:20 CPU Time: 0 0: 2:18.49 ( 138.49 sec) Binary
11003 Time Step No. = 460 Elapsed Time = 2.488238E+05 days
11004 Date: 02/14/07 Time: 08:55:34 CPU Time: 0 0: 2:32.44 ( 152.44 sec) Binary
11006 Time Step No. = 480 Elapsed Time = 2.511960E+05 days
11007 Date: 02/14/07 Time: 08:55:40 CPU Time: 0 0: 2:38.41 ( 158.41 sec) Binary
11009 Time Step No. = 500 Elapsed Time = 2.923516E+05 days
11010 Date: 02/14/07 Time: 08:55:53 CPU Time: 0 0: 2:51.38 ( 171.38 sec) Binary
11012 Time Step No. = 520 Elapsed Time = 2.937006E+05 days
11013 Date: 02/14/07 Time: 08:56:06 CPU Time: 0 0: 3: 4.58 ( 184.58 sec) Binary
11015 Time Step No. = 540 Elapsed Time = 2.996768E+05 days
11016 Date: 02/14/07 Time: 08:56:15 CPU Time: 0 0: 3:13.86 ( 193.86 sec) Binary
11018 Time Step No. = 560 Elapsed Time = 3.032487E+05 days
11019 Date: 02/14/07 Time: 08:56:30 CPU Time: 0 0: 3:28.46 ( 208.46 sec) Binary
11021 Time Step No. = 580 Elapsed Time = 3.049319E+05 days
11022 Date: 02/14/07 Time: 08:56:39 CPU Time: 0 0: 3:37.81 ( 217.81 sec) Binary
11024 Time Step No. = 600 Elapsed Time = 3.135519E+05 days
11025 Date: 02/14/07 Time: 08:56:53 CPU Time: 0 0: 3:51.35 ( 231.35 sec) Binary
11027 Time Step No. = 620 Elapsed Time = 3.149492E+05 days
11028 Date: 02/14/07 Time: 08:57:03 CPU Time: 0 0: 4: 1.93 ( 241.93 sec) Binary
11030 Time Step No. = 640 Elapsed Time = 3.161170E+05 days
11031 Date: 02/14/07 Time: 08:57:15 CPU Time: 0 0: 4:13.39 ( 253.39 sec) Binary
11033 Time Step No. = 660 Elapsed Time = 3.173440E+05 days
11034 Date: 02/14/07 Time: 08:57:28 CPU Time: 0 0: 4:26.07 ( 266.07 sec) Binary
11036 Time Step No. = 680 Elapsed Time = 3.204458E+05 days
11037 Date: 02/14/07 Time: 08:57:38 CPU Time: 0 0: 4:37.00 ( 277.00 sec) Binary
11039 Time Step No. = 700 Elapsed Time = 3.283157E+05 days
11040 Date: 02/14/07 Time: 08:57:51 CPU Time: 0 0: 4:49.66 ( 289.66 sec) Binary
11043 *****
*****
```

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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
10992 Date: 02/13/07 Time: 14:13:16 CPU Time: 0 0: 1:32.31 ( 92.31 sec) ASCII
10994 Time Step No. = 418 Elapsed Time = 7.304861E+04 days
10995 Date: 02/13/07 Time: 14:13:16 CPU Time: 0 0: 1:32.31 ( 92.31 sec) Binary
10997 Time Step No. = 420 Elapsed Time = 8.669839E+04 days
10998 Date: 02/13/07 Time: 14:13:17 CPU Time: 0 0: 1:33.27 ( 93.27 sec) Binary
11000 Time Step No. = 440 Elapsed Time = 2.216406E+05 days
11001 Date: 02/13/07 Time: 14:13:25 CPU Time: 0 0: 1:41.27 ( 101.27 sec) Binary
11003 Time Step No. = 460 Elapsed Time = 2.488238E+05 days
11004 Date: 02/13/07 Time: 14:13:35 CPU Time: 0 0: 1:51.22 ( 111.22 sec) Binary
11006 Time Step No. = 480 Elapsed Time = 2.511960E+05 days
11007 Date: 02/13/07 Time: 14:13:39 CPU Time: 0 0: 1:55.48 ( 115.48 sec) Binary
11009 Time Step No. = 500 Elapsed Time = 2.923516E+05 days
11010 Date: 02/13/07 Time: 14:13:49 CPU Time: 0 0: 2: 4.69 ( 124.69 sec) Binary
11012 Time Step No. = 520 Elapsed Time = 2.937006E+05 days
11013 Date: 02/13/07 Time: 14:13:58 CPU Time: 0 0: 2:14.04 ( 134.04 sec) Binary
11015 Time Step No. = 540 Elapsed Time = 2.996768E+05 days
11016 Date: 02/13/07 Time: 14:14:05 CPU Time: 0 0: 2:20.63 ( 140.63 sec) Binary
11018 Time Step No. = 560 Elapsed Time = 3.032487E+05 days
11019 Date: 02/13/07 Time: 14:14:15 CPU Time: 0 0: 2:31.01 ( 151.01 sec) Binary
11021 Time Step No. = 580 Elapsed Time = 3.049319E+05 days
11022 Date: 02/13/07 Time: 14:14:22 CPU Time: 0 0: 2:37.65 ( 157.65 sec) Binary
11024 Time Step No. = 600 Elapsed Time = 3.135519E+05 days
11025 Date: 02/13/07 Time: 14:14:31 CPU Time: 0 0: 2:47.28 ( 167.28 sec) Binary
11027 Time Step No. = 620 Elapsed Time = 3.149492E+05 days
11028 Date: 02/13/07 Time: 14:14:39 CPU Time: 0 0: 2:54.80 ( 174.80 sec) Binary
11030 Time Step No. = 640 Elapsed Time = 3.161170E+05 days
11031 Date: 02/13/07 Time: 14:14:47 CPU Time: 0 0: 3: 2.94 ( 182.94 sec) Binary
11033 Time Step No. = 660 Elapsed Time = 3.173440E+05 days
11034 Date: 02/13/07 Time: 14:14:56 CPU Time: 0 0: 3:11.95 ( 191.95 sec) Binary
11036 Time Step No. = 680 Elapsed Time = 3.204458E+05 days
11037 Date: 02/13/07 Time: 14:15:04 CPU Time: 0 0: 3:19.71 ( 199.71 sec) Binary
11039 Time Step No. = 700 Elapsed Time = 3.283157E+05 days
11040 Date: 02/13/07 Time: 14:15:13 CPU Time: 0 0: 3:28.72 ( 208.72 sec) Binary
11043 *****
*****
*****
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
11051 CPU Time (this time step) = 0.35 sec = 0.00010 hr
11052 CPU Time (total for run) = 291.50 sec = 0.08097 hr
11053 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
11051 CPU Time (this time step) = 0.25 sec = 0.00007 hr
11052 CPU Time (total for run) = 210.03 sec = 0.05834 hr
11053 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
15614 Date: 02/14/07 Time: 08:57:53 CPU Time: 0 0: 4:51.59 ( 291.59 sec) ASCII
15616 Time Step No. = 703 Elapsed Time = 3.287179E+05 days
15617 Date: 02/14/07 Time: 08:57:53 CPU Time: 0 0: 4:51.60 ( 291.60 sec) Binary
15619 Time Step No. = 720 Elapsed Time = 3.327229E+05 days
15620 Date: 02/14/07 Time: 08:58:04 CPU Time: 0 0: 5: 1.91 ( 301.91 sec) Binary
15622 Time Step No. = 740 Elapsed Time = 3.346052E+05 days
15623 Date: 02/14/07 Time: 08:58:16 CPU Time: 0 0: 5:14.29 ( 314.29 sec) Binary
15625 Time Step No. = 760 Elapsed Time = 3.499571E+05 days
15626 Date: 02/14/07 Time: 08:58:27 CPU Time: 0 0: 5:25.18 ( 325.18 sec) Binary
15628 Time Step No. = 780 Elapsed Time = 3.566330E+05 days
15629 Date: 02/14/07 Time: 08:58:37 CPU Time: 0 0: 5:35.20 ( 335.20 sec) Binary
15631 Time Step No. = 800 Elapsed Time = 3.652602E+05 days
15632 Date: 02/14/07 Time: 08:58:45 CPU Time: 0 0: 5:43.43 ( 343.43 sec) Binary
15635 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
15614 Date: 02/13/07 Time: 14:15:14 CPU Time: 0 0: 3:30.12 ( 210.12 sec) ASCII
15616 Time Step No. = 703 Elapsed Time = 3.287179E+05 days
15617 Date: 02/13/07 Time: 14:15:14 CPU Time: 0 0: 3:30.12 ( 210.12 sec) Binary
15619 Time Step No. = 720 Elapsed Time = 3.327229E+05 days
15620 Date: 02/13/07 Time: 14:15:22 CPU Time: 0 0: 3:37.40 ( 217.40 sec) Binary
15622 Time Step No. = 740 Elapsed Time = 3.346052E+05 days
15623 Date: 02/13/07 Time: 14:15:30 CPU Time: 0 0: 3:46.08 ( 226.08 sec) Binary
15625 Time Step No. = 760 Elapsed Time = 3.499571E+05 days
15626 Date: 02/13/07 Time: 14:15:38 CPU Time: 0 0: 3:53.73 ( 233.73 sec) Binary
15628 Time Step No. = 780 Elapsed Time = 3.566330E+05 days
15629 Date: 02/13/07 Time: 14:15:45 CPU Time: 0 0: 4: 0.76 ( 240.76 sec) Binary
```

```
15631 Time Step No. = 800 Elapsed Time = 3.652602E+05 days
15632 Date: 02/13/07 Time: 14:15:51 CPU Time: 0 0: 4: 6.55 ( 246.55 sec) Binary
15635 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
15643 CPU Time (this time step) = 0.18 sec = 0.00005 hr
15644 CPU Time (total for run) = 343.97 sec = 0.09555 hr
15645 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
15643 CPU Time (this time step) = 0.13 sec = 0.00004 hr
15644 CPU Time (total for run) = 246.93 sec = 0.06859 hr
15645 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
20206 Date: 02/14/07 Time: 08:58:46 CPU Time: 0 0: 5:44.08 ( 344.08 sec) ASCII
20208 Time Step No. = 803 Elapsed Time = 3.652644E+05 days
20209 Date: 02/14/07 Time: 08:58:46 CPU Time: 0 0: 5:44.11 ( 344.11 sec) Binary
20211 Time Step No. = 820 Elapsed Time = 3.653083E+05 days
20212 Date: 02/14/07 Time: 08:58:52 CPU Time: 0 0: 5:50.46 ( 350.46 sec) Binary
20214 Time Step No. = 840 Elapsed Time = 3.654241E+05 days
20215 Date: 02/14/07 Time: 08:59:02 CPU Time: 0 0: 5:59.67 ( 359.67 sec) Binary
20217 Time Step No. = 860 Elapsed Time = 3.659611E+05 days
20218 Date: 02/14/07 Time: 08:59:10 CPU Time: 0 0: 6: 8.63 ( 368.63 sec) Binary
20220 Time Step No. = 880 Elapsed Time = 3.665388E+05 days
20221 Date: 02/14/07 Time: 08:59:16 CPU Time: 0 0: 6:13.86 ( 373.86 sec) Binary
20223 Time Step No. = 900 Elapsed Time = 3.665643E+05 days
20224 Date: 02/14/07 Time: 08:59:18 CPU Time: 0 0: 6:16.10 ( 376.10 sec) Binary
20226 Time Step No. = 920 Elapsed Time = 3.687806E+05 days
20227 Date: 02/14/07 Time: 08:59:23 CPU Time: 0 0: 6:21.50 ( 381.50 sec) Binary
20229 Time Step No. = 940 Elapsed Time = 3.726602E+05 days
20230 Date: 02/14/07 Time: 08:59:36 CPU Time: 0 0: 6:34.04 ( 394.04 sec) Binary
20232 Time Step No. = 960 Elapsed Time = 3.777459E+05 days
20233 Date: 02/14/07 Time: 08:59:46 CPU Time: 0 0: 6:44.05 ( 404.05 sec) Binary
20235 Time Step No. = 980 Elapsed Time = 3.943263E+05 days
20236 Date: 02/14/07 Time: 08:59:57 CPU Time: 0 0: 6:54.82 ( 414.82 sec) Binary
20238 Time Step No. = 1000 Elapsed Time = 4.162550E+05 days
20239 Date: 02/14/07 Time: 09:00:06 CPU Time: 0 0: 7: 4.31 ( 424.31 sec) Binary
20241 Time Step No. = 1020 Elapsed Time = 4.353864E+05 days
20242 Date: 02/14/07 Time: 09:00:18 CPU Time: 0 0: 7:15.71 ( 435.71 sec) Binary
20244 Time Step No. = 1040 Elapsed Time = 4.585234E+05 days
20245 Date: 02/14/07 Time: 09:00:27 CPU Time: 0 0: 7:24.71 ( 444.71 sec) Binary
20247 Time Step No. = 1060 Elapsed Time = 5.099879E+05 days
20248 Date: 02/14/07 Time: 09:00:39 CPU Time: 0 0: 7:37.38 ( 457.38 sec) Binary
20250 Time Step No. = 1080 Elapsed Time = 5.143304E+05 days
20251 Date: 02/14/07 Time: 09:00:47 CPU Time: 0 0: 7:44.55 ( 464.55 sec) Binary
20253 Time Step No. = 1100 Elapsed Time = 5.154704E+05 days
20254 Date: 02/14/07 Time: 09:00:51 CPU Time: 0 0: 7:49.33 ( 469.33 sec) Binary
20256 Time Step No. = 1120 Elapsed Time = 5.565073E+05 days
20257 Date: 02/14/07 Time: 09:01:03 CPU Time: 0 0: 8: 1.05 ( 481.05 sec) Binary
20259 Time Step No. = 1140 Elapsed Time = 5.900105E+05 days
20260 Date: 02/14/07 Time: 09:01:10 CPU Time: 0 0: 8: 8.19 ( 488.19 sec) Binary
20262 Time Step No. = 1160 Elapsed Time = 5.917396E+05 days
20263 Date: 02/14/07 Time: 09:01:20 CPU Time: 0 0: 8:18.23 ( 498.23 sec) Binary
20265 Time Step No. = 1180 Elapsed Time = 6.207847E+05 days
20266 Date: 02/14/07 Time: 09:01:27 CPU Time: 0 0: 8:25.32 ( 505.32 sec) Binary
20268 Time Step No. = 1200 Elapsed Time = 7.988527E+05 days
20269 Date: 02/14/07 Time: 09:01:44 CPU Time: 0 0: 8:42.11 ( 522.11 sec) Binary
20271 Time Step No. = 1220 Elapsed Time = 7.990476E+05 days
20272 Date: 02/14/07 Time: 09:01:47 CPU Time: 0 0: 8:44.97 ( 524.97 sec) Binary
20274 Time Step No. = 1240 Elapsed Time = 7.999523E+05 days
20275 Date: 02/14/07 Time: 09:01:52 CPU Time: 0 0: 8:50.20 ( 530.20 sec) Binary
20277 Time Step No. = 1260 Elapsed Time = 8.036273E+05 days
20278 Date: 02/14/07 Time: 09:01:57 CPU Time: 0 0: 8:54.88 ( 534.88 sec) Binary
20280 Time Step No. = 1280 Elapsed Time = 8.095812E+05 days
20281 Date: 02/14/07 Time: 09:02:14 CPU Time: 0 0: 9:11.40 ( 551.40 sec) Binary
20283 Time Step No. = 1300 Elapsed Time = 8.097922E+05 days
20284 Date: 02/14/07 Time: 09:02:17 CPU Time: 0 0: 9:14.88 ( 554.88 sec) Binary
20286 Time Step No. = 1320 Elapsed Time = 8.172796E+05 days
20287 Date: 02/14/07 Time: 09:02:29 CPU Time: 0 0: 9:27.35 ( 567.35 sec) Binary
20289 Time Step No. = 1340 Elapsed Time = 8.174733E+05 days
20290 Date: 02/14/07 Time: 09:02:33 CPU Time: 0 0: 9:30.96 ( 570.96 sec) Binary
20292 Time Step No. = 1360 Elapsed Time = 8.176452E+05 days
20293 Date: 02/14/07 Time: 09:02:40 CPU Time: 0 0: 9:37.66 ( 577.66 sec) Binary
```

20295 Time Step No. = 1380 Elapsed Time = 8.205265E+05 days
20296 Date: 02/14/07 Time: 09:02:47 CPU Time: 0 0: 9:44.46 (584.46 sec) Binary
20298 Time Step No. = 1400 Elapsed Time = 8.478698E+05 days
20299 Date: 02/14/07 Time: 09:02:53 CPU Time: 0 0: 9:51.07 (591.07 sec) Binary
20301 Time Step No. = 1420 Elapsed Time = 1.025254E+06 days
20302 Date: 02/14/07 Time: 09:03:08 CPU Time: 0 0:10: 6.13 (606.13 sec) Binary
20304 Time Step No. = 1440 Elapsed Time = 1.025565E+06 days
20305 Date: 02/14/07 Time: 09:03:12 CPU Time: 0 0:10: 9.95 (609.95 sec) Binary
20307 Time Step No. = 1460 Elapsed Time = 1.026679E+06 days
20308 Date: 02/14/07 Time: 09:03:18 CPU Time: 0 0:10:15.81 (615.81 sec) Binary
20310 Time Step No. = 1480 Elapsed Time = 1.039111E+06 days
20311 Date: 02/14/07 Time: 09:03:25 CPU Time: 0 0:10:23.18 (623.18 sec) Binary
20313 Time Step No. = 1500 Elapsed Time = 1.047557E+06 days
20314 Date: 02/14/07 Time: 09:03:32 CPU Time: 0 0:10:29.82 (629.82 sec) Binary
20316 Time Step No. = 1520 Elapsed Time = 1.047671E+06 days
20317 Date: 02/14/07 Time: 09:03:44 CPU Time: 0 0:10:41.99 (641.99 sec) Binary
20319 Time Step No. = 1540 Elapsed Time = 1.047991E+06 days
20320 Date: 02/14/07 Time: 09:03:51 CPU Time: 0 0:10:48.98 (648.98 sec) Binary
20322 Time Step No. = 1560 Elapsed Time = 1.052298E+06 days
20323 Date: 02/14/07 Time: 09:03:56 CPU Time: 0 0:10:53.41 (653.41 sec) Binary
20325 Time Step No. = 1580 Elapsed Time = 1.207615E+06 days
20326 Date: 02/14/07 Time: 09:04:04 CPU Time: 0 0:11: 1.27 (661.27 sec) Binary
20328 Time Step No. = 1600 Elapsed Time = 1.311097E+06 days
20329 Date: 02/14/07 Time: 09:04:09 CPU Time: 0 0:11: 6.91 (666.91 sec) Binary
20331 Time Step No. = 1620 Elapsed Time = 1.322737E+06 days
20332 Date: 02/14/07 Time: 09:04:20 CPU Time: 0 0:11:17.73 (677.73 sec) Binary
20334 Time Step No. = 1640 Elapsed Time = 1.334443E+06 days
20335 Date: 02/14/07 Time: 09:04:27 CPU Time: 0 0:11:24.72 (684.72 sec) Binary
20337 Time Step No. = 1660 Elapsed Time = 1.375587E+06 days
20338 Date: 02/14/07 Time: 09:04:34 CPU Time: 0 0:11:31.60 (691.60 sec) Binary
20340 Time Step No. = 1680 Elapsed Time = 1.524609E+06 days
20341 Date: 02/14/07 Time: 09:04:43 CPU Time: 0 0:11:40.16 (700.16 sec) Binary
20343 Time Step No. = 1700 Elapsed Time = 1.718303E+06 days
20344 Date: 02/14/07 Time: 09:04:53 CPU Time: 0 0:11:50.34 (710.34 sec) Binary
20346 Time Step No. = 1720 Elapsed Time = 1.734169E+06 days
20347 Date: 02/14/07 Time: 09:05:00 CPU Time: 0 0:11:56.83 (716.83 sec) Binary
20349 Time Step No. = 1740 Elapsed Time = 2.019845E+06 days
20350 Date: 02/14/07 Time: 09:05:10 CPU Time: 0 0:12: 7.04 (727.04 sec) Binary
20352 Time Step No. = 1760 Elapsed Time = 2.027910E+06 days
20353 Date: 02/14/07 Time: 09:05:20 CPU Time: 0 0:12:17.33 (737.33 sec) Binary
20355 Time Step No. = 1780 Elapsed Time = 2.089115E+06 days
20356 Date: 02/14/07 Time: 09:05:29 CPU Time: 0 0:12:26.07 (746.07 sec) Binary
20358 Time Step No. = 1800 Elapsed Time = 2.128138E+06 days
20359 Date: 02/14/07 Time: 09:05:38 CPU Time: 0 0:12:35.51 (755.51 sec) Binary
20361 Time Step No. = 1820 Elapsed Time = 2.402891E+06 days
20362 Date: 02/14/07 Time: 09:05:49 CPU Time: 0 0:12:46.70 (766.70 sec) Binary
20364 Time Step No. = 1840 Elapsed Time = 2.466271E+06 days
20365 Date: 02/14/07 Time: 09:06:00 CPU Time: 0 0:12:57.14 (777.14 sec) Binary
20367 Time Step No. = 1860 Elapsed Time = 2.672622E+06 days
20368 Date: 02/14/07 Time: 09:06:10 CPU Time: 0 0:13: 7.13 (787.13 sec) Binary
20370 Time Step No. = 1880 Elapsed Time = 2.865793E+06 days
20371 Date: 02/14/07 Time: 09:06:20 CPU Time: 0 0:13:17.59 (797.59 sec) Binary
20373 Time Step No. = 1900 Elapsed Time = 2.904071E+06 days
20374 Date: 02/14/07 Time: 09:06:30 CPU Time: 0 0:13:27.49 (807.49 sec) Binary
20376 Time Step No. = 1920 Elapsed Time = 3.211642E+06 days
20377 Date: 02/14/07 Time: 09:06:40 CPU Time: 0 0:13:37.67 (817.67 sec) Binary
20379 Time Step No. = 1940 Elapsed Time = 3.611642E+06 days
20380 Date: 02/14/07 Time: 09:06:49 CPU Time: 0 0:13:46.61 (826.61 sec) Binary
20383 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
20206 Date: 02/13/07 Time: 14:15:51 CPU Time: 0 0: 4: 7.02 (247.02 sec) ASCII
20208 Time Step No. = 803 Elapsed Time = 3.652644E+05 days
20209 Date: 02/13/07 Time: 14:15:51 CPU Time: 0 0: 4: 7.03 (247.03 sec) Binary
20211 Time Step No. = 820 Elapsed Time = 3.653083E+05 days
20212 Date: 02/13/07 Time: 14:15:56 CPU Time: 0 0: 4:11.52 (251.52 sec) Binary
20214 Time Step No. = 840 Elapsed Time = 3.654241E+05 days
20215 Date: 02/13/07 Time: 14:16:02 CPU Time: 0 0: 4:18.00 (258.00 sec) Binary
20217 Time Step No. = 860 Elapsed Time = 3.659611E+05 days
20218 Date: 02/13/07 Time: 14:16:09 CPU Time: 0 0: 4:24.31 (264.31 sec) Binary
20220 Time Step No. = 880 Elapsed Time = 3.665388E+05 days
20221 Date: 02/13/07 Time: 14:16:12 CPU Time: 0 0: 4:28.01 (268.01 sec) Binary
20223 Time Step No. = 900 Elapsed Time = 3.665643E+05 days
20224 Date: 02/13/07 Time: 14:16:14 CPU Time: 0 0: 4:29.58 (269.58 sec) Binary
20226 Time Step No. = 920 Elapsed Time = 3.687806E+05 days
20227 Date: 02/13/07 Time: 14:16:18 CPU Time: 0 0: 4:33.40 (273.40 sec) Binary

20229 Time Step No. = 940 Elapsed Time = 3.726602E+05 days
20230 Date: 02/13/07 Time: 14:16:27 CPU Time: 0 0: 4:42.23 (282.23 sec) Binary
20232 Time Step No. = 960 Elapsed Time = 3.777459E+05 days
20233 Date: 02/13/07 Time: 14:16:34 CPU Time: 0 0: 4:49.27 (289.27 sec) Binary
20235 Time Step No. = 980 Elapsed Time = 3.943263E+05 days
20236 Date: 02/13/07 Time: 14:16:41 CPU Time: 0 0: 4:56.74 (296.74 sec) Binary
20238 Time Step No. = 1000 Elapsed Time = 4.162550E+05 days
20239 Date: 02/13/07 Time: 14:16:48 CPU Time: 0 0: 5: 3.47 (303.47 sec) Binary
20241 Time Step No. = 1020 Elapsed Time = 4.353864E+05 days
20242 Date: 02/13/07 Time: 14:16:56 CPU Time: 0 0: 5:11.87 (311.87 sec) Binary
20244 Time Step No. = 1040 Elapsed Time = 4.585234E+05 days
20245 Date: 02/13/07 Time: 14:17:03 CPU Time: 0 0: 5:18.24 (318.24 sec) Binary
20247 Time Step No. = 1060 Elapsed Time = 5.099879E+05 days
20248 Date: 02/13/07 Time: 14:17:12 CPU Time: 0 0: 5:27.26 (327.26 sec) Binary
20250 Time Step No. = 1080 Elapsed Time = 5.143304E+05 days
20251 Date: 02/13/07 Time: 14:17:17 CPU Time: 0 0: 5:32.38 (332.38 sec) Binary
20253 Time Step No. = 1100 Elapsed Time = 5.154704E+05 days
20254 Date: 02/13/07 Time: 14:17:20 CPU Time: 0 0: 5:35.80 (335.80 sec) Binary
20256 Time Step No. = 1120 Elapsed Time = 5.565073E+05 days
20257 Date: 02/13/07 Time: 14:17:29 CPU Time: 0 0: 5:44.17 (344.17 sec) Binary
20259 Time Step No. = 1140 Elapsed Time = 5.900105E+05 days
20260 Date: 02/13/07 Time: 14:17:34 CPU Time: 0 0: 5:49.28 (349.28 sec) Binary
20262 Time Step No. = 1160 Elapsed Time = 5.917396E+05 days
20263 Date: 02/13/07 Time: 14:17:41 CPU Time: 0 0: 5:56.49 (356.49 sec) Binary
20265 Time Step No. = 1180 Elapsed Time = 6.207847E+05 days
20266 Date: 02/13/07 Time: 14:17:46 CPU Time: 0 0: 6: 1.54 (361.54 sec) Binary
20268 Time Step No. = 1200 Elapsed Time = 7.988527E+05 days
20269 Date: 02/13/07 Time: 14:17:58 CPU Time: 0 0: 6:13.53 (373.53 sec) Binary
20271 Time Step No. = 1220 Elapsed Time = 7.990476E+05 days
20272 Date: 02/13/07 Time: 14:18:00 CPU Time: 0 0: 6:15.57 (375.57 sec) Binary
20274 Time Step No. = 1240 Elapsed Time = 7.999523E+05 days
20275 Date: 02/13/07 Time: 14:18:04 CPU Time: 0 0: 6:19.31 (379.31 sec) Binary
20277 Time Step No. = 1260 Elapsed Time = 8.036273E+05 days
20278 Date: 02/13/07 Time: 14:18:07 CPU Time: 0 0: 6:22.68 (382.68 sec) Binary
20280 Time Step No. = 1280 Elapsed Time = 8.095812E+05 days
20281 Date: 02/13/07 Time: 14:18:19 CPU Time: 0 0: 6:34.43 (394.43 sec) Binary
20283 Time Step No. = 1300 Elapsed Time = 8.097922E+05 days
20284 Date: 02/13/07 Time: 14:18:21 CPU Time: 0 0: 6:36.90 (396.90 sec) Binary
20286 Time Step No. = 1320 Elapsed Time = 8.172796E+05 days
20287 Date: 02/13/07 Time: 14:18:30 CPU Time: 0 0: 6:45.75 (405.75 sec) Binary
20289 Time Step No. = 1340 Elapsed Time = 8.174733E+05 days
20290 Date: 02/13/07 Time: 14:18:33 CPU Time: 0 0: 6:48.33 (408.33 sec) Binary
20292 Time Step No. = 1360 Elapsed Time = 8.176452E+05 days
20293 Date: 02/13/07 Time: 14:18:38 CPU Time: 0 0: 6:53.14 (413.14 sec) Binary
20295 Time Step No. = 1380 Elapsed Time = 8.205265E+05 days
20296 Date: 02/13/07 Time: 14:18:43 CPU Time: 0 0: 6:57.99 (417.99 sec) Binary
20298 Time Step No. = 1400 Elapsed Time = 8.478698E+05 days
20299 Date: 02/13/07 Time: 14:18:47 CPU Time: 0 0: 7: 2.60 (422.60 sec) Binary
20301 Time Step No. = 1420 Elapsed Time = 1.025254E+06 days
20302 Date: 02/13/07 Time: 14:18:58 CPU Time: 0 0: 7:13.33 (433.33 sec) Binary
20304 Time Step No. = 1440 Elapsed Time = 1.025565E+06 days
20305 Date: 02/13/07 Time: 14:19:01 CPU Time: 0 0: 7:16.06 (436.06 sec) Binary
20307 Time Step No. = 1460 Elapsed Time = 1.026679E+06 days
20308 Date: 02/13/07 Time: 14:19:05 CPU Time: 0 0: 7:20.22 (440.22 sec) Binary
20310 Time Step No. = 1480 Elapsed Time = 1.039111E+06 days
20311 Date: 02/13/07 Time: 14:19:10 CPU Time: 0 0: 7:25.47 (445.47 sec) Binary
20313 Time Step No. = 1500 Elapsed Time = 1.047557E+06 days
20314 Date: 02/13/07 Time: 14:19:15 CPU Time: 0 0: 7:30.22 (450.22 sec) Binary
20316 Time Step No. = 1520 Elapsed Time = 1.047671E+06 days
20317 Date: 02/13/07 Time: 14:19:24 CPU Time: 0 0: 7:38.96 (458.96 sec) Binary
20319 Time Step No. = 1540 Elapsed Time = 1.047991E+06 days
20320 Date: 02/13/07 Time: 14:19:29 CPU Time: 0 0: 7:43.95 (463.95 sec) Binary
20322 Time Step No. = 1560 Elapsed Time = 1.052298E+06 days
20323 Date: 02/13/07 Time: 14:19:32 CPU Time: 0 0: 7:47.11 (467.11 sec) Binary
20325 Time Step No. = 1580 Elapsed Time = 1.207615E+06 days
20326 Date: 02/13/07 Time: 14:19:38 CPU Time: 0 0: 7:53.17 (473.17 sec) Binary
20328 Time Step No. = 1600 Elapsed Time = 1.311097E+06 days
20329 Date: 02/13/07 Time: 14:19:42 CPU Time: 0 0: 7:57.54 (477.54 sec) Binary
20331 Time Step No. = 1620 Elapsed Time = 1.322737E+06 days
20332 Date: 02/13/07 Time: 14:19:51 CPU Time: 0 0: 8: 5.82 (485.82 sec) Binary
20334 Time Step No. = 1640 Elapsed Time = 1.334443E+06 days
20335 Date: 02/13/07 Time: 14:19:56 CPU Time: 0 0: 8:11.18 (491.18 sec) Binary
20337 Time Step No. = 1660 Elapsed Time = 1.375587E+06 days
20338 Date: 02/13/07 Time: 14:20:01 CPU Time: 0 0: 8:16.49 (496.49 sec) Binary
20340 Time Step No. = 1680 Elapsed Time = 1.524609E+06 days
20341 Date: 02/13/07 Time: 14:20:08 CPU Time: 0 0: 8:23.09 (503.09 sec) Binary

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20343 Time Step No. = 1700 Elapsed Time = 1.718303E+06 days
20344 Date: 02/13/07 Time: 14:20:16 CPU Time: 0 0: 8:30.88 ( 510.88 sec) Binary
20346 Time Step No. = 1720 Elapsed Time = 1.734169E+06 days
20347 Date: 02/13/07 Time: 14:20:21 CPU Time: 0 0: 8:35.85 ( 515.85 sec) Binary
20349 Time Step No. = 1740 Elapsed Time = 2.019845E+06 days
20350 Date: 02/13/07 Time: 14:20:29 CPU Time: 0 0: 8:43.66 ( 523.66 sec) Binary
20352 Time Step No. = 1760 Elapsed Time = 2.027910E+06 days
20353 Date: 02/13/07 Time: 14:20:36 CPU Time: 0 0: 8:51.52 ( 531.52 sec) Binary
20355 Time Step No. = 1780 Elapsed Time = 2.089115E+06 days
20356 Date: 02/13/07 Time: 14:20:43 CPU Time: 0 0: 8:58.24 ( 538.24 sec) Binary
20358 Time Step No. = 1800 Elapsed Time = 2.128138E+06 days
20359 Date: 02/13/07 Time: 14:20:50 CPU Time: 0 0: 9: 5.51 ( 545.51 sec) Binary
20361 Time Step No. = 1820 Elapsed Time = 2.402891E+06 days
20362 Date: 02/13/07 Time: 14:20:59 CPU Time: 0 0: 9:13.98 ( 553.98 sec) Binary
20364 Time Step No. = 1840 Elapsed Time = 2.466271E+06 days
20365 Date: 02/13/07 Time: 14:21:07 CPU Time: 0 0: 9:21.91 ( 561.91 sec) Binary
20367 Time Step No. = 1860 Elapsed Time = 2.672622E+06 days
20368 Date: 02/13/07 Time: 14:21:15 CPU Time: 0 0: 9:29.59 ( 569.59 sec) Binary
20370 Time Step No. = 1880 Elapsed Time = 2.865793E+06 days
20371 Date: 02/13/07 Time: 14:21:22 CPU Time: 0 0: 9:37.11 ( 577.11 sec) Binary
20373 Time Step No. = 1900 Elapsed Time = 2.904071E+06 days
20374 Date: 02/13/07 Time: 14:21:29 CPU Time: 0 0: 9:44.14 ( 584.14 sec) Binary
20376 Time Step No. = 1920 Elapsed Time = 3.211642E+06 days
20377 Date: 02/13/07 Time: 14:21:36 CPU Time: 0 0: 9:51.42 ( 591.42 sec) Binary
20379 Time Step No. = 1940 Elapsed Time = 3.611642E+06 days
20380 Date: 02/13/07 Time: 14:21:43 CPU Time: 0 0: 9:57.81 ( 597.81 sec) Binary
20383 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
20399 CPU Time (this time step) = 0.26 sec = 0.00007 hr
20400 CPU Time (total for run) = 827.76 sec = 0.22993 hr
20401 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
20399 CPU Time (this time step) = 0.20 sec = 0.00006 hr
20400 CPU Time (total for run) = 598.64 sec = 0.16629 hr
20401 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
24962 Date: 02/14/07 Time: 09:06:51 CPU Time: 0 0:13:47.86 ( 827.86 sec) ASCII
24964 Time Step No. = 1943 Elapsed Time = 3.652431E+06 days
24965 Date: 02/14/07 Time: 09:06:51 CPU Time: 0 0:13:47.86 ( 827.86 sec) Binary
24970 *****
24971 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
24972 * Completed: 02/14/07 at 09:06:51 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
24973 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
24962 Date: 02/13/07 Time: 14:21:44 CPU Time: 0 0: 9:58.73 ( 598.73 sec) ASCII
24964 Time Step No. = 1943 Elapsed Time = 3.652431E+06 days
24965 Date: 02/13/07 Time: 14:21:44 CPU Time: 0 0: 9:58.75 ( 598.75 sec) Binary
24970 *****
24971 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
24972 * Completed: 02/13/07 at 14:21:44 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
24973 *****
*****
```

Number of difference sections found: 17
Number of difference records found: 217

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
```

BF2_QB0600_ES45_TEST6_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
3 ** Begun on: 02/14/07 at 09:15:09 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
  3  ** Begun on: 02/13/07 at 14:11:43 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4  ****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_TEST6.INP;1
  62 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
  62 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_CLOSURE.DAT;1
  67 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_CLOSURE.DAT;1
  67 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
  72 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
  72 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.SUM;1
  77 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.SUM;1
  77 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.BIN;1
  82 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.BIN;1
  82 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.ROT;1
  87 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.ROT;1
  87 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
 1810 CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1811 CPU Time (total for run) = 20.08 sec = 0.00558 hr
 1812 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
 1810 CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1811 CPU Time (total for run) = 23.09 sec = 0.00641 hr
 1812 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
 6373 Date: 02/14/07 Time: 09:15:30 CPU Time: 0 0: 0:20.16 ( 20.16 sec) ASCII
 6375 Time Step No. = 135 Elapsed Time = 0.000000E+00 days
 6376 Date: 02/14/07 Time: 09:15:30 CPU Time: 0 0: 0:20.17 ( 20.17 sec) Binary
 6378 Time Step No. = 140 Elapsed Time = 8.207031E-02 days
 6379 Date: 02/14/07 Time: 09:15:31 CPU Time: 0 0: 0:21.11 ( 21.11 sec) Binary
```

6381 Time Step No. = 160 Elapsed Time = 6.773074E+00 days
6382 Date: 02/14/07 Time: 09:15:34 CPU Time: 0 0: 0:24.18 (24.18 sec) Binary
6384 Time Step No. = 180 Elapsed Time = 1.856436E+02 days
6385 Date: 02/14/07 Time: 09:15:37 CPU Time: 0 0: 0:27.41 (27.41 sec) Binary
6387 Time Step No. = 200 Elapsed Time = 1.266619E+03 days
6388 Date: 02/14/07 Time: 09:15:42 CPU Time: 0 0: 0:32.43 (32.43 sec) Binary
6390 Time Step No. = 220 Elapsed Time = 1.297866E+04 days
6391 Date: 02/14/07 Time: 09:15:47 CPU Time: 0 0: 0:37.40 (37.40 sec) Binary
6393 Time Step No. = 240 Elapsed Time = 3.652431E+04 days
6394 Date: 02/14/07 Time: 09:16:01 CPU Time: 0 0: 0:50.93 (50.93 sec) Binary
6396 Time Step No. = 260 Elapsed Time = 3.652431E+04 days
6397 Date: 02/14/07 Time: 09:16:03 CPU Time: 0 0: 0:53.37 (53.37 sec) Binary
6399 Time Step No. = 280 Elapsed Time = 3.652431E+04 days
6400 Date: 02/14/07 Time: 09:16:06 CPU Time: 0 0: 0:56.07 (56.07 sec) Binary
6402 Time Step No. = 300 Elapsed Time = 3.652436E+04 days
6403 Date: 02/14/07 Time: 09:16:09 CPU Time: 0 0: 0:58.94 (58.94 sec) Binary
6405 Time Step No. = 320 Elapsed Time = 3.652923E+04 days
6406 Date: 02/14/07 Time: 09:16:11 CPU Time: 0 0: 1: 1.35 (61.35 sec) Binary
6408 Time Step No. = 340 Elapsed Time = 3.665792E+04 days
6409 Date: 02/14/07 Time: 09:16:15 CPU Time: 0 0: 1: 4.55 (64.55 sec) Binary
6411 Time Step No. = 360 Elapsed Time = 3.666839E+04 days
6412 Date: 02/14/07 Time: 09:16:16 CPU Time: 0 0: 1: 6.44 (66.44 sec) Binary
6414 Time Step No. = 380 Elapsed Time = 3.702040E+04 days
6415 Date: 02/14/07 Time: 09:16:20 CPU Time: 0 0: 1:10.15 (70.15 sec) Binary
6417 Time Step No. = 400 Elapsed Time = 3.811571E+04 days
6418 Date: 02/14/07 Time: 09:16:27 CPU Time: 0 0: 1:16.59 (76.59 sec) Binary
6421 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
6373 Date: 02/13/07 Time: 14:12:07 CPU Time: 0 0: 0:23.15 (23.15 sec) ASCII
6375 Time Step No. = 135 Elapsed Time = 0.000000E+00 days
6376 Date: 02/13/07 Time: 14:12:07 CPU Time: 0 0: 0:23.17 (23.17 sec) Binary
6378 Time Step No. = 140 Elapsed Time = 8.207031E-02 days
6379 Date: 02/13/07 Time: 14:12:08 CPU Time: 0 0: 0:24.20 (24.20 sec) Binary
6381 Time Step No. = 160 Elapsed Time = 6.773074E+00 days
6382 Date: 02/13/07 Time: 14:12:11 CPU Time: 0 0: 0:27.57 (27.57 sec) Binary
6384 Time Step No. = 180 Elapsed Time = 1.856436E+02 days
6385 Date: 02/13/07 Time: 14:12:15 CPU Time: 0 0: 0:31.15 (31.15 sec) Binary
6387 Time Step No. = 200 Elapsed Time = 1.266619E+03 days
6388 Date: 02/13/07 Time: 14:12:20 CPU Time: 0 0: 0:36.67 (36.67 sec) Binary
6390 Time Step No. = 220 Elapsed Time = 1.297866E+04 days
6391 Date: 02/13/07 Time: 14:12:26 CPU Time: 0 0: 0:42.13 (42.13 sec) Binary
6393 Time Step No. = 240 Elapsed Time = 3.652431E+04 days
6394 Date: 02/13/07 Time: 14:12:41 CPU Time: 0 0: 0:57.61 (57.61 sec) Binary
6396 Time Step No. = 260 Elapsed Time = 3.652431E+04 days
6397 Date: 02/13/07 Time: 14:12:44 CPU Time: 0 0: 1: 0.47 (60.47 sec) Binary
6399 Time Step No. = 280 Elapsed Time = 3.652431E+04 days
6400 Date: 02/13/07 Time: 14:12:47 CPU Time: 0 0: 1: 3.66 (63.66 sec) Binary
6402 Time Step No. = 300 Elapsed Time = 3.652436E+04 days
6403 Date: 02/13/07 Time: 14:12:51 CPU Time: 0 0: 1: 7.11 (67.11 sec) Binary
6405 Time Step No. = 320 Elapsed Time = 3.652923E+04 days
6406 Date: 02/13/07 Time: 14:12:54 CPU Time: 0 0: 1: 9.96 (69.96 sec) Binary
6408 Time Step No. = 340 Elapsed Time = 3.665792E+04 days
6409 Date: 02/13/07 Time: 14:12:57 CPU Time: 0 0: 1:13.56 (73.56 sec) Binary
6411 Time Step No. = 360 Elapsed Time = 3.666839E+04 days
6412 Date: 02/13/07 Time: 14:13:00 CPU Time: 0 0: 1:15.63 (75.63 sec) Binary
6414 Time Step No. = 380 Elapsed Time = 3.702040E+04 days
6415 Date: 02/13/07 Time: 14:13:04 CPU Time: 0 0: 1:19.71 (79.71 sec) Binary
6417 Time Step No. = 400 Elapsed Time = 3.811571E+04 days
6418 Date: 02/13/07 Time: 14:13:11 CPU Time: 0 0: 1:26.76 (86.76 sec) Binary
6421 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
6429 CPU Time (this time step) = 0.34 sec = 0.00009 hr
6430 CPU Time (total for run) = 81.58 sec = 0.02266 hr
6431 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
6429 CPU Time (this time step) = 0.37 sec = 0.00010 hr
6430 CPU Time (total for run) = 92.24 sec = 0.02562 hr
6431 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
10992 Date: 02/14/07 Time: 09:16:32 CPU Time: 0 0: 1:21.65 (81.65 sec) ASCII

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10994 Time Step No. = 418 Elapsed Time = 7.304861E+04 days
10995 Date: 02/14/07 Time: 09:16:32 CPU Time: 0 0: 1:21.66 ( 81.66 sec) Binary
10997 Time Step No. = 420 Elapsed Time = 8.669839E+04 days
10998 Date: 02/14/07 Time: 09:16:33 CPU Time: 0 0: 1:22.53 ( 82.53 sec) Binary
11000 Time Step No. = 440 Elapsed Time = 2.216406E+05 days
11001 Date: 02/14/07 Time: 09:16:40 CPU Time: 0 0: 1:29.79 ( 89.79 sec) Binary
11003 Time Step No. = 460 Elapsed Time = 2.488238E+05 days
11004 Date: 02/14/07 Time: 09:16:49 CPU Time: 0 0: 1:38.86 ( 98.86 sec) Binary
11006 Time Step No. = 480 Elapsed Time = 2.511960E+05 days
11007 Date: 02/14/07 Time: 09:16:53 CPU Time: 0 0: 1:42.73 ( 102.73 sec) Binary
11009 Time Step No. = 500 Elapsed Time = 2.923516E+05 days
11010 Date: 02/14/07 Time: 09:17:01 CPU Time: 0 0: 1:51.14 ( 111.14 sec) Binary
11012 Time Step No. = 520 Elapsed Time = 2.937006E+05 days
11013 Date: 02/14/07 Time: 09:17:10 CPU Time: 0 0: 1:59.73 ( 119.73 sec) Binary
11015 Time Step No. = 540 Elapsed Time = 2.996768E+05 days
11016 Date: 02/14/07 Time: 09:17:16 CPU Time: 0 0: 2: 5.76 ( 125.76 sec) Binary
11018 Time Step No. = 550 Elapsed Time = 3.032487E+05 days
11019 Date: 02/14/07 Time: 09:17:25 CPU Time: 0 0: 2:15.25 ( 135.25 sec) Binary
11021 Time Step No. = 580 Elapsed Time = 3.049319E+05 days
11022 Date: 02/14/07 Time: 09:17:32 CPU Time: 0 0: 2:21.32 ( 141.32 sec) Binary
11024 Time Step No. = 600 Elapsed Time = 3.135519E+05 days
11025 Date: 02/14/07 Time: 09:17:41 CPU Time: 0 0: 2:30.14 ( 150.14 sec) Binary
11027 Time Step No. = 620 Elapsed Time = 3.149492E+05 days
11028 Date: 02/14/07 Time: 09:17:48 CPU Time: 0 0: 2:37.02 ( 157.02 sec) Binary
11030 Time Step No. = 640 Elapsed Time = 3.161170E+05 days
11031 Date: 02/14/07 Time: 09:17:55 CPU Time: 0 0: 2:44.47 ( 164.47 sec) Binary
11033 Time Step No. = 660 Elapsed Time = 3.173440E+05 days
11034 Date: 02/14/07 Time: 09:18:03 CPU Time: 0 0: 2:52.70 ( 172.70 sec) Binary
11036 Time Step No. = 680 Elapsed Time = 3.204458E+05 days
11037 Date: 02/14/07 Time: 09:18:10 CPU Time: 0 0: 2:59.82 ( 179.82 sec) Binary
11039 Time Step No. = 700 Elapsed Time = 3.283157E+05 days
11040 Date: 02/14/07 Time: 09:18:19 CPU Time: 0 0: 3: 8.06 ( 188.06 sec) Binary
11043 *****
*****
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1

```
10992 Date: 02/13/07 Time: 14:13:16 CPU Time: 0 0: 1:32.31 ( 92.31 sec) ASCII
10994 Time Step No. = 418 Elapsed Time = 7.304861E+04 days
10995 Date: 02/13/07 Time: 14:13:16 CPU Time: 0 0: 1:32.31 ( 92.31 sec) Binary
10997 Time Step No. = 420 Elapsed Time = 8.669839E+04 days
10998 Date: 02/13/07 Time: 14:13:17 CPU Time: 0 0: 1:33.27 ( 93.27 sec) Binary
11000 Time Step No. = 440 Elapsed Time = 2.216406E+05 days
11001 Date: 02/13/07 Time: 14:13:25 CPU Time: 0 0: 1:41.27 ( 101.27 sec) Binary
11003 Time Step No. = 460 Elapsed Time = 2.488238E+05 days
11004 Date: 02/13/07 Time: 14:13:35 CPU Time: 0 0: 1:51.22 ( 111.22 sec) Binary
11006 Time Step No. = 480 Elapsed Time = 2.511960E+05 days
11007 Date: 02/13/07 Time: 14:13:39 CPU Time: 0 0: 1:55.48 ( 115.48 sec) Binary
11009 Time Step No. = 500 Elapsed Time = 2.923516E+05 days
11010 Date: 02/13/07 Time: 14:13:49 CPU Time: 0 0: 2: 4.69 ( 124.69 sec) Binary
11012 Time Step No. = 520 Elapsed Time = 2.937006E+05 days
11013 Date: 02/13/07 Time: 14:13:58 CPU Time: 0 0: 2:14.04 ( 134.04 sec) Binary
11015 Time Step No. = 540 Elapsed Time = 2.996768E+05 days
11016 Date: 02/13/07 Time: 14:14:05 CPU Time: 0 0: 2:20.63 ( 140.63 sec) Binary
11018 Time Step No. = 560 Elapsed Time = 3.032487E+05 days
11019 Date: 02/13/07 Time: 14:14:15 CPU Time: 0 0: 2:31.01 ( 151.01 sec) Binary
11021 Time Step No. = 580 Elapsed Time = 3.049319E+05 days
11022 Date: 02/13/07 Time: 14:14:22 CPU Time: 0 0: 2:37.65 ( 157.65 sec) Binary
11024 Time Step No. = 600 Elapsed Time = 3.135519E+05 days
11025 Date: 02/13/07 Time: 14:14:31 CPU Time: 0 0: 2:47.28 ( 167.28 sec) Binary
11027 Time Step No. = 620 Elapsed Time = 3.149492E+05 days
11028 Date: 02/13/07 Time: 14:14:39 CPU Time: 0 0: 2:54.80 ( 174.80 sec) Binary
11030 Time Step No. = 640 Elapsed Time = 3.161170E+05 days
11031 Date: 02/13/07 Time: 14:14:47 CPU Time: 0 0: 3: 2.94 ( 182.94 sec) Binary
11033 Time Step No. = 660 Elapsed Time = 3.173440E+05 days
11034 Date: 02/13/07 Time: 14:14:56 CPU Time: 0 0: 3:11.95 ( 191.95 sec) Binary
11036 Time Step No. = 680 Elapsed Time = 3.204458E+05 days
11037 Date: 02/13/07 Time: 14:15:04 CPU Time: 0 0: 3:19.71 ( 199.71 sec) Binary
11039 Time Step No. = 700 Elapsed Time = 3.283157E+05 days
11040 Date: 02/13/07 Time: 14:15:13 CPU Time: 0 0: 3:28.72 ( 208.72 sec) Binary
11043 *****
*****
```

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1

```
11051 CPU Time (this time step) = 0.23 sec = 0.00006 hr
11052 CPU Time (total for run) = 189.26 sec = 0.05257 hr
11053 *****
*****
```

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
11051 CPU Time (this time step) = 0.25 sec = 0.00007 hr
11052 CPU Time (total for run) = 210.03 sec = 0.05834 hr
11053 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
15614 Date: 02/14/07 Time: 09:18:20 CPU Time: 0 0: 3: 9.34 (189.34 sec) ASCII
15616 Time Step No. = 703 Elapsed Time = 3.287179E+05 days
15617 Date: 02/14/07 Time: 09:18:20 CPU Time: 0 0: 3: 9.35 (189.35 sec) Binary
15619 Time Step No. = 720 Elapsed Time = 3.327229E+05 days
15620 Date: 02/14/07 Time: 09:18:27 CPU Time: 0 0: 3:15.99 (195.99 sec) Binary
15622 Time Step No. = 740 Elapsed Time = 3.346052E+05 days
15623 Date: 02/14/07 Time: 09:18:34 CPU Time: 0 0: 3:23.94 (203.94 sec) Binary
15625 Time Step No. = 760 Elapsed Time = 3.499571E+05 days
15626 Date: 02/14/07 Time: 09:18:41 CPU Time: 0 0: 3:30.93 (210.93 sec) Binary
15628 Time Step No. = 780 Elapsed Time = 3.566330E+05 days
15629 Date: 02/14/07 Time: 09:18:48 CPU Time: 0 0: 3:37.36 (217.36 sec) Binary
15631 Time Step No. = 800 Elapsed Time = 3.652602E+05 days
15632 Date: 02/14/07 Time: 09:18:53 CPU Time: 0 0: 3:42.66 (222.66 sec) Binary
15635 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
15614 Date: 02/13/07 Time: 14:15:14 CPU Time: 0 0: 3:30.12 (210.12 sec) ASCII
15616 Time Step No. = 703 Elapsed Time = 3.287179E+05 days
15617 Date: 02/13/07 Time: 14:15:14 CPU Time: 0 0: 3:30.12 (210.12 sec) Binary
15619 Time Step No. = 720 Elapsed Time = 3.327229E+05 days
15620 Date: 02/13/07 Time: 14:15:22 CPU Time: 0 0: 3:37.40 (217.40 sec) Binary
15622 Time Step No. = 740 Elapsed Time = 3.346052E+05 days
15623 Date: 02/13/07 Time: 14:15:30 CPU Time: 0 0: 3:46.08 (226.08 sec) Binary
15625 Time Step No. = 760 Elapsed Time = 3.499571E+05 days
15626 Date: 02/13/07 Time: 14:15:38 CPU Time: 0 0: 3:53.73 (233.73 sec) Binary
15628 Time Step No. = 780 Elapsed Time = 3.566330E+05 days
15629 Date: 02/13/07 Time: 14:15:45 CPU Time: 0 0: 4: 0.76 (240.76 sec) Binary
15631 Time Step No. = 800 Elapsed Time = 3.652602E+05 days
15632 Date: 02/13/07 Time: 14:15:51 CPU Time: 0 0: 4: 6.55 (246.55 sec) Binary
15635 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
15643 CPU Time (this time step) = 0.12 sec = 0.00003 hr
15644 CPU Time (total for run) = 223.01 sec = 0.06195 hr
15645 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
15643 CPU Time (this time step) = 0.13 sec = 0.00004 hr
15644 CPU Time (total for run) = 246.93 sec = 0.06859 hr
15645 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
20206 Date: 02/14/07 Time: 09:18:54 CPU Time: 0 0: 3:43.08 (223.08 sec) ASCII
20208 Time Step No. = 803 Elapsed Time = 3.652644E+05 days
20209 Date: 02/14/07 Time: 09:18:54 CPU Time: 0 0: 3:43.09 (223.09 sec) Binary
20211 Time Step No. = 820 Elapsed Time = 3.653083E+05 days
20212 Date: 02/14/07 Time: 09:18:58 CPU Time: 0 0: 3:47.18 (227.18 sec) Binary
20214 Time Step No. = 840 Elapsed Time = 3.654241E+05 days
20215 Date: 02/14/07 Time: 09:19:04 CPU Time: 0 0: 3:53.09 (233.09 sec) Binary
20217 Time Step No. = 860 Elapsed Time = 3.659611E+05 days
20218 Date: 02/14/07 Time: 09:19:09 CPU Time: 0 0: 3:58.85 (238.85 sec) Binary
20220 Time Step No. = 880 Elapsed Time = 3.665388E+05 days
20221 Date: 02/14/07 Time: 09:19:13 CPU Time: 0 0: 4: 2.20 (242.20 sec) Binary
20223 Time Step No. = 900 Elapsed Time = 3.665643E+05 days
20224 Date: 02/14/07 Time: 09:19:14 CPU Time: 0 0: 4: 3.64 (243.64 sec) Binary
20226 Time Step No. = 920 Elapsed Time = 3.687806E+05 days
20227 Date: 02/14/07 Time: 09:19:18 CPU Time: 0 0: 4: 7.12 (247.12 sec) Binary
20229 Time Step No. = 940 Elapsed Time = 3.726602E+05 days
20230 Date: 02/14/07 Time: 09:19:26 CPU Time: 0 0: 4:15.20 (255.20 sec) Binary
20232 Time Step No. = 960 Elapsed Time = 3.777459E+05 days
20233 Date: 02/14/07 Time: 09:19:32 CPU Time: 0 0: 4:21.64 (261.64 sec) Binary
20235 Time Step No. = 980 Elapsed Time = 3.943263E+05 days
20236 Date: 02/14/07 Time: 09:19:39 CPU Time: 0 0: 4:28.49 (268.49 sec) Binary
20238 Time Step No. = 1000 Elapsed Time = 4.162550E+05 days
20239 Date: 02/14/07 Time: 09:19:45 CPU Time: 0 0: 4:34.59 (274.59 sec) Binary
20241 Time Step No. = 1020 Elapsed Time = 4.353864E+05 days
20242 Date: 02/14/07 Time: 09:19:53 CPU Time: 0 0: 4:41.96 (281.96 sec) Binary

20244	Time Step No. = 1040	Elapsed Time = 4.585234E+05 days
20245	Date: 02/14/07 Time: 09:19:58 CPU Time: 0 0: 4:47.72 (287.72 sec)	Binary
20247	Time Step No. = 1060	Elapsed Time = 5.099879E+05 days
20248	Date: 02/14/07 Time: 09:20:06 CPU Time: 0 0: 4:55.87 (295.87 sec)	Binary
20250	Time Step No. = 1080	Elapsed Time = 5.143304E+05 days
20251	Date: 02/14/07 Time: 09:20:11 CPU Time: 0 0: 5: 0.48 (300.48 sec)	Binary
20253	Time Step No. = 1100	Elapsed Time = 5.154704E+05 days
20254	Date: 02/14/07 Time: 09:20:14 CPU Time: 0 0: 5: 3.56 (303.56 sec)	Binary
20256	Time Step No. = 1120	Elapsed Time = 5.565073E+05 days
20257	Date: 02/14/07 Time: 09:20:22 CPU Time: 0 0: 5:11.13 (311.13 sec)	Binary
20259	Time Step No. = 1140	Elapsed Time = 5.900105E+05 days
20260	Date: 02/14/07 Time: 09:20:26 CPU Time: 0 0: 5:15.75 (315.75 sec)	Binary
20262	Time Step No. = 1160	Elapsed Time = 5.917396E+05 days
20263	Date: 02/14/07 Time: 09:20:33 CPU Time: 0 0: 5:22.24 (322.24 sec)	Binary
20265	Time Step No. = 1180	Elapsed Time = 6.207847E+05 days
20266	Date: 02/14/07 Time: 09:20:37 CPU Time: 0 0: 5:26.81 (326.81 sec)	Binary
20268	Time Step No. = 1200	Elapsed Time = 7.988527E+05 days
20269	Date: 02/14/07 Time: 09:20:48 CPU Time: 0 0: 5:37.65 (337.65 sec)	Binary
20271	Time Step No. = 1220	Elapsed Time = 7.990476E+05 days
20272	Date: 02/14/07 Time: 09:20:50 CPU Time: 0 0: 5:39.47 (339.47 sec)	Binary
20274	Time Step No. = 1240	Elapsed Time = 7.999523E+05 days
20275	Date: 02/14/07 Time: 09:20:54 CPU Time: 0 0: 5:42.83 (342.83 sec)	Binary
20277	Time Step No. = 1260	Elapsed Time = 8.036273E+05 days
20278	Date: 02/14/07 Time: 09:20:57 CPU Time: 0 0: 5:45.85 (345.85 sec)	Binary
20280	Time Step No. = 1280	Elapsed Time = 8.095812E+05 days
20281	Date: 02/14/07 Time: 09:21:07 CPU Time: 0 0: 5:56.46 (356.46 sec)	Binary
20283	Time Step No. = 1300	Elapsed Time = 8.097922E+05 days
20284	Date: 02/14/07 Time: 09:21:09 CPU Time: 0 0: 5:58.69 (358.69 sec)	Binary
20286	Time Step No. = 1320	Elapsed Time = 8.172796E+05 days
20287	Date: 02/14/07 Time: 09:21:17 CPU Time: 0 0: 6: 6.68 (366.68 sec)	Binary
20289	Time Step No. = 1340	Elapsed Time = 8.174733E+05 days
20290	Date: 02/14/07 Time: 09:21:20 CPU Time: 0 0: 6: 9.02 (369.02 sec)	Binary
20292	Time Step No. = 1360	Elapsed Time = 8.176452E+05 days
20293	Date: 02/14/07 Time: 09:21:24 CPU Time: 0 0: 6:13.34 (373.34 sec)	Binary
20295	Time Step No. = 1380	Elapsed Time = 8.205265E+05 days
20296	Date: 02/14/07 Time: 09:21:28 CPU Time: 0 0: 6:17.72 (377.72 sec)	Binary
20298	Time Step No. = 1400	Elapsed Time = 8.478698E+05 days
20299	Date: 02/14/07 Time: 09:21:33 CPU Time: 0 0: 6:21.89 (381.89 sec)	Binary
20301	Time Step No. = 1420	Elapsed Time = 1.025254E+06 days
20302	Date: 02/14/07 Time: 09:21:42 CPU Time: 0 0: 6:31.58 (391.58 sec)	Binary
20304	Time Step No. = 1440	Elapsed Time = 1.025565E+06 days
20305	Date: 02/14/07 Time: 09:21:45 CPU Time: 0 0: 6:34.02 (394.02 sec)	Binary
20307	Time Step No. = 1460	Elapsed Time = 1.026679E+06 days
20308	Date: 02/14/07 Time: 09:21:49 CPU Time: 0 0: 6:37.77 (397.77 sec)	Binary
20310	Time Step No. = 1480	Elapsed Time = 1.039111E+06 days
20311	Date: 02/14/07 Time: 09:21:53 CPU Time: 0 0: 6:42.47 (402.47 sec)	Binary
20313	Time Step No. = 1500	Elapsed Time = 1.047557E+06 days
20314	Date: 02/14/07 Time: 09:21:58 CPU Time: 0 0: 6:46.75 (406.75 sec)	Binary
20316	Time Step No. = 1520	Elapsed Time = 1.047671E+06 days
20317	Date: 02/14/07 Time: 09:22:06 CPU Time: 0 0: 6:54.62 (414.62 sec)	Binary
20319	Time Step No. = 1540	Elapsed Time = 1.047991E+06 days
20320	Date: 02/14/07 Time: 09:22:10 CPU Time: 0 0: 6:59.12 (419.12 sec)	Binary
20322	Time Step No. = 1560	Elapsed Time = 1.052298E+06 days
20323	Date: 02/14/07 Time: 09:22:13 CPU Time: 0 0: 7: 1.97 (421.97 sec)	Binary
20325	Time Step No. = 1580	Elapsed Time = 1.207615E+06 days
20326	Date: 02/14/07 Time: 09:22:18 CPU Time: 0 0: 7: 7.03 (427.03 sec)	Binary
20328	Time Step No. = 1600	Elapsed Time = 1.311097E+06 days
20329	Date: 02/14/07 Time: 09:22:22 CPU Time: 0 0: 7:10.69 (430.69 sec)	Binary
20331	Time Step No. = 1620	Elapsed Time = 1.322737E+06 days
20332	Date: 02/14/07 Time: 09:22:29 CPU Time: 0 0: 7:17.64 (437.64 sec)	Binary
20334	Time Step No. = 1640	Elapsed Time = 1.334443E+06 days
20335	Date: 02/14/07 Time: 09:22:34 CPU Time: 0 0: 7:22.13 (442.13 sec)	Binary
20337	Time Step No. = 1660	Elapsed Time = 1.375587E+06 days
20338	Date: 02/14/07 Time: 09:22:38 CPU Time: 0 0: 7:26.58 (446.58 sec)	Binary
20340	Time Step No. = 1680	Elapsed Time = 1.524609E+06 days
20341	Date: 02/14/07 Time: 09:22:44 CPU Time: 0 0: 7:32.10 (452.10 sec)	Binary
20343	Time Step No. = 1700	Elapsed Time = 1.718303E+06 days
20344	Date: 02/14/07 Time: 09:22:50 CPU Time: 0 0: 7:38.65 (458.65 sec)	Binary
20346	Time Step No. = 1720	Elapsed Time = 1.734169E+06 days
20347	Date: 02/14/07 Time: 09:22:54 CPU Time: 0 0: 7:42.82 (462.82 sec)	Binary
20349	Time Step No. = 1740	Elapsed Time = 2.019845E+06 days
20350	Date: 02/14/07 Time: 09:23:01 CPU Time: 0 0: 7:49.38 (469.38 sec)	Binary
20352	Time Step No. = 1760	Elapsed Time = 2.027910E+06 days
20353	Date: 02/14/07 Time: 09:23:08 CPU Time: 0 0: 7:56.00 (476.00 sec)	Binary
20355	Time Step No. = 1780	Elapsed Time = 2.089115E+06 days
20356	Date: 02/14/07 Time: 09:23:13 CPU Time: 0 0: 8: 1.64 (481.64 sec)	Binary

20358 Time Step No. = 1800 Elapsed Time = 2.128138E+06 days
20359 Date: 02/14/07 Time: 09:23:19 CPU Time: 0 0: 8: 7.73 (487.73 sec) Binary
20361 Time Step No. = 1820 Elapsed Time = 2.402891E+06 days
20362 Date: 02/14/07 Time: 09:23:26 CPU Time: 0 0: 8:14.86 (494.86 sec) Binary
20364 Time Step No. = 1840 Elapsed Time = 2.466271E+06 days
20365 Date: 02/14/07 Time: 09:23:33 CPU Time: 0 0: 8:21.58 (501.58 sec) Binary
20367 Time Step No. = 1860 Elapsed Time = 2.672622E+06 days
20368 Date: 02/14/07 Time: 09:23:40 CPU Time: 0 0: 8:28.02 (508.02 sec) Binary
20370 Time Step No. = 1880 Elapsed Time = 2.865793E+06 days
20371 Date: 02/14/07 Time: 09:23:46 CPU Time: 0 0: 8:34.72 (514.72 sec) Binary
20373 Time Step No. = 1900 Elapsed Time = 2.904071E+06 days
20374 Date: 02/14/07 Time: 09:23:53 CPU Time: 0 0: 8:41.05 (521.05 sec) Binary
20376 Time Step No. = 1920 Elapsed Time = 3.211642E+06 days
20377 Date: 02/14/07 Time: 09:23:59 CPU Time: 0 0: 8:47.63 (527.63 sec) Binary
20379 Time Step No. = 1940 Elapsed Time = 3.611642E+06 days
20380 Date: 02/14/07 Time: 09:24:05 CPU Time: 0 0: 8:53.39 (533.39 sec) Binary
20383 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
20206 Date: 02/13/07 Time: 14:15:51 CPU Time: 0 0: 4: 7.02 (247.02 sec) ASCII
20208 Time Step No. = 803 Elapsed Time = 3.652644E+05 days
20209 Date: 02/13/07 Time: 14:15:51 CPU Time: 0 0: 4: 7.03 (247.03 sec) Binary
20211 Time Step No. = 820 Elapsed Time = 3.653083E+05 days
20212 Date: 02/13/07 Time: 14:15:56 CPU Time: 0 0: 4:11.52 (251.52 sec) Binary
20214 Time Step No. = 840 Elapsed Time = 3.654241E+05 days
20215 Date: 02/13/07 Time: 14:16:02 CPU Time: 0 0: 4:18.00 (258.00 sec) Binary
20217 Time Step No. = 860 Elapsed Time = 3.659611E+05 days
20218 Date: 02/13/07 Time: 14:16:09 CPU Time: 0 0: 4:24.31 (264.31 sec) Binary
20220 Time Step No. = 880 Elapsed Time = 3.665388E+05 days
20221 Date: 02/13/07 Time: 14:16:12 CPU Time: 0 0: 4:28.01 (268.01 sec) Binary
20223 Time Step No. = 900 Elapsed Time = 3.665643E+05 days
20224 Date: 02/13/07 Time: 14:16:14 CPU Time: 0 0: 4:29.58 (269.58 sec) Binary
20226 Time Step No. = 920 Elapsed Time = 3.687806E+05 days
20227 Date: 02/13/07 Time: 14:16:18 CPU Time: 0 0: 4:33.40 (273.40 sec) Binary
20229 Time Step No. = 940 Elapsed Time = 3.726602E+05 days
20230 Date: 02/13/07 Time: 14:16:27 CPU Time: 0 0: 4:42.23 (282.23 sec) Binary
20232 Time Step No. = 960 Elapsed Time = 3.777459E+05 days
20233 Date: 02/13/07 Time: 14:16:34 CPU Time: 0 0: 4:49.27 (289.27 sec) Binary
20235 Time Step No. = 980 Elapsed Time = 3.943263E+05 days
20236 Date: 02/13/07 Time: 14:16:41 CPU Time: 0 0: 4:56.74 (296.74 sec) Binary
20238 Time Step No. = 1000 Elapsed Time = 4.162550E+05 days
20239 Date: 02/13/07 Time: 14:16:48 CPU Time: 0 0: 5: 3.47 (303.47 sec) Binary
20241 Time Step No. = 1020 Elapsed Time = 4.353864E+05 days
20242 Date: 02/13/07 Time: 14:16:56 CPU Time: 0 0: 5:11.87 (311.87 sec) Binary
20244 Time Step No. = 1040 Elapsed Time = 4.585234E+05 days
20245 Date: 02/13/07 Time: 14:17:03 CPU Time: 0 0: 5:18.24 (318.24 sec) Binary
20247 Time Step No. = 1060 Elapsed Time = 5.099879E+05 days
20248 Date: 02/13/07 Time: 14:17:12 CPU Time: 0 0: 5:27.26 (327.26 sec) Binary
20250 Time Step No. = 1080 Elapsed Time = 5.143304E+05 days
20251 Date: 02/13/07 Time: 14:17:17 CPU Time: 0 0: 5:32.38 (332.38 sec) Binary
20253 Time Step No. = 1100 Elapsed Time = 5.154704E+05 days
20254 Date: 02/13/07 Time: 14:17:20 CPU Time: 0 0: 5:35.80 (335.80 sec) Binary
20256 Time Step No. = 1120 Elapsed Time = 5.565073E+05 days
20257 Date: 02/13/07 Time: 14:17:29 CPU Time: 0 0: 5:44.17 (344.17 sec) Binary
20259 Time Step No. = 1140 Elapsed Time = 5.900105E+05 days
20260 Date: 02/13/07 Time: 14:17:34 CPU Time: 0 0: 5:49.28 (349.28 sec) Binary
20262 Time Step No. = 1160 Elapsed Time = 5.917396E+05 days
20263 Date: 02/13/07 Time: 14:17:41 CPU Time: 0 0: 5:56.49 (356.49 sec) Binary
20265 Time Step No. = 1180 Elapsed Time = 6.207847E+05 days
20266 Date: 02/13/07 Time: 14:17:46 CPU Time: 0 0: 6: 1.54 (361.54 sec) Binary
20268 Time Step No. = 1200 Elapsed Time = 7.988527E+05 days
20269 Date: 02/13/07 Time: 14:17:58 CPU Time: 0 0: 6:13.53 (373.53 sec) Binary
20271 Time Step No. = 1220 Elapsed Time = 7.990476E+05 days
20272 Date: 02/13/07 Time: 14:18:00 CPU Time: 0 0: 6:15.57 (375.57 sec) Binary
20274 Time Step No. = 1240 Elapsed Time = 7.999523E+05 days
20275 Date: 02/13/07 Time: 14:18:04 CPU Time: 0 0: 6:19.31 (379.31 sec) Binary
20277 Time Step No. = 1260 Elapsed Time = 8.036273E+05 days
20278 Date: 02/13/07 Time: 14:18:07 CPU Time: 0 0: 6:22.68 (382.68 sec) Binary
20280 Time Step No. = 1280 Elapsed Time = 8.095812E+05 days
20281 Date: 02/13/07 Time: 14:18:19 CPU Time: 0 0: 6:34.43 (394.43 sec) Binary
20283 Time Step No. = 1300 Elapsed Time = 8.097922E+05 days
20284 Date: 02/13/07 Time: 14:18:21 CPU Time: 0 0: 6:36.90 (396.90 sec) Binary
20286 Time Step No. = 1320 Elapsed Time = 8.172796E+05 days
20287 Date: 02/13/07 Time: 14:18:30 CPU Time: 0 0: 6:45.75 (405.75 sec) Binary
20289 Time Step No. = 1340 Elapsed Time = 8.174733E+05 days
20290 Date: 02/13/07 Time: 14:18:33 CPU Time: 0 0: 6:48.33 (408.33 sec) Binary


```
20292 Time Step No. = 1360 Elapsed Time = 8.176452E+05 days
20293 Date: 02/13/07 Time: 14:18:38 CPU Time: 0 0: 6:53.14 ( 413.14 sec) Binary
20295 Time Step No. = 1380 Elapsed Time = 8.205265E+05 days
20296 Date: 02/13/07 Time: 14:18:43 CPU Time: 0 0: 6:57.99 ( 417.99 sec) Binary
20298 Time Step No. = 1400 Elapsed Time = 8.478698E+05 days
20299 Date: 02/13/07 Time: 14:18:47 CPU Time: 0 0: 7: 2.60 ( 422.60 sec) Binary
20301 Time Step No. = 1420 Elapsed Time = 1.025254E+06 days
20302 Date: 02/13/07 Time: 14:18:58 CPU Time: 0 0: 7:13.33 ( 433.33 sec) Binary
20304 Time Step No. = 1440 Elapsed Time = 1.025565E+06 days
20305 Date: 02/13/07 Time: 14:19:01 CPU Time: 0 0: 7:16.06 ( 436.06 sec) Binary
20307 Time Step No. = 1460 Elapsed Time = 1.026679E+06 days
20308 Date: 02/13/07 Time: 14:19:05 CPU Time: 0 0: 7:20.22 ( 440.22 sec) Binary
20310 Time Step No. = 1480 Elapsed Time = 1.039111E+06 days
20311 Date: 02/13/07 Time: 14:19:10 CPU Time: 0 0: 7:25.47 ( 445.47 sec) Binary
20313 Time Step No. = 1500 Elapsed Time = 1.047557E+06 days
20314 Date: 02/13/07 Time: 14:19:15 CPU Time: 0 0: 7:30.22 ( 450.22 sec) Binary
20316 Time Step No. = 1520 Elapsed Time = 1.047671E+06 days
20317 Date: 02/13/07 Time: 14:19:24 CPU Time: 0 0: 7:38.96 ( 458.96 sec) Binary
20319 Time Step No. = 1540 Elapsed Time = 1.047991E+06 days
20320 Date: 02/13/07 Time: 14:19:29 CPU Time: 0 0: 7:43.95 ( 463.95 sec) Binary
20322 Time Step No. = 1560 Elapsed Time = 1.052298E+06 days
20323 Date: 02/13/07 Time: 14:19:32 CPU Time: 0 0: 7:47.11 ( 467.11 sec) Binary
20325 Time Step No. = 1580 Elapsed Time = 1.207615E+06 days
20326 Date: 02/13/07 Time: 14:19:38 CPU Time: 0 0: 7:53.17 ( 473.17 sec) Binary
20328 Time Step No. = 1600 Elapsed Time = 1.311097E+06 days
20329 Date: 02/13/07 Time: 14:19:42 CPU Time: 0 0: 7:57.54 ( 477.54 sec) Binary
20331 Time Step No. = 1620 Elapsed Time = 1.322737E+06 days
20332 Date: 02/13/07 Time: 14:19:51 CPU Time: 0 0: 8: 5.82 ( 485.82 sec) Binary
20334 Time Step No. = 1640 Elapsed Time = 1.334443E+06 days
20335 Date: 02/13/07 Time: 14:19:56 CPU Time: 0 0: 8:11.18 ( 491.18 sec) Binary
20337 Time Step No. = 1660 Elapsed Time = 1.375587E+06 days
20338 Date: 02/13/07 Time: 14:20:01 CPU Time: 0 0: 8:16.49 ( 496.49 sec) Binary
20340 Time Step No. = 1680 Elapsed Time = 1.524609E+06 days
20341 Date: 02/13/07 Time: 14:20:08 CPU Time: 0 0: 8:23.09 ( 503.09 sec) Binary
20343 Time Step No. = 1700 Elapsed Time = 1.718303E+06 days
20344 Date: 02/13/07 Time: 14:20:16 CPU Time: 0 0: 8:30.88 ( 510.88 sec) Binary
20346 Time Step No. = 1720 Elapsed Time = 1.734169E+06 days
20347 Date: 02/13/07 Time: 14:20:21 CPU Time: 0 0: 8:35.85 ( 515.85 sec) Binary
20349 Time Step No. = 1740 Elapsed Time = 2.019845E+06 days
20350 Date: 02/13/07 Time: 14:20:29 CPU Time: 0 0: 8:43.66 ( 523.66 sec) Binary
20352 Time Step No. = 1760 Elapsed Time = 2.027910E+06 days
20353 Date: 02/13/07 Time: 14:20:36 CPU Time: 0 0: 8:51.52 ( 531.52 sec) Binary
20355 Time Step No. = 1780 Elapsed Time = 2.089115E+06 days
20356 Date: 02/13/07 Time: 14:20:43 CPU Time: 0 0: 8:58.24 ( 538.24 sec) Binary
20358 Time Step No. = 1800 Elapsed Time = 2.128138E+06 days
20359 Date: 02/13/07 Time: 14:20:50 CPU Time: 0 0: 9: 5.51 ( 545.51 sec) Binary
20361 Time Step No. = 1820 Elapsed Time = 2.402891E+06 days
20362 Date: 02/13/07 Time: 14:20:59 CPU Time: 0 0: 9:13.98 ( 553.98 sec) Binary
20364 Time Step No. = 1840 Elapsed Time = 2.466271E+06 days
20365 Date: 02/13/07 Time: 14:21:07 CPU Time: 0 0: 9:21.91 ( 561.91 sec) Binary
20367 Time Step No. = 1860 Elapsed Time = 2.672622E+06 days
20368 Date: 02/13/07 Time: 14:21:15 CPU Time: 0 0: 9:29.59 ( 569.59 sec) Binary
20370 Time Step No. = 1880 Elapsed Time = 2.865793E+06 days
20371 Date: 02/13/07 Time: 14:21:22 CPU Time: 0 0: 9:37.11 ( 577.11 sec) Binary
20373 Time Step No. = 1900 Elapsed Time = 2.904071E+06 days
20374 Date: 02/13/07 Time: 14:21:29 CPU Time: 0 0: 9:44.14 ( 584.14 sec) Binary
20376 Time Step No. = 1920 Elapsed Time = 3.211642E+06 days
20377 Date: 02/13/07 Time: 14:21:36 CPU Time: 0 0: 9:51.42 ( 591.42 sec) Binary
20379 Time Step No. = 1940 Elapsed Time = 3.611642E+06 days
20380 Date: 02/13/07 Time: 14:21:43 CPU Time: 0 0: 9:57.81 ( 597.81 sec) Binary
20383 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
20399 CPU Time (this time step) = 0.17 sec = 0.00005 hr
20400 CPU Time (total for run) = 534.13 sec = 0.14837 hr
20401 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
20399 CPU Time (this time step) = 0.20 sec = 0.00006 hr
20400 CPU Time (total for run) = 598.64 sec = 0.16629 hr
20401 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
24962 Date: 02/14/07 Time: 09:24:06 CPU Time: 0 0: 8:54.21 ( 534.21 sec) ASCII
```

```
24964 Time Step No. = 1943 Elapsed Time = 3.652431E+06 days
24965 Date: 02/14/07 Time: 09:24:06 CPU Time: 0 0: 8:54.22 ( 534.22 sec) Binary
24970 *****
24971 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
24972 * Completed: 02/14/07 at 09:24:06 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
24973 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
24962 Date: 02/13/07 Time: 14:21:44 CPU Time: 0 0: 9:58.73 ( 598.73 sec) ASCII
24964 Time Step No. = 1943 Elapsed Time = 3.652431E+06 days
24965 Date: 02/13/07 Time: 14:21:44 CPU Time: 0 0: 9:58.75 ( 598.75 sec) Binary
24970 *****
24971 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
24972 * Completed: 02/13/07 at 14:21:44 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
24973 *****
*****
```

Number of difference sections found: 17
Number of difference records found: 217

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
```

A.7 Test Case 7 Files

A.7.1 Test Case 7: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST7_V001_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V001.INP
$ DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES40_TEST7_V001.OUT
$ DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES40_TEST7_V001.SUM
$ DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES40_TEST7_V001.BIN
$ DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES40_TEST7_V001.RIN
$ DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES40_TEST7_V001.ROT
$ set noverify

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

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

BF2_QB0600_ES40_TEST7_V002_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V002.INP
$ DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES40_TEST7_V002.OUT
$ DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES40_TEST7_V002.SUM
$ DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES40_TEST7_V002.BIN
$ DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES40_TEST7_V002.RIN
$ DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES40_TEST7_V002.ROT
$ set noverify

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

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

BF2_QB0600_ES40_TEST7_V003_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V003.INP
$ DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES40_TEST7_V003.OUT
$ DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES40_TEST7_V003.SUM
$ DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES40_TEST7_V003.BIN
$ DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES40_TEST7_V003.RIN
$ DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES40_TEST7_V003.ROT
$ set noverify
```

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

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

BF2_QB0600_ES40_TEST7_V004_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input working_dir:BF2_QB0600_TEST7_V004.INP  
$ DEFINE bf2_uif$inputcs working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output working_dir:BF2_QB0600_ES40_TEST7_V004.OUT  
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES40_TEST7_V004.SUM  
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES40_TEST7_V004.BIN  
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES40_TEST7_V004.RIN  
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES40_TEST7_V004.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES40_TEST7_V005_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input working_dir:BF2_QB0600_TEST7_V005.INP  
$ DEFINE bf2_uif$inputcs working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output working_dir:BF2_QB0600_ES40_TEST7_V005.OUT  
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES40_TEST7_V005.SUM  
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES40_TEST7_V005.BIN  
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES40_TEST7_V005.RIN  
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES40_TEST7_V005.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES40_TEST7_V006_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input working_dir:BF2_QB0600_TEST7_V006.INP  
$ DEFINE bf2_uif$inputcs working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output working_dir:BF2_QB0600_ES40_TEST7_V006.OUT
```

```
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES40_TEST7_V006.SUM
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES40_TEST7_V006.BIN
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES40_TEST7_V006.RIN
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES40_TEST7_V006.ROT
$ set noverify
```

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

```
$ show symbol bragflo_exe
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V007_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
```

```
$ DEFINE bf2_uif$input working_dir:BF2_QB0600_TEST7_V007.INP
$ DEFINE bf2_uif$inputcs working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output working_dir:BF2_QB0600_ES40_TEST7_V007.OUT
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES40_TEST7_V007.SUM
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES40_TEST7_V007.BIN
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES40_TEST7_V007.RIN
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES40_TEST7_V007.ROT
$ set noverify
```

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

```
$ show symbol bragflo_exe
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V008_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
```

```
$ DEFINE bf2_uif$input working_dir:BF2_QB0600_TEST7_V008.INP
$ DEFINE bf2_uif$inputcs working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output working_dir:BF2_QB0600_ES40_TEST7_V008.OUT
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES40_TEST7_V008.SUM
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES40_TEST7_V008.BIN
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES40_TEST7_V008.RIN
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES40_TEST7_V008.ROT
$ set noverify
```

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

```
$ show symbol bragflo_exe
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V009_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V009.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_TEST7_V009.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_TEST7_V009.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_TEST7_V009.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_TEST7_V009.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_TEST7_V009.ROT  
$ set noverify  
  
    image name: "BRAGFLO_QB0600"  
    image file identification: "P QB0600 6.0"  
    image file build identification: ""  
    link date/time: 12-FEB-2007 14:57:24.36  
    linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V010_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V010.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_TEST7_V010.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_TEST7_V010.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_TEST7_V010.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_TEST7_V010.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_TEST7_V010.ROT  
$ set noverify  
  
    image name: "BRAGFLO_QB0600"  
    image file identification: "P QB0600 6.0"  
    image file build identification: ""  
    link date/time: 12-FEB-2007 14:57:24.36  
    linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V011_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V011.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_TEST7_V011.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_TEST7_V011.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_TEST7_V011.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_TEST7_V011.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_TEST7_V011.ROT  
$ set noverify  
  
    image name: "BRAGFLO_QB0600"  
    image file identification: "P QB0600 6.0"  
    image file build identification: ""  
    link date/time: 12-FEB-2007 14:57:24.36
```

linker identification: "A13-03"

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

BF2_QB0600_ES40_TEST7_V012_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V012.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_TEST7_V012.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_TEST7_V012.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_TEST7_V012.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_TEST7_V012.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_TEST7_V012.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES40_TEST7_V013_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V013.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_TEST7_V013.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_TEST7_V013.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_TEST7_V013.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_TEST7_V013.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_TEST7_V013.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES40_TEST7_V014_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V014.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_TEST7_V014.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_TEST7_V014.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_TEST7_V014.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_TEST7_V014.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_TEST7_V014.ROT  
$ set noverify
```

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

```
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V015_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V015.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_TEST7_V015.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_TEST7_V015.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_TEST7_V015.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_TEST7_V015.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_TEST7_V015.ROT  
$ set noverify
```

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

```
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V016_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V016.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_TEST7_V016.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_TEST7_V016.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_TEST7_V016.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_TEST7_V016.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_TEST7_V016.ROT  
$ set noverify
```

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

```
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V017_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V017.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_TEST7_V017.OUT
```



```
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES40_TEST7_V017.SUM
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES40_TEST7_V017.BIN
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES40_TEST7_V017.RIN
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES40_TEST7_V017.ROT
$ set noverify
```

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

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

BF2_QB0600_ES40_TEST7_V018_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
```

```
$ DEFINE bf2_uif$input working_dir:BF2_QB0600_TEST7_V018.INP
$ DEFINE bf2_uif$inputcs working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output working_dir:BF2_QB0600_ES40_TEST7_V018.OUT
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES40_TEST7_V018.SUM
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES40_TEST7_V018.BIN
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES40_TEST7_V018.RIN
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES40_TEST7_V018.ROT
$ set noverify
```

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

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

BF2_QB0600_ES40_TEST7_V019_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
```

```
$ DEFINE bf2_uif$input working_dir:BF2_QB0600_TEST7_V019.INP
$ DEFINE bf2_uif$inputcs working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output working_dir:BF2_QB0600_ES40_TEST7_V019.OUT
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES40_TEST7_V019.SUM
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES40_TEST7_V019.BIN
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES40_TEST7_V019.RIN
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES40_TEST7_V019.ROT
$ set noverify
```

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

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

BF2_QB0600_ES40_TEST7_V020_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V020.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_TEST7_V020.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_TEST7_V020.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_TEST7_V020.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_TEST7_V020.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_TEST7_V020.ROT  
$ set noverify  
  
    image name: "BRAGFLO_QB0600"  
    image file identification: "P QB0600 6.0"  
    image file build identification: ""  
    link date/time: 12-FEB-2007 14:57:24.36  
    linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V001_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V001.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_TEST7_V001.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_TEST7_V001.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_TEST7_V001.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_TEST7_V001.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_TEST7_V001.ROT  
$ set noverify  
  
    image name: "BRAGFLO_QB0600"  
    image file identification: "P QB0600 6.0"  
    image file build identification: ""  
    link date/time: 12-FEB-2007 14:57:24.36  
    linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V002_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V002.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_TEST7_V002.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_TEST7_V002.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_TEST7_V002.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_TEST7_V002.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_TEST7_V002.ROT  
$ set noverify  
  
    image name: "BRAGFLO_QB0600"  
    image file identification: "P QB0600 6.0"  
    image file build identification: ""  
    link date/time: 12-FEB-2007 14:57:24.36
```

linker identification: "A13-03"

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

BF2_QB0600_ES45_TEST7_V003_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V003.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_TEST7_V003.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_TEST7_V003.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_TEST7_V003.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_TEST7_V003.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_TEST7_V003.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES45_TEST7_V004_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V004.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_TEST7_V004.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_TEST7_V004.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_TEST7_V004.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_TEST7_V004.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_TEST7_V004.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES45_TEST7_V005_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V005.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_TEST7_V005.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_TEST7_V005.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_TEST7_V005.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_TEST7_V005.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_TEST7_V005.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES45_TEST7_V006_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V006.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_TEST7_V006.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_TEST7_V006.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_TEST7_V006.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_TEST7_V006.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_TEST7_V006.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES45_TEST7_V007_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V007.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_TEST7_V007.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_TEST7_V007.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_TEST7_V007.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_TEST7_V007.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_TEST7_V007.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES45_TEST7_V008_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V008.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_TEST7_V008.OUT
```

```
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES45_TEST7_V008.SUM
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES45_TEST7_V008.BIN
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES45_TEST7_V008.RIN
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES45_TEST7_V008.ROT
$ set noverify
```

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

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

BF2_QB0600_ES45_TEST7_V009_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
```

```
$ DEFINE bf2_uif$input working_dir:BF2_QB0600_TEST7_V009.INP
$ DEFINE bf2_uif$inputs working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output working_dir:BF2_QB0600_ES45_TEST7_V009.OUT
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES45_TEST7_V009.SUM
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES45_TEST7_V009.BIN
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES45_TEST7_V009.RIN
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES45_TEST7_V009.ROT
$ set noverify
```

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

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

BF2_QB0600_ES45_TEST7_V010_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
```

```
$ DEFINE bf2_uif$input working_dir:BF2_QB0600_TEST7_V010.INP
$ DEFINE bf2_uif$inputs working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output working_dir:BF2_QB0600_ES45_TEST7_V010.OUT
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES45_TEST7_V010.SUM
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES45_TEST7_V010.BIN
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES45_TEST7_V010.RIN
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES45_TEST7_V010.ROT
$ set noverify
```

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

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

BF2_QB0600_ES45_TEST7_V011_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V011.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_TEST7_V011.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_TEST7_V011.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_TEST7_V011.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_TEST7_V011.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_TEST7_V011.ROT  
$ set noverify  
  
    image name: "BRAGFLO_QB0600"  
    image file identification: "P QB0600 6.0"  
    image file build identification: ""  
    link date/time: 12-FEB-2007 14:57:24.36  
    linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V012_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V012.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_TEST7_V012.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_TEST7_V012.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_TEST7_V012.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_TEST7_V012.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_TEST7_V012.ROT  
$ set noverify  
  
    image name: "BRAGFLO_QB0600"  
    image file identification: "P QB0600 6.0"  
    image file build identification: ""  
    link date/time: 12-FEB-2007 14:57:24.36  
    linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V013_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V013.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_TEST7_V013.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_TEST7_V013.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_TEST7_V013.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_TEST7_V013.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_TEST7_V013.ROT  
$ set noverify  
  
    image name: "BRAGFLO_QB0600"  
    image file identification: "P QB0600 6.0"  
    image file build identification: ""  
    link date/time: 12-FEB-2007 14:57:24.36
```

linker identification: "A13-03"

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

BF2_QB0600_ES45_TEST7_V014_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V014.INP  
$ DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES45_TEST7_V014.OUT  
$ DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES45_TEST7_V014.SUM  
$ DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES45_TEST7_V014.BIN  
$ DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES45_TEST7_V014.RIN  
$ DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES45_TEST7_V014.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES45_TEST7_V015_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V015.INP  
$ DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES45_TEST7_V015.OUT  
$ DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES45_TEST7_V015.SUM  
$ DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES45_TEST7_V015.BIN  
$ DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES45_TEST7_V015.RIN  
$ DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES45_TEST7_V015.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES45_TEST7_V016_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V016.INP  
$ DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES45_TEST7_V016.OUT  
$ DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES45_TEST7_V016.SUM  
$ DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES45_TEST7_V016.BIN  
$ DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES45_TEST7_V016.RIN  
$ DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES45_TEST7_V016.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES45_TEST7_V017_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V017.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_TEST7_V017.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_TEST7_V017.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_TEST7_V017.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_TEST7_V017.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_TEST7_V017.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES45_TEST7_V018_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V018.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_TEST7_V018.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_TEST7_V018.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_TEST7_V018.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_TEST7_V018.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_TEST7_V018.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES45_TEST7_V019_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V019.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_TEST7_V019.OUT
```



```
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES45_TEST7_V019.SUM
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES45_TEST7_V019.BIN
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES45_TEST7_V019.RIN
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES45_TEST7_V019.ROT
$ set noverify
```

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

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

BF2_QB0600_ES45_TEST7_V020_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
```

```
$ DEFINE bf2_uif$input working_dir:BF2_QB0600_TEST7_V020.INP
$ DEFINE bf2_uif$inputcs working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output working_dir:BF2_QB0600_ES45_TEST7_V020.OUT
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES45_TEST7_V020.SUM
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES45_TEST7_V020.BIN
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES45_TEST7_V020.RIN
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES45_TEST7_V020.ROT
$ set noverify
```

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

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

BF2_QB0600_ES47_TEST7_V001_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
```

```
$ DEFINE bf2_uif$input working_dir:BF2_QB0600_TEST7_V001.INP
$ DEFINE bf2_uif$inputcs working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output working_dir:BF2_QB0600_ES47_TEST7_V001.OUT
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES47_TEST7_V001.SUM
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES47_TEST7_V001.BIN
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES47_TEST7_V001.RIN
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES47_TEST7_V001.ROT
$ set noverify
```

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

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

BF2_QB0600_ES47_TEST7_V002_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V002.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_TEST7_V002.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_TEST7_V002.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_TEST7_V002.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_TEST7_V002.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_TEST7_V002.ROT  
$ set noverify  
  
    image name: "BRAGFLO_QB0600"  
    image file identification: "P QB0600 6.0"  
    image file build identification: ""  
    link date/time: 12-FEB-2007 14:57:24.36  
    linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V003_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V003.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_TEST7_V003.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_TEST7_V003.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_TEST7_V003.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_TEST7_V003.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_TEST7_V003.ROT  
$ set noverify  
  
    image name: "BRAGFLO_QB0600"  
    image file identification: "P QB0600 6.0"  
    image file build identification: ""  
    link date/time: 12-FEB-2007 14:57:24.36  
    linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V004_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V004.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_TEST7_V004.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_TEST7_V004.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_TEST7_V004.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_TEST7_V004.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_TEST7_V004.ROT  
$ set noverify  
  
    image name: "BRAGFLO_QB0600"  
    image file identification: "P QB0600 6.0"  
    image file build identification: ""  
    link date/time: 12-FEB-2007 14:57:24.36
```

linker identification: "A13-03"

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

BF2_QB0600_ES47_TEST7_V005_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V005.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_TEST7_V005.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_TEST7_V005.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_TEST7_V005.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_TEST7_V005.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_TEST7_V005.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES47_TEST7_V006_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V006.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_TEST7_V006.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_TEST7_V006.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_TEST7_V006.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_TEST7_V006.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_TEST7_V006.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES47_TEST7_V007_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V007.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_TEST7_V007.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_TEST7_V007.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_TEST7_V007.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_TEST7_V007.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_TEST7_V007.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES47_TEST7_V008_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input working_dir:BF2_QB0600_TEST7_V008.INP  
$ DEFINE bf2_uif$inputcs working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output working_dir:BF2_QB0600_ES47_TEST7_V008.OUT  
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES47_TEST7_V008.SUM  
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES47_TEST7_V008.BIN  
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES47_TEST7_V008.RIN  
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES47_TEST7_V008.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES47_TEST7_V009_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input working_dir:BF2_QB0600_TEST7_V009.INP  
$ DEFINE bf2_uif$inputcs working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output working_dir:BF2_QB0600_ES47_TEST7_V009.OUT  
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES47_TEST7_V009.SUM  
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES47_TEST7_V009.BIN  
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES47_TEST7_V009.RIN  
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES47_TEST7_V009.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES47_TEST7_V010_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input working_dir:BF2_QB0600_TEST7_V010.INP  
$ DEFINE bf2_uif$inputcs working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output working_dir:BF2_QB0600_ES47_TEST7_V010.OUT
```

```
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES47_TEST7_V010.SUM
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES47_TEST7_V010.BIN
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES47_TEST7_V010.RIN
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES47_TEST7_V010.ROT
$ set noverify
```

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

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

BF2_QB0600_ES47_TEST7_V011_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
```

```
$ DEFINE bf2_uif$input working_dir:BF2_QB0600_TEST7_V011.INP
$ DEFINE bf2_uif$inputcs working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output working_dir:BF2_QB0600_ES47_TEST7_V011.OUT
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES47_TEST7_V011.SUM
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES47_TEST7_V011.BIN
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES47_TEST7_V011.RIN
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES47_TEST7_V011.ROT
$ set noverify
```

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

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

BF2_QB0600_ES47_TEST7_V012_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
```

```
$ DEFINE bf2_uif$input working_dir:BF2_QB0600_TEST7_V012.INP
$ DEFINE bf2_uif$inputcs working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output working_dir:BF2_QB0600_ES47_TEST7_V012.OUT
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES47_TEST7_V012.SUM
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES47_TEST7_V012.BIN
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES47_TEST7_V012.RIN
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES47_TEST7_V012.ROT
$ set noverify
```

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

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

BF2_QB0600_ES47_TEST7_V013_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V013.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_TEST7_V013.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_TEST7_V013.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_TEST7_V013.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_TEST7_V013.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_TEST7_V013.ROT  
$ set noverify  
  
    image name: "BRAGFLO_QB0600"  
    image file identification: "P QB0600 6.0"  
    image file build identification: ""  
    link date/time: 12-FEB-2007 14:57:24.36  
    linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V014_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V014.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_TEST7_V014.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_TEST7_V014.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_TEST7_V014.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_TEST7_V014.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_TEST7_V014.ROT  
$ set noverify  
  
    image name: "BRAGFLO_QB0600"  
    image file identification: "P QB0600 6.0"  
    image file build identification: ""  
    link date/time: 12-FEB-2007 14:57:24.36  
    linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V015_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V015.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_TEST7_V015.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_TEST7_V015.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_TEST7_V015.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_TEST7_V015.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_TEST7_V015.ROT  
$ set noverify  
  
    image name: "BRAGFLO_QB0600"  
    image file identification: "P QB0600 6.0"  
    image file build identification: ""  
    link date/time: 12-FEB-2007 14:57:24.36
```

linker identification: "A13-03"

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

BF2_QB0600_ES47_TEST7_V016_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V016.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_TEST7_V016.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_TEST7_V016.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_TEST7_V016.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_TEST7_V016.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_TEST7_V016.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES47_TEST7_V017_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V017.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_TEST7_V017.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_TEST7_V017.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_TEST7_V017.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_TEST7_V017.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_TEST7_V017.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES47_TEST7_V018_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V018.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_TEST7_V018.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_TEST7_V018.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_TEST7_V018.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_TEST7_V018.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_TEST7_V018.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES47_TEST7_V019_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V019.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_TEST7_V019.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_TEST7_V019.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_TEST7_V019.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_TEST7_V019.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_TEST7_V019.ROT  
$ set noverify
```

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

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

BF2_QB0600_ES47_TEST7_V020_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST7_V020.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_TEST7_V020.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_TEST7_V020.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_TEST7_V020.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_TEST7_V020.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_TEST7_V020.ROT  
$ set noverify
```

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

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

A.7.2 Test Case 7: Input Files, BF2_QB0600_TEST7_Vnnn.INP (where nnn = 1 to 20)

BF2_QB0600_TEST7_V001.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION  
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
```



```
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
  2  31  27  1
TSTART, TMAX, MAXSTEPS
-1.5779E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
  8.6400E+00 8.6400E-04 1.7280E+09 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
  3
  0.0000E+00 8.6400E+02
  3.1666E+09 8.6400E+02
  3.1666E+10 8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
  2  0  2  'SI'  'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  2
USER REQUESTED PRINTOUT TIMES
  0.0000E+00 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  1
USER REQUESTED RESTART TIMES
  3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
BINARY PRINT FLAGS
1 1 0 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0 0 0
0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
HISTORY VARIABLE OUTPUT
  8
  1  4  NAME=BRINE PRESSURE
11 8 1 17 8 1 11 1 1 22 6 1
  2  1  NAME=GAS PRESSURE
22 12 1
  10  6  NAME=GAS DENSITY
  7  6  1  7 12 1 7 14 1 25 6 1 25 12 1 25 14 1
  18  30  NAME=GAS SATURATION
  8  8  1  9  8  1 10  8  1 11  8  1 12  8  1 13  8  1
14  8  1  8  9  1  9  9  1 10  9  1 11  9  1 12  9  1
13  9  1 14  9  1  8 10  1  9 10  1 10 10  1 11 10  1
12 10  1 13 10  1 14 10  1 16  8  1 17  8  1 18  8  1
16  9  1 17  9  1 18  9  1 16 10  1 17 10  1 18 10  1
  31 140  NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
  3  6  1  3 12  1  3 14  1  3 19  1  3 20  1  3 21  1
  3 22  1  3 23  1  3 24  1  3 25  1  3 26  1  3 27  1
30  6  1 30 12  1 30 14  1 30 19  1 30 20  1 30 21  1
30 22  1 30 23  1 30 24  1 30 25  1 30 26  1 30 27  1
  8  6  1  8 12  1  8 14  1 25  6  1 25 12  1 25 14  1
16  8  1 16  9  1 16 10  1 19  8  1 19  9  1 19 10  1
  8  8  1  8  9  1  8 10  1 15  8  1 15  9  1 15 10  1
22  6  1 22  7  1 22  8  1 22  9  1 22 10  1 22 11  1
22 12  1 22 13  1 22 14  1 22 15  1 22 16  1 22 17  1
22 18  1 22 19  1 22 20  1 22 21  1 22 22  1 22 23  1
22 24  1 22 25  1 22 26  1 22 27  1 23  6  1 23  7  1
23  8  1 23  9  1 23 10  1 23 11  1 23 12  1 23 13  1
23 14  1 23 15  1 23 16  1 23 17  1 23 18  1 23 19  1
23 20  1 23 21  1 23 22  1 23 23  1 23 24  1 23 25  1
23 26  1 23 27  1 11  1  1 11  2  1 11  3  1 11  4  1
11  5  1 11  6  1 11  7  1 11  8  1 11  9  1 11 10  1
11 11  1 11 12  1 11 13  1 11 14  1 11 15  1 11 16  1
11 17  1 11 18  1 11 19  1 11 20  1 11 21  1 11 22  1
11 23  1 11 24  1 11 25  1 11 26  1 11 27  1 12  1  1
12  2  1 12  3  1 12  4  1 12  5  1 12  6  1 12  7  1
12  8  1 12  9  1 12 10  1 12 11  1 12 12  1 12 13  1
12 14  1 12 15  1 12 16  1 12 17  1 12 18  1 12 19  1
12 20  1 12 21  1 12 22  1 12 23  1 12 24  1 12 25  1
12 26  1 12 27  1
32  69  NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
```

8	11	1	9	11	1	10	11	1	11	11	1	12	11	1	13	11	1
14	11	1	8	8	1	9	8	1	10	8	1	11	8	1	12	8	1
13	8	1	14	8	1	16	11	1	17	11	1	18	11	1	16	8	1
17	8	1	18	8	1	22	6	1	22	7	1	22	8	1	22	9	1
22	10	1	22	11	1	22	12	1	22	13	1	22	14	1	22	15	1
22	16	1	22	17	1	22	18	1	22	19	1	22	20	1	22	21	1
22	22	1	22	23	1	22	24	1	22	25	1	22	26	1	22	27	1
11	1	1	11	2	1	11	3	1	11	4	1	11	5	1	11	6	1
11	7	1	11	8	1	11	9	1	11	10	1	11	11	1	11	12	1
11	13	1	11	14	1	11	15	1	11	16	1	11	17	1	11	18	1
11	19	1	11	20	1	11	21	1	11	22	1	11	23	1	11	24	1
11	25	1	11	26	1	11	27	1									

34	140	NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION															
3	6	1	3	12	1	3	14	1	3	19	1	3	20	1	3	21	1
3	22	1	3	23	1	3	24	1	3	25	1	3	26	1	3	27	1
30	6	1	30	12	1	30	14	1	30	19	1	30	20	1	30	21	1
30	22	1	30	23	1	30	24	1	30	25	1	30	26	1	30	27	1
8	6	1	8	12	1	8	14	1	25	6	1	25	12	1	25	14	1
16	8	1	16	9	1	16	10	1	19	8	1	19	9	1	19	10	1
8	8	1	8	9	1	8	10	1	15	8	1	15	9	1	15	10	1
22	6	1	22	7	1	22	8	1	22	9	1	22	10	1	22	11	1
22	12	1	22	13	1	22	14	1	22	15	1	22	16	1	22	17	1
22	18	1	22	19	1	22	20	1	22	21	1	22	22	1	22	23	1
22	24	1	22	25	1	22	26	1	22	27	1	23	6	1	23	7	1
23	8	1	23	9	1	23	10	1	23	11	1	23	12	1	23	13	1
23	14	1	23	15	1	23	16	1	23	17	1	23	18	1	23	19	1
23	20	1	23	21	1	23	22	1	23	23	1	23	24	1	23	25	1
23	26	1	23	27	1	11	1	1	11	2	1	11	3	1	11	4	1
11	5	1	11	6	1	11	7	1	11	8	1	11	9	1	11	10	1
11	11	1	11	12	1	11	13	1	11	14	1	11	15	1	11	16	1
11	17	1	11	18	1	11	19	1	11	20	1	11	21	1	11	22	1
11	23	1	11	24	1	11	25	1	11	26	1	11	27	1	12	1	1
12	2	1	12	3	1	12	4	1	12	5	1	12	6	1	12	7	1
12	8	1	12	9	1	12	10	1	12	11	1	12	12	1	12	13	1
12	14	1	12	15	1	12	16	1	12	17	1	12	18	1	12	19	1
12	20	1	12	21	1	12	22	1	12	23	1	12	24	1	12	25	1
12	26	1	12	27	1												

35	69	NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION															
8	11	1	9	11	1	10	11	1	11	11	1	12	11	1	13	11	1
14	11	1	8	8	1	9	8	1	10	8	1	11	8	1	12	8	1
13	8	1	14	8	1	16	11	1	17	11	1	18	11	1	16	8	1
17	8	1	18	8	1	22	6	1	22	7	1	22	8	1	22	9	1
22	10	1	22	11	1	22	12	1	22	13	1	22	14	1	22	15	1
22	16	1	22	17	1	22	18	1	22	19	1	22	20	1	22	21	1
22	22	1	22	23	1	22	24	1	22	25	1	22	26	1	22	27	1
11	1	1	11	2	1	11	3	1	11	4	1	11	5	1	11	6	1
11	7	1	11	8	1	11	9	1	11	10	1	11	11	1	11	12	1
11	13	1	11	14	1	11	15	1	11	16	1	11	17	1	11	18	1
11	19	1	11	20	1	11	21	1	11	22	1	11	23	1	11	24	1
11	25	1	11	26	1	11	27	1									

MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T

NUMBER OF MONITOR BLOCKS

3
 MONITOR BLOCKS (I,J,K)

11	10	1
17	10	1
25	12	1

GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
 1 2 1 7

GRID DATA CARDS: GRID BLOCK DX'S

1.500000E+04	5.000000E+03	1.750000E+03	5.000000E+02	1.000000E+02	4.000000E+01
1.000000E+01	4.380000E+01	1.000000E+01	2.000000E+00	2.772118E-01	2.000000E+00
1.000000E+01	4.380000E+01	4.000000E+01	1.000000E+02	4.950000E+02	1.000000E+02
8.000000E+01	2.830000E+02	5.000000E+01	1.000000E+01	6.000000E+01	5.000000E+02
1.000000E+01	4.000000E+01	1.000000E+02	5.000000E+02	1.750000E+03	5.000000E+03
1.500000E+04					

GRID DATA CARDS: GRID BLOCK DY'S

2.728000E+00	4.737200E+01	1.391600E+02	5.000000E+01	1.100000E+01	8.500000E-01
1.380000E+00	1.320800E+00	1.320800E+00	1.320800E+00	2.617500E+00	2.700000E-01
9.060000E+00	1.800000E-01	6.098000E+01	1.585300E+02	1.585300E+02	5.080000E+00
3.600000E+01	7.700000E+00	2.480000E+01	8.500000E+00	1.730000E+01	1.060000E+02
4.330000E+01	1.566000E+01	1.000000E-01			

GRID DATA CARDS: GRID BLOCK DZ'S

6.131430E+04	2.131430E+04	7.814300E+03	3.314300E+03	2.114300E+03	1.834300E+03
1.734300E+03	1.262000E+02	2.880000E+01	4.800000E+00	2.772118E-01	4.800000E+00

2.880000E+01	1.262000E+02	1.000000E+01	1.323000E+02	1.435000E+02	1.416000E+02
1.890000E+01	1.890000E+01	1.890000E+01	9.500000E+00	2.050000E+01	5.310000E+01
1.258900E+03	1.458900E+03	2.018900E+03	3.928000E+03	8.226900E+03	2.172690E+04
6.172690E+04					
GRID BLOCK ELEVATIONS					
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
-3.441824E+01	1.401058E+02	1.990077E+02	2.186417E+02	2.238774E+02	2.250991E+02
2.255354E+02	2.260048E+02	2.264743E+02	2.265790E+02	2.266000E+02	2.266209E+02
2.267256E+02	2.271951E+02	2.279264E+02	2.291480E+02	2.343401E+02	2.395322E+02
2.411029E+02	2.442706E+02	2.471764E+02	2.477000E+02	2.483108E+02	2.531975E+02
2.576478E+02	2.580841E+02	2.593058E+02	2.645415E+02	2.841755E+02	3.430774E+02
5.176014E+02					
6.014737E+01	2.346714E+02	2.935733E+02	3.132073E+02	3.184430E+02	3.196646E+02
3.201010E+02	3.205704E+02	3.210399E+02	3.211446E+02	3.211656E+02	3.211865E+02
3.212912E+02	3.217607E+02	3.224920E+02	3.237137E+02	3.289057E+02	3.340978E+02
3.356685E+02	3.388362E+02	3.417420E+02	3.422656E+02	3.428764E+02	3.477631E+02
3.522134E+02	3.526497E+02	3.538714E+02	3.591071E+02	3.787411E+02	4.376429E+02
6.121671E+02					
9.064270E+01	2.651668E+02	3.240687E+02	3.437026E+02	3.489384E+02	3.501600E+02
3.505963E+02	3.510658E+02	3.515353E+02	3.516400E+02	3.516609E+02	3.516819E+02
3.517866E+02	3.522561E+02	3.529873E+02	3.542090E+02	3.594011E+02	3.645932E+02
3.661639E+02	3.693315E+02	3.722373E+02	3.727609E+02	3.733717E+02	3.782584E+02
3.827088E+02	3.831451E+02	3.843668E+02	3.896025E+02	4.092365E+02	4.681383E+02
6.426624E+02					
9.656680E+01	2.710909E+02	3.299928E+02	3.496267E+02	3.548625E+02	3.560841E+02
3.565204E+02	3.569899E+02	3.574594E+02	3.575641E+02	3.575851E+02	3.576060E+02
3.577107E+02	3.581802E+02	3.589114E+02	3.601331E+02	3.653252E+02	3.705173E+02
3.720880E+02	3.752556E+02	3.781614E+02	3.786850E+02	3.792958E+02	3.841825E+02
3.886329E+02	3.890692E+02	3.902909E+02	3.955266E+02	4.151606E+02	4.740624E+02
6.485865E+02					
9.768167E+01	2.722057E+02	3.311076E+02	3.507415E+02	3.559773E+02	3.571989E+02
3.576353E+02	3.581047E+02	3.585742E+02	3.586789E+02	3.586999E+02	3.587208E+02
3.588255E+02	3.592950E+02	3.600263E+02	3.612480E+02	3.664400E+02	3.716321E+02
3.732029E+02	3.763705E+02	3.792763E+02	3.797998E+02	3.804107E+02	3.852974E+02
3.897477E+02	3.901840E+02	3.914057E+02	3.966414E+02	4.162754E+02	4.751772E+02
6.497014E+02					
9.903186E+01	2.735559E+02	3.324578E+02	3.520918E+02	3.573275E+02	3.585491E+02
3.589854E+02	3.594549E+02	3.599244E+02	3.600291E+02	3.600501E+02	3.600710E+02
3.601757E+02	3.606452E+02	3.613765E+02	3.625981E+02	3.677902E+02	3.729823E+02
3.745530E+02	3.777206E+02	3.806265E+02	3.811501E+02	3.817609E+02	3.866476E+02
3.910979E+02	3.915342E+02	3.927559E+02	3.979916E+02	4.176256E+02	4.765274E+02
6.510515E+02					
1.003524E+02	2.748765E+02	3.337784E+02	3.534124E+02	3.586481E+02	3.598698E+02
3.603061E+02	3.607755E+02	3.612450E+02	3.613497E+02	3.613707E+02	3.613916E+02
3.614963E+02	3.619658E+02	3.626971E+02	3.639187E+02	3.691108E+02	3.743029E+02
3.758736E+02	3.790413E+02	3.819471E+02	3.824706E+02	3.830815E+02	3.879681E+02
3.924185E+02	3.928548E+02	3.940765E+02	3.993122E+02	4.189462E+02	4.778481E+02
6.523721E+02					
1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	3.611903E+02
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	3.627122E+02
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02

6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.194830E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.357305E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.523779E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.269166E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03

1.001650E+03	1.001650E+03	1.001650E+03	1.001555E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03					
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031031E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03					
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.038910E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03					

WELL DATA

0

DIRICHLET CONDITIONS

T 35

1	20	1	T	F	8.520000E+05	0.000000E+00
31	20	1	T	F	8.520000E+05	0.000000E+00
1	22	1	T	F	9.000000E+05	0.000000E+00
31	22	1	T	F	9.000000E+05	0.000000E+00
1	27	1	T	T	1.013250E+05	2.000000E-01
2	27	1	T	T	1.013250E+05	2.000000E-01
3	27	1	T	T	1.013250E+05	2.000000E-01
4	27	1	T	T	1.013250E+05	2.000000E-01
5	27	1	T	T	1.013250E+05	2.000000E-01
6	27	1	T	T	1.013250E+05	2.000000E-01
7	27	1	T	T	1.013250E+05	2.000000E-01
8	27	1	T	T	1.013250E+05	2.000000E-01
9	27	1	T	T	1.013250E+05	2.000000E-01
10	27	1	T	T	1.013250E+05	2.000000E-01
11	27	1	T	T	1.013250E+05	2.000000E-01
12	27	1	T	T	1.013250E+05	2.000000E-01
13	27	1	T	T	1.013250E+05	2.000000E-01
14	27	1	T	T	1.013250E+05	2.000000E-01
15	27	1	T	T	1.013250E+05	2.000000E-01
16	27	1	T	T	1.013250E+05	2.000000E-01
17	27	1	T	T	1.013250E+05	2.000000E-01
18	27	1	T	T	1.013250E+05	2.000000E-01
19	27	1	T	T	1.013250E+05	2.000000E-01
20	27	1	T	T	1.013250E+05	2.000000E-01
21	27	1	T	T	1.013250E+05	2.000000E-01
22	27	1	T	T	1.013250E+05	2.000000E-01
23	27	1	T	T	1.013250E+05	2.000000E-01
24	27	1	T	T	1.013250E+05	2.000000E-01
25	27	1	T	T	1.013250E+05	2.000000E-01
26	27	1	T	T	1.013250E+05	2.000000E-01
27	27	1	T	T	1.013250E+05	2.000000E-01
28	27	1	T	T	1.013250E+05	2.000000E-01
29	27	1	T	T	1.013250E+05	2.000000E-01
30	27	1	T	T	1.013250E+05	2.000000E-01
31	27	1	T	T	1.013250E+05	2.000000E-01

GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS

1.510225E+07	1.510225E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.510225E+07					
1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07
1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07
1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07
1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07
1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07
1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07
1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07	1.480060E+07
1.480060E+07					
1.707447E+07	1.497290E+07	1.426362E+07	1.402719E+07	1.396415E+07	
1.394944E+07	1.394418E+07	1.393853E+07	1.393288E+07	1.393161E+07	
1.393136E+07	1.393111E+07	1.392985E+07	1.392420E+07	1.391539E+07	
1.390068E+07	1.383816E+07	1.377564E+07	1.375672E+07	1.371858E+07	
1.368359E+07	1.367728E+07	1.366993E+07	1.361108E+07	1.355749E+07	
1.355224E+07	1.353753E+07	1.347448E+07	1.323806E+07	1.252878E+07	
1.042721E+07					

1.593574E+07	1.383417E+07	1.312489E+07	1.288846E+07	1.282542E+07
1.281071E+07	1.280545E+07	1.279980E+07	1.279415E+07	1.279289E+07
1.279263E+07	1.279238E+07	1.279112E+07	1.278547E+07	1.277666E+07
1.276195E+07	1.269943E+07	1.263691E+07	1.261799E+07	1.257985E+07
1.254486E+07	1.253855E+07	1.253120E+07	1.247235E+07	1.241876E+07
1.241351E+07	1.239880E+07	1.233575E+07	1.209933E+07	1.139005E+07
9.288480E+06				
1.556852E+07	1.346695E+07	1.275768E+07	1.252125E+07	1.245820E+07
1.244349E+07	1.243824E+07	1.243258E+07	1.242693E+07	1.242567E+07
1.242542E+07	1.242516E+07	1.242390E+07	1.241825E+07	1.240945E+07
1.239473E+07	1.233221E+07	1.226969E+07	1.225078E+07	1.221263E+07
1.217764E+07	1.217134E+07	1.216398E+07	1.210514E+07	1.205155E+07
1.204629E+07	1.203158E+07	1.196854E+07	1.173211E+07	1.102283E+07
8.921264E+06				
1.549718E+07	1.339562E+07	1.268634E+07	1.244991E+07	1.238687E+07
1.237215E+07	1.236690E+07	1.236125E+07	1.235559E+07	1.235433E+07
1.235408E+07	1.235383E+07	1.235257E+07	1.234691E+07	1.233811E+07
1.232340E+07	1.226088E+07	1.219835E+07	1.217944E+07	1.214130E+07
1.210631E+07	1.013250E+05	1.209265E+07	1.203380E+07	1.198021E+07
1.197496E+07	1.196025E+07	1.189720E+07	1.166077E+07	1.095150E+07
8.849928E+06				
1.548376E+07	1.338219E+07	1.267291E+07	1.243649E+07	1.237344E+07
1.235873E+07	1.235348E+07	1.234782E+07	1.234217E+07	1.234091E+07
1.234066E+07	1.234040E+07	1.233914E+07	1.233349E+07	1.232468E+07
1.230997E+07	1.224745E+07	1.218493E+07	1.216602E+07	1.212787E+07
1.209288E+07	1.013250E+05	1.207922E+07	1.202038E+07	1.196679E+07
1.196153E+07	1.194682E+07	1.188378E+07	1.164735E+07	1.093807E+07
8.836503E+06				
1.546750E+07	1.336594E+07	1.265666E+07	1.242023E+07	1.235718E+07
1.234247E+07	1.233722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.194528E+07	1.193056E+07	1.186752E+07	1.163109E+07	1.092181E+07
8.820245E+06				
1.545160E+07	1.335003E+07	1.264075E+07	1.240433E+07	1.234128E+07
1.232657E+07	1.232132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.192937E+07	1.191466E+07	1.185161E+07	1.161519E+07	1.090591E+07
8.804342E+06				
1.543570E+07	1.333413E+07	1.262485E+07	1.238843E+07	1.232538E+07
1.231067E+07	1.230541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.191347E+07	1.189876E+07	1.183571E+07	1.159929E+07	1.089001E+07
8.788441E+06				
1.541199E+07	1.331042E+07	1.260114E+07	1.236472E+07	1.230167E+07
1.228696E+07	1.228170E+07	1.227605E+07	1.227040E+07	1.226914E+07
1.226888E+07	1.226863E+07	1.226737E+07	1.226172E+07	1.225291E+07
1.223820E+07	1.217568E+07	1.211316E+07	1.209424E+07	1.205610E+07
1.202111E+07	1.013250E+05	1.200745E+07	1.194860E+07	1.189502E+07
1.188976E+07	1.187505E+07	1.181200E+07	1.157558E+07	1.086630E+07
8.764732E+06				
1.539460E+07	1.329304E+07	1.258376E+07	1.234733E+07	1.228429E+07
1.226957E+07	1.226432E+07	1.225867E+07	1.225301E+07	1.225175E+07
1.225150E+07	1.225125E+07	1.224999E+07	1.224433E+07	1.223553E+07
1.222082E+07	1.215830E+07	1.209577E+07	1.207686E+07	1.203872E+07
1.200373E+07	1.013250E+05	1.199007E+07	1.193122E+07	1.187763E+07
1.187238E+07	1.185767E+07	1.179462E+07	1.155819E+07	1.084892E+07
8.747348E+06				
1.533844E+07	1.323687E+07	1.252759E+07	1.229117E+07	1.222812E+07
1.221341E+07	1.220815E+07	1.220250E+07	1.219685E+07	1.219559E+07
1.219533E+07	1.219508E+07	1.219382E+07	1.218817E+07	1.217936E+07
1.216465E+07	1.210213E+07	1.203961E+07	1.202069E+07	1.198255E+07
1.194756E+07	1.013250E+05	1.193390E+07	1.187506E+07	1.182147E+07
1.181621E+07	1.180150E+07	1.173845E+07	1.150203E+07	1.079275E+07
8.691182E+06				
1.528281E+07	1.318125E+07	1.247197E+07	1.223554E+07	1.217250E+07
1.215778E+07	1.215253E+07	1.214688E+07	1.214122E+07	1.213996E+07
1.213971E+07	1.213946E+07	1.213820E+07	1.213254E+07	1.212374E+07
1.210903E+07	1.204651E+07	1.198398E+07	1.196507E+07	1.192693E+07
1.189194E+07	1.013250E+05	1.187828E+07	1.181943E+07	1.176584E+07
1.176059E+07	1.174588E+07	1.168283E+07	1.144640E+07	1.073713E+07


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31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
DSATLIM, DPRESLIM, SATLIMIT
 2.0000E-01 -1.0000E+08 1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
 3.0000E-01 5.0000E+05
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX DPRES_MAX
 1.0000E+00 1.0000E+07
CONVERGENCE TEST FLAG: 0=OR/1=AND
 1
EPS_SAT, EPS_PRES: NORMAL CONVERGENCE CRITERIA
 3.0000E+00 1.0000E-02
EPS_SAT, EPS_PRES: RELAXED CONVERGENCE CRITERIA
 3.0000E+00 1.0000E-02
FTOL_SAT FTOL_PRES: NORMAL RESIDUAL' TOLERANCE
 1.0000E-02 1.0000E-02
FTOL_SAT FTOL_PRES: RELAXED RESIDUAL' TOLERANCE
 1.0000E-02 1.0000E-02
GAS TRANSPORT TOLERANCES
 1.0000E-05 1.0000E-05 1.0000E-05 1.0000E-05
LINEAR EQUATION SOLVER TYPE
LU
ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
 8 40 1 T 1.0000E+07 F
IUPRFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMPRAVE
 9 9 5.0000E-01 1 0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
 41 1 5 9 9
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
 1.0000E-10 1.0000E-10
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
 1.0000E-12 1.0000E-04
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 4
START TIME FOR MAP 1
-1.5779E+08
MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1
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 4 4 4 4 4 4 4 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 10 2 2 4 4
 4 4 4 4 4
 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 10 2 2 1 1
 1 1 1 1 1
 1 1 1 1 1 1 1 1 7 7 7 7 7 7 7 10 8 8 8 10 9 9 10 9 9 1 1
 1 1 1 1 1
 1 1 1 1 1 1 1 1 7 7 7 7 7 7 7 10 8 8 8 10 9 9 10 9 9 1 1
 1 1 1 1 1
 1 1 1 1 1 1 1 1 7 7 7 7 7 7 7 10 8 8 8 10 9 9 10 9 9 1 1
 1 1 1 1 1
 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 10 2 2 1 1
 1 1 1 1 1
 5 5 5 5 5 5 5 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 10 2 2 5 5
 5 5 5 5 5
 1 1 1 1 1 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 10 3 3 1 1
 1 1 1 1 1
 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 10 6 6 6 6
 6 6 6 6 6
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 10 1 1 1 1
 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 10 1 1 1 1
 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 10 1 1 1 1
 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 10 1 1 1 1
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1 1 1 1 1 1 1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24 1 1
1 1 1 1 1 1
1 1 1 1 1 1 1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24 1 1
1 1 1 1 1
1 1 1 1 1 1 1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15 1 1
1 1 1 1 1
5 5 5 5 5 5 5 5 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15 5 5
5 5 5 5 5
1 1 1 1 1 1 1 1 38 38 38 37 38 38 38 38 38 38 38 38 38 38 26 38 38 1 1
1 1 1 1 1
6 6 6 6 6 6 6 6 6 6 6 37 6 6 6 6 6 6 6 6 6 6 6 6 6 6
6 6 6 6 6
1 1 1 1 1 1 1 1 1 1 1 37 1 1 1 1 1 1 1 1 1 1 1 32 1 1 1 1
1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 37 1 1 1 1 1 1 1 1 1 1 1 28 1 1 1 1
1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 37 1 1 1 1 1 1 1 1 1 1 1 28 1 1 1 1
1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 37 1 1 1 1 1 1 1 1 1 1 1 34 1 1 1 1
1 1 1 1 1
16 16 16 16 16 16 16 16 16 16 16 37 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
16 16 16 16 16
17 17 17 17 17 17 17 17 17 17 17 37 17 17 17 17 17 17 17 17 17 17 34 17 17 17 17
17 17 17 17 17
18 18 18 18 18 18 18 18 18 18 18 37 18 18 18 18 18 18 18 18 18 18 30 18 18 18 18
18 18 18 18 18
19 19 19 19 19 19 19 19 19 19 19 37 19 19 19 19 19 19 19 19 19 19 30 19 19 19 19
19 19 19 19 19
20 20 20 20 20 20 20 20 20 20 20 37 20 20 20 20 20 20 20 20 20 20 30 20 20 20 20
20 20 20 20 20
21 21 21 21 21 21 21 21 21 21 21 37 21 21 21 21 21 21 21 21 21 21 30 21 21 21 21
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22 22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
22 22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22

```

- # NAME
- 1 S_HALITE
- 2 DRZ_0
- 3 TRANS_0
- 4 S_MBL39
- 5 S_ANH_AB
- 6 S_MBL38
- 7 CAVITY_1
- 8 CAVITY_2
- 9 CAVITY_3
- 10 CAVITY_4
- 11 IMPERM_Z
- 12 CASTILER
- 13 WAS_AREA
- 14 REPOSIT
- 15 DRZ_1
- 16 UNNAMED
- 17 CULEBRA
- 18 TAMARISK
- 19 MAGENTA
- 20 FORTYNIN
- 21 DEWLAKE
- 22 SANTAROS
- 23 BACKFILL
- 24 EXP_AREA
- 25 SHFT_B_1
- 26 SHFT_B_2
- 27 SHFT_L_1
- 28 SHFT_L_2
- 29 SHFT_U_1
- 30 SHFT_U_2
- 31 SHFT_LS1
- 32 SHFT_LS2
- 33 SHFT_US1
- 34 SHFT_US2
- 35 PAN_S_1
- 36 PAN_S_2
- 37 BOREHOLE

```

38     TRANS_1
39     CAVITY_5
NWST
2
MAT_WASTE1  MAT_WASTE
7 8
13 14
NDRZ
0
NMATRESET
5
MATRESET
7 8 9 10 39
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000E+00 1
POWASTEIC
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
SOWASTEIC
0.000000E+00
0.000000E+00
0.000000E+00
0.250000E+00
0.200000E+00
PRESDRZ

NBORERESET
0
# LAMBDA      SOR          SGR
1 5.503000E-01 2.489000E-01 1.025000E-01
2 5.503000E-01 0.000000E+00 0.000000E+00
3 5.503000E-01 0.000000E+00 0.000000E+00
4 6.492000E+00 1.559000E-02 2.049000E-01
5 6.492000E+00 1.559000E-02 2.049000E-01
6 6.492000E+00 1.559000E-02 2.049000E-01
7 7.000000E-01 0.000000E+00 0.000000E+00
8 7.000000E-01 0.000000E+00 0.000000E+00
9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 7.082000E+00 3.636000E-01 1.877000E-01
14 7.082000E+00 3.636000E-01 1.877000E-01
15 5.503000E-01 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
28 7.000000E-01 2.000000E-01 2.000000E-01
29 7.000000E-01 2.000000E-01 2.000000E-01
30 7.000000E-01 2.000000E-01 2.000000E-01
31 7.000000E-01 2.000000E-01 2.000000E-01
32 7.000000E-01 2.000000E-01 2.000000E-01
33 7.000000E-01 2.000000E-01 2.000000E-01
34 7.000000E-01 2.000000E-01 2.000000E-01
35 7.000000E-01 2.000000E-01 2.000000E-01
36 7.000000E-01 2.000000E-01 2.000000E-01
37 7.000000E-01 2.000000E-01 0.000000E+00
38 5.503000E-01 0.000000E+00 0.000000E+00
39 7.000000E-01 0.000000E+00 0.000000E+00
# SBMIN      PBMIN      PCMAX      PCT_A      PCT_EXP      KRP KPC KTP
1 2.613450E-01 1.013250E+05 1.000000E+08 1.937000E+05 0.000000E+00 4 2 0
2 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0

```

3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
4	1.636950E-02	1.013250E+05	1.000000E+08	1.267651E-03	-3.460000E-01	4	2	0
5	1.636950E-02	1.013250E+05	1.000000E+08	1.267651E-03	-3.460000E-01	4	2	0
6	1.636950E-02	1.013250E+05	1.000000E+08	1.267651E-03	-3.460000E-01	4	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	3.817800E-01	1.013250E+05	1.000000E+08	8.413720E-01	-3.460000E-01	1	4	0
14	3.817800E-01	1.013250E+05	1.000000E+08	8.413720E-01	-3.460000E-01	1	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	1.748268E+06	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	1.748268E+06	0.000000E+00	4	2	0
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
#	PERMX	PERMY	PERMZ	POROSITY	COMPRES			
1	1.174897E-21	1.174897E-21	1.174897E-21	2.096000E-03	1.288484E-07			
2	1.000000E-15	1.000000E-15	1.000000E-15	2.096000E-03	3.959559E-07			
3	1.000000E-15	1.000000E-15	1.000000E-15	2.096000E-03	3.959559E-07			
4	1.819702E-19	1.819702E-19	1.819702E-19	1.929000E-02	1.777935E-08			
5	1.819702E-19	1.819702E-19	1.819702E-19	1.929000E-02	1.777935E-08			
6	1.819702E-19	1.819702E-19	1.819702E-19	1.929000E-02	1.777935E-08			
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00			
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00			
9	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00			
10	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00			
11	0.000000E+00	0.000000E+00	0.000000E+00	5.000000E-03	0.000000E+00			
12	1.330453E-11	1.330453E-11	1.330453E-11	5.200000E-03	1.923077E-07			
13	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09			
14	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09			
15	1.000000E-15	1.000000E-15	1.000000E-15	2.096000E-03	3.959559E-07			
16	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00			
17	2.648502E-13	2.648502E-13	2.648502E-13	1.460000E-01	1.417160E-09			
18	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00			
19	1.096478E-16	1.096478E-16	1.096478E-16	9.000000E-02	2.199962E-09			
20	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00			
21	9.332549E-16	9.332549E-16	9.332549E-16	1.500000E-01	6.666667E-08			
22	1.000000E-10	1.000000E-10	1.000000E-10	1.750000E-01	5.714286E-08			
23	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00			
24	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00			
25	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08			
26	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08			
27	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08			
28	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08			
29	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09			
30	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09			
31	1.000000E-12	1.000000E-12	1.000000E-12	5.000000E-02	2.000000E-08			
32	1.698242E-19	1.698242E-19	1.698242E-19	5.000000E-02	2.000000E-08			
33	1.698242E-19	1.698242E-19	1.698242E-19	5.000000E-02	2.000000E-08			
34	1.000000E-12	1.000000E-12	1.000000E-12	5.000000E-02	2.000000E-08			
35	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08			
36	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08			
37	3.162278E-12	3.162278E-12	3.162278E-12	3.700000E-01	0.000000E+00			
38	1.000000E-15	1.000000E-15	1.000000E-15	2.096000E-03	3.959559E-07			

```
39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
T
NFRAC
3
# DELTA_PI DELTA_PF FRAC_PHI FRAC_EXP IFRX IFRY IFRZ
4 2.160000E+06 2.500000E+06 2.929000E-02 5.913467E+01 1 1 0
5 2.160000E+06 2.500000E+06 2.929000E-02 5.913467E+01 1 1 0
6 2.160000E+06 2.500000E+06 2.929000E-02 5.913467E+01 1 1 0
KLINKENBERG EFFECT TO BE USED? True or False
T
BKLINK EXPKLINK
9.80000E-01 -3.30000E-01
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01320E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.80000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
1.0978E-06 0.0000E+00 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
4.8920E-04 0.0000E+00
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
2.6110E-01 0.0000E+00
2.6110E-01 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1.2970E+00 -1.4061E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
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0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.4000E+03 4.7000E+03 1.1000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.3700E+03 3.0500E+03 2.1700E+03
WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
# MAT NO. MODEL 1= WASTE-FILLED, 2=BACKFILLED
1 13 4
2 14 4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST7_V002.INP

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1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
2 31 27 1
TSTART, TMAX, MAXSTEPS
-1.5779E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
8.6400E+00 8.6400E-04 1.7280E+09 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
3
0.0000E+00 8.6400E+02
3.1666E+09 8.6400E+02
3.1666E+10 8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
2 0 2 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
2
USER REQUESTED PRINTOUT TIMES
0.0000E+00 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
1
USER REQUESTED RESTART TIMES
3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
BINARY PRINT FLAGS
1 1 0 0 0 1 0 0 0 1 1 0 0 0 1 0 0 0 1 0 1 0 0 0 0 0 0
0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
HISTORY VARIABLE OUTPUT
```


3.577107E+02	3.581802E+02	3.589114E+02	3.601331E+02	3.653252E+02	3.705173E+02
3.720880E+02	3.752556E+02	3.781614E+02	3.786850E+02	3.792958E+02	3.841825E+02
3.886329E+02	3.890692E+02	3.902909E+02	3.955266E+02	4.151606E+02	4.740624E+02
6.485865E+02					
9.768167E+01	2.722057E+02	3.311076E+02	3.507415E+02	3.559773E+02	3.571989E+02
3.576353E+02	3.581047E+02	3.585742E+02	3.586789E+02	3.586999E+02	3.587208E+02
3.588255E+02	3.592950E+02	3.600263E+02	3.612480E+02	3.664400E+02	3.716321E+02
3.732029E+02	3.763705E+02	3.792763E+02	3.797998E+02	3.804107E+02	3.852974E+02
3.897477E+02	3.901840E+02	3.914057E+02	3.966414E+02	4.162754E+02	4.751772E+02
6.497014E+02					
9.903186E+01	2.735559E+02	3.324578E+02	3.520918E+02	3.573275E+02	3.585491E+02
3.589854E+02	3.594549E+02	3.599244E+02	3.600291E+02	3.600501E+02	3.600710E+02
3.601757E+02	3.606452E+02	3.613765E+02	3.625981E+02	3.677902E+02	3.729823E+02
3.745530E+02	3.777206E+02	3.806265E+02	3.811501E+02	3.817609E+02	3.866476E+02
3.910979E+02	3.915342E+02	3.927559E+02	3.979916E+02	4.176256E+02	4.765274E+02
6.510515E+02					
1.003524E+02	2.748765E+02	3.337784E+02	3.534124E+02	3.586481E+02	3.598698E+02
3.603061E+02	3.607755E+02	3.612450E+02	3.613497E+02	3.613707E+02	3.613916E+02
3.614963E+02	3.619658E+02	3.626971E+02	3.639187E+02	3.691108E+02	3.743029E+02
3.758736E+02	3.790413E+02	3.819471E+02	3.824706E+02	3.830815E+02	3.879681E+02
3.924185E+02	3.928548E+02	3.940765E+02	3.993122E+02	4.189462E+02	4.778481E+02
6.523721E+02					
1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	3.611903E+02
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	3.627122E+02
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973555E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					

15	27	1	T	T	1.013250E+05	2.000000E-01
16	27	1	T	T	1.013250E+05	2.000000E-01
17	27	1	T	T	1.013250E+05	2.000000E-01
18	27	1	T	T	1.013250E+05	2.000000E-01
19	27	1	T	T	1.013250E+05	2.000000E-01
20	27	1	T	T	1.013250E+05	2.000000E-01
21	27	1	T	T	1.013250E+05	2.000000E-01
22	27	1	T	T	1.013250E+05	2.000000E-01
23	27	1	T	T	1.013250E+05	2.000000E-01
24	27	1	T	T	1.013250E+05	2.000000E-01
25	27	1	T	T	1.013250E+05	2.000000E-01
26	27	1	T	T	1.013250E+05	2.000000E-01
27	27	1	T	T	1.013250E+05	2.000000E-01
28	27	1	T	T	1.013250E+05	2.000000E-01
29	27	1	T	T	1.013250E+05	2.000000E-01
30	27	1	T	T	1.013250E+05	2.000000E-01
31	27	1	T	T	1.013250E+05	2.000000E-01

GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS

1.563225E+07	1.563225E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.563225E+07
1.563225E+07	1.533060E+07	1.533060E+07	1.533060E+07	1.533060E+07
1.533060E+07	1.533060E+07	1.533060E+07	1.533060E+07	1.533060E+07
1.533060E+07	1.533060E+07	1.533060E+07	1.533060E+07	1.533060E+07
1.533060E+07	1.533060E+07	1.533060E+07	1.533060E+07	1.533060E+07
1.533060E+07	1.533060E+07	1.533060E+07	1.533060E+07	1.533060E+07
1.533060E+07	1.533060E+07	1.533060E+07	1.533060E+07	1.533060E+07
1.533060E+07	1.533060E+07	1.533060E+07	1.533060E+07	1.533060E+07
1.533060E+07	1.533060E+07	1.533060E+07	1.533060E+07	1.533060E+07
1.760447E+07	1.550290E+07	1.479362E+07	1.455719E+07	1.449415E+07
1.447944E+07	1.447418E+07	1.446853E+07	1.446288E+07	1.446161E+07
1.446136E+07	1.446111E+07	1.445985E+07	1.445420E+07	1.444539E+07
1.443068E+07	1.436816E+07	1.430564E+07	1.428672E+07	1.424858E+07
1.421359E+07	1.420728E+07	1.419993E+07	1.414108E+07	1.408749E+07
1.408224E+07	1.406753E+07	1.400448E+07	1.376806E+07	1.305878E+07
1.095721E+07	1.646574E+07	1.365489E+07	1.341846E+07	1.335542E+07
1.334071E+07	1.333545E+07	1.332980E+07	1.332415E+07	1.332289E+07
1.332263E+07	1.332238E+07	1.332112E+07	1.331547E+07	1.330666E+07
1.329195E+07	1.322943E+07	1.316691E+07	1.314799E+07	1.310985E+07
1.307486E+07	1.306855E+07	1.306120E+07	1.300235E+07	1.294876E+07
1.294351E+07	1.292880E+07	1.286575E+07	1.262933E+07	1.192005E+07
9.818480E+06	1.609852E+07	1.328768E+07	1.305125E+07	1.298820E+07
1.297349E+07	1.296824E+07	1.296258E+07	1.295693E+07	1.295567E+07
1.295542E+07	1.295516E+07	1.295390E+07	1.294825E+07	1.293945E+07
1.292473E+07	1.286221E+07	1.279969E+07	1.278078E+07	1.274263E+07
1.270764E+07	1.270134E+07	1.269398E+07	1.263514E+07	1.258155E+07
1.257629E+07	1.256158E+07	1.249854E+07	1.226211E+07	1.155283E+07
9.451264E+06	1.602718E+07	1.321634E+07	1.297991E+07	1.291687E+07
1.290215E+07	1.289690E+07	1.289125E+07	1.288559E+07	1.288433E+07
1.288408E+07	1.288383E+07	1.288257E+07	1.287691E+07	1.286811E+07
1.285340E+07	1.279088E+07	1.272835E+07	1.270944E+07	1.267130E+07
1.263631E+07	1.013250E+05	1.262265E+07	1.256380E+07	1.251021E+07
1.250496E+07	1.249025E+07	1.242720E+07	1.219077E+07	1.148150E+07
9.379928E+06	1.601376E+07	1.320291E+07	1.296649E+07	1.290344E+07
1.288873E+07	1.288348E+07	1.287782E+07	1.287217E+07	1.287091E+07
1.287066E+07	1.287040E+07	1.286914E+07	1.286349E+07	1.285468E+07
1.283997E+07	1.277745E+07	1.271493E+07	1.269602E+07	1.265787E+07
1.262288E+07	1.013250E+05	1.260922E+07	1.255038E+07	1.249679E+07
1.249153E+07	1.247682E+07	1.241378E+07	1.217735E+07	1.146807E+07
9.366503E+06	1.599750E+07	1.318666E+07	1.295023E+07	1.288718E+07
1.287247E+07	1.286722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.247528E+07	1.246056E+07	1.239752E+07	1.216109E+07	1.145181E+07
9.350245E+06	1.598160E+07	1.317075E+07	1.293433E+07	1.287128E+07
1.285657E+07	1.285132E+07	1.013250E+05	1.013250E+05	1.013250E+05

1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.246463E+07
1.245937E+07	1.244466E+07	1.238161E+07	1.214519E+07	1.143591E+07
9.334342E+06				
1.596570E+07	1.386413E+07	1.315485E+07	1.291843E+07	1.285538E+07
1.284067E+07	1.283541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.244872E+07
1.244347E+07	1.242876E+07	1.236571E+07	1.212929E+07	1.142001E+07
9.318441E+06				
1.594199E+07	1.384042E+07	1.313114E+07	1.289472E+07	1.283167E+07
1.281696E+07	1.281170E+07	1.280605E+07	1.280040E+07	1.279914E+07
1.279888E+07	1.279863E+07	1.279737E+07	1.279172E+07	1.278291E+07
1.276820E+07	1.270568E+07	1.264316E+07	1.262424E+07	1.258610E+07
1.255111E+07	1.013250E+05	1.253745E+07	1.247860E+07	1.242502E+07
1.241976E+07	1.240505E+07	1.234200E+07	1.210558E+07	1.139630E+07
9.294732E+06				
1.592460E+07	1.382304E+07	1.311376E+07	1.287733E+07	1.281429E+07
1.279957E+07	1.279432E+07	1.278867E+07	1.278301E+07	1.278175E+07
1.278150E+07	1.278125E+07	1.277999E+07	1.277433E+07	1.276553E+07
1.275082E+07	1.268830E+07	1.262577E+07	1.260686E+07	1.256872E+07
1.253373E+07	1.013250E+05	1.252007E+07	1.246122E+07	1.240763E+07
1.240238E+07	1.238767E+07	1.232462E+07	1.208819E+07	1.137891E+07
9.277348E+06				
1.586844E+07	1.376687E+07	1.305759E+07	1.282117E+07	1.275812E+07
1.274341E+07	1.273815E+07	1.273250E+07	1.272685E+07	1.272559E+07
1.272533E+07	1.272508E+07	1.272382E+07	1.271817E+07	1.270936E+07
1.269465E+07	1.263213E+07	1.256961E+07	1.255069E+07	1.251255E+07
1.247756E+07	1.013250E+05	1.246390E+07	1.240506E+07	1.235147E+07
1.234621E+07	1.233150E+07	1.226845E+07	1.203203E+07	1.132275E+07
9.221182E+06				
1.581281E+07	1.371125E+07	1.300197E+07	1.276554E+07	1.270250E+07
1.268778E+07	1.268253E+07	1.267688E+07	1.267122E+07	1.266996E+07
1.266971E+07	1.266946E+07	1.266820E+07	1.266254E+07	1.265374E+07
1.263903E+07	1.257651E+07	1.251398E+07	1.249507E+07	1.245693E+07
1.242194E+07	1.013250E+05	1.240828E+07	1.234943E+07	1.229584E+07
1.229059E+07	1.227588E+07	1.221283E+07	1.197640E+07	1.126713E+07
9.165558E+06				
1.544463E+07	1.334307E+07	1.263379E+07	1.239736E+07	1.233432E+07
1.231961E+07	1.231435E+07	1.230870E+07	1.230304E+07	1.230178E+07
1.230153E+07	1.230128E+07	1.230002E+07	1.229437E+07	1.228556E+07
1.227085E+07	1.220833E+07	1.214580E+07	1.212689E+07	1.208875E+07
1.205376E+07	1.013250E+05	1.204010E+07	1.198125E+07	1.192766E+07
1.192241E+07	1.190770E+07	1.184465E+07	1.160822E+07	1.089895E+07
8.797379E+06				
1.412320E+07	1.202163E+07	1.131235E+07	1.107593E+07	1.101288E+07
1.099817E+07	1.099292E+07	1.098726E+07	1.098161E+07	1.098035E+07
1.098010E+07	1.097984E+07	1.097858E+07	1.097293E+07	1.096412E+07
1.094941E+07	1.088689E+07	1.082437E+07	1.080546E+07	1.076731E+07
1.073232E+07	1.013250E+05	1.071866E+07	1.065982E+07	1.060623E+07
1.060097E+07	1.058626E+07	1.052322E+07	1.028679E+07	9.577510E+06
7.475944E+06				
1.221452E+07	1.011295E+07	9.403673E+06	9.167247E+06	9.104200E+06
9.089489E+06	9.084235E+06	9.078582E+06	9.072928E+06	9.071667E+06
9.071415E+06	9.071163E+06	9.069902E+06	9.064249E+06	9.055443E+06
9.040732E+06	8.978211E+06	8.915689E+06	8.896775E+06	8.858632E+06
8.823641E+06	1.013250E+05	8.809980E+06	8.751136E+06	8.697546E+06
8.692292E+06	8.677582E+06	8.614535E+06	8.378108E+06	7.668830E+06
5.567264E+06				
1.122960E+07	9.128031E+06	8.418751E+06	8.182325E+06	8.119278E+06
8.104567E+06	8.099314E+06	8.093661E+06	8.088007E+06	8.086746E+06
8.086493E+06	8.086241E+06	8.084981E+06	8.079328E+06	8.070522E+06
8.055811E+06	7.993289E+06	7.930768E+06	7.911853E+06	7.873710E+06
7.838719E+06	1.013250E+05	7.825059E+06	7.766215E+06	7.712625E+06
7.707371E+06	7.692660E+06	7.629613E+06	7.393187E+06	6.683909E+06
4.582342E+06				
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	1.013250E+05	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05

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GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS

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DSATLIM, DPRESLIM, SATLIMIT

2.0000E-01 -1.0000E+08 1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
3.0000E-01 5.0000E+05
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX DPRES_MAX
1.0000E+00 1.0000E+07
CONVERGENCE TEST FLAG: 0=OR/1=AND

1
EPS_SAT, EPS_PRES: NORMAL CONVERGENCE CRITERIA
3.0000E+00 1.0000E-02
EPS_SAT, EPS_PRES: RELAXED CONVERGENCE CRITERIA
3.0000E+00 1.0000E-02
FTOL_SAT FTOL_PRES: NORMAL RESIDUAL' TOLERANCE
1.0000E-02 1.0000E-02
FTOL_SAT FTOL_PRES: RELAXED RESIDUAL' TOLERANCE
1.0000E-02 1.0000E-02
GAS TRANSPORT TOLERANCES
1.0000E-05 1.0000E-05 1.0000E-05 1.0000E-05
LINEAR EQUATION SOLVER TYPE

LU
ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
8 40 1 T 1.0000E+07 F
IUPRFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMPRAVE
9 9 5.0000E-01 1 0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
41 1 5 9 9
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
1.0000E-10 1.0000E-10
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
1.0000E-12 1.0000E-04
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP

1 1 1 1 1
1 1 1 1 1 1 1 13 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24 1 1
1 1 1 1 1
1 1 1 1 1 1 1 1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24 1 1
1 1 1 1 1
1 1 1 1 1 1 1 1 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15 1 1
1 1 1 1 1
5 5 5 5 5 5 5 5 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15 5 5
5 5 5 5 5
1 1 1 1 1 1 1 1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38 1 1
1 1 1 1 1
6 25 6 6 6 6
6 6 6 6 6
1 31 1 1 1 1
1 1 1 1 1
1 27 1 1 1 1
1 1 1 1 1
1 27 1 1 1 1
1 1 1 1 1
1 33 1 1 1 1
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22 29 22 22 22 22
22 22 22 22 22
22 29 22 22 22 22
22 22 22 22 22
START TIME FOR MAP 3
3.1557E+09
MATERIAL TYPE GRID MAP
11 11 12
12 12 12 11 11
11
11 11 11 11 11
1
1 1 1 1 1
1
1 1 1 1 1
1
4 4 4 4 4 4 4 4 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15 4 4
4 4 4 4 4
1 1 1 1 1 1 1 1 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15 1 1
1 1 1 1 1
1 1 1 1 1 1 1 1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24 1 1
1 1 1 1 1
1 1 1 1 1 1 1 1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24 1 1
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1 1 1 1 1 1 1 1 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15 1 1
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5 5 5 5 5 5 5 5 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15 5 5
5 5 5 5 5
1 1 1 1 1 1 1 1 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38 1 1
1 1 1 1 1
6 26 6 6 6 6
6 6 6 6 6
1 32 1 1 1 1
1 1 1 1 1
1 28 1 1 1 1
1 1 1 1 1
1 28 1 1 1 1
1 1 1 1 1


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22 22 22 22 22
# NAME
1 S_HALITE
2 DRZ_0
3 TRANS_0
4 S_MB139
5 S_ANH_AB
6 S_MB138
7 CAVITY_1
8 CAVITY_2
9 CAVITY_3
10 CAVITY_4
11 IMPERM_Z
12 CASTLER
13 WAS_AREA
14 REPOSIT
15 DRZ_1
16 UNNAMED
17 CULEBRA
18 TAMARISK
19 MAGENTA
20 FORTYNIN
21 DEWYLAKE
22 SANTAROS
23 BACKFILL
24 EXP_AREA
25 SHFT_B_1
26 SHFT_B_2
27 SHFT_L_1
28 SHFT_L_2
29 SHFT_U_1
30 SHFT_U_2
31 SHFT_LS1
32 SHFT_LS2
33 SHFT_US1
34 SHFT_US2
35 PAN_S_1
36 PAN_S_2
37 BOREHOLE
38 TRANS_1
39 CAVITY_5
NWST
2
MAT_WASTE1 MAT_WASTE
7 8
13 14
NDRZ
0
NMATRESET
5
MATRESET
7 8 9 10 39
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000E+00 1
POWASTEIC
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
SOWASTEIC
0.000000E+00
0.000000E+00
0.000000E+00
0.250000E+00
0.200000E+00
PRESDRZ

NBORESET
0
# LAMBDA SOR SGR
1 3.736000E+00 3.477000E-01 2.702000E-01
2 3.736000E+00 0.000000E+00 0.000000E+00
3 3.736000E+00 0.000000E+00 0.000000E+00
```

4 5.153000E-01 1.923000E-01 2.294000E-01
 5 5.153000E-01 1.923000E-01 2.294000E-01
 6 5.153000E-01 1.923000E-01 2.294000E-01
 7 7.000000E-01 0.000000E+00 0.000000E+00
 8 7.000000E-01 0.000000E+00 0.000000E+00
 9 7.000000E-01 0.000000E+00 0.000000E+00
 10 7.000000E-01 0.000000E+00 0.000000E+00
 11 1.000000E+00 0.000000E+00 0.000000E+00
 12 7.000000E-01 2.000000E-01 2.000000E-01
 13 2.994000E+00 2.173000E-01 2.252000E-01
 14 2.994000E+00 2.173000E-01 2.252000E-01
 15 3.736000E+00 0.000000E+00 0.000000E+00
 16 7.000000E-01 2.000000E-01 2.000000E-01
 17 7.000000E-01 2.000000E-01 2.000000E-01
 18 7.000000E-01 2.000000E-01 2.000000E-01
 19 7.000000E-01 2.000000E-01 2.000000E-01
 20 7.000000E-01 2.000000E-01 2.000000E-01
 21 7.000000E-01 2.000000E-01 2.000000E-01
 22 7.000000E-01 2.000000E-01 2.000000E-01
 23 7.000000E-01 0.000000E+00 0.000000E+00
 24 7.000000E-01 0.000000E+00 0.000000E+00
 25 7.000000E-01 2.000000E-01 2.000000E-01
 26 7.000000E-01 2.000000E-01 2.000000E-01
 27 7.000000E-01 2.000000E-01 2.000000E-01
 28 7.000000E-01 2.000000E-01 2.000000E-01
 29 7.000000E-01 2.000000E-01 2.000000E-01
 30 7.000000E-01 2.000000E-01 2.000000E-01
 31 7.000000E-01 2.000000E-01 2.000000E-01
 32 7.000000E-01 2.000000E-01 2.000000E-01
 33 7.000000E-01 2.000000E-01 2.000000E-01
 34 7.000000E-01 2.000000E-01 2.000000E-01
 35 7.000000E-01 2.000000E-01 2.000000E-01
 36 7.000000E-01 2.000000E-01 2.000000E-01
 37 7.000000E-01 2.000000E-01 0.000000E+00
 38 3.736000E+00 0.000000E+00 0.000000E+00
 39 7.000000E-01 0.000000E+00 0.000000E+00

#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP
1	3.650850E-01	1.013250E+05	1.000000E+08	9.479000E+06	0.000000E+00	4	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
4	2.019150E-01	1.013250E+05	1.000000E+08	8.912506E-04	-3.460000E-01	4	2	0
5	2.019150E-01	1.013250E+05	1.000000E+08	8.912506E-04	-3.460000E-01	4	2	0
6	2.019150E-01	1.013250E+05	1.000000E+08	8.912506E-04	-3.460000E-01	4	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	2.281650E-01	1.013250E+05	1.000000E+08	1.405038E+00	-3.460000E-01	1	4	0
14	2.281650E-01	1.013250E+05	1.000000E+08	1.405038E+00	-3.460000E-01	1	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	4.100984E+05	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	4.100984E+05	0.000000E+00	4	2	0
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0

#	PERMX	PERMY	PERMZ	POROSITY	COMPRES
1	1.288251E-21	1.288251E-21	1.288251E-21	1.876000E-02	1.320650E-09
2	1.000000E-15	1.000000E-15	1.000000E-15	1.876000E-02	4.401693E-08
3	1.000000E-15	1.000000E-15	1.000000E-15	1.876000E-02	4.401693E-08
4	1.148152E-21	1.148152E-21	1.148152E-21	9.450000E-03	6.875497E-08
5	1.148152E-21	1.148152E-21	1.148152E-21	9.450000E-03	6.875497E-08
6	1.148152E-21	1.148152E-21	1.148152E-21	9.450000E-03	6.875497E-08
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
9	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
10	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
11	0.000000E+00	0.000000E+00	0.000000E+00	5.000000E-03	0.000000E+00
12	1.330453E-11	1.330453E-11	1.330453E-11	5.200000E-03	1.923077E-07
13	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
14	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
15	1.000000E-15	1.000000E-15	1.000000E-15	1.876000E-02	4.401693E-08
16	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
17	2.648502E-13	2.648502E-13	2.648502E-13	1.460000E-01	1.417160E-09
18	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
19	1.096478E-16	1.096478E-16	1.096478E-16	9.000000E-02	2.199962E-09
20	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
21	9.332549E-16	9.332549E-16	9.332549E-16	1.500000E-01	6.666667E-08
22	1.000000E-10	1.000000E-10	1.000000E-10	1.750000E-01	5.714286E-08
23	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00
24	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00
25	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
26	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
27	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
28	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
29	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09
30	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09
31	1.000000E-12	1.000000E-12	1.000000E-12	5.000000E-02	2.000000E-08
32	1.122016E-17	1.122016E-17	1.122016E-17	5.000000E-02	2.000000E-08
33	1.122016E-17	1.122016E-17	1.122016E-17	5.000000E-02	2.000000E-08
34	1.000000E-12	1.000000E-12	1.000000E-12	5.000000E-02	2.000000E-08
35	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
36	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
37	3.548135E-13	3.548135E-13	3.548135E-13	3.700000E-01	0.000000E+00
38	1.000000E-15	1.000000E-15	1.000000E-15	1.876000E-02	4.401693E-08
39	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00

TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI DELTA_PF FRAC_PHI FRAC_EXP IFRX IFRY IFRZ
 4 1.430000E+06 2.500000E+06 1.945000E-02 4.409351E+01 1 1 0
 5 1.430000E+06 2.500000E+06 1.945000E-02 4.409351E+01 1 1 0
 6 1.430000E+06 2.500000E+06 1.945000E-02 4.409351E+01 1 1 0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK EXPKLINK
 9.800000E-01 -3.300000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
 3.00150E+02 1.01320E+05
 SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
 2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03
 VISC_BR VISC_GAS
 1.80000E-03 8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
 1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (NIGAS)
 1 1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05

RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND AND BIODEGRADATION (RKBIO)
5.1802E-06 0.0000E+00 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
4.9840E-04 0.0000E+00
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
1.4090E+00 0.0000E+00
1.4090E+00 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1.0360E+00 -1.9279E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
MAT NO. MODEL 1= WASTE-FILLED, 2=BACKFILLED
1 13 4
2 14 4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F

BF2_QB0600_TEST7_V003.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
  2 31 27 1
TSTART, TMAX, MAXSTEPS
-1.5779E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTO DT, TSWITCH
8.6400E+00 8.6400E-04 1.7280E+09 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
  3
  0.0000E+00 8.6400E+02
  3.1666E+09 8.6400E+02
  3.1666E+10 8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
  2 0 2 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  2
USER REQUESTED PRINTOUT TIMES
  0.0000E+00 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  1
USER REQUESTED RESTART TIMES
  3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
BINARY PRINT FLAGS
1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 1 0 0 0 0 0 0 0
0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
HISTORY VARIABLE OUTPUT
  8
  1 4 NAME=BRINE PRESSURE
11 8 1 17 8 1 11 1 1 22 6 1
  2 1 NAME=GAS PRESSURE
22 12 1
  10 6 NAME=GAS DENSITY
  7 6 1 7 12 1 7 14 1 25 6 1 25 12 1 25 14 1
  18 30 NAME=GAS SATURATION
  8 8 1 9 8 1 10 8 1 11 8 1 12 8 1 13 8 1
14 8 1 8 9 1 9 9 1 10 9 1 11 9 1 12 9 1
13 9 1 14 9 1 8 10 1 9 10 1 10 10 1 11 10 1
12 10 1 13 10 1 14 10 1 16 8 1 17 8 1 18 8 1
16 9 1 17 9 1 18 9 1 16 10 1 17 10 1 18 10 1
  31 140 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
  3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
  3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
  8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
  8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1
22 24 1 22 25 1 22 26 1 22 27 1 23 6 1 23 7 1
23 8 1 23 9 1 23 10 1 23 11 1 23 12 1 23 13 1
23 14 1 23 15 1 23 16 1 23 17 1 23 18 1 23 19 1
23 20 1 23 21 1 23 22 1 23 23 1 23 24 1 23 25 1
23 26 1 23 27 1 11 1 1 11 2 1 11 3 1 11 4 1
11 5 1 11 6 1 11 7 1 11 8 1 11 9 1 11 10 1
11 11 1 11 12 1 11 13 1 11 14 1 11 15 1 11 16 1
11 17 1 11 18 1 11 19 1 11 20 1 11 21 1 11 22 1
11 23 1 11 24 1 11 25 1 11 26 1 11 27 1 12 1 1
12 2 1 12 3 1 12 4 1 12 5 1 12 6 1 12 7 1
12 8 1 12 9 1 12 10 1 12 11 1 12 12 1 12 13 1
12 14 1 12 15 1 12 16 1 12 17 1 12 18 1 12 19 1
12 20 1 12 21 1 12 22 1 12 23 1 12 24 1 12 25 1
```

```

12 26 1 12 27 1
 32 69 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11 1 9 11 1 10 11 1 11 11 1 12 11 1 13 11 1
14 11 1 8 8 1 9 8 1 10 8 1 11 8 1 12 8 1
13 8 1 14 8 1 16 11 1 17 11 1 18 11 1 16 8 1
17 8 1 18 8 1 22 6 1 22 7 1 22 8 1 22 9 1
22 10 1 22 11 1 22 12 1 22 13 1 22 14 1 22 15 1
22 16 1 22 17 1 22 18 1 22 19 1 22 20 1 22 21 1
22 22 1 22 23 1 22 24 1 22 25 1 22 26 1 22 27 1
11 1 1 11 2 1 11 3 1 11 4 1 11 5 1 11 6 1
11 7 1 11 8 1 11 9 1 11 10 1 11 11 1 11 12 1
11 13 1 11 14 1 11 15 1 11 16 1 11 17 1 11 18 1
11 19 1 11 20 1 11 21 1 11 22 1 11 23 1 11 24 1
11 25 1 11 26 1 11 27 1
  
```

```

 34 140 NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
 3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
 8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
 8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1
22 24 1 22 25 1 22 26 1 22 27 1 23 6 1 23 7 1
23 8 1 23 9 1 23 10 1 23 11 1 23 12 1 23 13 1
23 14 1 23 15 1 23 16 1 23 17 1 23 18 1 23 19 1
23 20 1 23 21 1 23 22 1 23 23 1 23 24 1 23 25 1
23 26 1 23 27 1 11 1 1 11 2 1 11 3 1 11 4 1
11 5 1 11 6 1 11 7 1 11 8 1 11 9 1 11 10 1
11 11 1 11 12 1 11 13 1 11 14 1 11 15 1 11 16 1
11 17 1 11 18 1 11 19 1 11 20 1 11 21 1 11 22 1
11 23 1 11 24 1 11 25 1 11 26 1 11 27 1 12 1 1
12 2 1 12 3 1 12 4 1 12 5 1 12 6 1 12 7 1
12 8 1 12 9 1 12 10 1 12 11 1 12 12 1 12 13 1
12 14 1 12 15 1 12 16 1 12 17 1 12 18 1 12 19 1
12 20 1 12 21 1 12 22 1 12 23 1 12 24 1 12 25 1
12 26 1 12 27 1
  
```

```

 35 69 NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11 1 9 11 1 10 11 1 11 11 1 12 11 1 13 11 1
14 11 1 8 8 1 9 8 1 10 8 1 11 8 1 12 8 1
13 8 1 14 8 1 16 11 1 17 11 1 18 11 1 16 8 1
17 8 1 18 8 1 22 6 1 22 7 1 22 8 1 22 9 1
22 10 1 22 11 1 22 12 1 22 13 1 22 14 1 22 15 1
22 16 1 22 17 1 22 18 1 22 19 1 22 20 1 22 21 1
22 22 1 22 23 1 22 24 1 22 25 1 22 26 1 22 27 1
11 1 1 11 2 1 11 3 1 11 4 1 11 5 1 11 6 1
11 7 1 11 8 1 11 9 1 11 10 1 11 11 1 11 12 1
11 13 1 11 14 1 11 15 1 11 16 1 11 17 1 11 18 1
11 19 1 11 20 1 11 21 1 11 22 1 11 23 1 11 24 1
11 25 1 11 26 1 11 27 1
  
```

MONITOR PARAMETER VALUES AT GRIDBLOCK(S)

T

NUMBER OF MONITOR BLOCKS

3

MONITOR BLOCKS (I,J,K)

```

11 10 1
17 10 1
25 12 1
  
```

GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG

```

1 2 1 7
  
```

GRID DATA CARDS: GRID BLOCK DX'S

```

1.500000E+04 5.000000E+03 1.750000E+03 5.000000E+02 1.000000E+02 4.000000E+01
1.000000E+01 4.380000E+01 1.000000E+01 2.000000E+00 3.575040E-01 2.000000E+00
1.000000E+01 4.380000E+01 4.000000E+01 1.000000E+02 4.950000E+02 1.000000E+02
8.000000E+01 2.830000E+02 5.000000E+01 1.000000E+01 6.000000E+01 5.000000E+02
1.000000E+01 4.000000E+01 1.000000E+02 5.000000E+02 1.750000E+03 5.000000E+03
1.500000E+04
  
```

GRID DATA CARDS: GRID BLOCK DY'S

```

2.728000E+00 4.737200E+01 1.391600E+02 5.000000E+01 1.100000E+01 8.500000E-01
1.380000E+00 1.320800E+00 1.320800E+00 1.320800E+00 2.617600E+00 2.700000E-01
9.060000E+00 1.800000E-01 6.098000E+01 1.585300E+02 1.585300E+02 5.080000E+00
3.600000E+01 7.700000E+00 2.480000E+01 8.500000E+00 1.730000E+01 1.060000E+02
4.330000E+01 1.566000E+01 1.000000E-01
  
```

GRID DATA CARDS: GRID BLOCK DZ'S

3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.194830E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.357305E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.652760E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.269166E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03

1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001555E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03					
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031031E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03					
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.038910E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03					

WELL DATA

0
DIRICHLET CONDITIONS
T 35

1	20	1	T	F	8.520000E+05	0.000000E+00
31	20	1	T	F	8.520000E+05	0.000000E+00
1	22	1	T	F	9.000000E+05	0.000000E+00
31	22	1	T	F	9.000000E+05	0.000000E+00
1	27	1	T	T	1.013250E+05	2.000000E-01
2	27	1	T	T	1.013250E+05	2.000000E-01
3	27	1	T	T	1.013250E+05	2.000000E-01
4	27	1	T	T	1.013250E+05	2.000000E-01
5	27	1	T	T	1.013250E+05	2.000000E-01
6	27	1	T	T	1.013250E+05	2.000000E-01
7	27	1	T	T	1.013250E+05	2.000000E-01
8	27	1	T	T	1.013250E+05	2.000000E-01
9	27	1	T	T	1.013250E+05	2.000000E-01
10	27	1	T	T	1.013250E+05	2.000000E-01
11	27	1	T	T	1.013250E+05	2.000000E-01
12	27	1	T	T	1.013250E+05	2.000000E-01
13	27	1	T	T	1.013250E+05	2.000000E-01
14	27	1	T	T	1.013250E+05	2.000000E-01
15	27	1	T	T	1.013250E+05	2.000000E-01
16	27	1	T	T	1.013250E+05	2.000000E-01
17	27	1	T	T	1.013250E+05	2.000000E-01
18	27	1	T	T	1.013250E+05	2.000000E-01
19	27	1	T	T	1.013250E+05	2.000000E-01
20	27	1	T	T	1.013250E+05	2.000000E-01
21	27	1	T	T	1.013250E+05	2.000000E-01
22	27	1	T	T	1.013250E+05	2.000000E-01
23	27	1	T	T	1.013250E+05	2.000000E-01
24	27	1	T	T	1.013250E+05	2.000000E-01
25	27	1	T	T	1.013250E+05	2.000000E-01
26	27	1	T	T	1.013250E+05	2.000000E-01
27	27	1	T	T	1.013250E+05	2.000000E-01
28	27	1	T	T	1.013250E+05	2.000000E-01
29	27	1	T	T	1.013250E+05	2.000000E-01
30	27	1	T	T	1.013250E+05	2.000000E-01
31	27	1	T	T	1.013250E+05	2.000000E-01

GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS

1.566225E+07	1.566225E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.566225E+07				
1.536060E+07	1.536060E+07	1.536060E+07	1.536060E+07	1.536060E+07
1.536060E+07	1.536060E+07	1.536060E+07	1.536060E+07	1.536060E+07
1.536060E+07	1.536060E+07	1.536060E+07	1.536060E+07	1.536060E+07
1.536060E+07	1.536060E+07	1.536060E+07	1.536060E+07	1.536060E+07
1.536060E+07	1.536060E+07	1.536060E+07	1.536060E+07	1.536060E+07
1.536060E+07	1.536060E+07	1.536060E+07	1.536060E+07	1.536060E+07
1.536060E+07	1.536060E+07	1.536060E+07	1.536060E+07	1.536060E+07
1.536060E+07	1.536060E+07	1.536060E+07	1.536060E+07	1.536060E+07
1.536060E+07				
1.763447E+07	1.553290E+07	1.482362E+07	1.458719E+07	1.452415E+07
1.450944E+07	1.450418E+07	1.449853E+07	1.449288E+07	1.449161E+07
1.449136E+07	1.449111E+07	1.448985E+07	1.448420E+07	1.447539E+07
1.446068E+07	1.439816E+07	1.433564E+07	1.431672E+07	1.427858E+07
1.424359E+07	1.423728E+07	1.422993E+07	1.417108E+07	1.411749E+07

1.411224E+07	1.409753E+07	1.403448E+07	1.379806E+07	1.308878E+07
1.098721E+07				
1.649574E+07	1.439417E+07	1.368489E+07	1.344846E+07	1.338542E+07
1.337071E+07	1.336545E+07	1.335980E+07	1.335415E+07	1.335289E+07
1.335263E+07	1.335238E+07	1.335112E+07	1.334547E+07	1.333666E+07
1.332195E+07	1.325943E+07	1.319691E+07	1.317799E+07	1.313985E+07
1.310486E+07	1.309855E+07	1.309120E+07	1.303235E+07	1.297876E+07
1.297351E+07	1.295880E+07	1.289575E+07	1.265933E+07	1.195005E+07
9.848480E+06				
1.612852E+07	1.402695E+07	1.331768E+07	1.308125E+07	1.301820E+07
1.300349E+07	1.299824E+07	1.299258E+07	1.298693E+07	1.298567E+07
1.298542E+07	1.298516E+07	1.298390E+07	1.297825E+07	1.296945E+07
1.295473E+07	1.289221E+07	1.282969E+07	1.281078E+07	1.277263E+07
1.273764E+07	1.273134E+07	1.272398E+07	1.266514E+07	1.261155E+07
1.260629E+07	1.259158E+07	1.252854E+07	1.229211E+07	1.158283E+07
9.481264E+06				
1.605718E+07	1.395562E+07	1.324634E+07	1.300991E+07	1.294687E+07
1.293215E+07	1.292690E+07	1.292125E+07	1.291559E+07	1.291433E+07
1.291408E+07	1.291383E+07	1.291257E+07	1.290691E+07	1.289811E+07
1.288340E+07	1.282088E+07	1.275835E+07	1.273944E+07	1.270130E+07
1.266631E+07	1.013250E+05	1.265265E+07	1.259380E+07	1.254021E+07
1.253496E+07	1.252025E+07	1.245720E+07	1.222077E+07	1.151150E+07
9.409928E+06				
1.604376E+07	1.394219E+07	1.323291E+07	1.299649E+07	1.293344E+07
1.291873E+07	1.291348E+07	1.290782E+07	1.290217E+07	1.290091E+07
1.290066E+07	1.290040E+07	1.289914E+07	1.289349E+07	1.288468E+07
1.286997E+07	1.280745E+07	1.274493E+07	1.272602E+07	1.268787E+07
1.265288E+07	1.013250E+05	1.263922E+07	1.258038E+07	1.252679E+07
1.252153E+07	1.250682E+07	1.244378E+07	1.220735E+07	1.149807E+07
9.396503E+06				
1.602750E+07	1.392594E+07	1.321666E+07	1.298023E+07	1.291718E+07
1.290247E+07	1.289722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.251053E+07
1.250528E+07	1.249056E+07	1.242752E+07	1.219109E+07	1.148181E+07
9.380245E+06				
1.601160E+07	1.391003E+07	1.320075E+07	1.296433E+07	1.290128E+07
1.288657E+07	1.288132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.249463E+07
1.248937E+07	1.247466E+07	1.241161E+07	1.217519E+07	1.146591E+07
9.364342E+06				
1.599570E+07	1.389413E+07	1.318485E+07	1.294843E+07	1.288538E+07
1.287067E+07	1.286541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.247872E+07
1.247347E+07	1.245876E+07	1.239571E+07	1.215929E+07	1.145001E+07
9.348441E+06				
1.597199E+07	1.387042E+07	1.316114E+07	1.292472E+07	1.286167E+07
1.284696E+07	1.284170E+07	1.283605E+07	1.283040E+07	1.282914E+07
1.282888E+07	1.282863E+07	1.282737E+07	1.282172E+07	1.281291E+07
1.279820E+07	1.273568E+07	1.267316E+07	1.265424E+07	1.261610E+07
1.258111E+07	1.013250E+05	1.256745E+07	1.250860E+07	1.245502E+07
1.244976E+07	1.243505E+07	1.237200E+07	1.213558E+07	1.142630E+07
9.324732E+06				
1.595460E+07	1.385304E+07	1.314376E+07	1.290733E+07	1.284429E+07
1.282957E+07	1.282432E+07	1.281867E+07	1.281301E+07	1.281175E+07
1.281150E+07	1.281125E+07	1.280999E+07	1.280433E+07	1.279553E+07
1.278082E+07	1.271830E+07	1.265577E+07	1.263686E+07	1.259872E+07
1.256373E+07	1.013250E+05	1.255007E+07	1.249122E+07	1.243763E+07
1.243238E+07	1.241767E+07	1.235462E+07	1.211819E+07	1.140891E+07
9.307348E+06				
1.589844E+07	1.379687E+07	1.308759E+07	1.285117E+07	1.278812E+07
1.277341E+07	1.276815E+07	1.276250E+07	1.275685E+07	1.275559E+07
1.275533E+07	1.275508E+07	1.275382E+07	1.274817E+07	1.273936E+07
1.272465E+07	1.266213E+07	1.259961E+07	1.258069E+07	1.254255E+07
1.250756E+07	1.013250E+05	1.249390E+07	1.243506E+07	1.238147E+07
1.237621E+07	1.236150E+07	1.229845E+07	1.206203E+07	1.135275E+07
9.251182E+06				
1.584281E+07	1.374125E+07	1.303197E+07	1.279554E+07	1.273250E+07
1.271778E+07	1.271253E+07	1.270688E+07	1.270122E+07	1.269996E+07
1.269971E+07	1.269946E+07	1.269820E+07	1.269254E+07	1.268374E+07
1.266903E+07	1.260651E+07	1.254398E+07	1.252507E+07	1.248693E+07


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31*0.000000E+00
DSATLIM, DPRESLIM, SATLIMIT
  2.0000E-01 -1.0000E+08  1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  3.0000E-01  5.0000E+05
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
  1.0000E+00  1.0000E+07
CONVERGENCE TEST FLAG: 0=OR/1=AND
1
EPS_SAT, EPS_PRES: NORMAL CONVERGENCE CRITERIA
  3.0000E+00  1.0000E-02
EPS_SAT, EPS_PRES: RELAXED CONVERGENCE CRITERIA
  3.0000E+00  1.0000E-02
FTOL_SAT  FTOL_PRES: NORMAL RESIDUAL' TOLERANCE
  1.0000E-02  1.0000E-02
FTOL_SAT  FTOL_PRES: RELAXED RESIDUAL' TOLERANCE
  1.0000E-02  1.0000E-02
GAS TRANSPORT TOLERANCES
  1.0000E-05  1.0000E-05  1.0000E-05  1.0000E-05
LINEAR EQUATION SOLVER TYPE
LU
ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
  8  40  1  T  1.0000E+07 F
IUPRFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMPRAVE
  9  9  5.0000E-01  1  0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
  41  1  5  9  9
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
  1.0000E-10  1.0000E-10
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
  1.0000E-12  1.0000E-04
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
4
START TIME FOR MAP 1
-1.5779E+08
MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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  4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  10  2  2  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2  10  2  2  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  7  7  7  7  7  7  7  7  10  8  8  8  10  9  9  10  9  9  1  1
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  1  1  1  1  1
  1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  10  2  2  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  10  2  2  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  10  3  3  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  10  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  10  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  10  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  10  1  1  1  1
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1 1 1 1 1 1 1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24 1 1
1 1 1 1 1 1 1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24 1 1
1 1 1 1 1 1 1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24 1 1
1 1 1 1 1 1 1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15 1 1
1 1 1 1 1 1 1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15 5 5
5 5 5 5 5 5 5 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15 5 5
5 5 5 5 5 5 5 38 38 38 37 38 38 38 38 38 38 38 38 38 38 26 38 38 1 1
1 1 1 1 1 1 1 38 38 38 37 38 38 38 38 38 38 38 38 38 38 26 38 38 1 1
6 6 6 6 6 6 6 6 6 6 6 37 6 6 6 6 6 6 6 6 6 6 26 6 6 6 6
6 6 6 6 6 6 6 6 6 6 6 37 6 6 6 6 6 6 6 6 6 6 26 6 6 6 6
1 1 1 1 1 1 1 1 1 1 1 37 1 1 1 1 1 1 1 1 1 1 1 32 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 37 1 1 1 1 1 1 1 1 1 1 1 28 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 37 1 1 1 1 1 1 1 1 1 1 1 28 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 37 1 1 1 1 1 1 1 1 1 1 1 34 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 37 1 1 1 1 1 1 1 1 1 1 1 34 1 1 1 1
16 16 16 16 16 16 16 16 16 16 16 37 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
16 16 16 16 16 16 16 16 16 16 16 37 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
17 17 17 17 17 17 17 17 17 17 17 37 17 17 17 17 17 17 17 17 17 17 34 17 17 17 17
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18 18 18 18 18 18 18 18 18 18 18 37 18 18 18 18 18 18 18 18 18 18 30 18 18 18 18
18 18 18 18 18 18 18 18 18 18 18 37 18 18 18 18 18 18 18 18 18 18 30 18 18 18 18
19 19 19 19 19 19 19 19 19 19 19 37 19 19 19 19 19 19 19 19 19 19 30 19 19 19 19
19 19 19 19 19 19 19 19 19 19 19 37 19 19 19 19 19 19 19 19 19 19 30 19 19 19 19
20 20 20 20 20 20 20 20 20 20 20 37 20 20 20 20 20 20 20 20 20 20 30 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 37 20 20 20 20 20 20 20 20 20 20 30 20 20 20 20
21 21 21 21 21 21 21 21 21 21 21 37 21 21 21 21 21 21 21 21 21 21 30 21 21 21 21
21 21 21 21 21 21 21 21 21 21 21 37 21 21 21 21 21 21 21 21 21 21 30 21 21 21 21
21 21 21 21 21 21 21 21 21 21 21 37 21 21 21 21 21 21 21 21 21 21 30 21 21 21 21
21 21 21 21 21 21 21 21 21 21 21 37 21 21 21 21 21 21 21 21 21 21 30 21 21 21 21
22 22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22

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- # NAME
- 1 S_HALITE
- 2 DRZ_0
- 3 TRANS_0
- 4 S_MB139
- 5 S_ANH_AB
- 6 S_MB138
- 7 CAVITY_1
- 8 CAVITY_2
- 9 CAVITY_3
- 10 CAVITY_4
- 11 IMPERM_Z
- 12 CASTILER
- 13 WAS_AREA
- 14 REPOSIT
- 15 DRZ_1
- 16 UNNAMED
- 17 CULEBRA
- 18 TAMARISK
- 19 MAGENTA
- 20 FORTYNIN
- 21 DEWYLAKE
- 22 SANTAROS
- 23 BACKFILL
- 24 EXP_AREA
- 25 SHFT_B_1
- 26 SHFT_B_2
- 27 SHFT_L_1
- 28 SHFT_L_2
- 29 SHFT_U_1
- 30 SHFT_U_2
- 31 SHFT_LS1
- 32 SHFT_LS2
- 33 SHFT_US1
- 34 SHFT_US2
- 35 PAN_S_1


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36 PAN_S_2
37 BOREHOLE
38 TRANS_1
39 CAVITY_5
NWST
2
MAT_WASTE1 MAT_WASTE
7 8
13 14
NDRZ
0
NMATRESET
5
MATRESET
7 8 9 10 39
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000E+00 1
POWASTEIC
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
SOWASTEIC
0.000000E+00
0.000000E+00
0.000000E+00
0.250000E+00
0.200000E+00
PRESDRZ

NBORERESSET
0
# LAMBDA SOR SGR
1 2.077000E-01 5.817000E-01 3.774000E-03
2 2.077000E-01 0.000000E+00 0.000000E+00
3 2.077000E-01 0.000000E+00 0.000000E+00
4 5.793000E-01 3.840000E-01 1.055000E-01
5 5.793000E-01 3.840000E-01 1.055000E-01
6 5.793000E-01 3.840000E-01 1.055000E-01
7 7.000000E-01 0.000000E+00 0.000000E+00
8 7.000000E-01 0.000000E+00 0.000000E+00
9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 2.559000E-01 3.249000E-01 3.522000E-01
14 2.559000E-01 3.249000E-01 3.522000E-01
15 2.077000E-01 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
28 7.000000E-01 2.000000E-01 2.000000E-01
29 7.000000E-01 2.000000E-01 2.000000E-01
30 7.000000E-01 2.000000E-01 2.000000E-01
31 7.000000E-01 2.000000E-01 2.000000E-01
32 7.000000E-01 2.000000E-01 2.000000E-01
33 7.000000E-01 2.000000E-01 2.000000E-01
34 7.000000E-01 2.000000E-01 2.000000E-01
35 7.000000E-01 2.000000E-01 2.000000E-01
36 7.000000E-01 2.000000E-01 2.000000E-01
37 7.000000E-01 2.000000E-01 0.000000E+00
38 2.077000E-01 0.000000E+00 0.000000E+00
39 7.000000E-01 0.000000E+00 0.000000E+00
# SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
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1	6.107850E-01	1.013250E+05	1.000000E+08	7.050000E+07	0.000000E+00	4	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
4	4.032000E-01	1.013250E+05	1.000000E+08	1.506607E-01	-3.460000E-01	4	2	0
5	4.032000E-01	1.013250E+05	1.000000E+08	1.506607E-01	-3.460000E-01	4	2	0
6	4.032000E-01	1.013250E+05	1.000000E+08	1.506607E-01	-3.460000E-01	4	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	3.411450E-01	1.013250E+05	1.000000E+08	9.075865E-01	-3.460000E-01	4	4	0
14	3.411450E-01	1.013250E+05	1.000000E+08	9.075865E-01	-3.460000E-01	4	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	1.155281E+06	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	1.155281E+06	0.000000E+00	4	2	0
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
#	PERMX	PERMY	PERMZ	POROSITY	COMPRES			
1	4.677352E-22	4.677352E-22	4.677352E-22	9.788000E-03	5.697927E-08			
2	1.000000E-15	1.000000E-15	1.000000E-15	9.788000E-03	8.459345E-08			
3	1.000000E-15	1.000000E-15	1.000000E-15	9.788000E-03	8.459345E-08			
4	3.715350E-20	3.715350E-20	3.715350E-20	2.929000E-02	7.240755E-10			
5	3.715350E-20	3.715350E-20	3.715350E-20	2.929000E-02	7.240755E-10			
6	3.715350E-20	3.715350E-20	3.715350E-20	2.929000E-02	7.240755E-10			
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00			
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00			
9	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00			
10	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00			
11	0.000000E+00	0.000000E+00	0.000000E+00	5.000000E-03	0.000000E+00			
12	1.330453E-11	1.330453E-11	1.330453E-11	5.200000E-03	1.923077E-07			
13	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09			
14	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09			
15	1.000000E-15	1.000000E-15	1.000000E-15	9.788000E-03	8.459345E-08			
16	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00			
17	2.648502E-13	2.648502E-13	2.648502E-13	1.460000E-01	1.417160E-09			
18	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00			
19	1.096478E-16	1.096478E-16	1.096478E-16	9.000000E-02	2.199962E-09			
20	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00			
21	9.332549E-16	9.332549E-16	9.332549E-16	1.500000E-01	6.666667E-08			
22	1.000000E-10	1.000000E-10	1.000000E-10	1.750000E-01	5.714286E-08			
23	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00			
24	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00			
25	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08			
26	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08			
27	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08			
28	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08			
29	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09			
30	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09			
31	1.000000E-12	1.000000E-12	1.000000E-12	5.000000E-02	2.000000E-08			
32	5.623413E-19	5.623413E-19	5.623413E-19	5.000000E-02	2.000000E-08			
33	5.623413E-19	5.623413E-19	5.623413E-19	5.000000E-02	2.000000E-08			
34	1.000000E-12	1.000000E-12	1.000000E-12	5.000000E-02	2.000000E-08			
35	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08			
36	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08			

37 2.398834E-13 2.398834E-13 2.398834E-13 3.700000E-01 0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15 9.788000E-03 8.459345E-08
39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
T
NFRAC
3
DELTA_PI DELTA_PF FRAC_PHI FRAC_EXP IFRX IFRY IFRZ
4 2.130000E+06 2.500000E+06 3.929000E-02 8.219534E+01 1 1 0
5 2.130000E+06 2.500000E+06 3.929000E-02 8.219534E+01 1 1 0
6 2.130000E+06 2.500000E+06 3.929000E-02 8.219534E+01 1 1 0
KLINKENBERG EFFECT TO BE USED? True or False
T
BKLINK EXPKLINK
9.800000E-01 -3.300000E-01
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01320E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.80000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WRIGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.0000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
0.0000E+00 2.3835E-08 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0000E+00 1.0000E-01
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
1.2770E+00 0.0000E+00
1.2770E+00 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3

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1.0717E+00 -1.8566E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.4000E+03 4.7000E+03 1.1000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.3700E+03 3.0500E+03 2.1700E+03
WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSARE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
# MAT NO. MODEL 1= WASTE-FILLED, 2=BACKFILLED
1 13 4
2 14 4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST7_V004.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
2 31 27 1
TSTART, TMAX, MAXSTEPS
-1.5779E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, IAUTODT, TSWITCH
8.6400E+00 8.6400E-04 1.7280E+09 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
3
0.0000E+00 8.6400E+02
3.1666E+09 8.6400E+02
3.1666E+10 8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
2 0 2 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
2
USER REQUESTED PRINTOUT TIMES
0.0000E+00 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
1
USER REQUESTED RESTART TIMES
3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0
BINARY PRINT FLAGS
1 1 0 0 0 1 0 0 0 1 0 0 0 1 0 1 0 0 0 0 0 0
0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

```

0 0 0 0 0 0 0
HISTORY VARIABLE OUTPUT
  8
  1 4 NAME=BRINE PRESSURE
11 8 1 17 8 1 11 1 1 22 6 1
  2 1 NAME=GAS PRESSURE
22 12 1
  10 6 NAME=GAS DENSITY
  7 6 1 7 12 1 7 14 1 25 6 1 25 12 1 25 14 1
  18 30 NAME=GAS SATURATION
  8 8 1 9 8 1 10 8 1 11 8 1 12 8 1 13 8 1
14 8 1 8 9 1 9 9 1 10 9 1 11 9 1 12 9 1
13 9 1 14 9 1 8 10 1 9 10 1 10 10 1 11 10 1
12 10 1 13 10 1 14 10 1 16 8 1 17 8 1 18 8 1
16 9 1 17 9 1 18 9 1 16 10 1 17 10 1 18 10 1
  31 140 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
  3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
  3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
  8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
  8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1
22 24 1 22 25 1 22 26 1 22 27 1 23 6 1 23 7 1
23 8 1 23 9 1 23 10 1 23 11 1 23 12 1 23 13 1
23 14 1 23 15 1 23 16 1 23 17 1 23 18 1 23 19 1
23 20 1 23 21 1 23 22 1 23 23 1 23 24 1 23 25 1
23 26 1 23 27 1 11 1 1 11 2 1 11 3 1 11 4 1
11 5 1 11 6 1 11 7 1 11 8 1 11 9 1 11 10 1
11 11 1 11 12 1 11 13 1 11 14 1 11 15 1 11 16 1
11 17 1 11 18 1 11 19 1 11 20 1 11 21 1 11 22 1
11 23 1 11 24 1 11 25 1 11 26 1 11 27 1 12 1 1
12 2 1 12 3 1 12 4 1 12 5 1 12 6 1 12 7 1
12 8 1 12 9 1 12 10 1 12 11 1 12 12 1 12 13 1
12 14 1 12 15 1 12 16 1 12 17 1 12 18 1 12 19 1
12 20 1 12 21 1 12 22 1 12 23 1 12 24 1 12 25 1
12 26 1 12 27 1
  32 69 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
  8 11 1 9 11 1 10 11 1 11 11 1 12 11 1 13 11 1
14 11 1 8 8 1 9 8 1 10 8 1 11 8 1 12 8 1
13 8 1 14 8 1 16 11 1 17 11 1 18 11 1 16 8 1
17 8 1 18 8 1 22 6 1 22 7 1 22 8 1 22 9 1
22 10 1 22 11 1 22 12 1 22 13 1 22 14 1 22 15 1
22 16 1 22 17 1 22 18 1 22 19 1 22 20 1 22 21 1
22 22 1 22 23 1 22 24 1 22 25 1 22 26 1 22 27 1
11 1 1 11 2 1 11 3 1 11 4 1 11 5 1 11 6 1
11 7 1 11 8 1 11 9 1 11 10 1 11 11 1 11 12 1
11 13 1 11 14 1 11 15 1 11 16 1 11 17 1 11 18 1
11 19 1 11 20 1 11 21 1 11 22 1 11 23 1 11 24 1
11 25 1 11 26 1 11 27 1
  34 140 NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
  3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
  3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
  8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
  8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1
22 24 1 22 25 1 22 26 1 22 27 1 23 6 1 23 7 1
23 8 1 23 9 1 23 10 1 23 11 1 23 12 1 23 13 1
23 14 1 23 15 1 23 16 1 23 17 1 23 18 1 23 19 1
23 20 1 23 21 1 23 22 1 23 23 1 23 24 1 23 25 1
23 26 1 23 27 1 11 1 1 11 2 1 11 3 1 11 4 1
11 5 1 11 6 1 11 7 1 11 8 1 11 9 1 11 10 1
11 11 1 11 12 1 11 13 1 11 14 1 11 15 1 11 16 1
11 17 1 11 18 1 11 19 1 11 20 1 11 21 1 11 22 1
11 23 1 11 24 1 11 25 1 11 26 1 11 27 1 12 1 1
12 2 1 12 3 1 12 4 1 12 5 1 12 6 1 12 7 1
12 8 1 12 9 1 12 10 1 12 11 1 12 12 1 12 13 1
12 14 1 12 15 1 12 16 1 12 17 1 12 18 1 12 19 1

```

12	20	1	12	21	1	12	22	1	12	23	1	12	24	1	12	25	1
12	26	1	12	27	1												
35	69																
NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION																	
8	11	1	9	11	1	10	11	1	11	11	1	12	11	1	13	11	1
14	11	1	8	8	1	9	8	1	10	8	1	11	8	1	12	8	1
13	8	1	14	8	1	16	11	1	17	11	1	18	11	1	16	8	1
17	8	1	18	8	1	22	6	1	22	7	1	22	8	1	22	9	1
22	10	1	22	11	1	22	12	1	22	13	1	22	14	1	22	15	1
22	16	1	22	17	1	22	18	1	22	19	1	22	20	1	22	21	1
22	22	1	22	23	1	22	24	1	22	25	1	22	26	1	22	27	1
11	1	1	11	2	1	11	3	1	11	4	1	11	5	1	11	6	1
11	7	1	11	8	1	11	9	1	11	10	1	11	11	1	11	12	1
11	13	1	11	14	1	11	15	1	11	16	1	11	17	1	11	18	1
11	19	1	11	20	1	11	21	1	11	22	1	11	23	1	11	24	1
11	25	1	11	26	1	11	27	1									

MONITOR PARAMETER VALUES AT GRIDBLOCK(S)

T

NUMBER OF MONITOR BLOCKS

3

MONITOR BLOCKS (I,J,K)

11	10	1
17	10	1
25	12	1

GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG

1	2	1	7
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GRID DATA CARDS: GRID BLOCK DX'S

1.500000E+04	5.000000E+03	1.750000E+03	5.000000E+02	1.000000E+02	4.000000E+01
1.000000E+01	4.380000E+01	1.000000E+01	2.000000E+00	2.967974E-01	2.000000E+00
1.000000E+01	4.380000E+01	4.000000E+01	1.000000E+02	4.950000E+02	1.000000E+02
8.000000E+01	2.830000E+02	5.000000E+01	1.000000E+01	6.000000E+01	5.000000E+02
1.000000E+01	4.000000E+01	1.000000E+02	5.000000E+02	1.750000E+03	5.000000E+03
1.500000E+04					

GRID DATA CARDS: GRID BLOCK DY'S

2.728000E+00	4.737200E+01	1.391600E+02	5.000000E+01	1.100000E+01	8.500000E-01
1.380000E+00	1.320800E+00	1.320800E+00	1.320800E+00	2.617600E+00	2.700000E-01
9.060000E+00	1.800000E-01	6.098000E+01	1.585300E+02	1.585300E+02	5.080000E+00
3.600000E+01	7.700000E+00	2.480000E+01	8.500000E+00	1.730000E+01	1.060000E+02
4.330000E+01	1.566000E+01	1.000000E-01			

GRID DATA CARDS: GRID BLOCK DZ'S

6.131430E+04	2.131430E+04	7.814300E+03	3.314300E+03	2.114300E+03	1.834300E+03
1.734300E+03	1.262000E+02	2.880000E+01	4.800000E+00	2.967974E-01	4.800000E+00
2.880000E+01	1.262000E+02	1.000000E+01	1.323000E+02	1.435000E+02	1.416000E+02
1.890000E+01	1.890000E+01	1.890000E+01	9.500000E+00	2.050000E+01	5.310000E+01
1.258900E+03	1.458900E+03	2.018900E+03	3.928000E+03	8.226900E+03	2.172690E+04
6.172690E+04					

GRID BLOCK ELEVATIONS

1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
-3.441824E+01	1.401058E+02	1.990077E+02	2.186417E+02	2.238774E+02	2.250991E+02
2.255354E+02	2.260048E+02	2.264743E+02	2.265790E+02	2.266000E+02	2.266209E+02
2.267256E+02	2.271951E+02	2.279264E+02	2.291480E+02	2.343401E+02	2.395322E+02
2.411029E+02	2.442706E+02	2.471764E+02	2.477000E+02	2.483108E+02	2.531975E+02
2.576478E+02	2.580841E+02	2.593058E+02	2.645415E+02	2.841755E+02	3.430774E+02
5.176014E+02					
6.014737E+01	2.346714E+02	2.935733E+02	3.132073E+02	3.184430E+02	3.196646E+02
3.201010E+02	3.205704E+02	3.210399E+02	3.211446E+02	3.211656E+02	3.211865E+02
3.212912E+02	3.217607E+02	3.224920E+02	3.237137E+02	3.289057E+02	3.340978E+02
3.356685E+02	3.388362E+02	3.417420E+02	3.422656E+02	3.428764E+02	3.477631E+02
3.522134E+02	3.526497E+02	3.538714E+02	3.591071E+02	3.787411E+02	4.376429E+02
6.121671E+02					
9.064270E+01	2.651668E+02	3.240687E+02	3.437026E+02	3.489384E+02	3.501600E+02
3.505963E+02	3.510658E+02	3.515353E+02	3.516400E+02	3.516609E+02	3.516819E+02
3.517866E+02	3.522561E+02	3.529873E+02	3.542090E+02	3.594011E+02	3.645932E+02
3.661639E+02	3.693315E+02	3.722373E+02	3.727609E+02	3.733717E+02	3.782584E+02
3.827088E+02	3.831451E+02	3.843668E+02	3.896025E+02	4.092365E+02	4.681383E+02
6.426624E+02					

9.656680E+01	2.710909E+02	3.299928E+02	3.496267E+02	3.548625E+02	3.560841E+02
3.565204E+02	3.569899E+02	3.574594E+02	3.575641E+02	3.575851E+02	3.576060E+02
3.577107E+02	3.581802E+02	3.589114E+02	3.601331E+02	3.653252E+02	3.705173E+02
3.720880E+02	3.752556E+02	3.781614E+02	3.786850E+02	3.792958E+02	3.841825E+02
3.886329E+02	3.890692E+02	3.902909E+02	3.955266E+02	4.151606E+02	4.740624E+02
6.485865E+02					
9.768167E+01	2.722057E+02	3.311076E+02	3.507415E+02	3.559773E+02	3.571989E+02
3.576353E+02	3.581047E+02	3.585742E+02	3.586789E+02	3.586999E+02	3.587208E+02
3.588255E+02	3.592950E+02	3.600263E+02	3.612480E+02	3.664400E+02	3.716321E+02
3.732029E+02	3.763705E+02	3.792763E+02	3.797998E+02	3.804107E+02	3.852974E+02
3.897477E+02	3.901840E+02	3.914057E+02	3.966414E+02	4.162754E+02	4.751772E+02
6.497014E+02					
9.903186E+01	2.735559E+02	3.324578E+02	3.520918E+02	3.573275E+02	3.585491E+02
3.589854E+02	3.594549E+02	3.599244E+02	3.600291E+02	3.600501E+02	3.600710E+02
3.601757E+02	3.606452E+02	3.613765E+02	3.625981E+02	3.677902E+02	3.729823E+02
3.745530E+02	3.777206E+02	3.806265E+02	3.811501E+02	3.817609E+02	3.866476E+02
3.910979E+02	3.915342E+02	3.927559E+02	3.979916E+02	4.176256E+02	4.765274E+02
6.510515E+02					
1.003524E+02	2.748765E+02	3.337784E+02	3.534124E+02	3.586481E+02	3.598698E+02
3.603061E+02	3.607755E+02	3.612450E+02	3.613497E+02	3.613707E+02	3.613916E+02
3.614963E+02	3.619658E+02	3.626971E+02	3.639187E+02	3.691108E+02	3.743029E+02
3.758736E+02	3.790413E+02	3.819471E+02	3.824706E+02	3.830815E+02	3.879681E+02
3.924185E+02	3.92848E+02	3.940765E+02	3.993122E+02	4.189462E+02	4.778481E+02
6.523721E+02					
1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	3.611903E+02
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	3.627122E+02
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02

13	27	1	T	T	1.013250E+05	2.000000E-01
14	27	1	T	T	1.013250E+05	2.000000E-01
15	27	1	T	T	1.013250E+05	2.000000E-01
16	27	1	T	T	1.013250E+05	2.000000E-01
17	27	1	T	T	1.013250E+05	2.000000E-01
18	27	1	T	T	1.013250E+05	2.000000E-01
19	27	1	T	T	1.013250E+05	2.000000E-01
20	27	1	T	T	1.013250E+05	2.000000E-01
21	27	1	T	T	1.013250E+05	2.000000E-01
22	27	1	T	T	1.013250E+05	2.000000E-01
23	27	1	T	T	1.013250E+05	2.000000E-01
24	27	1	T	T	1.013250E+05	2.000000E-01
25	27	1	T	T	1.013250E+05	2.000000E-01
26	27	1	T	T	1.013250E+05	2.000000E-01
27	27	1	T	T	1.013250E+05	2.000000E-01
28	27	1	T	T	1.013250E+05	2.000000E-01
29	27	1	T	T	1.013250E+05	2.000000E-01
30	27	1	T	T	1.013250E+05	2.000000E-01
31	27	1	T	T	1.013250E+05	2.000000E-01

GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS

1.502225E+07	1.502225E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.502225E+07	1.502225E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.472060E+07	1.472060E+07	1.472060E+07	1.472060E+07	1.472060E+07
1.472060E+07	1.472060E+07	1.472060E+07	1.472060E+07	1.472060E+07
1.472060E+07	1.472060E+07	1.472060E+07	1.472060E+07	1.472060E+07
1.472060E+07	1.472060E+07	1.472060E+07	1.472060E+07	1.472060E+07
1.472060E+07	1.472060E+07	1.472060E+07	1.472060E+07	1.472060E+07
1.472060E+07	1.472060E+07	1.472060E+07	1.472060E+07	1.472060E+07
1.699447E+07	1.489290E+07	1.418362E+07	1.394719E+07	1.388415E+07
1.386944E+07	1.386418E+07	1.385853E+07	1.385288E+07	1.385161E+07
1.385136E+07	1.385111E+07	1.384985E+07	1.384420E+07	1.383539E+07
1.382068E+07	1.375816E+07	1.369564E+07	1.367672E+07	1.363858E+07
1.360359E+07	1.359728E+07	1.358993E+07	1.353108E+07	1.347749E+07
1.347224E+07	1.345753E+07	1.339448E+07	1.315806E+07	1.244878E+07
1.034721E+07	1.375417E+07	1.304489E+07	1.280846E+07	1.274542E+07
1.585574E+07	1.272545E+07	1.271980E+07	1.271415E+07	1.271289E+07
1.273071E+07	1.271238E+07	1.271112E+07	1.270547E+07	1.269666E+07
1.268195E+07	1.261943E+07	1.255691E+07	1.253799E+07	1.249985E+07
1.246486E+07	1.245855E+07	1.245120E+07	1.239235E+07	1.233876E+07
1.233351E+07	1.231880E+07	1.225575E+07	1.201933E+07	1.131005E+07
9.208480E+06	1.338695E+07	1.267768E+07	1.244125E+07	1.237820E+07
1.548852E+07	1.235824E+07	1.235258E+07	1.234693E+07	1.234567E+07
1.236349E+07	1.234516E+07	1.234390E+07	1.233825E+07	1.232945E+07
1.234542E+07	1.225221E+07	1.218969E+07	1.217078E+07	1.213263E+07
1.231473E+07	1.209134E+07	1.208398E+07	1.202514E+07	1.197155E+07
1.209764E+07	1.195158E+07	1.188854E+07	1.165211E+07	1.094283E+07
1.196629E+07	1.331562E+07	1.260634E+07	1.236991E+07	1.230687E+07
8.841264E+06	1.228690E+07	1.228125E+07	1.227559E+07	1.227433E+07
1.541718E+07	1.227383E+07	1.227257E+07	1.226691E+07	1.225811E+07
1.227408E+07	1.218088E+07	1.211835E+07	1.209944E+07	1.206130E+07
1.224340E+07	1.013250E+05	1.201265E+07	1.195380E+07	1.190021E+07
1.202631E+07	1.188025E+07	1.181720E+07	1.158077E+07	1.087150E+07
1.189496E+07	1.330219E+07	1.259291E+07	1.235649E+07	1.229344E+07
8.769928E+06	1.227348E+07	1.226782E+07	1.226217E+07	1.226091E+07
1.540376E+07	1.226040E+07	1.225914E+07	1.225349E+07	1.224468E+07
1.227873E+07	1.216745E+07	1.210493E+07	1.208602E+07	1.204787E+07
1.226066E+07	1.013250E+05	1.199922E+07	1.194038E+07	1.188679E+07
1.222997E+07	1.186682E+07	1.180378E+07	1.156735E+07	1.085807E+07
1.201288E+07	1.328593E+07	1.257666E+07	1.234023E+07	1.227718E+07
1.188153E+07	1.226247E+07	1.225722E+07	1.013250E+05	1.013250E+05
8.756503E+06	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.538750E+07	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.226247E+07	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.186528E+07	1.185056E+07	1.178752E+07	1.155109E+07	1.084181E+07
8.740245E+06				

1.537160E+07	1.327003E+07	1.256075E+07	1.232433E+07	1.226128E+07
1.224657E+07	1.224132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.185463E+07
1.184937E+07	1.183466E+07	1.177161E+07	1.153519E+07	1.082591E+07
8.724342E+06				
1.535570E+07	1.325413E+07	1.254485E+07	1.230843E+07	1.224538E+07
1.223067E+07	1.222541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.183872E+07
1.183347E+07	1.181876E+07	1.175571E+07	1.151929E+07	1.081001E+07
8.708441E+06				
1.533199E+07	1.323042E+07	1.252114E+07	1.228472E+07	1.222167E+07
1.220696E+07	1.220170E+07	1.219605E+07	1.219040E+07	1.218914E+07
1.218888E+07	1.218863E+07	1.218737E+07	1.218172E+07	1.217291E+07
1.215820E+07	1.209568E+07	1.203316E+07	1.201424E+07	1.197610E+07
1.194111E+07	1.013250E+05	1.192745E+07	1.186860E+07	1.181502E+07
1.180976E+07	1.179505E+07	1.173200E+07	1.149558E+07	1.078630E+07
8.684732E+06				
1.531460E+07	1.321304E+07	1.250376E+07	1.226733E+07	1.220429E+07
1.218957E+07	1.218432E+07	1.217867E+07	1.217301E+07	1.217175E+07
1.217150E+07	1.217125E+07	1.216999E+07	1.216433E+07	1.215553E+07
1.214082E+07	1.207830E+07	1.201577E+07	1.199686E+07	1.195872E+07
1.192373E+07	1.013250E+05	1.191007E+07	1.185122E+07	1.179763E+07
1.179238E+07	1.177767E+07	1.171462E+07	1.147819E+07	1.076892E+07
8.667348E+06				
1.525844E+07	1.315687E+07	1.244759E+07	1.221117E+07	1.214812E+07
1.213341E+07	1.212815E+07	1.212250E+07	1.211685E+07	1.211559E+07
1.211533E+07	1.211508E+07	1.211382E+07	1.210817E+07	1.209936E+07
1.208465E+07	1.202213E+07	1.195961E+07	1.194069E+07	1.190255E+07
1.186756E+07	1.013250E+05	1.185390E+07	1.179506E+07	1.174147E+07
1.173621E+07	1.172150E+07	1.165845E+07	1.142203E+07	1.071275E+07
8.611182E+06				
1.520281E+07	1.310125E+07	1.239197E+07	1.215554E+07	1.209250E+07
1.207778E+07	1.207253E+07	1.206688E+07	1.206122E+07	1.205996E+07
1.205971E+07	1.205946E+07	1.205820E+07	1.205254E+07	1.204374E+07
1.202903E+07	1.196651E+07	1.190398E+07	1.188507E+07	1.184693E+07
1.181194E+07	1.013250E+05	1.179828E+07	1.173943E+07	1.168584E+07
1.168059E+07	1.166588E+07	1.160283E+07	1.136640E+07	1.065713E+07
8.555558E+06				
1.483463E+07	1.273307E+07	1.202379E+07	1.178736E+07	1.172432E+07
1.170961E+07	1.170435E+07	1.169870E+07	1.169304E+07	1.169178E+07
1.169153E+07	1.169128E+07	1.169002E+07	1.168437E+07	1.167556E+07
1.166085E+07	1.159833E+07	1.153580E+07	1.151689E+07	1.147875E+07
1.144376E+07	1.013250E+05	1.143010E+07	1.137125E+07	1.131766E+07
1.131241E+07	1.129770E+07	1.123465E+07	1.099822E+07	1.028895E+07
8.187379E+06				
1.351320E+07	1.141163E+07	1.070235E+07	1.046593E+07	1.040288E+07
1.038817E+07	1.038292E+07	1.037726E+07	1.037161E+07	1.037035E+07
1.037010E+07	1.036984E+07	1.036858E+07	1.036293E+07	1.035412E+07
1.033941E+07	1.027689E+07	1.021437E+07	1.019546E+07	1.015731E+07
1.012232E+07	1.013250E+05	1.010866E+07	1.004982E+07	9.996226E+06
9.990972E+06	9.976262E+06	9.913215E+06	9.676788E+06	8.967510E+06
8.865944E+06				
1.160452E+07	9.502952E+06	8.793673E+06	8.557247E+06	8.494200E+06
8.479489E+06	8.474235E+06	8.468582E+06	8.462928E+06	8.461667E+06
8.461415E+06	8.461163E+06	8.459902E+06	8.454249E+06	8.445443E+06
8.430732E+06	8.368211E+06	8.305689E+06	8.286775E+06	8.248632E+06
8.213641E+06	1.013250E+05	8.199980E+06	8.141136E+06	8.087547E+06
8.082292E+06	8.067582E+06	8.004535E+06	7.768108E+06	7.058830E+06
4.957264E+06				
1.061960E+07	8.518031E+06	7.808752E+06	7.572325E+06	7.509278E+06
7.494567E+06	7.489314E+06	7.483661E+06	7.478007E+06	7.476746E+06
7.476493E+06	7.476241E+06	7.474981E+06	7.469328E+06	7.460522E+06
7.445811E+06	7.383289E+06	7.320768E+06	7.301853E+06	7.263710E+06
7.228719E+06	1.013250E+05	7.215059E+06	7.156215E+06	7.102625E+06
7.097371E+06	7.082660E+06	7.019613E+06	6.783187E+06	6.073909E+06
3.972342E+06				
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06


```
1.0000E-12 1.0000E-04
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
4
START TIME FOR MAP 1
-1.5779E+08
MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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4 4 4 4 4 4 4 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 10 2 2 4 4
4 4 4 4 4
1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 10 2 2 1 1
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1 1 1 1 1 1 1 1 7 7 7 7 7 7 7 7 10 8 8 8 10 9 9 10 9 9 1 1
1 1 1 1 1 1 1 1 7 7 7 7 7 7 7 7 10 8 8 8 10 9 9 10 9 9 1 1
1 1 1 1 1 1 1 1 7 7 7 7 7 7 7 7 10 8 8 8 10 9 9 10 9 9 1 1
1 1 1 1 1 1 1 1 7 7 7 7 7 7 7 7 10 8 8 8 10 9 9 10 9 9 1 1
1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 10 2 2 1 1
1 1 1 1 1 1
5 5 5 5 5 5 5 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 10 2 2 5 5
5 5 5 5 5
1 1 1 1 1 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 10 3 3 1 1
1 1 1 1 1 1
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 10 6 6 6 6
6 6 6 6 6
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 10 1 1 1 1
1 1 1 1 1 1
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 10 1 1 1 1
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 10 1 1 1 1
1 1 1 1 1 1
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
11 11 11 11 11
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11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
11 11 11 11 11
START TIME FOR MAP 2
0.0000E+00
MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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1 1 1 1 1 1
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1 1 1 1 1 1
4 4 4 4 4 4 4 4 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15 4 4
4 4 4 4 4
1 1 1 1 1 1 1 1 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15 1 1
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1 1 1 1 1
1 1 1 1 1 1 1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24 1 1
1 1 1 1 1
1 1 1 1 1 1 1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24 1 1
1 1 1 1 1
1 1 1 1 1 1 1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24 1 1
1 1 1 1 1
1 1 1 1 1 1 1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15 1 1
1 1 1 1 1
5 5 5 5 5 5 5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15 5 5
5 5 5 5 5
1 1 1 1 1 1 1 1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38 1 1
1 1 1 1 1
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 25 6 6 6 6
6 6 6 6 6
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 31 1 1 1 1
1 1 1 1 1
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1 1 1 1 1
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1 1 1 1 1
16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 33 16 16 16 16
16 16 16 16 16
17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 33 17 17 17 17
17 17 17 17 17
18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 29 18 18 18 18
18 18 18 18 18
19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 29 19 19 19 19
19 19 19 19 19
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 29 20 20 20 20
20 20 20 20 20
21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 29 21 21 21 21
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22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 29 22 22 22 22
22 22 22 22 22
22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 29 22 22 22 22
22 22 22 22 22
START TIME FOR MAP 3
3.1557E+09
MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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4 4 4 4 4 4 4 4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15 4 4
4 4 4 4 4
1 1 1 1 1 1 1 1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15 1 1
1 1 1 1 1 1
1 1 1 1 1 1 1 1 13 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24 1 1
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1 1 1 1 1 1 1 1 13 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24 1 1
1 1 1 1 1 1
1 1 1 1 1 1 1 1 13 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24 1 1
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1 1 1 1 1 1 1 1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15 1 1
1 1 1 1 1 1
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5 5 5 5 5
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6 6 6 6 6
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 32 1 1 1 1
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22 22 22 22 22
22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22

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#      NAME
1      S_HALITE
2      DRZ_0
3      TRANS_0
4      S_MB139
5      S_ANH_AB
6      S_MB138
7      CAVITY_1
8      CAVITY_2
9      CAVITY_3
10     CAVITY_4
11     IMPERM_Z
12     CASTILER
13     WAS_AREA
14     REPOSIT
15     DRZ_1
16     UNNAMED
17     CULEBRA
18     TAMARISK
19     MAGENTA
20     FORTYNIN
21     DEWYLAKE
22     SANTAROS
23     BACKFILL
24     EXP_AREA
25     SHFT_B_1
26     SHFT_B_2
27     SHFT_L_1
28     SHFT_L_2
29     SHFT_U_1
30     SHFT_U_2
31     SHFT_LS1
32     SHFT_LS2
33     SHFT_US1
34     SHFT_US2
35     PAN_S_1
36     PAN_S_2
37     BOREHOLE
38     TRANS_1
39     CAVITY_5
NWST
2
MAT_WASTE1  MAT_WASTE
7 8
13 14
NDRZ
0
NMATRESET
5
MATRESET
7 8 9 10 39
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000E+00 1
POWASTEIC
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
SOWASTEIC
0.000000E+00
0.000000E+00
0.000000E+00
0.250000E+00
0.200000E+00
PRESDRZ
NBORERESET
0
# LAMBDA      SOR      SGR
1 6.757000E-01 7.532000E-03 4.025000E-02
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2	6.757000E-01	0.000000E+00	0.000000E+00					
3	6.757000E-01	0.000000E+00	0.000000E+00					
4	2.415000E-01	2.669000E-01	1.348000E-01					
5	2.415000E-01	2.669000E-01	1.348000E-01					
6	2.415000E-01	2.669000E-01	1.348000E-01					
7	7.000000E-01	0.000000E+00	0.000000E+00					
8	7.000000E-01	0.000000E+00	0.000000E+00					
9	7.000000E-01	0.000000E+00	0.000000E+00					
10	7.000000E-01	0.000000E+00	0.000000E+00					
11	1.000000E+00	0.000000E+00	0.000000E+00					
12	7.000000E-01	2.000000E-01	2.000000E-01					
13	6.680000E-01	3.021000E-01	2.985000E-01					
14	6.680000E-01	3.021000E-01	2.985000E-01					
15	6.757000E-01	0.000000E+00	0.000000E+00					
16	7.000000E-01	2.000000E-01	2.000000E-01					
17	7.000000E-01	2.000000E-01	2.000000E-01					
18	7.000000E-01	2.000000E-01	2.000000E-01					
19	7.000000E-01	2.000000E-01	2.000000E-01					
20	7.000000E-01	2.000000E-01	2.000000E-01					
21	7.000000E-01	2.000000E-01	2.000000E-01					
22	7.000000E-01	2.000000E-01	2.000000E-01					
23	7.000000E-01	0.000000E+00	0.000000E+00					
24	7.000000E-01	0.000000E+00	0.000000E+00					
25	7.000000E-01	2.000000E-01	2.000000E-01					
26	7.000000E-01	2.000000E-01	2.000000E-01					
27	7.000000E-01	2.000000E-01	2.000000E-01					
28	7.000000E-01	2.000000E-01	2.000000E-01					
29	7.000000E-01	2.000000E-01	2.000000E-01					
30	7.000000E-01	2.000000E-01	2.000000E-01					
31	7.000000E-01	2.000000E-01	2.000000E-01					
32	7.000000E-01	2.000000E-01	2.000000E-01					
33	7.000000E-01	2.000000E-01	2.000000E-01					
34	7.000000E-01	2.000000E-01	2.000000E-01					
35	7.000000E-01	2.000000E-01	2.000000E-01					
36	7.000000E-01	2.000000E-01	2.000000E-01					
37	7.000000E-01	2.000000E-01	0.000000E+00					
38	6.757000E-01	0.000000E+00	0.000000E+00					
39	7.000000E-01	0.000000E+00	0.000000E+00					
#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP
1	7.908599E-03	1.013250E+05	1.000000E+08	7.383000E+05	0.000000E+00	4	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
4	2.802450E-01	1.013250E+05	1.000000E+08	6.745288E-04	-3.460000E-01	4	2	0
5	2.802450E-01	1.013250E+05	1.000000E+08	6.745288E-04	-3.460000E-01	4	2	0
6	2.802450E-01	1.013250E+05	1.000000E+08	6.745288E-04	-3.460000E-01	4	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	3.172050E-01	1.013250E+05	1.000000E+08	1.588503E+00	-3.460000E-01	4	4	0
14	3.172050E-01	1.013250E+05	1.000000E+08	1.588503E+00	-3.460000E-01	4	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	2.462905E+05	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	2.462905E+05	0.000000E+00	4	2	0
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0


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38 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
# PERMX PERMY PERMZ POROSITY COMPRES
1 5.888443E-24 5.888443E-24 5.888443E-24 2.168000E-02 2.138978E-08
2 1.000000E-15 1.000000E-15 1.000000E-15 2.168000E-02 3.805478E-08
3 1.000000E-15 1.000000E-15 1.000000E-15 2.168000E-02 3.805478E-08
4 2.754232E-18 2.754232E-18 2.754232E-18 3.282000E-02 1.264166E-09
5 2.754232E-18 2.754232E-18 2.754232E-18 3.282000E-02 1.264166E-09
6 2.754232E-18 2.754232E-18 2.754232E-18 3.282000E-02 1.264166E-09
7 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
8 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
9 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00 5.000000E-03 0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11 5.200000E-03 1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12 8.810400E-01 1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12 8.810400E-01 1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15 2.168000E-02 3.805478E-08
16 0.000000E+00 0.000000E+00 0.000000E+00 2.000000E-01 0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13 1.460000E-01 1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00 2.000000E-01 0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16 9.000000E-02 2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16 1.500000E-01 6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10 1.750000E-01 5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
32 4.897794E-17 4.897794E-17 4.897794E-17 5.000000E-02 2.000000E-08
33 4.897794E-17 4.897794E-17 4.897794E-17 5.000000E-02 2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
37 8.317639E-14 8.317639E-14 8.317639E-14 3.700000E-01 0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15 2.168000E-02 3.805478E-08
39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
T
NFRAC
3
# DELTA_PI DELTA_PF FRAC_PHI FRAC_EXP IFRX IFRY IFRZ
4 1.810000E+06 2.500000E+06 4.282000E-02 7.475042E+01 1 1 0
5 1.810000E+06 2.500000E+06 4.282000E-02 7.475042E+01 1 1 0
6 1.810000E+06 2.500000E+06 4.282000E-02 7.475042E+01 1 1 0
KLINKENBERG EFFECT TO BE USED? True or False
T
BKLINK EXPKLINK
9.80000E-01 -3.30000E-01
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01320E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.80000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WEIGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
```

RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.0000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
8.6010E-09 0.0000E+00 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0000E+00 0.0000E+00
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
2.1520E-01 0.0000E+00
2.1520E-01 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1.1814E+00 -1.6372E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
MAT NO. MODEL 1= WASTE-FILLED, 2=BACKFILLED
1 13 4
2 14 4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F

BF2_QB0600_TEST7_V005.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
  2 31 27 1
TSTART, TMAX, MAXSTEPS
-1.5779E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
8.6400E+00 8.6400E-04 1.7280E+09 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
  3
  0.0000E+00 8.6400E+02
  3.1666E+09 8.6400E+02
  3.1666E+10 8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
  2 0 2 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  2
USER REQUESTED PRINTOUT TIMES
  0.0000E+00 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  1
USER REQUESTED RESTART TIMES
  3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
BINARY PRINT FLAGS
1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 1 0 0 0 0 0 0
0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0
HISTORY VARIABLE OUTPUT
  8
  1 4 NAME=BRINE PRESSURE
11 8 1 17 8 1 11 1 1 22 6 1
  2 1 NAME=GAS PRESSURE
22 12 1
  10 6 NAME=GAS DENSITY
  7 6 1 7 12 1 7 14 1 25 6 1 25 12 1 25 14 1
  18 30 NAME=GAS SATURATION
  8 8 1 9 8 1 10 8 1 11 8 1 12 8 1 13 8 1
14 8 1 8 9 1 9 9 1 10 9 1 11 9 1 12 9 1
13 9 1 14 9 1 8 10 1 9 10 1 10 10 1 11 10 1
12 10 1 13 10 1 14 10 1 16 8 1 17 8 1 18 8 1
16 9 1 17 9 1 18 9 1 16 10 1 17 10 1 18 10 1
  31 140 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
  3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
  3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
  8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
  8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1
22 24 1 22 25 1 22 26 1 22 27 1 23 6 1 23 7 1
23 8 1 23 9 1 23 10 1 23 11 1 23 12 1 23 13 1
23 14 1 23 15 1 23 16 1 23 17 1 23 18 1 23 19 1
23 20 1 23 21 1 23 22 1 23 23 1 23 24 1 23 25 1
23 26 1 23 27 1 11 1 1 11 2 1 11 3 1 11 4 1
11 5 1 11 6 1 11 7 1 11 8 1 11 9 1 11 10 1
11 11 1 11 12 1 11 13 1 11 14 1 11 15 1 11 16 1
11 17 1 11 18 1 11 19 1 11 20 1 11 21 1 11 22 1
11 23 1 11 24 1 11 25 1 11 26 1 11 27 1 12 1 1
```

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12 2 1 12 3 1 12 4 1 12 5 1 12 6 1 12 7 1
12 8 1 12 9 1 12 10 1 12 11 1 12 12 1 12 13 1
12 14 1 12 15 1 12 16 1 12 17 1 12 18 1 12 19 1
12 20 1 12 21 1 12 22 1 12 23 1 12 24 1 12 25 1
12 26 1 12 27 1
32 69 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
8 11 1 9 11 1 10 11 1 11 11 1 12 11 1 13 11 1
14 11 1 8 8 1 9 8 1 10 8 1 11 8 1 12 8 1
13 8 1 14 8 1 16 11 1 17 11 1 18 11 1 16 8 1
17 8 1 18 8 1 22 6 1 22 7 1 22 8 1 22 9 1
22 10 1 22 11 1 22 12 1 22 13 1 22 14 1 22 15 1
22 16 1 22 17 1 22 18 1 22 19 1 22 20 1 22 21 1
22 22 1 22 23 1 22 24 1 22 25 1 22 26 1 22 27 1
11 1 1 11 2 1 11 3 1 11 4 1 11 5 1 11 6 1
11 7 1 11 8 1 11 9 1 11 10 1 11 11 1 11 12 1
11 13 1 11 14 1 11 15 1 11 16 1 11 17 1 11 18 1
11 19 1 11 20 1 11 21 1 11 22 1 11 23 1 11 24 1
11 25 1 11 26 1 11 27 1
34 140 NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1
22 24 1 22 25 1 22 26 1 22 27 1 23 6 1 23 7 1
23 8 1 23 9 1 23 10 1 23 11 1 23 12 1 23 13 1
23 14 1 23 15 1 23 16 1 23 17 1 23 18 1 23 19 1
23 20 1 23 21 1 23 22 1 23 23 1 23 24 1 23 25 1
23 26 1 23 27 1 11 1 1 11 2 1 11 3 1 11 4 1
11 5 1 11 6 1 11 7 1 11 8 1 11 9 1 11 10 1
11 11 1 11 12 1 11 13 1 11 14 1 11 15 1 11 16 1
11 17 1 11 18 1 11 19 1 11 20 1 11 21 1 11 22 1
11 23 1 11 24 1 11 25 1 11 26 1 11 27 1 12 1 1
12 2 1 12 3 1 12 4 1 12 5 1 12 6 1 12 7 1
12 8 1 12 9 1 12 10 1 12 11 1 12 12 1 12 13 1
12 14 1 12 15 1 12 16 1 12 17 1 12 18 1 12 19 1
12 20 1 12 21 1 12 22 1 12 23 1 12 24 1 12 25 1
12 26 1 12 27 1
35 69 NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
8 11 1 9 11 1 10 11 1 11 11 1 12 11 1 13 11 1
14 11 1 8 8 1 9 8 1 10 8 1 11 8 1 12 8 1
13 8 1 14 8 1 16 11 1 17 11 1 18 11 1 16 8 1
17 8 1 18 8 1 22 6 1 22 7 1 22 8 1 22 9 1
22 10 1 22 11 1 22 12 1 22 13 1 22 14 1 22 15 1
22 16 1 22 17 1 22 18 1 22 19 1 22 20 1 22 21 1
22 22 1 22 23 1 22 24 1 22 25 1 22 26 1 22 27 1
11 1 1 11 2 1 11 3 1 11 4 1 11 5 1 11 6 1
11 7 1 11 8 1 11 9 1 11 10 1 11 11 1 11 12 1
11 13 1 11 14 1 11 15 1 11 16 1 11 17 1 11 18 1
11 19 1 11 20 1 11 21 1 11 22 1 11 23 1 11 24 1
11 25 1 11 26 1 11 27 1

```

MONITOR PARAMETER VALUES AT GRIDBLOCK(S)

T

NUMBER OF MONITOR BLOCKS

3

MONITOR BLOCKS (I,J,K)

```

11 10 1
17 10 1
25 12 1

```

GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG

```

1 2 1 7

```

GRID DATA CARDS: GRID BLOCK DX'S

```

1.500000E+04 5.000000E+03 1.750000E+03 5.000000E+02 1.000000E+02 4.000000E+01
1.000000E+01 4.380000E+01 1.000000E+01 2.000000E+00 2.516885E-01 2.000000E+00
1.000000E+01 4.380000E+01 4.000000E+01 1.000000E+02 4.950000E+02 1.000000E+02
8.000000E+01 2.830000E+02 5.000000E+01 1.000000E+01 6.000000E+01 5.000000E+02
1.000000E+01 4.000000E+01 1.000000E+02 5.000000E+02 1.750000E+03 5.000000E+03
1.500000E+04

```

GRID DATA CARDS: GRID BLOCK DY'S

```

2.728000E+00 4.737200E+01 1.391600E+02 5.000000E+01 1.100000E+01 8.500000E-01
1.380000E+00 1.320800E+00 1.320800E+00 1.320800E+00 2.617600E+00 2.700000E-01

```

9.060000E+00 1.800000E-01 6.098000E+01 1.585300E+02 1.585300E+02 5.080000E+00
3.600000E+01 7.700000E+00 2.480000E+01 8.500000E+00 1.730000E+01 1.060000E+02
4.330000E+01 1.566000E+01 1.000000E-01
GRID DATA CARDS: GRID BLOCK DZ'S
6.131430E+04 2.131430E+04 7.814300E+03 3.314300E+03 2.114300E+03 1.834300E+03
1.734300E+03 1.262000E+02 2.880000E+01 4.800000E+00 2.516885E-01 4.800000E+00
2.880000E+01 1.262000E+02 1.000000E+01 1.323000E+02 1.435000E+02 1.416000E+02
1.890000E+01 1.890000E+01 1.890000E+01 9.500000E+00 2.050000E+01 5.310000E+01
1.258900E+03 1.458900E+03 2.018900E+03 3.928000E+03 8.226900E+03 2.172690E+04
6.172690E+04
GRID BLOCK ELEVATIONS
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
-3.441824E+01 1.401058E+02 1.990077E+02 2.186417E+02 2.238774E+02 2.250991E+02
2.255354E+02 2.260048E+02 2.264743E+02 2.265790E+02 2.266000E+02 2.266209E+02
2.267256E+02 2.271951E+02 2.279264E+02 2.291480E+02 2.343401E+02 2.395322E+02
2.411029E+02 2.442706E+02 2.471764E+02 2.477000E+02 2.483108E+02 2.531975E+02
2.576478E+02 2.580841E+02 2.593058E+02 2.645415E+02 2.841755E+02 3.430774E+02
5.176014E+02
6.014737E+01 2.346714E+02 2.935733E+02 3.132073E+02 3.184430E+02 3.196646E+02
3.201010E+02 3.205704E+02 3.210399E+02 3.211446E+02 3.211656E+02 3.211865E+02
3.212912E+02 3.217607E+02 3.224920E+02 3.237137E+02 3.289057E+02 3.340978E+02
3.356685E+02 3.388362E+02 3.417420E+02 3.422656E+02 3.428764E+02 3.477631E+02
3.522134E+02 3.526497E+02 3.538714E+02 3.591071E+02 3.787411E+02 4.376429E+02
6.121671E+02
9.064270E+01 2.651668E+02 3.240687E+02 3.437026E+02 3.489384E+02 3.501600E+02
3.505963E+02 3.510658E+02 3.515353E+02 3.516400E+02 3.516609E+02 3.516819E+02
3.517866E+02 3.522561E+02 3.529873E+02 3.542090E+02 3.594011E+02 3.645932E+02
3.661639E+02 3.693315E+02 3.722373E+02 3.727609E+02 3.733717E+02 3.782584E+02
3.827088E+02 3.831451E+02 3.843668E+02 3.896025E+02 4.092365E+02 4.681383E+02
6.426624E+02
9.656680E+01 2.710909E+02 3.299928E+02 3.496267E+02 3.548625E+02 3.560841E+02
3.565204E+02 3.569899E+02 3.574594E+02 3.575641E+02 3.575851E+02 3.576060E+02
3.577107E+02 3.581802E+02 3.589114E+02 3.601331E+02 3.653252E+02 3.705173E+02
3.720880E+02 3.752556E+02 3.781614E+02 3.786850E+02 3.792958E+02 3.841825E+02
3.886329E+02 3.890692E+02 3.902909E+02 3.955266E+02 4.151606E+02 4.740624E+02
6.485865E+02
9.768167E+01 2.722057E+02 3.311076E+02 3.507415E+02 3.559773E+02 3.571989E+02
3.576353E+02 3.581047E+02 3.585742E+02 3.586789E+02 3.586999E+02 3.587208E+02
3.588255E+02 3.592950E+02 3.600263E+02 3.612480E+02 3.664400E+02 3.716321E+02
3.732029E+02 3.763705E+02 3.792763E+02 3.797998E+02 3.804107E+02 3.852974E+02
3.897477E+02 3.901840E+02 3.914057E+02 3.966414E+02 4.162754E+02 4.751772E+02
6.497014E+02
9.903186E+01 2.735559E+02 3.324578E+02 3.520918E+02 3.573275E+02 3.585491E+02
3.589854E+02 3.594549E+02 3.599244E+02 3.600291E+02 3.600501E+02 3.600710E+02
3.601757E+02 3.606452E+02 3.613765E+02 3.625981E+02 3.677902E+02 3.729823E+02
3.745530E+02 3.777206E+02 3.806265E+02 3.811501E+02 3.817609E+02 3.866476E+02
3.910979E+02 3.915342E+02 3.927559E+02 3.979916E+02 4.176256E+02 4.765274E+02
6.510515E+02
1.003524E+02 2.748765E+02 3.337784E+02 3.534124E+02 3.586481E+02 3.598698E+02
3.603061E+02 3.607755E+02 3.612450E+02 3.613497E+02 3.613707E+02 3.613916E+02
3.614963E+02 3.619658E+02 3.626971E+02 3.639187E+02 3.691108E+02 3.743029E+02
3.758736E+02 3.790413E+02 3.819471E+02 3.824706E+02 3.830815E+02 3.879681E+02
3.924185E+02 3.928548E+02 3.940765E+02 3.993122E+02 4.189462E+02 4.778481E+02
6.523721E+02
1.016731E+02 2.761971E+02 3.350990E+02 3.547329E+02 3.599687E+02 3.611903E+02
3.616266E+02 3.620961E+02 3.625656E+02 3.626703E+02 3.626913E+02 3.627122E+02
3.628169E+02 3.632864E+02 3.640177E+02 3.652393E+02 3.704314E+02 3.756235E+02
3.771942E+02 3.803618E+02 3.832677E+02 3.837913E+02 3.844021E+02 3.892888E+02
3.937391E+02 3.941754E+02 3.953971E+02 4.006328E+02 4.202668E+02 4.791686E+02
6.536927E+02
1.036419E+02 2.781660E+02 3.370679E+02 3.567019E+02 3.619376E+02 3.631592E+02
3.635956E+02 3.640650E+02 3.645345E+02 3.646392E+02 3.646602E+02 3.646811E+02
3.647858E+02 3.652553E+02 3.659866E+02 3.672083E+02 3.724003E+02 3.775924E+02
3.791631E+02 3.823307E+02 3.852366E+02 3.857602E+02 3.863710E+02 3.912577E+02
3.957080E+02 3.961443E+02 3.973660E+02 4.026017E+02 4.222357E+02 4.811375E+02

6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.276602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.819391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02

9.270001E+02	9.270001E+02	9.270001E+02	9.269166E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02					
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001555E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03					
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031031E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03					
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.038910E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03					

WELL DATA

0

DIRICHLET CONDITIONS

T 35

1	20	1	T	F	8.520000E+05	0.000000E+00
31	20	1	T	F	8.520000E+05	0.000000E+00
1	22	1	T	F	9.000000E+05	0.000000E+00
31	22	1	T	F	9.000000E+05	0.000000E+00
1	27	1	T	T	1.013250E+05	2.000000E-01
2	27	1	T	T	1.013250E+05	2.000000E-01
3	27	1	T	T	1.013250E+05	2.000000E-01
4	27	1	T	T	1.013250E+05	2.000000E-01
5	27	1	T	T	1.013250E+05	2.000000E-01
6	27	1	T	T	1.013250E+05	2.000000E-01
7	27	1	T	T	1.013250E+05	2.000000E-01
8	27	1	T	T	1.013250E+05	2.000000E-01
9	27	1	T	T	1.013250E+05	2.000000E-01
10	27	1	T	T	1.013250E+05	2.000000E-01
11	27	1	T	T	1.013250E+05	2.000000E-01
12	27	1	T	T	1.013250E+05	2.000000E-01
13	27	1	T	T	1.013250E+05	2.000000E-01
14	27	1	T	T	1.013250E+05	2.000000E-01
15	27	1	T	T	1.013250E+05	2.000000E-01
16	27	1	T	T	1.013250E+05	2.000000E-01
17	27	1	T	T	1.013250E+05	2.000000E-01
18	27	1	T	T	1.013250E+05	2.000000E-01
19	27	1	T	T	1.013250E+05	2.000000E-01
20	27	1	T	T	1.013250E+05	2.000000E-01
21	27	1	T	T	1.013250E+05	2.000000E-01
22	27	1	T	T	1.013250E+05	2.000000E-01
23	27	1	T	T	1.013250E+05	2.000000E-01
24	27	1	T	T	1.013250E+05	2.000000E-01
25	27	1	T	T	1.013250E+05	2.000000E-01
26	27	1	T	T	1.013250E+05	2.000000E-01
27	27	1	T	T	1.013250E+05	2.000000E-01
28	27	1	T	T	1.013250E+05	2.000000E-01
29	27	1	T	T	1.013250E+05	2.000000E-01
30	27	1	T	T	1.013250E+05	2.000000E-01
31	27	1	T	T	1.013250E+05	2.000000E-01

GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS

1.583225E+07	1.583225E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.583225E+07
1.583225E+07				
1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07
1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07
1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07
1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07
1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07
1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07
1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07
1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07
1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07
1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07
1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07	1.553060E+07
1.780447E+07	1.570290E+07	1.499362E+07	1.475719E+07	1.469415E+07

1.467944E+07	1.467418E+07	1.466853E+07	1.466288E+07	1.466161E+07
1.466136E+07	1.466111E+07	1.465985E+07	1.465420E+07	1.464539E+07
1.463068E+07	1.456816E+07	1.450564E+07	1.448672E+07	1.444858E+07
1.441359E+07	1.440728E+07	1.439993E+07	1.434108E+07	1.428749E+07
1.428224E+07	1.426753E+07	1.420448E+07	1.396806E+07	1.325878E+07
1.115721E+07				
1.666574E+07	1.456417E+07	1.385489E+07	1.361846E+07	1.355542E+07
1.354071E+07	1.353545E+07	1.352980E+07	1.352415E+07	1.352289E+07
1.352263E+07	1.352238E+07	1.352112E+07	1.351547E+07	1.350666E+07
1.349195E+07	1.342943E+07	1.336691E+07	1.334799E+07	1.330985E+07
1.327486E+07	1.326855E+07	1.326120E+07	1.320235E+07	1.314876E+07
1.314351E+07	1.312880E+07	1.306575E+07	1.282933E+07	1.212005E+07
1.001848E+07				
1.629852E+07	1.419695E+07	1.348768E+07	1.325125E+07	1.318820E+07
1.317349E+07	1.316824E+07	1.316258E+07	1.315693E+07	1.315567E+07
1.315542E+07	1.315516E+07	1.315390E+07	1.314825E+07	1.313945E+07
1.312473E+07	1.306221E+07	1.299969E+07	1.298078E+07	1.294263E+07
1.290764E+07	1.290134E+07	1.289398E+07	1.283514E+07	1.278155E+07
1.277629E+07	1.276158E+07	1.269854E+07	1.246211E+07	1.175283E+07
9.651264E+06				
1.622718E+07	1.412562E+07	1.341634E+07	1.317991E+07	1.311687E+07
1.310215E+07	1.309690E+07	1.309125E+07	1.308559E+07	1.308433E+07
1.308408E+07	1.308383E+07	1.308257E+07	1.307691E+07	1.306811E+07
1.305340E+07	1.299088E+07	1.292835E+07	1.290944E+07	1.287130E+07
1.283631E+07	1.013250E+05	1.282265E+07	1.276380E+07	1.271021E+07
1.270496E+07	1.269025E+07	1.262720E+07	1.239077E+07	1.168150E+07
9.579928E+06				
1.621376E+07	1.411219E+07	1.340291E+07	1.316649E+07	1.310344E+07
1.308873E+07	1.308348E+07	1.307782E+07	1.307217E+07	1.307091E+07
1.307066E+07	1.307040E+07	1.306914E+07	1.306349E+07	1.305468E+07
1.303997E+07	1.297745E+07	1.291493E+07	1.289602E+07	1.285787E+07
1.282288E+07	1.013250E+05	1.280922E+07	1.275038E+07	1.269679E+07
1.269153E+07	1.267682E+07	1.261378E+07	1.237735E+07	1.166807E+07
9.566503E+06				
1.619750E+07	1.409594E+07	1.338666E+07	1.315023E+07	1.308718E+07
1.307247E+07	1.306722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.267528E+07	1.266056E+07	1.259752E+07	1.236109E+07	1.165181E+07
9.550245E+06				
1.618160E+07	1.408003E+07	1.337075E+07	1.313433E+07	1.307128E+07
1.305657E+07	1.305132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.265937E+07	1.264466E+07	1.258161E+07	1.234519E+07	1.163591E+07
9.534342E+06				
1.616570E+07	1.406413E+07	1.335485E+07	1.311843E+07	1.305538E+07
1.304067E+07	1.303541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.264347E+07	1.262876E+07	1.256571E+07	1.232929E+07	1.162001E+07
9.518441E+06				
1.614199E+07	1.404042E+07	1.333114E+07	1.309472E+07	1.303167E+07
1.301696E+07	1.301170E+07	1.300605E+07	1.300040E+07	1.299914E+07
1.299888E+07	1.299863E+07	1.299737E+07	1.299172E+07	1.298291E+07
1.296820E+07	1.290568E+07	1.284316E+07	1.282424E+07	1.278610E+07
1.275111E+07	1.013250E+05	1.273745E+07	1.267860E+07	1.262502E+07
1.261976E+07	1.260505E+07	1.254200E+07	1.230558E+07	1.159630E+07
9.494732E+06				
1.612460E+07	1.402304E+07	1.331376E+07	1.307733E+07	1.301429E+07
1.299957E+07	1.299432E+07	1.298867E+07	1.298301E+07	1.298175E+07
1.298150E+07	1.298125E+07	1.297999E+07	1.297433E+07	1.296553E+07
1.295082E+07	1.288830E+07	1.282577E+07	1.280686E+07	1.276872E+07
1.273373E+07	1.013250E+05	1.272007E+07	1.266122E+07	1.260763E+07
1.260238E+07	1.258767E+07	1.252462E+07	1.228819E+07	1.157891E+07
9.477348E+06				
1.606844E+07	1.396687E+07	1.325759E+07	1.302117E+07	1.295812E+07
1.294341E+07	1.293250E+07	1.293250E+07	1.292685E+07	1.292559E+07
1.292533E+07	1.292508E+07	1.292382E+07	1.291817E+07	1.290936E+07
1.289465E+07	1.283213E+07	1.276961E+07	1.275069E+07	1.271255E+07
1.267756E+07	1.013250E+05	1.266390E+07	1.260506E+07	1.255147E+07
1.254621E+07	1.253150E+07	1.246845E+07	1.223203E+07	1.152275E+07
9.421182E+06				

1.601281E+07	1.391125E+07	1.320197E+07	1.296554E+07	1.290250E+07
1.288778E+07	1.288253E+07	1.287688E+07	1.287122E+07	1.286996E+07
1.286971E+07	1.286946E+07	1.286820E+07	1.286254E+07	1.285374E+07
1.283903E+07	1.277651E+07	1.271398E+07	1.269507E+07	1.265693E+07
1.262194E+07	1.013250E+05	1.260828E+07	1.254943E+07	1.249584E+07
1.249059E+07	1.247588E+07	1.241283E+07	1.217640E+07	1.146712E+07
9.365558E+06				
1.564463E+07	1.354307E+07	1.283379E+07	1.259736E+07	1.253432E+07
1.251961E+07	1.251435E+07	1.250870E+07	1.250304E+07	1.250178E+07
1.250153E+07	1.250128E+07	1.250002E+07	1.249437E+07	1.248556E+07
1.247085E+07	1.240833E+07	1.234580E+07	1.232689E+07	1.228875E+07
1.225376E+07	1.013250E+05	1.224010E+07	1.218125E+07	1.212766E+07
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8.997379E+06				
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1.118010E+07	1.117984E+07	1.117858E+07	1.117293E+07	1.116412E+07
1.114941E+07	1.108689E+07	1.102437E+07	1.100546E+07	1.096731E+07
1.093232E+07	1.013250E+05	1.091866E+07	1.085982E+07	1.080623E+07
1.080097E+07	1.078626E+07	1.072322E+07	1.048679E+07	9.777510E+06
7.675944E+06				
1.241452E+07	1.031295E+07	9.603674E+06	9.367247E+06	9.304200E+06
9.289489E+06	9.284235E+06	9.278582E+06	9.272928E+06	9.271667E+06
9.271415E+06	9.271163E+06	9.269902E+06	9.264249E+06	9.255443E+06
9.240732E+06	9.178211E+06	9.115689E+06	9.096775E+06	9.058632E+06
9.023641E+06	1.013250E+05	9.009980E+06	8.951136E+06	8.897546E+06
8.892292E+06	8.877582E+06	8.814535E+06	8.578108E+06	7.868830E+06
5.767264E+06				
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8.304567E+06	8.299314E+06	8.293661E+06	8.288007E+06	8.286746E+06
8.286493E+06	8.286241E+06	8.284981E+06	8.279328E+06	8.270522E+06
8.255811E+06	8.193289E+06	8.130768E+06	8.111853E+06	8.073710E+06
8.038719E+06	1.013250E+05	8.025059E+06	7.966215E+06	7.912625E+06
7.907371E+06	7.892660E+06	7.829613E+06	7.593187E+06	6.883909E+06
4.782342E+06				
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7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05
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5 5 5 5 5
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- # NAME
- 1 S_HALITE
- 2 DRZ_0
- 3 TRANS_0
- 4 S_MB139
- 5 S_ANH_AB
- 6 S_MB138
- 7 CAVITY_1
- 8 CAVITY_2
- 9 CAVITY_3
- 10 CAVITY_4
- 11 IMPERM_Z
- 12 CASTILER
- 13 WAS_AREA
- 14 REPOSIT
- 15 DRZ_1
- 16 UNNAMED
- 17 CULEBRA
- 18 TAMARISK
- 19 MAGENTA
- 20 FORTYNIN
- 21 DEWYLAKE
- 22 SANTAROS
- 23 BACKFILL
- 24 EXP_AREA
- 25 SHFT_B_1
- 26 SHFT_B_2
- 27 SHFT_L_1
- 28 SHFT_L_2
- 29 SHFT_U_1
- 30 SHFT_U_2
- 31 SHFT_LS1

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32 SHFT_LS2
33 SHFT_US1
34 SHFT_US2
35 PAN_S_1
36 PAN_S_2
37 BOREHOLE
38 TRANS_1
39 CAVITY_5
NWST
2
MAT_WASTE1 MAT_WASTE
7 8
13 14
NDRZ
0
NMATRESET
5
MATRESET
7 8 9 10 39
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000E+00 1
POWASTEIC
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
SOWASTEIC
0.000000E+00
0.000000E+00
0.000000E+00
0.250000E+00
0.200000E+00
PRESDRZ
NBORERESET
0
# LAMBDA SOR SGR
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2 4.797000E+00 0.000000E+00 0.000000E+00
3 4.797000E+00 0.000000E+00 0.000000E+00
4 1.154000E+00 2.892000E-01 3.796000E-02
5 1.154000E+00 2.892000E-01 3.796000E-02
6 1.154000E+00 2.892000E-01 3.796000E-02
7 7.000000E-01 0.000000E+00 0.000000E+00
8 7.000000E-01 0.000000E+00 0.000000E+00
9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 4.479000E-01 6.812000E-02 2.419000E-01
14 4.479000E-01 6.812000E-02 2.419000E-01
15 4.797000E+00 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
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33 7.000000E-01 2.000000E-01 2.000000E-01
34 7.000000E-01 2.000000E-01 2.000000E-01
35 7.000000E-01 2.000000E-01 2.000000E-01
36 7.000000E-01 2.000000E-01 2.000000E-01
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37	7.000000E-01	2.000000E-01	0.000000E+00						
38	4.797000E+00	0.000000E+00	0.000000E+00						
39	7.000000E-01	0.000000E+00	0.000000E+00						
#	SBMIN	PEMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP	
1	4.541250E-01	1.013250E+05	1.000000E+08	3.461000E+05	0.000000E+00	1	2	0	
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0	
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0	
4	3.036600E-01	1.013250E+05	1.000000E+08	9.225717E-03	-3.460000E-01	1	2	0	
5	3.036600E-01	1.013250E+05	1.000000E+08	9.225717E-03	-3.460000E-01	1	2	0	
6	3.036600E-01	1.013250E+05	1.000000E+08	9.225717E-03	-3.460000E-01	1	2	0	
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
13	7.152600E-02	1.013250E+05	1.000000E+08	1.956357E-01	-3.460000E-01	1	4	0	
14	7.152600E-02	1.013250E+05	1.000000E+08	1.956357E-01	-3.460000E-01	1	4	0	
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0	
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0	
32	2.100000E-01	1.013250E+05	1.000000E+08	9.618513E+05	0.000000E+00	4	2	0	
33	2.100000E-01	1.013250E+05	1.000000E+08	9.618513E+05	0.000000E+00	4	2	0	
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0	
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0	
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
#	PERMX	PERMY	PERMZ	POROSITY	COMPRES				
1	3.890453E-21	3.890453E-21	3.890453E-21	5.280000E-03	3.637571E-09				
2	1.000000E-15	1.000000E-15	1.000000E-15	5.280000E-03	1.570317E-07				
3	1.000000E-15	1.000000E-15	1.000000E-15	5.280000E-03	1.570317E-07				
4	7.585761E-18	7.585761E-18	7.585761E-18	5.032000E-03	4.745584E-08				
5	7.585761E-18	7.585761E-18	7.585761E-18	5.032000E-03	4.745584E-08				
6	7.585761E-18	7.585761E-18	7.585761E-18	5.032000E-03	4.745584E-08				
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00				
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00				
9	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00				
10	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00				
11	0.000000E+00	0.000000E+00	0.000000E+00	5.000000E-03	0.000000E+00				
12	1.330453E-11	1.330453E-11	1.330453E-11	5.200000E-03	1.923077E-07				
13	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09				
14	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09				
15	1.000000E-15	1.000000E-15	1.000000E-15	5.280000E-03	1.570317E-07				
16	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00				
17	2.648502E-13	2.648502E-13	2.648502E-13	1.460000E-01	1.417160E-09				
18	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00				
19	1.096478E-16	1.096478E-16	1.096478E-16	9.000000E-02	2.199962E-09				
20	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00				
21	9.332549E-16	9.332549E-16	9.332549E-16	1.500000E-01	6.666667E-08				
22	1.000000E-10	1.000000E-10	1.000000E-10	1.750000E-01	5.714286E-08				
23	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00				
24	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00				
25	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08				
26	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08				
27	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08				
28	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08				
29	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09				
30	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09				
31	1.000000E-12	1.000000E-12	1.000000E-12	5.000000E-02	2.000000E-08				
32	9.549916E-19	9.549916E-19	9.549916E-19	5.000000E-02	2.000000E-08				

```
33 9.549916E-19 9.549916E-19 9.549916E-19 5.000000E-02 2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
37 4.365162E-12 4.365162E-12 4.365162E-12 3.700000E-01 0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15 5.280000E-03 1.570317E-07
39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
T
NFRAC
3
# DELTA_PI DELTA_PF FRAC_PHI FRAC_EXP IFRX IFRY IFRZ
4 1.640000E+06 2.500000E+06 1.503200E-02 1.839285E+01 1 1 0
5 1.640000E+06 2.500000E+06 1.503200E-02 1.839285E+01 1 1 0
6 1.640000E+06 2.500000E+06 1.503200E-02 1.839285E+01 1 1 0
KLINKENBERG EFFECT TO BE USED? True or False
T
BKLINK EXPKLINK
9.80000E-01 -3.30000E-01
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01320E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.80000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANT'S OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
0.0000E+00 1.4877E-07 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0000E+00 1.0000E-01
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
8.6290E-01 0.0000E+00
8.6290E-01 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
```


1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0 0
0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0
0 0 0 0 0 0 0 0

HISTORY VARIABLE OUTPUT

8
1 4 NAME=BRINE PRESSURE
11 8 1 17 8 1 11 1 1 22 6 1
2 1 NAME=GAS PRESSURE
22 12 1
10 6 NAME=GAS DENSITY
7 6 1 7 12 1 7 14 1 25 6 1 25 12 1 25 14 1
18 30 NAME=GAS SATURATION
8 8 1 9 8 1 10 8 1 11 8 1 12 8 1 13 8 1
14 8 1 8 9 1 9 9 1 10 9 1 11 9 1 12 9 1
13 9 1 14 9 1 8 10 1 9 10 1 10 10 1 11 10 1
12 10 1 13 10 1 14 10 1 16 8 1 17 8 1 18 8 1
16 9 1 17 9 1 18 9 1 16 10 1 17 10 1 18 10 1
31 140 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1
22 24 1 22 25 1 22 26 1 22 27 1 23 6 1 23 7 1
23 8 1 23 9 1 23 10 1 23 11 1 23 12 1 23 13 1
23 14 1 23 15 1 23 16 1 23 17 1 23 18 1 23 19 1
23 20 1 23 21 1 23 22 1 23 23 1 23 24 1 23 25 1
23 26 1 23 27 1 11 1 1 11 2 1 11 3 1 11 4 1
11 5 1 11 6 1 11 7 1 11 8 1 11 9 1 11 10 1
11 11 1 11 12 1 11 13 1 11 14 1 11 15 1 11 16 1
11 17 1 11 18 1 11 19 1 11 20 1 11 21 1 11 22 1
11 23 1 11 24 1 11 25 1 11 26 1 11 27 1 12 1 1
12 2 1 12 3 1 12 4 1 12 5 1 12 6 1 12 7 1
12 8 1 12 9 1 12 10 1 12 11 1 12 12 1 12 13 1
12 14 1 12 15 1 12 16 1 12 17 1 12 18 1 12 19 1
12 20 1 12 21 1 12 22 1 12 23 1 12 24 1 12 25 1
12 26 1 12 27 1
32 69 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
8 11 1 9 11 1 10 11 1 11 11 1 12 11 1 13 11 1
14 11 1 8 8 1 9 8 1 10 8 1 11 8 1 12 8 1
13 8 1 14 8 1 16 11 1 17 11 1 18 11 1 16 8 1
17 8 1 18 8 1 22 6 1 22 7 1 22 8 1 22 9 1
22 10 1 22 11 1 22 12 1 22 13 1 22 14 1 22 15 1
22 16 1 22 17 1 22 18 1 22 19 1 22 20 1 22 21 1
22 22 1 22 23 1 22 24 1 22 25 1 22 26 1 22 27 1
11 1 1 11 2 1 11 3 1 11 4 1 11 5 1 11 6 1
11 7 1 11 8 1 11 9 1 11 10 1 11 11 1 11 12 1
11 13 1 11 14 1 11 15 1 11 16 1 11 17 1 11 18 1
11 19 1 11 20 1 11 21 1 11 22 1 11 23 1 11 24 1
11 25 1 11 26 1 11 27 1
34 140 NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1
22 24 1 22 25 1 22 26 1 22 27 1 23 6 1 23 7 1
23 8 1 23 9 1 23 10 1 23 11 1 23 12 1 23 13 1
23 14 1 23 15 1 23 16 1 23 17 1 23 18 1 23 19 1
23 20 1 23 21 1 23 22 1 23 23 1 23 24 1 23 25 1
23 26 1 23 27 1 11 1 1 11 2 1 11 3 1 11 4 1
11 5 1 11 6 1 11 7 1 11 8 1 11 9 1 11 10 1
11 11 1 11 12 1 11 13 1 11 14 1 11 15 1 11 16 1
11 17 1 11 18 1 11 19 1 11 20 1 11 21 1 11 22 1

```

11 23 1 11 24 1 11 25 1 11 26 1 11 27 1 12 1 1
12 2 1 12 3 1 12 4 1 12 5 1 12 6 1 12 7 1
12 8 1 12 9 1 12 10 1 12 11 1 12 12 1 12 13 1
12 14 1 12 15 1 12 16 1 12 17 1 12 18 1 12 19 1
12 20 1 12 21 1 12 22 1 12 23 1 12 24 1 12 25 1
12 26 1 12 27 1
35 69 NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
8 11 1 9 11 1 10 11 1 11 11 1 12 11 1 13 11 1
14 11 1 8 8 1 9 8 1 10 8 1 11 8 1 12 8 1
13 8 1 14 8 1 16 11 1 17 11 1 18 11 1 16 8 1
17 8 1 18 8 1 22 6 1 22 7 1 22 8 1 22 9 1
22 10 1 22 11 1 22 12 1 22 13 1 22 14 1 22 15 1
22 16 1 22 17 1 22 18 1 22 19 1 22 20 1 22 21 1
22 22 1 22 23 1 22 24 1 22 25 1 22 26 1 22 27 1
11 1 1 11 2 1 11 3 1 11 4 1 11 5 1 11 6 1
11 7 1 11 8 1 11 9 1 11 10 1 11 11 1 11 12 1
11 13 1 11 14 1 11 15 1 11 16 1 11 17 1 11 18 1
11 19 1 11 20 1 11 21 1 11 22 1 11 23 1 11 24 1
11 25 1 11 26 1 11 27 1
  
```

MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T

NUMBER OF MONITOR BLOCKS
 3

MONITOR BLOCKS (I,J,K)

```

11 10 1
17 10 1
25 12 1
  
```

GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG

```

1 2 1 7
  
```

GRID DATA CARDS: GRID BLOCK DX'S

```

1.500000E+04 5.000000E+03 1.750000E+03 5.000000E+02 1.000000E+02 4.000000E+01
1.000000E+01 4.380000E+01 1.000000E+01 2.000000E+00 3.833818E-01 2.000000E+00
1.000000E+01 4.380000E+01 4.000000E+01 1.000000E+02 4.950000E+02 1.000000E+02
8.000000E+01 2.830000E+02 5.000000E+01 1.000000E+01 6.000000E+01 5.000000E+02
1.000000E+01 4.000000E+01 1.000000E+02 5.000000E+02 1.750000E+03 5.000000E+03
1.500000E+04
  
```

GRID DATA CARDS: GRID BLOCK DY'S

```

2.728000E+00 4.737200E+01 1.391600E+02 5.000000E+01 1.100000E+01 8.500000E-01
1.380000E+00 1.320800E+00 1.320800E+00 1.320800E+00 2.617600E+00 2.700000E-01
9.060000E+00 1.800000E-01 6.098000E+01 1.585300E+02 1.585300E+02 5.080000E+00
3.600000E+01 7.700000E+00 2.480000E+01 8.500000E+00 1.730000E+01 1.060000E+02
4.330000E+01 1.566000E+01 1.000000E-01
  
```

GRID DATA CARDS: GRID BLOCK DZ'S

```

6.131430E+04 2.131430E+04 7.814300E+03 3.314300E+03 2.114300E+03 1.834300E+03
1.734300E+03 1.262000E+02 2.880000E+01 4.800000E+00 3.833818E-01 4.800000E+00
2.880000E+01 1.262000E+02 1.000000E+01 1.323000E+02 1.435000E+02 1.416000E+02
1.890000E+01 1.890000E+01 1.890000E+01 9.500000E+00 2.050000E+01 5.310000E+01
1.258900E+03 1.458900E+03 2.018900E+03 3.928000E+03 8.226900E+03 2.172690E+04
6.172690E+04
  
```

GRID BLOCK ELEVATIONS

```

1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
3.441824E+01 1.401058E+02 1.990077E+02 2.186417E+02 2.238774E+02 2.250991E+02
2.255354E+02 2.260048E+02 2.264743E+02 2.265790E+02 2.266600E+02 2.266209E+02
2.267256E+02 2.271951E+02 2.279264E+02 2.291480E+02 2.343401E+02 2.395322E+02
2.411029E+02 2.442706E+02 2.471764E+02 2.477000E+02 2.483108E+02 2.531975E+02
2.576478E+02 2.580841E+02 2.593058E+02 2.645415E+02 2.841755E+02 3.430774E+02
5.176014E+02
6.014737E+01 2.346714E+02 2.935733E+02 3.132073E+02 3.184430E+02 3.196646E+02
3.201010E+02 3.205704E+02 3.210399E+02 3.211446E+02 3.211656E+02 3.211865E+02
3.212912E+02 3.217607E+02 3.224920E+02 3.237137E+02 3.289057E+02 3.340978E+02
3.356685E+02 3.388362E+02 3.417420E+02 3.422656E+02 3.428764E+02 3.477631E+02
3.522134E+02 3.526497E+02 3.538714E+02 3.591071E+02 3.787411E+02 4.376429E+02
6.121671E+02
9.064270E+01 2.651668E+02 3.240687E+02 3.437026E+02 3.489384E+02 3.501600E+02
3.505963E+02 3.510658E+02 3.515353E+02 3.516400E+02 3.516609E+02 3.516819E+02
  
```

3.517866E+02	3.522561E+02	3.529873E+02	3.542090E+02	3.594011E+02	3.645932E+02
3.661639E+02	3.693315E+02	3.722373E+02	3.727609E+02	3.733717E+02	3.782584E+02
3.827088E+02	3.831451E+02	3.843668E+02	3.896025E+02	4.092365E+02	4.681383E+02
6.426624E+02					
9.656680E+01	2.710909E+02	3.299928E+02	3.496267E+02	3.548625E+02	3.560841E+02
3.565204E+02	3.569899E+02	3.574594E+02	3.575641E+02	3.575851E+02	3.576060E+02
3.577107E+02	3.581802E+02	3.589114E+02	3.601331E+02	3.653252E+02	3.705173E+02
3.720880E+02	3.752556E+02	3.781614E+02	3.786850E+02	3.792958E+02	3.841825E+02
3.886329E+02	3.890692E+02	3.902909E+02	3.955266E+02	4.151606E+02	4.740624E+02
6.485865E+02					
9.768167E+01	2.722057E+02	3.311076E+02	3.507415E+02	3.559773E+02	3.571989E+02
3.576353E+02	3.581047E+02	3.585742E+02	3.586789E+02	3.586999E+02	3.587208E+02
3.588255E+02	3.592950E+02	3.600263E+02	3.612480E+02	3.664400E+02	3.716321E+02
3.732029E+02	3.763705E+02	3.792763E+02	3.797998E+02	3.804107E+02	3.852974E+02
3.897477E+02	3.901840E+02	3.914057E+02	3.966414E+02	4.162754E+02	4.751772E+02
6.497014E+02					
9.903186E+01	2.735559E+02	3.324578E+02	3.520918E+02	3.573275E+02	3.585491E+02
3.589854E+02	3.594549E+02	3.599244E+02	3.600291E+02	3.600501E+02	3.600710E+02
3.601757E+02	3.606452E+02	3.613765E+02	3.625981E+02	3.677902E+02	3.729823E+02
3.745530E+02	3.777206E+02	3.806265E+02	3.811501E+02	3.817609E+02	3.866476E+02
3.910979E+02	3.915342E+02	3.927559E+02	3.979916E+02	4.176256E+02	4.765274E+02
6.510515E+02					
1.003524E+02	2.748765E+02	3.337784E+02	3.534124E+02	3.586481E+02	3.598698E+02
3.603061E+02	3.607755E+02	3.612450E+02	3.613497E+02	3.613707E+02	3.613916E+02
3.614963E+02	3.619658E+02	3.626971E+02	3.639187E+02	3.691108E+02	3.743029E+02
3.758736E+02	3.790413E+02	3.819471E+02	3.824706E+02	3.830815E+02	3.879681E+02
3.924185E+02	3.928548E+02	3.940765E+02	3.993122E+02	4.189462E+02	4.778481E+02
6.523721E+02					
1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	3.611903E+02
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	3.627122E+02
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.729400E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					

4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.976363E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02					
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02					
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.357305E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02					
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.523779E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02					
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.652760E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02					
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.269166E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02					
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001555E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03					
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031031E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03					
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.038910E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03					

WELL DATA

0

DIRICHLET CONDITIONS

T 35

1	20	1	T	F	8.520000E+05	0.000000E+00
31	20	1	T	F	8.520000E+05	0.000000E+00
1	22	1	T	F	9.000000E+05	0.000000E+00
31	22	1	T	F	9.000000E+05	0.000000E+00
1	27	1	T	T	1.013250E+05	2.000000E-01
2	27	1	T	T	1.013250E+05	2.000000E-01
3	27	1	T	T	1.013250E+05	2.000000E-01
4	27	1	T	T	1.013250E+05	2.000000E-01
5	27	1	T	T	1.013250E+05	2.000000E-01
6	27	1	T	T	1.013250E+05	2.000000E-01
7	27	1	T	T	1.013250E+05	2.000000E-01
8	27	1	T	T	1.013250E+05	2.000000E-01

9	27	1	T	T	1.013250E+05	2.000000E-01
10	27	1	T	T	1.013250E+05	2.000000E-01
11	27	1	T	T	1.013250E+05	2.000000E-01
12	27	1	T	T	1.013250E+05	2.000000E-01
13	27	1	T	T	1.013250E+05	2.000000E-01
14	27	1	T	T	1.013250E+05	2.000000E-01
15	27	1	T	T	1.013250E+05	2.000000E-01
16	27	1	T	T	1.013250E+05	2.000000E-01
17	27	1	T	T	1.013250E+05	2.000000E-01
18	27	1	T	T	1.013250E+05	2.000000E-01
19	27	1	T	T	1.013250E+05	2.000000E-01
20	27	1	T	T	1.013250E+05	2.000000E-01
21	27	1	T	T	1.013250E+05	2.000000E-01
22	27	1	T	T	1.013250E+05	2.000000E-01
23	27	1	T	T	1.013250E+05	2.000000E-01
24	27	1	T	T	1.013250E+05	2.000000E-01
25	27	1	T	T	1.013250E+05	2.000000E-01
26	27	1	T	T	1.013250E+05	2.000000E-01
27	27	1	T	T	1.013250E+05	2.000000E-01
28	27	1	T	T	1.013250E+05	2.000000E-01
29	27	1	T	T	1.013250E+05	2.000000E-01
30	27	1	T	T	1.013250E+05	2.000000E-01
31	27	1	T	T	1.013250E+05	2.000000E-01

GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS

1.544225E+07	1.544225E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.544225E+07
1.544225E+07	1.514060E+07	1.514060E+07	1.514060E+07	1.514060E+07
1.514060E+07	1.514060E+07	1.514060E+07	1.514060E+07	1.514060E+07
1.514060E+07	1.514060E+07	1.514060E+07	1.514060E+07	1.514060E+07
1.514060E+07	1.514060E+07	1.514060E+07	1.514060E+07	1.514060E+07
1.514060E+07	1.514060E+07	1.514060E+07	1.514060E+07	1.514060E+07
1.514060E+07	1.514060E+07	1.514060E+07	1.514060E+07	1.514060E+07
1.514060E+07	1.514060E+07	1.514060E+07	1.514060E+07	1.514060E+07
1.514060E+07	1.514060E+07	1.514060E+07	1.514060E+07	1.514060E+07
1.741447E+07	1.531290E+07	1.460362E+07	1.436719E+07	1.430415E+07
1.428944E+07	1.428418E+07	1.427853E+07	1.427288E+07	1.427161E+07
1.427136E+07	1.427111E+07	1.426985E+07	1.426420E+07	1.425539E+07
1.424068E+07	1.417816E+07	1.411564E+07	1.409672E+07	1.405858E+07
1.402359E+07	1.401728E+07	1.400993E+07	1.395108E+07	1.389749E+07
1.389224E+07	1.387753E+07	1.381448E+07	1.357806E+07	1.286878E+07
1.076721E+07	1.627574E+07	1.417417E+07	1.346489E+07	1.322846E+07
1.315071E+07	1.315071E+07	1.314545E+07	1.313980E+07	1.313415E+07
1.313263E+07	1.313238E+07	1.313112E+07	1.312547E+07	1.311666E+07
1.310195E+07	1.303943E+07	1.297691E+07	1.295799E+07	1.291985E+07
1.288486E+07	1.287855E+07	1.287120E+07	1.281235E+07	1.275876E+07
1.275351E+07	1.273880E+07	1.267575E+07	1.243933E+07	1.173005E+07
9.628480E+06	1.590852E+07	1.380695E+07	1.309768E+07	1.286125E+07
1.278349E+07	1.278349E+07	1.277824E+07	1.277258E+07	1.276693E+07
1.276542E+07	1.276516E+07	1.276390E+07	1.275825E+07	1.274945E+07
1.273473E+07	1.267221E+07	1.260969E+07	1.259078E+07	1.255263E+07
1.251764E+07	1.251134E+07	1.250398E+07	1.244514E+07	1.239155E+07
1.238629E+07	1.237158E+07	1.230854E+07	1.207211E+07	1.136283E+07
9.261264E+06	1.583718E+07	1.373562E+07	1.302634E+07	1.278991E+07
1.271215E+07	1.271215E+07	1.270690E+07	1.270125E+07	1.269559E+07
1.269408E+07	1.269383E+07	1.269257E+07	1.268691E+07	1.267811E+07
1.266340E+07	1.260088E+07	1.253835E+07	1.251944E+07	1.248130E+07
1.244631E+07	1.244631E+07	1.243265E+07	1.237380E+07	1.232021E+07
1.231496E+07	1.230025E+07	1.223720E+07	1.200077E+07	1.129150E+07
9.189928E+06	1.582376E+07	1.372219E+07	1.301291E+07	1.277649E+07
1.269873E+07	1.269873E+07	1.269348E+07	1.268782E+07	1.268217E+07
1.268066E+07	1.268040E+07	1.267914E+07	1.267349E+07	1.266468E+07
1.264997E+07	1.258745E+07	1.252493E+07	1.250602E+07	1.246787E+07
1.243288E+07	1.243288E+07	1.241922E+07	1.236038E+07	1.230679E+07
1.230153E+07	1.228682E+07	1.222378E+07	1.198735E+07	1.127807E+07
9.176503E+06	1.580750E+07	1.370594E+07	1.299666E+07	1.276023E+07
1.268247E+07	1.267722E+07	1.267722E+07	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05

1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.229053E+07
1.228528E+07	1.227056E+07	1.220752E+07	1.197109E+07	1.126181E+07
9.160245E+06				
1.579160E+07	1.369003E+07	1.298075E+07	1.274433E+07	1.268128E+07
1.266657E+07	1.266132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.227463E+07
1.226937E+07	1.225466E+07	1.219161E+07	1.195519E+07	1.124591E+07
9.144342E+06				
1.577570E+07	1.367413E+07	1.296485E+07	1.272843E+07	1.266538E+07
1.265067E+07	1.264541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.225872E+07
1.225347E+07	1.223876E+07	1.217571E+07	1.193929E+07	1.123001E+07
9.128441E+06				
1.575199E+07	1.365042E+07	1.294114E+07	1.270472E+07	1.264167E+07
1.262696E+07	1.262170E+07	1.261605E+07	1.261040E+07	1.260914E+07
1.260888E+07	1.260863E+07	1.260737E+07	1.260172E+07	1.259291E+07
1.257820E+07	1.251568E+07	1.245316E+07	1.243424E+07	1.239610E+07
1.236111E+07	1.013250E+05	1.234745E+07	1.228860E+07	1.223502E+07
1.222976E+07	1.221505E+07	1.215200E+07	1.191558E+07	1.120630E+07
9.104732E+06				
1.573460E+07	1.363304E+07	1.292376E+07	1.268733E+07	1.262429E+07
1.260957E+07	1.260432E+07	1.259867E+07	1.259301E+07	1.259175E+07
1.259150E+07	1.259125E+07	1.258999E+07	1.258433E+07	1.257553E+07
1.256082E+07	1.249830E+07	1.243577E+07	1.241686E+07	1.237872E+07
1.234373E+07	1.013250E+05	1.233007E+07	1.227122E+07	1.221763E+07
1.221238E+07	1.219767E+07	1.213462E+07	1.189819E+07	1.118892E+07
9.087348E+06				
1.567844E+07	1.357687E+07	1.286759E+07	1.263117E+07	1.256812E+07
1.255341E+07	1.254815E+07	1.254250E+07	1.253685E+07	1.253559E+07
1.253533E+07	1.253508E+07	1.253382E+07	1.252817E+07	1.251936E+07
1.250465E+07	1.244213E+07	1.237961E+07	1.236069E+07	1.232255E+07
1.228756E+07	1.013250E+05	1.227390E+07	1.221506E+07	1.216147E+07
1.215621E+07	1.214150E+07	1.207845E+07	1.184203E+07	1.113275E+07
9.031182E+06				
1.562281E+07	1.352125E+07	1.281197E+07	1.257554E+07	1.251250E+07
1.249778E+07	1.249253E+07	1.248688E+07	1.248122E+07	1.247996E+07
1.247971E+07	1.247946E+07	1.247820E+07	1.247254E+07	1.246374E+07
1.244903E+07	1.238651E+07	1.232398E+07	1.230507E+07	1.226693E+07
1.223194E+07	1.013250E+05	1.221828E+07	1.215943E+07	1.210584E+07
1.210059E+07	1.208588E+07	1.202283E+07	1.178640E+07	1.107713E+07
8.975558E+06				
1.525463E+07	1.315307E+07	1.244379E+07	1.220736E+07	1.214432E+07
1.212961E+07	1.212435E+07	1.211870E+07	1.211304E+07	1.211178E+07
1.211153E+07	1.211128E+07	1.211002E+07	1.210437E+07	1.209556E+07
1.208085E+07	1.201833E+07	1.195580E+07	1.193689E+07	1.189875E+07
1.186376E+07	1.013250E+05	1.185010E+07	1.179125E+07	1.173766E+07
1.173241E+07	1.171770E+07	1.165465E+07	1.141822E+07	1.070895E+07
8.607379E+06				
1.393320E+07	1.183163E+07	1.112235E+07	1.088593E+07	1.082288E+07
1.080817E+07	1.080292E+07	1.079726E+07	1.079161E+07	1.079035E+07
1.079010E+07	1.078984E+07	1.078858E+07	1.078293E+07	1.077412E+07
1.075941E+07	1.069689E+07	1.063437E+07	1.061546E+07	1.057731E+07
1.054232E+07	1.013250E+05	1.052866E+07	1.046982E+07	1.041623E+07
1.041097E+07	1.039626E+07	1.033322E+07	1.009679E+07	9.387510E+06
7.285944E+06				
1.202452E+07	9.922952E+06	9.213673E+06	8.977247E+06	8.914200E+06
8.899489E+06	8.894235E+06	8.888582E+06	8.882928E+06	8.881667E+06
8.881415E+06	8.881163E+06	8.879902E+06	8.874249E+06	8.865443E+06
8.850732E+06	8.788211E+06	8.725689E+06	8.706775E+06	8.668632E+06
8.633641E+06	1.013250E+05	8.619980E+06	8.561136E+06	8.507546E+06
8.502292E+06	8.487582E+06	8.424535E+06	8.188108E+06	7.478830E+06
5.377264E+06				
1.103960E+07	8.938031E+06	8.228752E+06	7.992325E+06	7.929278E+06
7.914567E+06	7.909314E+06	7.903661E+06	7.898007E+06	7.896746E+06
7.896493E+06	7.896241E+06	7.894981E+06	7.889328E+06	7.880522E+06
7.865811E+06	7.803289E+06	7.740768E+06	7.721853E+06	7.683710E+06
7.648719E+06	1.013250E+05	7.635059E+06	7.576215E+06	7.522625E+06
7.517371E+06	7.502660E+06	7.439613E+06	7.203187E+06	6.493909E+06
4.392342E+06				
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06

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#      NAME
1      S_HALITE
2      DRZ_0
3      TRANS_0
4      S_MB139
5      S_ANH_AB
6      S_MB138
7      CAVITY_1
8      CAVITY_2
9      CAVITY_3
10     CAVITY_4
11     IMPERM_Z
12     CASTLER
13     WAS_AREA
14     REPOSIT
15     DRZ_1
16     UNNAMED
17     CULEBRA
18     TAMARI SK
19     MAGENTA
20     FORTYNIN
21     DEWYLAKE
22     SANTAROS
23     BACKFILL
24     EXP_AREA
25     SHFT_B_1
26     SHFT_B_2
27     SHFT_L_1
28     SHFT_L_2
29     SHFT_U_1
30     SHFT_U_2
31     SHFT_LS1
32     SHFT_LS2
33     SHFT_US1
34     SHFT_US2
35     PAN_S_1
36     PAN_S_2
37     BOREHOLE
38     TRANS_1
39     CAVITY_5
NWST
2
MAT_WASTE1  MAT_WASTE
7 8
13 14
NDRZ
0
NMATRESET
5
MATRESET
7 8 9 10 39
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000E+00 1
POWASTEIC
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
SOWASTEIC
0.000000E+00
0.000000E+00
0.000000E+00
0.250000E+00
0.200000E+00
PRESDRZ
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NBORERESSET

0

#	LAMBDA	SOR	SGR
1	4.275000E-01	5.505000E-01	2.855000E-01
2	4.275000E-01	0.000000E+00	0.000000E+00
3	4.275000E-01	0.000000E+00	0.000000E+00
4	1.780000E+00	1.512000E-01	1.826000E-01
5	1.780000E+00	1.512000E-01	1.826000E-01
6	1.780000E+00	1.512000E-01	1.826000E-01
7	7.000000E-01	0.000000E+00	0.000000E+00
8	7.000000E-01	0.000000E+00	0.000000E+00
9	7.000000E-01	0.000000E+00	0.000000E+00
10	7.000000E-01	0.000000E+00	0.000000E+00
11	1.000000E+00	0.000000E+00	0.000000E+00
12	7.000000E-01	2.000000E-01	2.000000E-01
13	6.179000E-01	8.712000E-03	3.158000E-01
14	6.179000E-01	8.712000E-03	3.158000E-01
15	4.275000E-01	0.000000E+00	0.000000E+00
16	7.000000E-01	2.000000E-01	2.000000E-01
17	7.000000E-01	2.000000E-01	2.000000E-01
18	7.000000E-01	2.000000E-01	2.000000E-01
19	7.000000E-01	2.000000E-01	2.000000E-01
20	7.000000E-01	2.000000E-01	2.000000E-01
21	7.000000E-01	2.000000E-01	2.000000E-01
22	7.000000E-01	2.000000E-01	2.000000E-01
23	7.000000E-01	0.000000E+00	0.000000E+00
24	7.000000E-01	0.000000E+00	0.000000E+00
25	7.000000E-01	2.000000E-01	2.000000E-01
26	7.000000E-01	2.000000E-01	2.000000E-01
27	7.000000E-01	2.000000E-01	2.000000E-01
28	7.000000E-01	2.000000E-01	2.000000E-01
29	7.000000E-01	2.000000E-01	2.000000E-01
30	7.000000E-01	2.000000E-01	2.000000E-01
31	7.000000E-01	2.000000E-01	2.000000E-01
32	7.000000E-01	2.000000E-01	2.000000E-01
33	7.000000E-01	2.000000E-01	2.000000E-01
34	7.000000E-01	2.000000E-01	2.000000E-01
35	7.000000E-01	2.000000E-01	2.000000E-01
36	7.000000E-01	2.000000E-01	2.000000E-01
37	7.000000E-01	2.000000E-01	0.000000E+00
38	4.275000E-01	0.000000E+00	0.000000E+00
39	7.000000E-01	0.000000E+00	0.000000E+00

#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP
1	5.780249E-01	1.013250E+05	1.000000E+08	1.200000E+07	0.000000E+00	1	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
4	1.587600E-01	1.013250E+05	1.000000E+08	3.655950E-02	-3.460000E-01	1	2	0
5	1.587600E-01	1.013250E+05	1.000000E+08	3.655950E-02	-3.460000E-01	1	2	0
6	1.587600E-01	1.013250E+05	1.000000E+08	3.655950E-02	-3.460000E-01	1	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	9.147600E-03	1.013250E+05	1.000000E+08	7.316242E-01	-3.460000E-01	4	4	0
14	9.147600E-03	1.013250E+05	1.000000E+08	7.316242E-01	-3.460000E-01	4	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	9.773004E+05	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	9.773004E+05	0.000000E+00	4	2	0

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34 2.100000E-01 1.013250E+05 1.000000E+08 7.946718E+03 0.000000E+00 4 2 0
35 2.100000E-01 1.013250E+05 1.000000E+08 5.600000E-01 -3.460000E-01 4 2 0
36 2.100000E-01 1.013250E+05 1.000000E+08 5.600000E-01 -3.460000E-01 4 2 0
37 2.100000E-01 1.013200E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
38 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 1 1 0
39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
# PERMX PERMY PERMZ POROSITY COMPRES
1 2.818388E-23 2.818388E-23 2.818388E-23 8.942000E-03 7.403806E-09
2 1.000000E-15 1.000000E-15 1.000000E-15 8.942000E-03 9.262047E-08
3 1.000000E-15 1.000000E-15 1.000000E-15 8.942000E-03 9.262047E-08
4 8.511386E-20 8.511386E-20 8.511386E-20 3.847000E-02 6.879723E-10
5 8.511386E-20 8.511386E-20 8.511386E-20 3.847000E-02 6.879723E-10
6 8.511386E-20 8.511386E-20 8.511386E-20 3.847000E-02 6.879723E-10
7 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
8 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
9 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00 5.000000E-03 0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11 5.200000E-03 1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12 8.810400E-01 1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12 8.810400E-01 1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15 8.942000E-03 9.262047E-08
16 0.000000E+00 0.000000E+00 0.000000E+00 2.000000E-01 0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13 1.460000E-01 1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00 2.000000E-01 0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16 9.000000E-02 2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00 2.000000E-01 0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16 1.500000E-01 6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10 1.750000E-01 5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
32 9.120089E-19 9.120089E-19 9.120089E-19 5.000000E-02 2.000000E-08
33 9.120089E-19 9.120089E-19 9.120089E-19 5.000000E-02 2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
37 1.000000E-14 1.000000E-14 1.000000E-14 3.700000E-01 0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15 8.942000E-03 9.262047E-08
39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
T
NFRAC
3
# DELTA_PI DELTA_PF FRAC_PHI FRAC_EXP IFRK IFRY IFRZ
4 1.730000E+06 2.500000E+06 4.847000E-02 1.008675E+02 1 1 0
5 1.730000E+06 2.500000E+06 4.847000E-02 1.008675E+02 1 1 0
6 1.730000E+06 2.500000E+06 4.847000E-02 1.008675E+02 1 1 0
KLINKENBERG EFFECT TO BE USED? True or False
T
BKLINK EXPKLINK
9.80000E-01 -3.30000E-01
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01320E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.80000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
```

NUMBER OF GAS COMPONENTS ACTUALLY USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
0.0000E+00 1.7129E-07 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0000E+00 1.0000E-01
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
1.0020E+00 0.0000E+00
1.0020E+00 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1.0144E+00 -1.9713E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.4000E+03 4.7000E+03 1.1000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.3700E+03 3.0500E+03 2.1700E+03
WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
MAT NO. MODEL 1= WASTE-FILLED, 2=BACKFILLED
1 13 4
2 14 4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL


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11 17 1 11 18 1 11 19 1 11 20 1 11 21 1 11 22 1
11 23 1 11 24 1 11 25 1 11 26 1 11 27 1 12 1 1
12 2 1 12 3 1 12 4 1 12 5 1 12 6 1 12 7 1
12 8 1 12 9 1 12 10 1 12 11 1 12 12 1 12 13 1
12 14 1 12 15 1 12 16 1 12 17 1 12 18 1 12 19 1
12 20 1 12 21 1 12 22 1 12 23 1 12 24 1 12 25 1
12 26 1 12 27 1

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32 69 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
8 11 1 9 11 1 10 11 1 11 11 1 12 11 1 13 11 1
14 11 1 8 8 1 9 8 1 10 8 1 11 8 1 12 8 1
13 8 1 14 8 1 16 11 1 17 11 1 18 11 1 16 8 1
17 8 1 18 8 1 22 6 1 22 7 1 22 8 1 22 9 1
22 10 1 22 11 1 22 12 1 22 13 1 22 14 1 22 15 1
22 16 1 22 17 1 22 18 1 22 19 1 22 20 1 22 21 1
22 22 1 22 23 1 22 24 1 22 25 1 22 26 1 22 27 1
11 1 1 11 2 1 11 3 1 11 4 1 11 5 1 11 6 1
11 7 1 11 8 1 11 9 1 11 10 1 11 11 1 11 12 1
11 13 1 11 14 1 11 15 1 11 16 1 11 17 1 11 18 1
11 19 1 11 20 1 11 21 1 11 22 1 11 23 1 11 24 1
11 25 1 11 26 1 11 27 1

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34 140 NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
8 6 1 8 12 1 8 14 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1
22 24 1 22 25 1 22 26 1 22 27 1 23 6 1 23 7 1
23 8 1 23 9 1 23 10 1 23 11 1 23 12 1 23 13 1
23 14 1 23 15 1 23 16 1 23 17 1 23 18 1 23 19 1
23 20 1 23 21 1 23 22 1 23 23 1 23 24 1 23 25 1
23 26 1 23 27 1 11 1 1 11 2 1 11 3 1 11 4 1
11 5 1 11 6 1 11 7 1 11 8 1 11 9 1 11 10 1
11 11 1 11 12 1 11 13 1 11 14 1 11 15 1 11 16 1
11 17 1 11 18 1 11 19 1 11 20 1 11 21 1 11 22 1
11 23 1 11 24 1 11 25 1 11 26 1 11 27 1 12 1 1
12 2 1 12 3 1 12 4 1 12 5 1 12 6 1 12 7 1
12 8 1 12 9 1 12 10 1 12 11 1 12 12 1 12 13 1
12 14 1 12 15 1 12 16 1 12 17 1 12 18 1 12 19 1
12 20 1 12 21 1 12 22 1 12 23 1 12 24 1 12 25 1
12 26 1 12 27 1

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35 69 NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
8 11 1 9 11 1 10 11 1 11 11 1 12 11 1 13 11 1
14 11 1 8 8 1 9 8 1 10 8 1 11 8 1 12 8 1
13 8 1 14 8 1 16 11 1 17 11 1 18 11 1 16 8 1
17 8 1 18 8 1 22 6 1 22 7 1 22 8 1 22 9 1
22 10 1 22 11 1 22 12 1 22 13 1 22 14 1 22 15 1
22 16 1 22 17 1 22 18 1 22 19 1 22 20 1 22 21 1
22 22 1 22 23 1 22 24 1 22 25 1 22 26 1 22 27 1
11 1 1 11 2 1 11 3 1 11 4 1 11 5 1 11 6 1
11 7 1 11 8 1 11 9 1 11 10 1 11 11 1 11 12 1
11 13 1 11 14 1 11 15 1 11 16 1 11 17 1 11 18 1
11 19 1 11 20 1 11 21 1 11 22 1 11 23 1 11 24 1
11 25 1 11 26 1 11 27 1

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MONITOR PARAMETER VALUES AT GRIDBLOCK(S)

T

NUMBER OF MONITOR BLOCKS

3

MONITOR BLOCKS (I,J,K)

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11 10 1
17 10 1
25 12 1

```

GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG

```

1 2 1 7

```

GRID DATA CARDS: GRID BLOCK DX'S

```

1.500000E+04 5.000000E+03 1.750000E+03 5.000000E+02 1.000000E+02 4.000000E+01
1.000000E+01 4.380000E+01 1.000000E+01 2.000000E+00 2.407879E-01 2.000000E+00
1.000000E+01 4.380000E+01 4.000000E+01 1.000000E+02 4.950000E+02 1.000000E+02
8.000000E+01 2.830000E+02 5.000000E+01 1.000000E+01 6.000000E+01 5.000000E+02
1.000000E+01 4.000000E+01 1.000000E+02 5.000000E+02 1.750000E+03 5.000000E+03
1.500000E+04

```

GRID DATA CARDS: GRID BLOCK DY'S

3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.194830E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02

1.570060E+07				
1.797447E+07	1.587290E+07	1.516362E+07	1.492719E+07	1.486415E+07
1.484944E+07	1.484418E+07	1.483853E+07	1.483288E+07	1.483161E+07
1.483136E+07	1.483111E+07	1.482985E+07	1.482420E+07	1.481539E+07
1.480068E+07	1.473816E+07	1.467564E+07	1.465672E+07	1.461858E+07
1.458359E+07	1.457728E+07	1.456993E+07	1.451108E+07	1.445749E+07
1.445224E+07	1.443753E+07	1.437448E+07	1.413806E+07	1.342878E+07
1.132721E+07				
1.683574E+07	1.473417E+07	1.402489E+07	1.378846E+07	1.372542E+07
1.371071E+07	1.370545E+07	1.369980E+07	1.369415E+07	1.369289E+07
1.369263E+07	1.369238E+07	1.369112E+07	1.368547E+07	1.367666E+07
1.366195E+07	1.359943E+07	1.353691E+07	1.351799E+07	1.347985E+07
1.344486E+07	1.343855E+07	1.343120E+07	1.337235E+07	1.331876E+07
1.331351E+07	1.329880E+07	1.323575E+07	1.299933E+07	1.229005E+07
1.018848E+07				
1.646852E+07	1.436695E+07	1.365768E+07	1.342125E+07	1.335820E+07
1.334349E+07	1.333824E+07	1.333258E+07	1.332693E+07	1.332567E+07
1.332542E+07	1.332516E+07	1.332390E+07	1.331825E+07	1.330945E+07
1.329473E+07	1.323221E+07	1.316969E+07	1.315078E+07	1.311263E+07
1.307764E+07	1.307134E+07	1.306398E+07	1.300514E+07	1.295155E+07
1.294629E+07	1.293158E+07	1.286854E+07	1.263211E+07	1.192283E+07
9.821265E+06				
1.639718E+07	1.429562E+07	1.358634E+07	1.334991E+07	1.328687E+07
1.327215E+07	1.326690E+07	1.326125E+07	1.325559E+07	1.325433E+07
1.325408E+07	1.325383E+07	1.325257E+07	1.324691E+07	1.323811E+07
1.322340E+07	1.316088E+07	1.309835E+07	1.307944E+07	1.304130E+07
1.300631E+07	1.013250E+05	1.299265E+07	1.293380E+07	1.288021E+07
1.287496E+07	1.286025E+07	1.279720E+07	1.256077E+07	1.185150E+07
9.749928E+06				
1.638376E+07	1.428219E+07	1.357291E+07	1.333649E+07	1.327344E+07
1.325873E+07	1.325348E+07	1.324782E+07	1.324217E+07	1.324091E+07
1.324066E+07	1.324040E+07	1.323914E+07	1.323349E+07	1.322468E+07
1.320997E+07	1.314745E+07	1.308493E+07	1.306602E+07	1.302787E+07
1.299288E+07	1.013250E+05	1.297922E+07	1.292038E+07	1.286679E+07
1.286153E+07	1.284682E+07	1.278378E+07	1.254735E+07	1.183807E+07
9.736503E+06				
1.636750E+07	1.426594E+07	1.355666E+07	1.332023E+07	1.325718E+07
1.324247E+07	1.323722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.285053E+07
1.284528E+07	1.283056E+07	1.276752E+07	1.253109E+07	1.182181E+07
9.720245E+06				
1.635160E+07	1.425003E+07	1.354075E+07	1.330433E+07	1.324128E+07
1.322657E+07	1.322132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.283463E+07
1.282937E+07	1.281466E+07	1.275161E+07	1.251519E+07	1.180591E+07
9.704342E+06				
1.633570E+07	1.423413E+07	1.352485E+07	1.328843E+07	1.322538E+07
1.321067E+07	1.320541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.281872E+07
1.281347E+07	1.279876E+07	1.273571E+07	1.249929E+07	1.179001E+07
9.688441E+06				
1.631199E+07	1.421042E+07	1.350114E+07	1.326472E+07	1.320167E+07
1.318696E+07	1.318170E+07	1.317605E+07	1.317040E+07	1.316914E+07
1.316888E+07	1.316863E+07	1.316737E+07	1.316172E+07	1.315291E+07
1.313820E+07	1.307568E+07	1.301316E+07	1.299424E+07	1.295610E+07
1.292111E+07	1.013250E+05	1.290745E+07	1.284860E+07	1.279502E+07
1.278976E+07	1.277505E+07	1.271200E+07	1.247558E+07	1.176630E+07
9.664732E+06				
1.629460E+07	1.419304E+07	1.348376E+07	1.324733E+07	1.318429E+07
1.316957E+07	1.316432E+07	1.315867E+07	1.315301E+07	1.315175E+07
1.315150E+07	1.315125E+07	1.314999E+07	1.314433E+07	1.313553E+07
1.312082E+07	1.305830E+07	1.299577E+07	1.297686E+07	1.293872E+07
1.290373E+07	1.013250E+05	1.289007E+07	1.283122E+07	1.277763E+07
1.277238E+07	1.275767E+07	1.269462E+07	1.245819E+07	1.174891E+07
9.647348E+06				
1.623844E+07	1.413687E+07	1.342759E+07	1.319117E+07	1.312812E+07
1.311341E+07	1.310815E+07	1.310250E+07	1.309685E+07	1.309559E+07
1.309533E+07	1.309508E+07	1.309382E+07	1.308817E+07	1.307936E+07
1.306465E+07	1.300213E+07	1.293961E+07	1.292069E+07	1.288255E+07
1.284756E+07	1.013250E+05	1.283390E+07	1.277506E+07	1.272147E+07

1.271621E+07	1.270150E+07	1.263845E+07	1.240203E+07	1.169275E+07
9.591182E+06				
1.618281E+07	1.408125E+07	1.337197E+07	1.313554E+07	1.307250E+07
1.305778E+07	1.305253E+07	1.304688E+07	1.304122E+07	1.303996E+07
1.303971E+07	1.303946E+07	1.303820E+07	1.303254E+07	1.302374E+07
1.300903E+07	1.294651E+07	1.288398E+07	1.286507E+07	1.282693E+07
1.279194E+07	1.013250E+05	1.277828E+07	1.271943E+07	1.266584E+07
1.266059E+07	1.264588E+07	1.258283E+07	1.234640E+07	1.163712E+07
9.535558E+06				
1.581463E+07	1.371307E+07	1.300379E+07	1.276736E+07	1.270432E+07
1.268961E+07	1.268435E+07	1.267870E+07	1.267304E+07	1.267178E+07
1.267153E+07	1.267128E+07	1.267002E+07	1.266437E+07	1.265556E+07
1.264085E+07	1.257833E+07	1.251580E+07	1.249689E+07	1.245875E+07
1.242376E+07	1.013250E+05	1.241010E+07	1.235125E+07	1.229766E+07
1.229241E+07	1.227770E+07	1.221465E+07	1.197822E+07	1.126895E+07
9.167379E+06				
1.449320E+07	1.239163E+07	1.168235E+07	1.144593E+07	1.138288E+07
1.136817E+07	1.136292E+07	1.135726E+07	1.135161E+07	1.135035E+07
1.135010E+07	1.134984E+07	1.134858E+07	1.134293E+07	1.133412E+07
1.131941E+07	1.125689E+07	1.119437E+07	1.117546E+07	1.113731E+07
1.110232E+07	1.013250E+05	1.108866E+07	1.102982E+07	1.097623E+07
1.097097E+07	1.095626E+07	1.089322E+07	1.065679E+07	9.947510E+06
7.845944E+06				
1.258452E+07	1.048295E+07	9.773674E+06	9.537248E+06	9.474200E+06
9.459489E+06	9.454235E+06	9.448582E+06	9.442928E+06	9.441667E+06
9.441415E+06	9.441163E+06	9.439902E+06	9.434249E+06	9.425443E+06
9.410732E+06	9.348211E+06	9.285689E+06	9.266775E+06	9.228632E+06
9.193641E+06	1.013250E+05	9.179980E+06	9.121136E+06	9.067546E+06
9.062292E+06	9.047582E+06	8.984535E+06	8.748108E+06	8.038830E+06
5.937264E+06				
1.159960E+07	9.498031E+06	8.788752E+06	8.552326E+06	8.489279E+06
8.474568E+06	8.469314E+06	8.463660E+06	8.458007E+06	8.456746E+06
8.456494E+06	8.456242E+06	8.454981E+06	8.449328E+06	8.440522E+06
8.425811E+06	8.363289E+06	8.300768E+06	8.281853E+06	8.243710E+06
8.208719E+06	1.013250E+05	8.195059E+06	8.136215E+06	8.082625E+06
8.077371E+06	8.062660E+06	7.999613E+06	7.763187E+06	7.053909E+06
4.952342E+06				
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
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2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
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8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
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8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
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1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.013250E+05	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
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9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	1.013250E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
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1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.013250E+05	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
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7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05
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7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05
7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05


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30 SHFT_U_2
31 SHFT_LS1
32 SHFT_LS2
33 SHFT_US1
34 SHFT_US2
35 PAN_S_1
36 PAN_S_2
37 BOREHOLE
38 TRANS_1
39 CAVITY_5
NWST
2
MAT_WASTE1 MAT_WASTE
7 8
13 14
NDRZ
0
NMATRESET
5
MATRESET
7 8 9 10 39
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000E+00 1
POWASTEIC
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
SOWASTEIC
0.000000E+00
0.000000E+00
0.000000E+00
0.250000E+00
0.200000E+00
PRESDRZ

NBORERESSET
0
# LAMBDA SOR SGR
1 2.832000E-01 3.819000E-01 2.395000E-01
2 2.832000E-01 0.000000E+00 0.000000E+00
3 2.832000E-01 0.000000E+00 0.000000E+00
4 7.425000E+00 5.074000E-02 8.257000E-02
5 7.425000E+00 5.074000E-02 8.257000E-02
6 7.425000E+00 5.074000E-02 8.257000E-02
7 7.000000E-01 0.000000E+00 0.000000E+00
8 7.000000E-01 0.000000E+00 0.000000E+00
9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 3.681000E-01 2.927000E-01 1.087000E-01
14 3.681000E-01 2.927000E-01 1.087000E-01
15 2.832000E-01 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
28 7.000000E-01 2.000000E-01 2.000000E-01
29 7.000000E-01 2.000000E-01 2.000000E-01
30 7.000000E-01 2.000000E-01 2.000000E-01
31 7.000000E-01 2.000000E-01 2.000000E-01
32 7.000000E-01 2.000000E-01 2.000000E-01
33 7.000000E-01 2.000000E-01 2.000000E-01
34 7.000000E-01 2.000000E-01 2.000000E-01
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31 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
32 2.454706E-19 2.454706E-19 2.454706E-19 5.000000E-02 2.000000E-08
33 2.454706E-19 2.454706E-19 2.454706E-19 5.000000E-02 2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
37 1.659588E-13 1.659588E-13 1.659588E-13 3.700000E-01 0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15 2.256000E-02 3.656062E-08
39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
T
NFRAC
3
DELTA_PI DELTA_PF FRAC_PHI FRAC_EXP IFRX IFRY IFRZ
4 1.390000E+06 2.500000E+06 4.968000E-02 8.973829E+01 1 1 0
5 1.390000E+06 2.500000E+06 4.968000E-02 8.973829E+01 1 1 0
6 1.390000E+06 2.500000E+06 4.968000E-02 8.973829E+01 1 1 0
KLINKENBERG EFFECT TO BE USED? True or False
T
BKLINK EXPKLINK
9.80000E-01 -3.30000E-01
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01320E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.80000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
-0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
0.0000E+00 7.6923E-08 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0000E+00 1.0000E-01
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
1.1100E+00 0.0000E+00
1.1100E+00 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN

```
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1.3081E+00 -1.3838E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
# MAT NO. MODEL 1= WASTE-FILLED, 2=BACKFILLED
1 13 4
2 14 4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST7_V008.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
2 31 27 1
TSTART, TMAX, MAXSTEPS
-1.5779E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
8.6400E+00 8.6400E-04 1.7280E+09 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
3
0.0000E+00 8.6400E+02
3.1666E+09 8.6400E+02
3.1666E+10 8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
2 0 2 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
2
USER REQUESTED PRINTOUT TIMES
0.0000E+00 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
1
USER REQUESTED RESTART TIMES
3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

```
0 0 0 0 0 0 0
BINARY PRINT FLAGS
1 1 0 0 0 1 0 0 0 1 0 0 0 1 0 1 0 0 0 0 0 0
0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
HISTORY VARIABLE OUTPUT
8
1 4 NAME=BRINE PRESSURE
11 8 1 17 8 1 11 1 1 22 6 1
2 1 NAME=GAS PRESSURE
22 12 1
10 6 NAME=GAS DENSITY
7 6 1 7 12 1 7 14 1 25 6 1 25 12 1 25 14 1
18 30 NAME=GAS SATURATION
8 8 1 9 8 1 10 8 1 11 8 1 12 8 1 13 8 1
14 8 1 8 9 1 9 9 1 10 9 1 11 9 1 12 9 1
13 9 1 14 9 1 8 10 1 9 10 1 10 10 1 11 10 1
12 10 1 13 10 1 14 10 1 16 8 1 17 8 1 18 8 1
16 9 1 17 9 1 18 9 1 16 10 1 17 10 1 18 10 1
31 140 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1
22 24 1 22 25 1 22 26 1 22 27 1 23 6 1 23 7 1
23 8 1 23 9 1 23 10 1 23 11 1 23 12 1 23 13 1
23 14 1 23 15 1 23 16 1 23 17 1 23 18 1 23 19 1
23 20 1 23 21 1 23 22 1 23 23 1 23 24 1 23 25 1
23 26 1 23 27 1 11 1 1 11 2 1 11 3 1 11 4 1
11 5 1 11 6 1 11 7 1 11 8 1 11 9 1 11 10 1
11 11 1 11 12 1 11 13 1 11 14 1 11 15 1 11 16 1
11 17 1 11 18 1 11 19 1 11 20 1 11 21 1 11 22 1
11 23 1 11 24 1 11 25 1 11 26 1 11 27 1 12 1 1
12 2 1 12 3 1 12 4 1 12 5 1 12 6 1 12 7 1
12 8 1 12 9 1 12 10 1 12 11 1 12 12 1 12 13 1
12 14 1 12 15 1 12 16 1 12 17 1 12 18 1 12 19 1
12 20 1 12 21 1 12 22 1 12 23 1 12 24 1 12 25 1
12 26 1 12 27 1
32 69 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
8 11 1 9 11 1 10 11 1 11 11 1 12 11 1 13 11 1
14 11 1 8 8 1 9 8 1 10 8 1 11 8 1 12 8 1
13 8 1 14 8 1 16 11 1 17 11 1 18 11 1 16 8 1
17 8 1 18 8 1 22 6 1 22 7 1 22 8 1 22 9 1
22 10 1 22 11 1 22 12 1 22 13 1 22 14 1 22 15 1
22 16 1 22 17 1 22 18 1 22 19 1 22 20 1 22 21 1
22 22 1 22 23 1 22 24 1 22 25 1 22 26 1 22 27 1
11 1 1 11 2 1 11 3 1 11 4 1 11 5 1 11 6 1
11 7 1 11 8 1 11 9 1 11 10 1 11 11 1 11 12 1
11 13 1 11 14 1 11 15 1 11 16 1 11 17 1 11 18 1
11 19 1 11 20 1 11 21 1 11 22 1 11 23 1 11 24 1
11 25 1 11 26 1 11 27 1
34 140 NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1
22 24 1 22 25 1 22 26 1 22 27 1 23 6 1 23 7 1
23 8 1 23 9 1 23 10 1 23 11 1 23 12 1 23 13 1
23 14 1 23 15 1 23 16 1 23 17 1 23 18 1 23 19 1
23 20 1 23 21 1 23 22 1 23 23 1 23 24 1 23 25 1
23 26 1 23 27 1 11 1 1 11 2 1 11 3 1 11 4 1
11 5 1 11 6 1 11 7 1 11 8 1 11 9 1 11 10 1
```

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11 11 1 11 12 1 11 13 1 11 14 1 11 15 1 11 16 1
11 17 1 11 18 1 11 19 1 11 20 1 11 21 1 11 22 1
11 23 1 11 24 1 11 25 1 11 26 1 11 27 1 12 1 1
12 2 1 12 3 1 12 4 1 12 5 1 12 6 1 12 7 1
12 8 1 12 9 1 12 10 1 12 11 1 12 12 1 12 13 1
12 14 1 12 15 1 12 16 1 12 17 1 12 18 1 12 19 1
12 20 1 12 21 1 12 22 1 12 23 1 12 24 1 12 25 1
12 26 1 12 27 1
      35 69 NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11 1 9 11 1 10 11 1 11 11 1 12 11 1 13 11 1
14 11 1 8 8 1 9 8 1 10 8 1 11 8 1 12 8 1
13 8 1 14 8 1 16 11 1 17 11 1 18 11 1 16 8 1
17 8 1 18 8 1 22 6 1 22 7 1 22 8 1 22 9 1
22 10 1 22 11 1 22 12 1 22 13 1 22 14 1 22 15 1
22 16 1 22 17 1 22 18 1 22 19 1 22 20 1 22 21 1
22 22 1 22 23 1 22 24 1 22 25 1 22 26 1 22 27 1
11 1 1 11 2 1 11 3 1 11 4 1 11 5 1 11 6 1
11 7 1 11 8 1 11 9 1 11 10 1 11 11 1 11 12 1
11 13 1 11 14 1 11 15 1 11 16 1 11 17 1 11 18 1
11 19 1 11 20 1 11 21 1 11 22 1 11 23 1 11 24 1
11 25 1 11 26 1 11 27 1

```

MONITOR PARAMETER VALUES AT GRIDBLOCK(S)

T

NUMBER OF MONITOR BLOCKS

3

MONITOR BLOCKS (I,J,K)

```

11 10 1
17 10 1
25 12 1

```

GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG

```

1 2 1 7

```

GRID DATA CARDS: GRID BLOCK DX'S

```

1.500000E+04 5.000000E+03 1.750000E+03 5.000000E+02 1.000000E+02 4.000000E+01
1.000000E+01 4.380000E+01 1.000000E+01 2.000000E+00 3.911805E-01 2.000000E+00
1.000000E+01 4.380000E+01 4.000000E+01 1.000000E+02 4.950000E+02 1.000000E+02
8.000000E+01 2.830000E+02 5.000000E+01 1.000000E+01 6.000000E+01 5.000000E+02
1.000000E+01 4.000000E+01 1.000000E+02 5.000000E+02 1.750000E+03 5.000000E+03
1.500000E+04

```

GRID DATA CARDS: GRID BLOCK DY'S

```

2.728000E+00 4.737200E+01 1.391600E+02 5.000000E+01 1.100000E+01 8.500000E-01
1.380000E+00 1.320800E+00 1.320800E+00 1.320800E+00 2.617600E+00 2.700000E-01
9.060000E+00 1.800000E-01 6.098000E+01 1.585300E+02 1.585300E+02 5.080000E+00
3.600000E+01 7.700000E+00 2.480000E+01 8.500000E+00 1.730000E+01 1.060000E+02
4.330000E+01 1.566000E+01 1.000000E-01

```

GRID DATA CARDS: GRID BLOCK DZ'S

```

6.131430E+04 2.131430E+04 7.814300E+03 3.314300E+03 2.114300E+03 1.834300E+03
1.734300E+03 1.262000E+02 2.880000E+01 4.800000E+00 3.911805E-01 4.800000E+00
2.880000E+01 1.262000E+02 1.000000E+01 1.323000E+02 1.435000E+02 1.416000E+02
1.890000E+01 1.890000E+01 1.890000E+01 9.500000E+00 2.050000E+01 5.310000E+01
1.258900E+03 1.458900E+03 2.018900E+03 3.928000E+03 8.226900E+03 2.172690E+04
6.172690E+04

```

GRID BLOCK ELEVATIONS

```

1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02
-3.441824E+01 1.401058E+02 1.990077E+02 2.186417E+02 2.238774E+02 2.250991E+02
2.255354E+02 2.260048E+02 2.264743E+02 2.265790E+02 2.266000E+02 2.266209E+02
2.267256E+02 2.271951E+02 2.279264E+02 2.291480E+02 2.343401E+02 2.395322E+02
2.411029E+02 2.442706E+02 2.471764E+02 2.477000E+02 2.483108E+02 2.531975E+02
2.576478E+02 2.580841E+02 2.593058E+02 2.645415E+02 2.841755E+02 3.430774E+02
5.176014E+02
6.014737E+01 2.346714E+02 2.935733E+02 3.132073E+02 3.184430E+02 3.196646E+02
3.201010E+02 3.205704E+02 3.210399E+02 3.211446E+02 3.211656E+02 3.211865E+02
3.212912E+02 3.217607E+02 3.224920E+02 3.237137E+02 3.289057E+02 3.340978E+02
3.356685E+02 3.388362E+02 3.417420E+02 3.422656E+02 3.428764E+02 3.477631E+02
3.522134E+02 3.526497E+02 3.538714E+02 3.591071E+02 3.787411E+02 4.376429E+02
6.121671E+02

```


9.064270E+01	2.651668E+02	3.240687E+02	3.437026E+02	3.489384E+02	3.501600E+02
3.505963E+02	3.510658E+02	3.515353E+02	3.516400E+02	3.516609E+02	3.516819E+02
3.517866E+02	3.522561E+02	3.529873E+02	3.542090E+02	3.594011E+02	3.645932E+02
3.661639E+02	3.693315E+02	3.722373E+02	3.727609E+02	3.733717E+02	3.782584E+02
3.827088E+02	3.831451E+02	3.843668E+02	3.896025E+02	4.092365E+02	4.681383E+02
6.426624E+02					
9.656680E+01	2.710909E+02	3.299928E+02	3.496267E+02	3.548625E+02	3.560841E+02
3.565204E+02	3.569899E+02	3.574594E+02	3.575641E+02	3.575851E+02	3.576060E+02
3.577107E+02	3.581802E+02	3.589114E+02	3.601331E+02	3.653252E+02	3.705173E+02
3.720880E+02	3.752556E+02	3.781614E+02	3.786850E+02	3.792958E+02	3.841825E+02
3.886329E+02	3.890692E+02	3.902909E+02	3.955266E+02	4.151606E+02	4.740624E+02
6.485865E+02					
9.768167E+01	2.722057E+02	3.311076E+02	3.507415E+02	3.559773E+02	3.571989E+02
3.576353E+02	3.581047E+02	3.585742E+02	3.586789E+02	3.586999E+02	3.587208E+02
3.588255E+02	3.592950E+02	3.600263E+02	3.612480E+02	3.664400E+02	3.716321E+02
3.732029E+02	3.763705E+02	3.792763E+02	3.797998E+02	3.804107E+02	3.852974E+02
3.897477E+02	3.901840E+02	3.914057E+02	3.966414E+02	4.162754E+02	4.751772E+02
6.497014E+02					
9.903186E+01	2.735559E+02	3.324578E+02	3.520918E+02	3.573275E+02	3.585491E+02
3.589854E+02	3.594549E+02	3.599244E+02	3.600291E+02	3.600501E+02	3.600710E+02
3.601757E+02	3.606452E+02	3.613765E+02	3.625981E+02	3.677902E+02	3.729823E+02
3.745530E+02	3.777206E+02	3.806265E+02	3.811501E+02	3.817609E+02	3.866476E+02
3.910979E+02	3.915342E+02	3.927559E+02	3.979916E+02	4.176256E+02	4.765274E+02
6.510515E+02					
1.003524E+02	2.748765E+02	3.337784E+02	3.534124E+02	3.586481E+02	3.598698E+02
3.603061E+02	3.607755E+02	3.612450E+02	3.613497E+02	3.613707E+02	3.613916E+02
3.614963E+02	3.619658E+02	3.626971E+02	3.639187E+02	3.691108E+02	3.743029E+02
3.758736E+02	3.790413E+02	3.819471E+02	3.824706E+02	3.830815E+02	3.879681E+02
3.924185E+02	3.928548E+02	3.940765E+02	3.993122E+02	4.189462E+02	4.778481E+02
6.523721E+02					
1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	3.611903E+02
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	3.627122E+02
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02

7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.976363E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02					
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.194830E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02					
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.357305E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02					
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02					
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.652760E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02					
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.269166E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02					
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001555E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03					
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031031E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03					
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.038910E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03					

WELL DATA

0

DIRICHLET CONDITIONS

T

1	20	1	T	F	8.520000E+05	0.000000E+00
31	20	1	T	F	8.520000E+05	0.000000E+00
1	22	1	T	F	9.000000E+05	0.000000E+00
31	22	1	T	F	9.000000E+05	0.000000E+00
1	27	1	T	T	1.013250E+05	2.000000E-01
2	27	1	T	T	1.013250E+05	2.000000E-01
3	27	1	T	T	1.013250E+05	2.000000E-01
4	27	1	T	T	1.013250E+05	2.000000E-01
5	27	1	T	T	1.013250E+05	2.000000E-01
6	27	1	T	T	1.013250E+05	2.000000E-01

1.296247E+07	1.295722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.257053E+07
1.256528E+07	1.255056E+07	1.248752E+07	1.225109E+07	1.154181E+07
9.440245E+06				
1.607160E+07	1.397003E+07	1.326075E+07	1.302433E+07	1.296128E+07
1.294657E+07	1.294132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.255463E+07
1.254937E+07	1.253466E+07	1.247161E+07	1.223519E+07	1.152591E+07
9.424342E+06				
1.605570E+07	1.395413E+07	1.324485E+07	1.300843E+07	1.294538E+07
1.293067E+07	1.292541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.253872E+07
1.253347E+07	1.251876E+07	1.245571E+07	1.221929E+07	1.151001E+07
9.408441E+06				
1.603199E+07	1.393042E+07	1.322114E+07	1.298472E+07	1.292167E+07
1.290696E+07	1.290170E+07	1.289605E+07	1.289040E+07	1.288914E+07
1.288888E+07	1.288863E+07	1.288737E+07	1.288172E+07	1.287291E+07
1.285820E+07	1.279568E+07	1.273316E+07	1.271424E+07	1.267610E+07
1.264111E+07	1.013250E+05	1.262745E+07	1.256860E+07	1.251502E+07
1.250976E+07	1.249505E+07	1.243200E+07	1.219558E+07	1.148630E+07
9.384732E+06				
1.601460E+07	1.391304E+07	1.320376E+07	1.296733E+07	1.290429E+07
1.288957E+07	1.288432E+07	1.287867E+07	1.287301E+07	1.287175E+07
1.287150E+07	1.287125E+07	1.286999E+07	1.286433E+07	1.285553E+07
1.284082E+07	1.277830E+07	1.271577E+07	1.269686E+07	1.265872E+07
1.262373E+07	1.013250E+05	1.261007E+07	1.255122E+07	1.249763E+07
1.249238E+07	1.247767E+07	1.241462E+07	1.217819E+07	1.146891E+07
9.367348E+06				
1.595844E+07	1.385687E+07	1.314759E+07	1.291117E+07	1.284812E+07
1.283341E+07	1.282815E+07	1.282250E+07	1.281685E+07	1.281559E+07
1.281533E+07	1.281508E+07	1.281382E+07	1.280817E+07	1.279936E+07
1.278465E+07	1.272213E+07	1.265961E+07	1.264069E+07	1.260255E+07
1.256756E+07	1.013250E+05	1.255390E+07	1.249506E+07	1.244147E+07
1.243621E+07	1.242150E+07	1.235845E+07	1.212203E+07	1.141275E+07
9.311182E+06				
1.590281E+07	1.380125E+07	1.309197E+07	1.285554E+07	1.279250E+07
1.277778E+07	1.277253E+07	1.276688E+07	1.276122E+07	1.275996E+07
1.275971E+07	1.275946E+07	1.275820E+07	1.275254E+07	1.274374E+07
1.272903E+07	1.266651E+07	1.260398E+07	1.258507E+07	1.254693E+07
1.251194E+07	1.013250E+05	1.249828E+07	1.243943E+07	1.238584E+07
1.238059E+07	1.236588E+07	1.230283E+07	1.206640E+07	1.135713E+07
9.255558E+06				
1.553463E+07	1.343307E+07	1.272379E+07	1.248736E+07	1.242432E+07
1.240961E+07	1.240435E+07	1.239870E+07	1.239304E+07	1.239178E+07
1.239153E+07	1.239128E+07	1.239002E+07	1.238437E+07	1.237556E+07
1.236085E+07	1.229833E+07	1.223580E+07	1.221689E+07	1.217875E+07
1.214376E+07	1.013250E+05	1.213010E+07	1.207125E+07	1.201766E+07
1.201241E+07	1.199770E+07	1.193465E+07	1.169822E+07	1.098895E+07
8.887379E+06				
1.421320E+07	1.211163E+07	1.140235E+07	1.116593E+07	1.110288E+07
1.108817E+07	1.108292E+07	1.107726E+07	1.107161E+07	1.107035E+07
1.107010E+07	1.106984E+07	1.106858E+07	1.106293E+07	1.105412E+07
1.103941E+07	1.097689E+07	1.091437E+07	1.089546E+07	1.085731E+07
1.082232E+07	1.013250E+05	1.080866E+07	1.074982E+07	1.069623E+07
1.069097E+07	1.067626E+07	1.061322E+07	1.037679E+07	9.667510E+06
7.565944E+06				
1.230452E+07	1.020295E+07	9.493674E+06	9.257247E+06	9.194200E+06
9.179489E+06	9.174235E+06	9.168582E+06	9.162928E+06	9.161667E+06
9.161415E+06	9.161163E+06	9.159902E+06	9.154249E+06	9.145443E+06
9.130732E+06	9.068211E+06	9.005689E+06	8.986775E+06	8.948632E+06
8.913641E+06	1.013250E+05	8.899980E+06	8.841136E+06	8.787546E+06
8.782292E+06	8.767582E+06	8.704535E+06	8.468108E+06	7.758830E+06
5.657264E+06				
1.131960E+07	9.218031E+06	8.508751E+06	8.272325E+06	8.209278E+06
8.194567E+06	8.189314E+06	8.183661E+06	8.178007E+06	8.176746E+06
8.176493E+06	8.176241E+06	8.174991E+06	8.169328E+06	8.160522E+06
8.145811E+06	8.083289E+06	8.020768E+06	8.001853E+06	7.963710E+06
7.928719E+06	1.013250E+05	7.915059E+06	7.856215E+06	7.802625E+06
7.797371E+06	7.782660E+06	7.719613E+06	7.483187E+06	6.773909E+06
4.672342E+06				

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NAME
1 S_HALITE
2 DRZ_0
3 TRANS_0
4 S_MB139
5 S_ANH_AB
6 S_MB138
7 CAVITY_1
8 CAVITY_2
9 CAVITY_3
10 CAVITY_4
11 IMPERM_Z
12 CASTLER
13 WAS_AREA
14 REPOSIT
15 DRZ_1
16 UNNAMED
17 CULEBRA
18 TAMARISK
19 MAGENTA
20 FORTYNIN
21 DEWYLAKE
22 SANTAROS
23 BACKFILL
24 EXP_AREA
25 SHFT_B_1
26 SHFT_B_2
27 SHFT_L_1
28 SHFT_L_2
29 SHFT_U_1
30 SHFT_U_2
31 SHFT_LS1
32 SHFT_LS2
33 SHFT_US1
34 SHFT_US2
35 PAN_S_1
36 PAN_S_2
37 BOREHOLE
38 TRANS_1
39 CAVITY_5
NWST
2
MAT_WASTE1 MAT_WASTE
7 8
13 14
NDRZ
0
NMATRESET
5
MATRESET
7 8 9 10 39
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000E+00 1
POWASTEIC
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
SOWASTEIC
0.000000E+00
0.000000E+00
0.000000E+00
0.250000E+00
0.200000E+00

PRESRZ

NBORERESET

0

#	LAMBDA	SOR	SGR							
1	5.044000E-01	3.122000E-01	3.253000E-01							
2	5.044000E-01	0.000000E+00	0.000000E+00							
3	5.044000E-01	0.000000E+00	0.000000E+00							
4	3.763000E-01	7.613000E-02	2.845000E-01							
5	3.763000E-01	7.613000E-02	2.845000E-01							
6	3.763000E-01	7.613000E-02	2.845000E-01							
7	7.000000E-01	0.000000E+00	0.000000E+00							
8	7.000000E-01	0.000000E+00	0.000000E+00							
9	7.000000E-01	0.000000E+00	0.000000E+00							
10	7.000000E-01	0.000000E+00	0.000000E+00							
11	1.000000E+00	0.000000E+00	0.000000E+00							
12	7.000000E-01	2.000000E-01	2.000000E-01							
13	5.635000E-01	4.057000E-02	2.434000E-02							
14	5.635000E-01	4.057000E-02	2.434000E-02							
15	5.044000E-01	0.000000E+00	0.000000E+00							
16	7.000000E-01	2.000000E-01	2.000000E-01							
17	7.000000E-01	2.000000E-01	2.000000E-01							
18	7.000000E-01	2.000000E-01	2.000000E-01							
19	7.000000E-01	2.000000E-01	2.000000E-01							
20	7.000000E-01	2.000000E-01	2.000000E-01							
21	7.000000E-01	2.000000E-01	2.000000E-01							
22	7.000000E-01	2.000000E-01	2.000000E-01							
23	7.000000E-01	0.000000E+00	0.000000E+00							
24	7.000000E-01	0.000000E+00	0.000000E+00							
25	7.000000E-01	2.000000E-01	2.000000E-01							
26	7.000000E-01	2.000000E-01	2.000000E-01							
27	7.000000E-01	2.000000E-01	2.000000E-01							
28	7.000000E-01	2.000000E-01	2.000000E-01							
29	7.000000E-01	2.000000E-01	2.000000E-01							
30	7.000000E-01	2.000000E-01	2.000000E-01							
31	7.000000E-01	2.000000E-01	2.000000E-01							
32	7.000000E-01	2.000000E-01	2.000000E-01							
33	7.000000E-01	2.000000E-01	2.000000E-01							
34	7.000000E-01	2.000000E-01	2.000000E-01							
35	7.000000E-01	2.000000E-01	2.000000E-01							
36	7.000000E-01	2.000000E-01	2.000000E-01							
37	7.000000E-01	2.000000E-01	0.000000E+00							
38	5.044000E-01	0.000000E+00	0.000000E+00							
39	7.000000E-01	0.000000E+00	0.000000E+00							
#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP		
1	3.278100E-01	1.013250E+05	1.000000E+08	5.348000E+06	0.000000E+00	1	2	0		
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0		
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0		
4	7.993650E-02	1.013250E+05	1.000000E+08	1.520548E-02	-3.460000E-01	1	2	0		
5	7.993650E-02	1.013250E+05	1.000000E+08	1.520548E-02	-3.460000E-01	1	2	0		
6	7.993650E-02	1.013250E+05	1.000000E+08	1.520548E-02	-3.460000E-01	1	2	0		
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0		
13	4.259850E-02	1.013250E+05	1.000000E+08	4.279451E-01	-3.460000E-01	4	4	0		
14	4.259850E-02	1.013250E+05	1.000000E+08	4.279451E-01	-3.460000E-01	4	4	0		
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0		
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0		
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0		
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0		
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0		
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0		
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0		
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0		

32	2.100000E-01	1.013250E+05	1.000000E+08	2.775540E+05	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	2.775540E+05	0.000000E+00	4	2	0
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
#	PERMX	PERMY	PERMZ	POROSITY	COMPRES			
1	1.584896E-21	1.584896E-21	1.584896E-21	5.540000E-03	1.252958E-07			
2	1.000000E-15	1.000000E-15	1.000000E-15	5.540000E-03	1.496503E-07			
3	1.000000E-15	1.000000E-15	1.000000E-15	5.540000E-03	1.496503E-07			
4	2.691537E-19	2.691537E-19	2.691537E-19	1.438000E-02	5.867210E-09			
5	2.691537E-19	2.691537E-19	2.691537E-19	1.438000E-02	5.867210E-09			
6	2.691537E-19	2.691537E-19	2.691537E-19	1.438000E-02	5.867210E-09			
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00			
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00			
9	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00			
10	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00			
11	0.000000E+00	0.000000E+00	0.000000E+00	5.000000E-03	0.000000E+00			
12	1.330453E-11	1.330453E-11	1.330453E-11	5.200000E-03	1.923077E-07			
13	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09			
14	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09			
15	1.000000E-15	1.000000E-15	1.000000E-15	5.540000E-03	1.496503E-07			
16	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00			
17	2.648502E-13	2.648502E-13	2.648502E-13	1.460000E-01	1.417160E-09			
18	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00			
19	1.096478E-16	1.096478E-16	1.096478E-16	9.000000E-02	2.199962E-09			
20	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00			
21	9.332549E-16	9.332549E-16	9.332549E-16	1.500000E-01	6.666667E-08			
22	1.000000E-10	1.000000E-10	1.000000E-10	1.750000E-01	5.714286E-08			
23	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00			
24	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00			
25	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08			
26	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08			
27	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08			
28	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08			
29	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09			
30	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09			
31	1.000000E-12	1.000000E-12	1.000000E-12	5.000000E-02	2.000000E-08			
32	3.467376E-17	3.467376E-17	3.467376E-17	5.000000E-02	2.000000E-08			
33	3.467376E-17	3.467376E-17	3.467376E-17	5.000000E-02	2.000000E-08			
34	1.000000E-12	1.000000E-12	1.000000E-12	5.000000E-02	2.000000E-08			
35	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08			
36	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08			
37	1.548815E-12	1.548815E-12	1.548815E-12	3.700000E-01	0.000000E+00			
38	1.000000E-15	1.000000E-15	1.000000E-15	5.540000E-03	1.496503E-07			
39	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00			
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12								
	1.000000E-02	1.000000E-03						
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL								
0								
FRACTURE MODEL DATA TO FOLLOW :T OR F								
T								
NFRAC								
3								
#	DELTA_PI	DELTA_PF	FRAC_PHI	FRAC_EXP	IFRX	IFRY	IFRZ	
4	1.260000E+06	2.500000E+06	2.438000E-02	4.233310E+01	1	1	0	
5	1.260000E+06	2.500000E+06	2.438000E-02	4.233310E+01	1	1	0	
6	1.260000E+06	2.500000E+06	2.438000E-02	4.233310E+01	1	1	0	
KLINKENBERG EFFECT TO BE USED? True or False								
T								
BKLINK								
EXPKLINK								
9.800000E-01 -3.300000E-01								
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R								
9.79D+00 8.314510D+00								
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS								
3.00150E+02 1.01320E+05								
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O								
2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03								
VISC_BR VISC_GAS								
1.80000E-03 8.92000E-06								
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE								
1								
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2								
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00								

GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.0000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
1.8407E-08 0.0000E+00 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0000E+00 0.0000E+00
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
1.5450E+00 0.0000E+00
1.5450E+00 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1.0924E+00 -1.8152E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
MAT NO. MODEL 1= WASTE-FILLED, 2=BACKFILLED
1 13 4
2 14 4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F

F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F

BF2_QB0600_TEST7_V009.INP

1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
2 31 27 1
TSTART, TMAX, MAXSTEPS
-1.5779E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
8.6400E+00 8.6400E-04 1.7280E+09 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
3
0.0000E+00 8.6400E+02
3.1666E+09 8.6400E+02
3.1666E+10 8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPEST UNITSI UNITSO
2 0 2 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
2
USER REQUESTED PRINTOUT TIMES
0.0000E+00 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
1
USER REQUESTED RESTART TIMES
3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
0
0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0
0 0 0 0 0 0 0
BINARY PRINT FLAGS
1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 1 0 0 0 0 0 0
0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0
0 0 0 0 0 0 0
HISTORY VARIABLE OUTPUT
8
1 4 NAME=BRINE PRESSURE
11 8 1 17 8 1 11 1 1 22 6 1
2 1 NAME=GAS PRESSURE
22 12 1
10 6 NAME=GAS DENSITY
7 6 1 7 12 1 7 14 1 25 6 1 25 12 1 25 14 1
18 30 NAME=GAS SATURATION
8 8 1 9 8 1 10 8 1 11 8 1 12 8 1 13 8 1
14 8 1 8 9 1 9 9 1 10 9 1 11 9 1 12 9 1
13 9 1 14 9 1 8 10 1 9 10 1 10 10 1 11 10 1
12 10 1 13 10 1 14 10 1 16 8 1 17 8 1 18 8 1
16 9 1 17 9 1 18 9 1 16 10 1 17 10 1 18 10 1
31 140 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1
22 24 1 22 25 1 22 26 1 22 27 1 23 6 1 23 7 1
23 8 1 23 9 1 23 10 1 23 11 1 23 12 1 23 13 1
23 14 1 23 15 1 23 16 1 23 17 1 23 18 1 23 19 1
23 20 1 23 21 1 23 22 1 23 23 1 23 24 1 23 25 1
23 26 1 23 27 1 11 1 1 11 2 1 11 3 1 11 4 1

11	5	1	11	6	1	11	7	1	11	8	1	11	9	1	11	10	1
11	11	1	11	12	1	11	13	1	11	14	1	11	15	1	11	16	1
11	17	1	11	18	1	11	19	1	11	20	1	11	21	1	11	22	1
11	23	1	11	24	1	11	25	1	11	26	1	11	27	1	12	1	1
12	2	1	12	3	1	12	4	1	12	5	1	12	6	1	12	7	1
12	8	1	12	9	1	12	10	1	12	11	1	12	12	1	12	13	1
12	14	1	12	15	1	12	16	1	12	17	1	12	18	1	12	19	1
12	20	1	12	21	1	12	22	1	12	23	1	12	24	1	12	25	1
12	26	1	12	27	1												
32	69		NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION														
8	11	1	9	11	1	10	11	1	11	11	1	12	11	1	13	11	1
14	11	1	8	8	1	9	8	1	10	8	1	11	8	1	12	8	1
13	8	1	14	8	1	16	11	1	17	11	1	18	11	1	16	8	1
17	8	1	18	8	1	22	6	1	22	7	1	22	8	1	22	9	1
22	10	1	22	11	1	22	12	1	22	13	1	22	14	1	22	15	1
22	16	1	22	17	1	22	18	1	22	19	1	22	20	1	22	21	1
22	22	1	22	23	1	22	24	1	22	25	1	22	26	1	22	27	1
11	1	1	11	2	1	11	3	1	11	4	1	11	5	1	11	6	1
11	7	1	11	8	1	11	9	1	11	10	1	11	11	1	11	12	1
11	13	1	11	14	1	11	15	1	11	16	1	11	17	1	11	18	1
11	19	1	11	20	1	11	21	1	11	22	1	11	23	1	11	24	1
11	25	1	11	26	1	11	27	1									
34	140		NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION														
3	6	1	3	12	1	3	14	1	3	19	1	3	20	1	3	21	1
3	22	1	3	23	1	3	24	1	3	25	1	3	26	1	3	27	1
30	6	1	30	12	1	30	14	1	30	19	1	30	20	1	30	21	1
30	22	1	30	23	1	30	24	1	30	25	1	30	26	1	30	27	1
8	6	1	8	12	1	8	14	1	25	6	1	25	12	1	25	14	1
16	8	1	16	9	1	16	10	1	19	8	1	19	9	1	19	10	1
8	8	1	8	9	1	8	10	1	15	8	1	15	9	1	15	10	1
22	6	1	22	7	1	22	8	1	22	9	1	22	10	1	22	11	1
22	12	1	22	13	1	22	14	1	22	15	1	22	16	1	22	17	1
22	18	1	22	19	1	22	20	1	22	21	1	22	22	1	22	23	1
22	24	1	22	25	1	22	26	1	22	27	1	23	6	1	23	7	1
23	8	1	23	9	1	23	10	1	23	11	1	23	12	1	23	13	1
23	14	1	23	15	1	23	16	1	23	17	1	23	18	1	23	19	1
23	20	1	23	21	1	23	22	1	23	23	1	23	24	1	23	25	1
23	26	1	23	27	1	11	1	1	11	2	1	11	3	1	11	4	1
11	5	1	11	6	1	11	7	1	11	8	1	11	9	1	11	10	1
11	11	1	11	12	1	11	13	1	11	14	1	11	15	1	11	16	1
11	17	1	11	18	1	11	19	1	11	20	1	11	21	1	11	22	1
11	23	1	11	24	1	11	25	1	11	26	1	11	27	1	12	1	1
12	2	1	12	3	1	12	4	1	12	5	1	12	6	1	12	7	1
12	8	1	12	9	1	12	10	1	12	11	1	12	12	1	12	13	1
12	14	1	12	15	1	12	16	1	12	17	1	12	18	1	12	19	1
12	20	1	12	21	1	12	22	1	12	23	1	12	24	1	12	25	1
12	26	1	12	27	1												
35	69		NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION														
8	11	1	9	11	1	10	11	1	11	11	1	12	11	1	13	11	1
14	11	1	8	8	1	9	8	1	10	8	1	11	8	1	12	8	1
13	8	1	14	8	1	16	11	1	17	11	1	18	11	1	16	8	1
17	8	1	18	8	1	22	6	1	22	7	1	22	8	1	22	9	1
22	10	1	22	11	1	22	12	1	22	13	1	22	14	1	22	15	1
22	16	1	22	17	1	22	18	1	22	19	1	22	20	1	22	21	1
22	22	1	22	23	1	22	24	1	22	25	1	22	26	1	22	27	1
11	1	1	11	2	1	11	3	1	11	4	1	11	5	1	11	6	1
11	7	1	11	8	1	11	9	1	11	10	1	11	11	1	11	12	1
11	13	1	11	14	1	11	15	1	11	16	1	11	17	1	11	18	1
11	19	1	11	20	1	11	21	1	11	22	1	11	23	1	11	24	1
11	25	1	11	26	1	11	27	1									

MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
 3
 MONITOR BLOCKS (I,J,K)
 11 10 1
 17 10 1
 25 12 1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
 1 2 1 7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04 5.000000E+03 1.750000E+03 5.000000E+02 1.000000E+02 4.000000E+01
 1.000000E+01 4.380000E+01 1.000000E+01 2.000000E+00 3.257770E-01 2.000000E+00
 1.000000E+01 4.380000E+01 4.000000E+01 1.000000E+02 4.950000E+02 1.000000E+02
 8.000000E+01 2.830000E+02 5.000000E+01 1.000000E+01 6.000000E+01 5.000000E+02
 1.000000E+01 4.000000E+01 1.000000E+02 5.000000E+02 1.750000E+03 5.000000E+03

1.500000E+04
GRID DATA CARDS: GRID BLOCK DY'S
2.728000E+00 4.737200E+01 1.391600E+02 5.000000E+01 1.100000E+01 8.500000E-01
1.380000E+00 1.320800E+00 1.320800E+00 1.320800E+00 2.617600E+00 2.700000E-01
9.060000E+00 1.800000E-01 6.098000E+01 1.585300E+02 1.585300E+02 5.080000E+00
3.600000E+01 7.700000E+00 2.480000E+01 8.500000E+00 1.730000E+01 1.060000E+02
4.330000E+01 1.566000E+01 1.000000E-01
GRID DATA CARDS: GRID BLOCK DZ'S
6.131430E+04 2.131430E+04 7.814300E+03 3.314300E+03 2.114300E+03 1.834300E+03
1.734300E+03 1.262000E+02 2.880000E+01 4.800000E+00 3.257770E-01 4.800000E+00
2.880000E+01 1.262000E+02 1.000000E+01 1.323000E+02 1.435000E+02 1.416000E+02
1.890000E+01 1.890000E+01 1.890000E+01 9.500000E+00 2.050000E+01 5.310000E+01
1.258900E+03 1.458900E+03 2.018900E+03 3.928000E+03 8.226900E+03 2.172690E+04
6.172690E+04
GRID BLOCK ELEVATIONS
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
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1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
-3.441824E+01 1.401058E+02 1.990077E+02 2.186417E+02 2.238774E+02 2.250991E+02
2.255354E+02 2.260048E+02 2.264743E+02 2.265790E+02 2.266000E+02 2.266209E+02
2.267256E+02 2.271951E+02 2.279264E+02 2.291480E+02 2.343401E+02 2.395322E+02
2.411029E+02 2.442706E+02 2.471764E+02 2.477000E+02 2.483108E+02 2.531975E+02
2.576478E+02 2.580841E+02 2.593058E+02 2.645415E+02 2.841755E+02 3.430774E+02
5.176014E+02
6.014737E+01 2.346714E+02 2.935733E+02 3.132073E+02 3.184430E+02 3.196646E+02
3.201010E+02 3.205704E+02 3.210399E+02 3.211446E+02 3.211656E+02 3.211865E+02
3.212912E+02 3.217607E+02 3.224920E+02 3.237137E+02 3.289057E+02 3.340978E+02
3.356685E+02 3.388362E+02 3.417420E+02 3.422656E+02 3.428764E+02 3.477631E+02
3.522134E+02 3.526497E+02 3.538714E+02 3.591071E+02 3.787411E+02 4.376429E+02
6.121671E+02
9.064270E+01 2.651668E+02 3.240687E+02 3.437026E+02 3.489384E+02 3.501600E+02
3.505963E+02 3.510658E+02 3.515353E+02 3.516400E+02 3.516609E+02 3.516819E+02
3.517866E+02 3.522561E+02 3.529873E+02 3.542090E+02 3.594011E+02 3.645932E+02
3.661639E+02 3.693315E+02 3.722373E+02 3.727609E+02 3.733717E+02 3.782584E+02
3.827088E+02 3.831451E+02 3.843668E+02 3.896025E+02 4.092365E+02 4.681383E+02
6.426624E+02
9.656680E+01 2.710909E+02 3.299928E+02 3.496267E+02 3.548625E+02 3.560841E+02
3.565204E+02 3.569899E+02 3.574594E+02 3.575641E+02 3.575851E+02 3.576060E+02
3.577107E+02 3.581802E+02 3.589114E+02 3.601331E+02 3.653252E+02 3.705173E+02
3.720880E+02 3.752556E+02 3.781614E+02 3.786850E+02 3.792958E+02 3.841825E+02
3.886329E+02 3.890692E+02 3.902909E+02 3.955266E+02 4.151606E+02 4.740624E+02
6.485865E+02
9.768167E+01 2.722057E+02 3.311076E+02 3.507415E+02 3.559773E+02 3.571989E+02
3.576353E+02 3.581047E+02 3.585742E+02 3.586789E+02 3.586999E+02 3.587208E+02
3.588255E+02 3.592950E+02 3.600263E+02 3.612480E+02 3.664400E+02 3.716321E+02
3.732029E+02 3.763705E+02 3.792763E+02 3.797998E+02 3.804107E+02 3.852974E+02
3.897477E+02 3.901840E+02 3.914057E+02 3.966414E+02 4.162754E+02 4.751772E+02
6.497014E+02
9.903186E+01 2.735559E+02 3.324578E+02 3.520918E+02 3.573275E+02 3.585491E+02
3.589854E+02 3.594549E+02 3.599244E+02 3.600291E+02 3.600501E+02 3.600710E+02
3.601757E+02 3.606452E+02 3.613765E+02 3.625981E+02 3.677902E+02 3.729823E+02
3.745530E+02 3.777206E+02 3.806265E+02 3.811501E+02 3.817609E+02 3.866476E+02
3.910979E+02 3.915342E+02 3.927559E+02 3.979916E+02 4.176256E+02 4.765274E+02
6.510515E+02
1.003524E+02 2.748765E+02 3.337784E+02 3.534124E+02 3.586481E+02 3.598698E+02
3.603061E+02 3.607755E+02 3.612450E+02 3.613497E+02 3.613707E+02 3.613916E+02
3.614963E+02 3.619658E+02 3.626971E+02 3.639187E+02 3.691108E+02 3.743029E+02
3.758736E+02 3.790413E+02 3.819471E+02 3.824706E+02 3.830815E+02 3.879681E+02
3.924185E+02 3.928548E+02 3.940765E+02 3.993122E+02 4.189462E+02 4.778481E+02
6.523721E+02
1.016731E+02 2.761971E+02 3.350990E+02 3.547329E+02 3.599687E+02 3.611903E+02
3.616266E+02 3.620961E+02 3.625656E+02 3.626703E+02 3.626913E+02 3.627122E+02
3.628169E+02 3.632864E+02 3.640177E+02 3.652393E+02 3.704314E+02 3.756235E+02
3.771942E+02 3.803618E+02 3.832677E+02 3.837913E+02 3.844021E+02 3.892888E+02
3.937391E+02 3.941754E+02 3.953971E+02 4.006328E+02 4.202668E+02 4.791686E+02
6.536927E+02
1.036419E+02 2.781660E+02 3.370679E+02 3.567019E+02 3.619376E+02 3.631592E+02

8.653501E+02
9.270001E+02 9.270001E+02 9.270001E+02 9.270001E+02 9.270001E+02 9.270001E+02
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9.270001E+02 9.270001E+02 9.270001E+02 9.270001E+02 9.270001E+02 9.270001E+02
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1.001650E+03 1.001650E+03 1.001650E+03 1.001650E+03 1.001650E+03 1.001650E+03
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1.039010E+03

WELL DATA
0

DIRICHLET CONDITIONS

T 35
1 20 1 T F 8.520000E+05 0.000000E+00
31 20 1 T F 8.520000E+05 0.000000E+00
1 22 1 T F 9.000000E+05 0.000000E+00
31 22 1 T F 9.000000E+05 0.000000E+00
1 27 1 T T 1.013250E+05 2.000000E-01
2 27 1 T T 1.013250E+05 2.000000E-01
3 27 1 T T 1.013250E+05 2.000000E-01
4 27 1 T T 1.013250E+05 2.000000E-01
5 27 1 T T 1.013250E+05 2.000000E-01
6 27 1 T T 1.013250E+05 2.000000E-01
7 27 1 T T 1.013250E+05 2.000000E-01
8 27 1 T T 1.013250E+05 2.000000E-01
9 27 1 T T 1.013250E+05 2.000000E-01
10 27 1 T T 1.013250E+05 2.000000E-01
11 27 1 T T 1.013250E+05 2.000000E-01
12 27 1 T T 1.013250E+05 2.000000E-01
13 27 1 T T 1.013250E+05 2.000000E-01
14 27 1 T T 1.013250E+05 2.000000E-01
15 27 1 T T 1.013250E+05 2.000000E-01
16 27 1 T T 1.013250E+05 2.000000E-01
17 27 1 T T 1.013250E+05 2.000000E-01
18 27 1 T T 1.013250E+05 2.000000E-01
19 27 1 T T 1.013250E+05 2.000000E-01
20 27 1 T T 1.013250E+05 2.000000E-01
21 27 1 T T 1.013250E+05 2.000000E-01
22 27 1 T T 1.013250E+05 2.000000E-01
23 27 1 T T 1.013250E+05 2.000000E-01
24 27 1 T T 1.013250E+05 2.000000E-01
25 27 1 T T 1.013250E+05 2.000000E-01
26 27 1 T T 1.013250E+05 2.000000E-01
27 27 1 T T 1.013250E+05 2.000000E-01
28 27 1 T T 1.013250E+05 2.000000E-01
29 27 1 T T 1.013250E+05 2.000000E-01
30 27 1 T T 1.013250E+05 2.000000E-01
31 27 1 T T 1.013250E+05 2.000000E-01

GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS

1.532225E+07 1.532225E+07 1.270000E+07 1.270000E+07 1.270000E+07
1.270000E+07 1.270000E+07 1.270000E+07 1.270000E+07 1.270000E+07
1.270000E+07 1.270000E+07 1.270000E+07 1.270000E+07 1.270000E+07
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1.270000E+07 1.270000E+07 1.270000E+07 1.270000E+07 1.270000E+07
1.532225E+07
1.502060E+07 1.502060E+07 1.502060E+07 1.502060E+07 1.502060E+07
1.502060E+07 1.502060E+07 1.502060E+07 1.502060E+07 1.502060E+07
1.502060E+07 1.502060E+07 1.502060E+07 1.502060E+07 1.502060E+07
1.502060E+07 1.502060E+07 1.502060E+07 1.502060E+07 1.502060E+07

1.502060E+07	1.502060E+07	1.502060E+07	1.502060E+07	1.502060E+07
1.502060E+07	1.502060E+07	1.502060E+07	1.502060E+07	1.502060E+07
1.502060E+07				
1.729447E+07	1.519290E+07	1.448362E+07	1.424719E+07	1.418415E+07
1.416944E+07	1.416418E+07	1.415853E+07	1.415288E+07	1.415161E+07
1.415136E+07	1.415111E+07	1.414985E+07	1.414420E+07	1.413539E+07
1.412068E+07	1.405816E+07	1.399564E+07	1.397672E+07	1.393858E+07
1.390359E+07	1.389728E+07	1.388993E+07	1.383108E+07	1.377749E+07
1.377224E+07	1.375753E+07	1.369448E+07	1.345806E+07	1.274878E+07
1.064721E+07				
1.615574E+07	1.405417E+07	1.334489E+07	1.310846E+07	1.304542E+07
1.303071E+07	1.302545E+07	1.301980E+07	1.301415E+07	1.301289E+07
1.301263E+07	1.301238E+07	1.301112E+07	1.300547E+07	1.299666E+07
1.298195E+07	1.291943E+07	1.285691E+07	1.283799E+07	1.279985E+07
1.276486E+07	1.275855E+07	1.275120E+07	1.269235E+07	1.263876E+07
1.263351E+07	1.261880E+07	1.255575E+07	1.231933E+07	1.161005E+07
9.508480E+06				
1.578852E+07	1.368695E+07	1.297768E+07	1.274125E+07	1.267820E+07
1.266349E+07	1.265824E+07	1.265258E+07	1.264693E+07	1.264567E+07
1.264542E+07	1.264516E+07	1.264390E+07	1.263825E+07	1.262945E+07
1.261473E+07	1.255221E+07	1.248969E+07	1.247078E+07	1.243263E+07
1.239764E+07	1.239134E+07	1.238398E+07	1.232514E+07	1.227155E+07
1.226629E+07	1.225158E+07	1.218854E+07	1.195211E+07	1.124283E+07
9.141264E+06				
1.571718E+07	1.361562E+07	1.290634E+07	1.266991E+07	1.260687E+07
1.259215E+07	1.258690E+07	1.258125E+07	1.257559E+07	1.257433E+07
1.257408E+07	1.257383E+07	1.257257E+07	1.256691E+07	1.255811E+07
1.254340E+07	1.248088E+07	1.241835E+07	1.239944E+07	1.236130E+07
1.232631E+07	1.013250E+05	1.231265E+07	1.225380E+07	1.220021E+07
1.219496E+07	1.218025E+07	1.211720E+07	1.188077E+07	1.117150E+07
9.069928E+06				
1.570376E+07	1.360219E+07	1.289291E+07	1.265649E+07	1.259344E+07
1.257873E+07	1.257348E+07	1.256782E+07	1.256217E+07	1.256091E+07
1.256066E+07	1.256040E+07	1.255914E+07	1.255349E+07	1.254468E+07
1.252997E+07	1.246745E+07	1.240493E+07	1.238602E+07	1.234787E+07
1.231288E+07	1.013250E+05	1.229922E+07	1.224038E+07	1.218679E+07
1.218153E+07	1.216682E+07	1.210378E+07	1.186735E+07	1.115807E+07
9.056503E+06				
1.568750E+07	1.358594E+07	1.287666E+07	1.264023E+07	1.257718E+07
1.256247E+07	1.255722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.216528E+07	1.215056E+07	1.208752E+07	1.185109E+07	1.114181E+07
9.040245E+06				
1.567160E+07	1.357003E+07	1.286075E+07	1.262433E+07	1.256128E+07
1.254657E+07	1.254132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.214937E+07	1.213466E+07	1.207161E+07	1.183519E+07	1.112591E+07
9.024342E+06				
1.565570E+07	1.355413E+07	1.284485E+07	1.260843E+07	1.254538E+07
1.253067E+07	1.252541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.213347E+07	1.211876E+07	1.205571E+07	1.181929E+07	1.111001E+07
9.008441E+06				
1.563199E+07	1.353042E+07	1.282114E+07	1.258472E+07	1.252167E+07
1.250696E+07	1.250170E+07	1.249605E+07	1.249040E+07	1.248914E+07
1.248888E+07	1.248863E+07	1.248737E+07	1.248172E+07	1.247291E+07
1.245820E+07	1.239568E+07	1.233316E+07	1.231424E+07	1.227610E+07
1.224111E+07	1.013250E+05	1.222745E+07	1.216860E+07	1.211502E+07
1.210976E+07	1.209505E+07	1.203200E+07	1.179558E+07	1.108630E+07
8.984732E+06				
1.561460E+07	1.351304E+07	1.280376E+07	1.256733E+07	1.250429E+07
1.248957E+07	1.248432E+07	1.247867E+07	1.247301E+07	1.247175E+07
1.247150E+07	1.247125E+07	1.246999E+07	1.246433E+07	1.245553E+07
1.244082E+07	1.237830E+07	1.231577E+07	1.229686E+07	1.225872E+07
1.222373E+07	1.013250E+05	1.221007E+07	1.215122E+07	1.209763E+07
1.209238E+07	1.207767E+07	1.201462E+07	1.177819E+07	1.106892E+07
8.967348E+06				
1.555844E+07	1.345687E+07	1.274759E+07	1.251117E+07	1.244812E+07
1.243341E+07	1.242815E+07	1.242250E+07	1.241685E+07	1.241559E+07
1.241533E+07	1.241508E+07	1.241382E+07	1.240817E+07	1.239936E+07

1.238465E+07	1.232213E+07	1.225961E+07	1.224069E+07	1.220255E+07
1.216756E+07	1.013250E+05	1.215390E+07	1.209506E+07	1.204147E+07
1.203621E+07	1.202150E+07	1.195845E+07	1.172203E+07	1.101275E+07
8.911182E+06				
1.550281E+07	1.340125E+07	1.269197E+07	1.245554E+07	1.239250E+07
1.237778E+07	1.237253E+07	1.236688E+07	1.236122E+07	1.235996E+07
1.235971E+07	1.235946E+07	1.235820E+07	1.235254E+07	1.234374E+07
1.232903E+07	1.226651E+07	1.220398E+07	1.218507E+07	1.214693E+07
1.211194E+07	1.013250E+05	1.209828E+07	1.203943E+07	1.198584E+07
1.198059E+07	1.196588E+07	1.190283E+07	1.166640E+07	1.095713E+07
8.855558E+06				
1.513463E+07	1.303307E+07	1.232379E+07	1.208736E+07	1.202432E+07
1.200961E+07	1.200435E+07	1.199870E+07	1.199304E+07	1.199178E+07
1.199153E+07	1.199128E+07	1.199002E+07	1.198437E+07	1.197556E+07
1.196085E+07	1.189833E+07	1.183580E+07	1.181689E+07	1.177875E+07
1.174376E+07	1.013250E+05	1.173010E+07	1.167125E+07	1.161766E+07
1.161241E+07	1.159770E+07	1.153465E+07	1.129822E+07	1.058895E+07
8.487379E+06				
1.381320E+07	1.171163E+07	1.100235E+07	1.076593E+07	1.070288E+07
1.068817E+07	1.068292E+07	1.067726E+07	1.067161E+07	1.067035E+07
1.067010E+07	1.066984E+07	1.066858E+07	1.066293E+07	1.065412E+07
1.063941E+07	1.057689E+07	1.051437E+07	1.049546E+07	1.045731E+07
1.042232E+07	1.013250E+05	1.040866E+07	1.034982E+07	1.029623E+07
1.029097E+07	1.027626E+07	1.021322E+07	9.976788E+06	9.267510E+06
7.165944E+06				
1.190452E+07	9.802952E+06	9.093673E+06	8.857247E+06	8.794200E+06
8.779489E+06	8.774235E+06	8.768582E+06	8.762928E+06	8.761667E+06
8.761415E+06	8.761163E+06	8.759902E+06	8.754249E+06	8.745443E+06
8.730732E+06	8.668211E+06	8.605689E+06	8.586775E+06	8.548632E+06
8.513641E+06	1.013250E+05	8.499980E+06	8.441136E+06	8.387547E+06
8.382292E+06	8.367582E+06	8.304535E+06	8.068108E+06	7.358830E+06
5.257264E+06				
1.091960E+07	8.818031E+06	8.108752E+06	7.872325E+06	7.809278E+06
7.794567E+06	7.789314E+06	7.783661E+06	7.778007E+06	7.776746E+06
7.776493E+06	7.776241E+06	7.774981E+06	7.769328E+06	7.760522E+06
7.745811E+06	7.683289E+06	7.620768E+06	7.601853E+06	7.563710E+06
7.528719E+06	1.013250E+05	7.515059E+06	7.456215E+06	7.402625E+06
7.397371E+06	7.382660E+06	7.319613E+06	7.083187E+06	6.373909E+06
4.272342E+06				
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	1.013250E+05	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06				
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	1.013250E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05				
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.013250E+05	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06				
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	1.013250E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05				
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.013250E+05	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06				
7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05
7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05


```
28 SHFT_L_2
29 SHFT_U_1
30 SHFT_U_2
31 SHFT_LS1
32 SHFT_LS2
33 SHFT_US1
34 SHFT_US2
35 PAN_S_1
36 PAN_S_2
37 BOREHOLE
38 TRANS_1
39 CAVITY_5
NWST
2
MAT_WASTE1 MAT_WASTE
7 8
13 14
NDRZ
0
NMATRESET
5
MATRESET
7 8 9 10 39
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000E+00 1
POWASTEIC
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
SOWASTEIC
0.000000E+00
0.000000E+00
0.000000E+00
0.250000E+00
0.200000E+00
PRESDRZ

NBORERESET
0
# LAMBDA SOR SGR
1 3.469000E-01 4.105000E-01 1.906000E-01
2 3.469000E-01 0.000000E+00 0.000000E+00
3 3.469000E-01 0.000000E+00 0.000000E+00
4 5.869000E+00 9.309000E-02 2.189000E-03
5 5.869000E+00 9.309000E-02 2.189000E-03
6 5.869000E+00 9.309000E-02 2.189000E-03
7 7.000000E-01 0.000000E+00 0.000000E+00
8 7.000000E-01 0.000000E+00 0.000000E+00
9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 8.711000E-01 3.816000E-01 2.710000E-01
14 8.711000E-01 3.816000E-01 2.710000E-01
15 3.469000E-01 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
28 7.000000E-01 2.000000E-01 2.000000E-01
29 7.000000E-01 2.000000E-01 2.000000E-01
30 7.000000E-01 2.000000E-01 2.000000E-01
31 7.000000E-01 2.000000E-01 2.000000E-01
32 7.000000E-01 2.000000E-01 2.000000E-01
```


29 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
32 1.071521E-19 1.071521E-19 1.071521E-19 5.000000E-02 2.000000E-08
33 1.071521E-19 1.071521E-19 1.071521E-19 5.000000E-02 2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
37 5.248078E-14 5.248078E-14 5.248078E-14 3.700000E-01 0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15 7.299000E-03 1.135255E-07
39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
T
NFRAC
3
DELTA_PI DELTA_PF FRAC_PHI FRAC_EXP IFRX IFRY IFRZ
4 1.800000E+06 2.500000E+06 1.917000E-02 3.079846E+01 1 1 0
5 1.800000E+06 2.500000E+06 1.917000E-02 3.079846E+01 1 1 0
6 1.800000E+06 2.500000E+06 1.917000E-02 3.079846E+01 1 1 0
KLINKENBERG EFFECT TO BE USED? True or False
T
BKLINK EXPKLINK
9.800000E-01 -3.300000E-01
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01320E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.80000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.0000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
0.0000E+00 3.6635E-07 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0000E+00 1.8129E-01
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
1.6120E+00 0.0000E+00

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1.6120E+00 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS (Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1.0313E+00 -1.9375E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.4000E+03 4.7000E+03 1.1000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.3700E+03 3.0500E+03 2.1700E+03
WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
# MAT NO. MODEL 1= WASTE-FILLED, 2=BACKFILLED
1 13 4
2 14 4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
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BF2_QB0600_TEST7_V010.INP

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1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
2 31 27 1
TSTART, TMAX, MAXSTEPS
-1.5779E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
8.6400E+00 8.6400E-04 1.7280E+09 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
3
0.0000E+00 8.6400E+02
3.1666E+09 8.6400E+02
3.1666E+10 8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
2 0 2 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
2
USER REQUESTED PRINTOUT TIMES
0.0000E+00 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
1
USER REQUESTED RESTART TIMES
3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```


3.522134E+02	3.526497E+02	3.538714E+02	3.591071E+02	3.787411E+02	4.376429E+02
6.121671E+02					
9.064270E+01	2.651668E+02	3.240687E+02	3.437026E+02	3.489384E+02	3.501600E+02
3.505963E+02	3.510658E+02	3.515353E+02	3.516400E+02	3.516609E+02	3.516819E+02
3.517866E+02	3.522561E+02	3.529873E+02	3.542090E+02	3.594011E+02	3.645932E+02
3.661639E+02	3.693315E+02	3.722373E+02	3.727609E+02	3.733717E+02	3.782584E+02
3.827088E+02	3.831451E+02	3.843668E+02	3.896025E+02	4.092365E+02	4.681383E+02
6.426624E+02					
9.656680E+01	2.710909E+02	3.299928E+02	3.496267E+02	3.548625E+02	3.560841E+02
3.565204E+02	3.569899E+02	3.574594E+02	3.575641E+02	3.575851E+02	3.576060E+02
3.577107E+02	3.581802E+02	3.589114E+02	3.601331E+02	3.653252E+02	3.705173E+02
3.720880E+02	3.752556E+02	3.781614E+02	3.786850E+02	3.792958E+02	3.841825E+02
3.886329E+02	3.890692E+02	3.902909E+02	3.955266E+02	4.151606E+02	4.740624E+02
6.485865E+02					
9.768167E+01	2.722057E+02	3.311076E+02	3.507415E+02	3.559773E+02	3.571989E+02
3.576353E+02	3.581047E+02	3.585742E+02	3.586789E+02	3.586999E+02	3.587208E+02
3.588255E+02	3.592950E+02	3.600263E+02	3.612480E+02	3.664400E+02	3.716321E+02
3.732029E+02	3.763705E+02	3.792763E+02	3.797998E+02	3.804107E+02	3.852974E+02
3.897477E+02	3.901840E+02	3.914057E+02	3.966414E+02	4.162754E+02	4.751772E+02
6.497014E+02					
9.903186E+01	2.735559E+02	3.324578E+02	3.520918E+02	3.573275E+02	3.585491E+02
3.589854E+02	3.594549E+02	3.599244E+02	3.600291E+02	3.600501E+02	3.600710E+02
3.601757E+02	3.606452E+02	3.613765E+02	3.625981E+02	3.677902E+02	3.729823E+02
3.745530E+02	3.777206E+02	3.806265E+02	3.811501E+02	3.817609E+02	3.866476E+02
3.910979E+02	3.915342E+02	3.927559E+02	3.979916E+02	4.176256E+02	4.765274E+02
6.510515E+02					
1.003524E+02	2.748765E+02	3.337784E+02	3.534124E+02	3.586481E+02	3.598698E+02
3.603061E+02	3.607755E+02	3.612450E+02	3.613497E+02	3.613707E+02	3.613916E+02
3.614963E+02	3.619658E+02	3.626971E+02	3.639187E+02	3.691108E+02	3.743029E+02
3.758736E+02	3.790413E+02	3.819471E+02	3.824706E+02	3.830815E+02	3.879681E+02
3.924185E+02	3.928548E+02	3.940765E+02	3.993122E+02	4.189462E+02	4.778481E+02
6.523721E+02					
1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	3.611903E+02
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	3.627122E+02
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02

5	27	1	T	T	1.013250E+05	2.000000E-01
6	27	1	T	T	1.013250E+05	2.000000E-01
7	27	1	T	T	1.013250E+05	2.000000E-01
8	27	1	T	T	1.013250E+05	2.000000E-01
9	27	1	T	T	1.013250E+05	2.000000E-01
10	27	1	T	T	1.013250E+05	2.000000E-01
11	27	1	T	T	1.013250E+05	2.000000E-01
12	27	1	T	T	1.013250E+05	2.000000E-01
13	27	1	T	T	1.013250E+05	2.000000E-01
14	27	1	T	T	1.013250E+05	2.000000E-01
15	27	1	T	T	1.013250E+05	2.000000E-01
16	27	1	T	T	1.013250E+05	2.000000E-01
17	27	1	T	T	1.013250E+05	2.000000E-01
18	27	1	T	T	1.013250E+05	2.000000E-01
19	27	1	T	T	1.013250E+05	2.000000E-01
20	27	1	T	T	1.013250E+05	2.000000E-01
21	27	1	T	T	1.013250E+05	2.000000E-01
22	27	1	T	T	1.013250E+05	2.000000E-01
23	27	1	T	T	1.013250E+05	2.000000E-01
24	27	1	T	T	1.013250E+05	2.000000E-01
25	27	1	T	T	1.013250E+05	2.000000E-01
26	27	1	T	T	1.013250E+05	2.000000E-01
27	27	1	T	T	1.013250E+05	2.000000E-01
28	27	1	T	T	1.013250E+05	2.000000E-01
29	27	1	T	T	1.013250E+05	2.000000E-01
30	27	1	T	T	1.013250E+05	2.000000E-01
31	27	1	T	T	1.013250E+05	2.000000E-01

GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS

1.559225E+07	1.559225E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.559225E+07
1.559225E+07	1.529060E+07	1.529060E+07	1.529060E+07	1.529060E+07
1.529060E+07	1.529060E+07	1.529060E+07	1.529060E+07	1.529060E+07
1.529060E+07	1.529060E+07	1.529060E+07	1.529060E+07	1.529060E+07
1.529060E+07	1.529060E+07	1.529060E+07	1.529060E+07	1.529060E+07
1.529060E+07	1.529060E+07	1.529060E+07	1.529060E+07	1.529060E+07
1.529060E+07	1.529060E+07	1.529060E+07	1.529060E+07	1.529060E+07
1.529060E+07	1.529060E+07	1.529060E+07	1.529060E+07	1.529060E+07
1.529060E+07	1.546290E+07	1.475362E+07	1.451719E+07	1.445415E+07
1.443944E+07	1.443418E+07	1.442853E+07	1.442288E+07	1.442161E+07
1.442136E+07	1.442111E+07	1.441985E+07	1.441420E+07	1.440539E+07
1.439068E+07	1.432816E+07	1.426564E+07	1.424672E+07	1.420858E+07
1.417359E+07	1.416728E+07	1.415993E+07	1.410108E+07	1.404749E+07
1.404224E+07	1.402753E+07	1.396448E+07	1.372806E+07	1.301878E+07
1.091721E+07	1.642574E+07	1.361489E+07	1.337846E+07	1.331542E+07
1.330071E+07	1.329545E+07	1.328980E+07	1.328415E+07	1.328289E+07
1.328263E+07	1.328238E+07	1.328112E+07	1.327547E+07	1.326666E+07
1.325195E+07	1.318943E+07	1.312691E+07	1.310799E+07	1.306985E+07
1.303486E+07	1.302855E+07	1.302120E+07	1.296235E+07	1.290876E+07
1.290351E+07	1.288880E+07	1.282575E+07	1.258933E+07	1.188005E+07
9.778480E+06	1.605852E+07	1.324768E+07	1.301125E+07	1.294820E+07
1.293349E+07	1.292824E+07	1.292258E+07	1.291693E+07	1.291567E+07
1.291542E+07	1.291516E+07	1.291390E+07	1.290825E+07	1.289945E+07
1.288473E+07	1.282221E+07	1.275969E+07	1.274078E+07	1.270263E+07
1.266764E+07	1.266134E+07	1.265398E+07	1.259514E+07	1.254155E+07
1.253629E+07	1.252158E+07	1.245854E+07	1.222211E+07	1.151283E+07
9.411264E+06	1.598718E+07	1.317634E+07	1.293991E+07	1.287687E+07
1.286215E+07	1.285690E+07	1.285125E+07	1.284559E+07	1.284433E+07
1.284408E+07	1.284383E+07	1.284257E+07	1.283691E+07	1.282811E+07
1.281340E+07	1.275088E+07	1.268835E+07	1.266944E+07	1.263130E+07
1.259631E+07	1.013250E+05	1.258265E+07	1.252380E+07	1.247021E+07
1.246496E+07	1.245025E+07	1.238720E+07	1.215077E+07	1.144150E+07
9.339928E+06	1.597376E+07	1.316291E+07	1.292649E+07	1.286344E+07
1.284873E+07	1.284348E+07	1.283782E+07	1.283217E+07	1.283091E+07
1.283066E+07	1.283040E+07	1.282914E+07	1.282349E+07	1.281468E+07
1.279997E+07	1.273745E+07	1.267493E+07	1.265602E+07	1.261787E+07
1.258288E+07	1.013250E+05	1.256922E+07	1.251038E+07	1.245679E+07
1.245153E+07	1.243682E+07	1.237378E+07	1.213735E+07	1.142807E+07

9.326503E+06				
1.595750E+07	1.385594E+07	1.314666E+07	1.291023E+07	1.284718E+07
1.283247E+07	1.282722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.244053E+07
1.243528E+07	1.242056E+07	1.235752E+07	1.212109E+07	1.141181E+07
9.310245E+06				
1.594160E+07	1.384003E+07	1.313075E+07	1.289433E+07	1.283128E+07
1.281657E+07	1.281132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.242463E+07
1.241937E+07	1.240466E+07	1.234161E+07	1.210519E+07	1.139591E+07
9.294342E+06				
1.592570E+07	1.382413E+07	1.311485E+07	1.287843E+07	1.281538E+07
1.280067E+07	1.279541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.240872E+07
1.240347E+07	1.238876E+07	1.232571E+07	1.208929E+07	1.138001E+07
9.278441E+06				
1.590199E+07	1.380042E+07	1.309114E+07	1.285472E+07	1.279167E+07
1.277696E+07	1.277170E+07	1.276605E+07	1.276040E+07	1.275914E+07
1.275888E+07	1.275863E+07	1.275737E+07	1.275172E+07	1.274291E+07
1.272820E+07	1.266568E+07	1.260316E+07	1.258424E+07	1.254610E+07
1.251111E+07	1.013250E+05	1.249745E+07	1.243860E+07	1.238502E+07
1.237976E+07	1.236505E+07	1.230200E+07	1.206558E+07	1.135630E+07
9.254732E+06				
1.588460E+07	1.378304E+07	1.307376E+07	1.283733E+07	1.277429E+07
1.275957E+07	1.275432E+07	1.274867E+07	1.274301E+07	1.274175E+07
1.274150E+07	1.274125E+07	1.273999E+07	1.273433E+07	1.272553E+07
1.271082E+07	1.264830E+07	1.258577E+07	1.256686E+07	1.252872E+07
1.249373E+07	1.013250E+05	1.248007E+07	1.242122E+07	1.236763E+07
1.236238E+07	1.234767E+07	1.228462E+07	1.204819E+07	1.133892E+07
9.237348E+06				
1.582844E+07	1.372687E+07	1.301759E+07	1.278117E+07	1.271812E+07
1.270341E+07	1.269815E+07	1.269250E+07	1.268685E+07	1.268559E+07
1.268533E+07	1.268508E+07	1.268382E+07	1.267817E+07	1.266936E+07
1.265465E+07	1.259213E+07	1.252961E+07	1.251069E+07	1.247255E+07
1.243756E+07	1.013250E+05	1.242390E+07	1.236506E+07	1.231147E+07
1.230621E+07	1.229150E+07	1.222845E+07	1.199203E+07	1.128275E+07
9.181182E+06				
1.577281E+07	1.367125E+07	1.296197E+07	1.272554E+07	1.266250E+07
1.264778E+07	1.264253E+07	1.263688E+07	1.263122E+07	1.262996E+07
1.262971E+07	1.262946E+07	1.262820E+07	1.262254E+07	1.261374E+07
1.259903E+07	1.253651E+07	1.247398E+07	1.245507E+07	1.241693E+07
1.238194E+07	1.013250E+05	1.236828E+07	1.230943E+07	1.225584E+07
1.225059E+07	1.223588E+07	1.217283E+07	1.193640E+07	1.122713E+07
9.125558E+06				
1.540463E+07	1.330307E+07	1.259379E+07	1.235736E+07	1.229432E+07
1.227961E+07	1.227435E+07	1.226870E+07	1.226304E+07	1.226178E+07
1.226153E+07	1.226128E+07	1.226002E+07	1.225437E+07	1.224556E+07
1.223085E+07	1.216833E+07	1.210580E+07	1.208689E+07	1.204875E+07
1.201376E+07	1.013250E+05	1.200010E+07	1.194125E+07	1.188766E+07
1.188241E+07	1.186770E+07	1.180465E+07	1.156822E+07	1.085895E+07
8.757379E+06				
1.408320E+07	1.198163E+07	1.127235E+07	1.103593E+07	1.097288E+07
1.095817E+07	1.095292E+07	1.094726E+07	1.094161E+07	1.094035E+07
1.094010E+07	1.093984E+07	1.093858E+07	1.093293E+07	1.092412E+07
1.090941E+07	1.084689E+07	1.078437E+07	1.076546E+07	1.072731E+07
1.069232E+07	1.013250E+05	1.067866E+07	1.061982E+07	1.056623E+07
1.056097E+07	1.054626E+07	1.048322E+07	1.024679E+07	9.537510E+06
7.435944E+06				
1.217452E+07	1.007295E+07	9.363673E+06	9.127247E+06	9.064200E+06
9.049489E+06	9.044235E+06	9.038582E+06	9.032928E+06	9.031667E+06
9.031415E+06	9.031163E+06	9.029902E+06	9.024249E+06	9.015443E+06
9.000732E+06	8.938211E+06	8.875689E+06	8.856775E+06	8.818632E+06
8.783641E+06	1.013250E+05	8.769980E+06	8.711136E+06	8.657546E+06
8.652292E+06	8.637582E+06	8.574535E+06	8.338108E+06	7.628830E+06
5.527264E+06				
1.118960E+07	9.088031E+06	8.378752E+06	8.142325E+06	8.079278E+06
8.064567E+06	8.059314E+06	8.053661E+06	8.048007E+06	8.046746E+06
8.046493E+06	8.046241E+06	8.044981E+06	8.039328E+06	8.030522E+06
8.015811E+06	7.953289E+06	7.890768E+06	7.871853E+06	7.833710E+06
7.798719E+06	1.013250E+05	7.785059E+06	7.726215E+06	7.672625E+06

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NAME
1 S_HALITE
2 DRZ_0
3 TRANS_0
4 S_MBL39
5 S_ANH_AB
6 S_MBL38
7 CAVITY_1
8 CAVITY_2
9 CAVITY_3
10 CAVITY_4
11 IMPERM_Z
12 CASTILER
13 WAS_AREA
14 REPOSIT
15 DRZ_1
16 UNNAMED
17 CULEBRA
18 TAMARISK
19 MAGENTA
20 FORTYNIN
21 DEWYLAKE
22 SANTAROS
23 BACKFILL
24 EXP_AREA
25 SHFT_B_1
26 SHFT_B_2
27 SHFT_L_1
28 SHFT_L_2
29 SHFT_U_1
30 SHFT_U_2
31 SHFT_LS1
32 SHFT_LS2
33 SHFT_US1
34 SHFT_US2
35 PAN_S_1
36 PAN_S_2
37 BOREHOLE
38 TRANS_1
39 CAVITY_5

NWST
2
MAT_WASTE1 MAT_WASTE
7 8
13 14
NDRZ
0
NMATRESET
5
MATRESET
7 8 9 10 39
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000E+00 1
POWASTEIC
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
SOWASTEIC
0.000000E+00
0.000000E+00
0.000000E+00

0.250000E+00
0.200000E+00
PRESDRZ

NBORERESET

0

#	LAMBDA	SOR	SGR
1	1.634000E+00	2.933000E-01	3.551000E-01
2	1.634000E+00	0.000000E+00	0.000000E+00
3	1.634000E+00	0.000000E+00	0.000000E+00
4	3.294000E-01	1.601000E-01	1.998000E-01
5	3.294000E-01	1.601000E-01	1.998000E-01
6	3.294000E-01	1.601000E-01	1.998000E-01
7	7.000000E-01	0.000000E+00	0.000000E+00
8	7.000000E-01	0.000000E+00	0.000000E+00
9	7.000000E-01	0.000000E+00	0.000000E+00
10	7.000000E-01	0.000000E+00	0.000000E+00
11	1.000000E+00	0.000000E+00	0.000000E+00
12	7.000000E-01	2.000000E-01	2.000000E-01
13	7.849000E+00	1.338000E-01	1.748000E-01
14	7.849000E+00	1.338000E-01	1.748000E-01
15	1.634000E+00	0.000000E+00	0.000000E+00
16	7.000000E-01	2.000000E-01	2.000000E-01
17	7.000000E-01	2.000000E-01	2.000000E-01
18	7.000000E-01	2.000000E-01	2.000000E-01
19	7.000000E-01	2.000000E-01	2.000000E-01
20	7.000000E-01	2.000000E-01	2.000000E-01
21	7.000000E-01	2.000000E-01	2.000000E-01
22	7.000000E-01	2.000000E-01	2.000000E-01
23	7.000000E-01	0.000000E+00	0.000000E+00
24	7.000000E-01	0.000000E+00	0.000000E+00
25	7.000000E-01	2.000000E-01	2.000000E-01
26	7.000000E-01	2.000000E-01	2.000000E-01
27	7.000000E-01	2.000000E-01	2.000000E-01
28	7.000000E-01	2.000000E-01	2.000000E-01
29	7.000000E-01	2.000000E-01	2.000000E-01
30	7.000000E-01	2.000000E-01	2.000000E-01
31	7.000000E-01	2.000000E-01	2.000000E-01
32	7.000000E-01	2.000000E-01	2.000000E-01
33	7.000000E-01	2.000000E-01	2.000000E-01
34	7.000000E-01	2.000000E-01	2.000000E-01
35	7.000000E-01	2.000000E-01	2.000000E-01
36	7.000000E-01	2.000000E-01	2.000000E-01
37	7.000000E-01	2.000000E-01	0.000000E+00
38	1.634000E+00	0.000000E+00	0.000000E+00
39	7.000000E-01	0.000000E+00	0.000000E+00

#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP
1	3.079650E-01	1.013250E+05	1.000000E+08	2.792000E+07	0.000000E+00	4	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
4	1.681050E-01	1.013250E+05	1.000000E+08	2.494594E-02	-3.460000E-01	4	2	0
5	1.681050E-01	1.013250E+05	1.000000E+08	2.494594E-02	-3.460000E-01	4	2	0
6	1.681050E-01	1.013250E+05	1.000000E+08	2.494594E-02	-3.460000E-01	4	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	1.404900E-01	1.013250E+05	1.000000E+08	6.838928E-01	-3.460000E-01	4	4	0
14	1.404900E-01	1.013250E+05	1.000000E+08	6.838928E-01	-3.460000E-01	4	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0

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30 2.100000E-01 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
31 2.100000E-01 1.013250E+05 1.000000E+08 7.946718E+03 0.000000E+00 4 2 0
32 2.100000E-01 1.013250E+05 1.000000E+08 6.305619E+05 0.000000E+00 4 2 0
33 2.100000E-01 1.013250E+05 1.000000E+08 6.305619E+05 0.000000E+00 4 2 0
34 2.100000E-01 1.013250E+05 1.000000E+08 7.946718E+03 0.000000E+00 4 2 0
35 2.100000E-01 1.013250E+05 1.000000E+08 5.600000E-01 -3.460000E-01 4 2 0
36 2.100000E-01 1.013250E+05 1.000000E+08 5.600000E-01 -3.460000E-01 4 2 0
37 2.100000E-01 1.013200E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
38 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
# PERMX PERMY PERMZ POROSITY COMPRES
1 2.754232E-21 2.754232E-21 2.754232E-21 2.710000E-02 1.357828E-10
2 1.000000E-15 1.000000E-15 1.000000E-15 2.710000E-02 3.039382E-08
3 1.000000E-15 1.000000E-15 1.000000E-15 2.710000E-02 3.039382E-08
4 2.630268E-17 2.630268E-17 2.630268E-17 4.456000E-03 9.983455E-08
5 2.630268E-17 2.630268E-17 2.630268E-17 4.456000E-03 9.983455E-08
6 2.630268E-17 2.630268E-17 2.630268E-17 4.456000E-03 9.983455E-08
7 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
8 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
9 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00 5.000000E-03 0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11 5.200000E-03 1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12 8.810400E-01 1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12 8.810400E-01 1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15 2.710000E-02 3.039382E-08
16 0.000000E+00 0.000000E+00 0.000000E+00 2.000000E-01 0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13 1.460000E-01 1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00 2.000000E-01 0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16 9.000000E-02 2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00 2.000000E-01 0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16 1.500000E-01 6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10 1.750000E-01 5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
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30 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
32 3.235938E-18 3.235938E-18 3.235938E-18 5.000000E-02 2.000000E-08
33 3.235938E-18 3.235938E-18 3.235938E-18 5.000000E-02 2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
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36 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
37 1.000000E-13 1.000000E-13 1.000000E-13 3.700000E-01 0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15 2.710000E-02 3.039382E-08
39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
T
NFRAC
3
# DELTA_PI DELTA_PF FRAC_PHI FRAC_EXP IFRX IFRY IFRZ
4 1.270000E+06 2.500000E+06 1.445600E-02 1.662139E+01 1 1 0
5 1.270000E+06 2.500000E+06 1.445600E-02 1.662139E+01 1 1 0
6 1.270000E+06 2.500000E+06 1.445600E-02 1.662139E+01 1 1 0
KLINKENBERG EFFECT TO BE USED? True or False
T
BKLINK EXPKLINK
9.80000E-01 -3.30000E-01
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01320E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.80000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1

```


GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
8.0358E-10 0.0000E+00 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0000E+00 0.0000E+00
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
1.2300E+00 0.0000E+00
1.2300E+00 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1.1864E+00 -1.6271E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
MAT NO. MODEL 1= WASTE-FILLED, 2=BACKFILLED
1 13 4
2 14 4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F

F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F

BF2_QB0600_TEST7_V011.INP

1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
2 31 27 1
TSTART, TMAX, MAXSTEPS
-1.5779E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTO, TSWITCH
8.6400E+00 8.6400E-04 1.7280E+09 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
3
0.0000E+00 8.6400E+02
3.1666E+09 8.6400E+02
3.1666E+10 8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
2 0 2 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
2
USER REQUESTED PRINTOUT TIMES
0.0000E+00 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
1
USER REQUESTED RESTART TIMES
3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0 1 0
0
0 0 0 0 0 0 0 1 1 0
0
0 0 0 0 0 0 0
BINARY PRINT FLAGS
1 1 0 0 0 1 0 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0 0 0
0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0
0 0 0 0 0 0 0
HISTORY VARIABLE OUTPUT
8
1 4 NAME=BRINE PRESSURE
11 8 1 17 8 1 11 1 1 22 6 1
2 1 NAME=GAS PRESSURE
22 12 1
10 6 NAME=GAS DENSITY
7 6 1 7 12 1 7 14 1 25 6 1 25 12 1 25 14 1
18 30 NAME=GAS SATURATION
8 8 1 9 8 1 10 8 1 11 8 1 12 8 1 13 8 1
14 8 1 8 9 1 9 9 1 10 9 1 11 9 1 12 9 1
13 9 1 14 9 1 8 10 1 9 10 1 10 10 1 11 10 1
12 10 1 13 10 1 14 10 1 16 8 1 17 8 1 18 8 1
16 9 1 17 9 1 18 9 1 16 10 1 17 10 1 18 10 1
31 140 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1
22 24 1 22 25 1 22 26 1 22 27 1 23 6 1 23 7 1
23 8 1 23 9 1 23 10 1 23 11 1 23 12 1 23 13 1
23 14 1 23 15 1 23 16 1 23 17 1 23 18 1 23 19 1

23 20	1	23 21	1	23 22	1	23 23	1	23 24	1	23 25	1
23 26	1	23 27	1	11 1	1	11 2	1	11 3	1	11 4	1
11 5	1	11 6	1	11 7	1	11 8	1	11 9	1	11 10	1
11 11	1	11 12	1	11 13	1	11 14	1	11 15	1	11 16	1
11 17	1	11 18	1	11 19	1	11 20	1	11 21	1	11 22	1
11 23	1	11 24	1	11 25	1	11 26	1	11 27	1	12 1	1
12 2	1	12 3	1	12 4	1	12 5	1	12 6	1	12 7	1
12 8	1	12 9	1	12 10	1	12 11	1	12 12	1	12 13	1
12 14	1	12 15	1	12 16	1	12 17	1	12 18	1	12 19	1
12 20	1	12 21	1	12 22	1	12 23	1	12 24	1	12 25	1
12 26	1	12 27	1								
32	69	NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION									
8 11	1	9 11	1	10 11	1	11 11	1	12 11	1	13 11	1
14 11	1	8 8	1	9 8	1	10 8	1	11 8	1	12 8	1
13 8	1	14 8	1	16 11	1	17 11	1	18 11	1	16 8	1
17 8	1	18 8	1	22 6	1	22 7	1	22 8	1	22 9	1
22 10	1	22 11	1	22 12	1	22 13	1	22 14	1	22 15	1
22 16	1	22 17	1	22 18	1	22 19	1	22 20	1	22 21	1
22 22	1	22 23	1	22 24	1	22 25	1	22 26	1	22 27	1
11 1	1	11 2	1	11 3	1	11 4	1	11 5	1	11 6	1
11 7	1	11 8	1	11 9	1	11 10	1	11 11	1	11 12	1
11 13	1	11 14	1	11 15	1	11 16	1	11 17	1	11 18	1
11 19	1	11 20	1	11 21	1	11 22	1	11 23	1	11 24	1
11 25	1	11 26	1	11 27	1						
34	140	NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION									
3 6	1	3 12	1	3 14	1	3 19	1	3 20	1	3 21	1
3 22	1	3 23	1	3 24	1	3 25	1	3 26	1	3 27	1
30 6	1	30 12	1	30 14	1	30 19	1	30 20	1	30 21	1
30 22	1	30 23	1	30 24	1	30 25	1	30 26	1	30 27	1
8 6	1	8 12	1	8 14	1	25 6	1	25 12	1	25 14	1
16 8	1	16 9	1	16 10	1	19 8	1	19 9	1	19 10	1
8 8	1	8 9	1	8 10	1	15 8	1	15 9	1	15 10	1
22 6	1	22 7	1	22 8	1	22 9	1	22 10	1	22 11	1
22 12	1	22 13	1	22 14	1	22 15	1	22 16	1	22 17	1
22 18	1	22 19	1	22 20	1	22 21	1	22 22	1	22 23	1
22 24	1	22 25	1	22 26	1	22 27	1	23 6	1	23 7	1
23 8	1	23 9	1	23 10	1	23 11	1	23 12	1	23 13	1
23 14	1	23 15	1	23 16	1	23 17	1	23 18	1	23 19	1
23 20	1	23 21	1	23 22	1	23 23	1	23 24	1	23 25	1
23 26	1	23 27	1	11 1	1	11 2	1	11 3	1	11 4	1
11 5	1	11 6	1	11 7	1	11 8	1	11 9	1	11 10	1
11 11	1	11 12	1	11 13	1	11 14	1	11 15	1	11 16	1
11 17	1	11 18	1	11 19	1	11 20	1	11 21	1	11 22	1
11 23	1	11 24	1	11 25	1	11 26	1	11 27	1	12 1	1
12 2	1	12 3	1	12 4	1	12 5	1	12 6	1	12 7	1
12 8	1	12 9	1	12 10	1	12 11	1	12 12	1	12 13	1
12 14	1	12 15	1	12 16	1	12 17	1	12 18	1	12 19	1
12 20	1	12 21	1	12 22	1	12 23	1	12 24	1	12 25	1
12 26	1	12 27	1								
35	69	NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION									
8 11	1	9 11	1	10 11	1	11 11	1	12 11	1	13 11	1
14 11	1	8 8	1	9 8	1	10 8	1	11 8	1	12 8	1
13 8	1	14 8	1	16 11	1	17 11	1	18 11	1	16 8	1
17 8	1	18 8	1	22 6	1	22 7	1	22 8	1	22 9	1
22 10	1	22 11	1	22 12	1	22 13	1	22 14	1	22 15	1
22 16	1	22 17	1	22 18	1	22 19	1	22 20	1	22 21	1
22 22	1	22 23	1	22 24	1	22 25	1	22 26	1	22 27	1
11 1	1	11 2	1	11 3	1	11 4	1	11 5	1	11 6	1
11 7	1	11 8	1	11 9	1	11 10	1	11 11	1	11 12	1
11 13	1	11 14	1	11 15	1	11 16	1	11 17	1	11 18	1
11 19	1	11 20	1	11 21	1	11 22	1	11 23	1	11 24	1
11 25	1	11 26	1	11 27	1						

MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
 3
 MONITOR BLOCKS (I,J,K)
 11 10 1
 17 10 1
 25 12 1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
 1 2 1 7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04 5.000000E+03 1.750000E+03 5.000000E+02 1.000000E+02 4.000000E+01
 1.000000E+01 4.380000E+01 1.000000E+01 2.000000E+00 3.715064E-01 2.000000E+00
 1.000000E+01 4.380000E+01 4.000000E+01 1.000000E+02 4.950000E+02 1.000000E+02

8.653501E+02	8.653501E+02	8.653501E+02	8.652760E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02					
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.269166E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02					
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03					
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031031E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03					
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.038910E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03					

WELL DATA

0

DIRICHLET CONDITIONS

T	35					
1	20	1	T	F	8.520000E+05	0.000000E+00
31	20	1	T	F	8.520000E+05	0.000000E+00
1	22	1	T	F	9.000000E+05	0.000000E+00
31	22	1	T	F	9.000000E+05	0.000000E+00
1	27	1	T	T	1.013250E+05	2.000000E-01
2	27	1	T	T	1.013250E+05	2.000000E-01
3	27	1	T	T	1.013250E+05	2.000000E-01
4	27	1	T	T	1.013250E+05	2.000000E-01
5	27	1	T	T	1.013250E+05	2.000000E-01
6	27	1	T	T	1.013250E+05	2.000000E-01
7	27	1	T	T	1.013250E+05	2.000000E-01
8	27	1	T	T	1.013250E+05	2.000000E-01
9	27	1	T	T	1.013250E+05	2.000000E-01
10	27	1	T	T	1.013250E+05	2.000000E-01
11	27	1	T	T	1.013250E+05	2.000000E-01
12	27	1	T	T	1.013250E+05	2.000000E-01
13	27	1	T	T	1.013250E+05	2.000000E-01
14	27	1	T	T	1.013250E+05	2.000000E-01
15	27	1	T	T	1.013250E+05	2.000000E-01
16	27	1	T	T	1.013250E+05	2.000000E-01
17	27	1	T	T	1.013250E+05	2.000000E-01
18	27	1	T	T	1.013250E+05	2.000000E-01
19	27	1	T	T	1.013250E+05	2.000000E-01
20	27	1	T	T	1.013250E+05	2.000000E-01
21	27	1	T	T	1.013250E+05	2.000000E-01
22	27	1	T	T	1.013250E+05	2.000000E-01
23	27	1	T	T	1.013250E+05	2.000000E-01
24	27	1	T	T	1.013250E+05	2.000000E-01
25	27	1	T	T	1.013250E+05	2.000000E-01
26	27	1	T	T	1.013250E+05	2.000000E-01
27	27	1	T	T	1.013250E+05	2.000000E-01
28	27	1	T	T	1.013250E+05	2.000000E-01
29	27	1	T	T	1.013250E+05	2.000000E-01
30	27	1	T	T	1.013250E+05	2.000000E-01
31	27	1	T	T	1.013250E+05	2.000000E-01

GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS

1.515225E+07	1.515225E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.515225E+07
1.515225E+07				
1.485060E+07	1.485060E+07	1.485060E+07	1.485060E+07	1.485060E+07
1.485060E+07	1.485060E+07	1.485060E+07	1.485060E+07	1.485060E+07

1.485060E+07	1.485060E+07	1.485060E+07	1.485060E+07	1.485060E+07
1.485060E+07	1.485060E+07	1.485060E+07	1.485060E+07	1.485060E+07
1.485060E+07	1.485060E+07	1.485060E+07	1.485060E+07	1.485060E+07
1.485060E+07	1.485060E+07	1.485060E+07	1.485060E+07	1.485060E+07
1.485060E+07	1.485060E+07	1.485060E+07	1.485060E+07	1.485060E+07
1.712447E+07	1.502290E+07	1.431362E+07	1.407719E+07	1.401415E+07
1.399944E+07	1.399418E+07	1.398853E+07	1.398288E+07	1.398161E+07
1.398136E+07	1.398111E+07	1.397985E+07	1.397420E+07	1.396539E+07
1.395068E+07	1.388816E+07	1.382564E+07	1.380672E+07	1.376858E+07
1.373359E+07	1.372728E+07	1.371993E+07	1.366108E+07	1.360749E+07
1.360224E+07	1.358753E+07	1.352448E+07	1.328806E+07	1.257878E+07
1.047721E+07				
1.598574E+07	1.388417E+07	1.317489E+07	1.293846E+07	1.287542E+07
1.286071E+07	1.285545E+07	1.284980E+07	1.284415E+07	1.284289E+07
1.284263E+07	1.284238E+07	1.284112E+07	1.283547E+07	1.282666E+07
1.281195E+07	1.274943E+07	1.268691E+07	1.266799E+07	1.262985E+07
1.259486E+07	1.258855E+07	1.258120E+07	1.252235E+07	1.246876E+07
1.246351E+07	1.244880E+07	1.238575E+07	1.214933E+07	1.144005E+07
9.338480E+06				
1.561852E+07	1.351695E+07	1.280768E+07	1.257125E+07	1.250820E+07
1.249349E+07	1.248824E+07	1.248258E+07	1.247693E+07	1.247567E+07
1.247542E+07	1.247516E+07	1.247390E+07	1.246825E+07	1.245945E+07
1.244473E+07	1.238221E+07	1.231969E+07	1.230078E+07	1.226263E+07
1.222764E+07	1.222134E+07	1.221398E+07	1.215514E+07	1.210155E+07
1.209629E+07	1.208158E+07	1.201854E+07	1.178211E+07	1.107283E+07
8.971264E+06				
1.554718E+07	1.344562E+07	1.273634E+07	1.249991E+07	1.243687E+07
1.242215E+07	1.241690E+07	1.241125E+07	1.240559E+07	1.240433E+07
1.240408E+07	1.240383E+07	1.240257E+07	1.239691E+07	1.238811E+07
1.237340E+07	1.231088E+07	1.224835E+07	1.222944E+07	1.219130E+07
1.215631E+07	1.013250E+05	1.214265E+07	1.208380E+07	1.203021E+07
1.202496E+07	1.201025E+07	1.194720E+07	1.171077E+07	1.100150E+07
8.899928E+06				
1.553376E+07	1.343219E+07	1.272291E+07	1.248649E+07	1.242344E+07
1.240873E+07	1.240348E+07	1.239782E+07	1.239217E+07	1.239091E+07
1.239066E+07	1.239040E+07	1.238914E+07	1.238349E+07	1.237468E+07
1.235997E+07	1.229745E+07	1.223493E+07	1.221602E+07	1.217787E+07
1.214288E+07	1.013250E+05	1.212922E+07	1.207038E+07	1.201679E+07
1.201153E+07	1.199682E+07	1.193378E+07	1.169735E+07	1.098807E+07
8.886503E+06				
1.551750E+07	1.341594E+07	1.270666E+07	1.247023E+07	1.240718E+07
1.239247E+07	1.238722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.199528E+07	1.198056E+07	1.191752E+07	1.168109E+07	1.097181E+07
8.870245E+06				
1.550160E+07	1.340003E+07	1.269075E+07	1.245433E+07	1.239128E+07
1.237657E+07	1.237132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.197937E+07	1.196466E+07	1.190161E+07	1.166519E+07	1.095591E+07
8.854342E+06				
1.548570E+07	1.338413E+07	1.267485E+07	1.243843E+07	1.237538E+07
1.236067E+07	1.235541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.196347E+07	1.194876E+07	1.188571E+07	1.164929E+07	1.094001E+07
8.838441E+06				
1.546199E+07	1.336042E+07	1.265114E+07	1.241472E+07	1.235167E+07
1.233696E+07	1.233170E+07	1.232605E+07	1.232040E+07	1.231914E+07
1.231888E+07	1.231863E+07	1.231737E+07	1.231172E+07	1.230291E+07
1.228820E+07	1.222568E+07	1.216316E+07	1.214424E+07	1.210610E+07
1.207111E+07	1.013250E+05	1.205745E+07	1.199860E+07	1.194502E+07
1.193976E+07	1.192505E+07	1.186200E+07	1.162558E+07	1.091630E+07
8.814732E+06				
1.544460E+07	1.334304E+07	1.263376E+07	1.239733E+07	1.233429E+07
1.231957E+07	1.231432E+07	1.230867E+07	1.230301E+07	1.230175E+07
1.230150E+07	1.230125E+07	1.229999E+07	1.229433E+07	1.228553E+07
1.227082E+07	1.220830E+07	1.214577E+07	1.212686E+07	1.208872E+07
1.205373E+07	1.013250E+05	1.204007E+07	1.198122E+07	1.192763E+07
1.192238E+07	1.190767E+07	1.184462E+07	1.160819E+07	1.089892E+07
8.797348E+06				
1.538844E+07	1.328687E+07	1.257759E+07	1.234117E+07	1.227812E+07

1.226341E+07	1.225815E+07	1.225250E+07	1.224685E+07	1.224559E+07
1.224533E+07	1.224508E+07	1.224382E+07	1.223817E+07	1.222936E+07
1.221465E+07	1.215213E+07	1.208961E+07	1.207069E+07	1.203255E+07
1.199756E+07	1.013250E+05	1.198390E+07	1.192506E+07	1.187147E+07
1.186621E+07	1.185150E+07	1.178845E+07	1.155203E+07	1.084275E+07
8.741182E+06				
1.533281E+07	1.323125E+07	1.252197E+07	1.228554E+07	1.222250E+07
1.220778E+07	1.220253E+07	1.219688E+07	1.219122E+07	1.218996E+07
1.218971E+07	1.218946E+07	1.218820E+07	1.218254E+07	1.217374E+07
1.215903E+07	1.209651E+07	1.203398E+07	1.201507E+07	1.197693E+07
1.194194E+07	1.013250E+05	1.192828E+07	1.186943E+07	1.181584E+07
1.181059E+07	1.179588E+07	1.173283E+07	1.149640E+07	1.078713E+07
8.685558E+06				
1.496463E+07	1.286307E+07	1.215379E+07	1.191736E+07	1.185432E+07
1.183961E+07	1.183435E+07	1.182870E+07	1.182304E+07	1.182178E+07
1.182153E+07	1.182128E+07	1.182002E+07	1.181437E+07	1.180556E+07
1.179085E+07	1.172833E+07	1.166580E+07	1.164689E+07	1.160875E+07
1.157376E+07	1.013250E+05	1.156010E+07	1.150125E+07	1.144766E+07
1.144241E+07	1.142770E+07	1.136465E+07	1.112822E+07	1.041895E+07
8.317379E+06				
1.364320E+07	1.154163E+07	1.083235E+07	1.059593E+07	1.053288E+07
1.051817E+07	1.051292E+07	1.050726E+07	1.050161E+07	1.050035E+07
1.050010E+07	1.049984E+07	1.049858E+07	1.049293E+07	1.048412E+07
1.046941E+07	1.040689E+07	1.034437E+07	1.032546E+07	1.028731E+07
1.025232E+07	1.013250E+05	1.023866E+07	1.017982E+07	1.012623E+07
1.012097E+07	1.010626E+07	1.004322E+07	9.806788E+06	9.097510E+06
6.995944E+06				
1.173452E+07	9.632952E+06	8.923673E+06	8.687247E+06	8.624200E+06
8.609489E+06	8.604235E+06	8.598582E+06	8.592928E+06	8.591667E+06
8.591415E+06	8.591163E+06	8.589902E+06	8.584249E+06	8.575443E+06
8.560732E+06	8.498211E+06	8.435689E+06	8.416775E+06	8.378632E+06
8.343641E+06	1.013250E+05	8.329980E+06	8.271136E+06	8.217547E+06
8.212292E+06	8.197582E+06	8.134535E+06	7.898108E+06	7.188830E+06
5.087264E+06				
1.074960E+07	8.648031E+06	7.938752E+06	7.702325E+06	7.639278E+06
7.624567E+06	7.619314E+06	7.613661E+06	7.608007E+06	7.605746E+06
7.606493E+06	7.606241E+06	7.604981E+06	7.599328E+06	7.590522E+06
7.575811E+06	7.513289E+06	7.450768E+06	7.431853E+06	7.393710E+06
7.358719E+06	1.013250E+05	7.345059E+06	7.286215E+06	7.232625E+06
7.227371E+06	7.212660E+06	7.149613E+06	6.913187E+06	6.203909E+06
4.102342E+06				
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	1.013250E+05	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06				
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	1.013250E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05				
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.013250E+05	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06				
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	1.013250E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05				
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.013250E+05	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06				


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26 SHFT_B_2
27 SHFT_L_1
28 SHFT_L_2
29 SHFT_U_1
30 SHFT_U_2
31 SHFT_LS1
32 SHFT_LS2
33 SHFT_US1
34 SHFT_US2
35 PAN_S_1
36 PAN_S_2
37 BOREHOLE
38 TRANS_1
39 CAVITY_5
NWST
2
MAT_WASTE1 MAT_WASTE
7 8
13 14
NDRZ
0
NMATRESET
5
MATRESET
7 8 9 10 39
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000E+00 1
POWASTEIC
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
SOWASTEIC
0.000000E+00
0.000000E+00
0.000000E+00
0.250000E+00
0.200000E+00
PRESDRZ

NBORERESET
0
# LAMBDA SOR SGR
1 2.635000E+00 1.620000E-01 2.081000E-01
2 2.635000E+00 0.000000E+00 0.000000E+00
3 2.635000E+00 0.000000E+00 0.000000E+00
4 8.812000E+00 1.971000E-01 1.738000E-01
5 8.812000E+00 1.971000E-01 1.738000E-01
6 8.812000E+00 1.971000E-01 1.738000E-01
7 7.000000E-01 0.000000E+00 0.000000E+00
8 7.000000E-01 0.000000E+00 0.000000E+00
9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 3.094000E-01 9.721000E-02 3.312000E-01
14 3.094000E-01 9.721000E-02 3.312000E-01
15 2.635000E+00 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
28 7.000000E-01 2.000000E-01 2.000000E-01
29 7.000000E-01 2.000000E-01 2.000000E-01
30 7.000000E-01 2.000000E-01 2.000000E-01
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31	7.000000E-01	2.000000E-01	2.000000E-01						
32	7.000000E-01	2.000000E-01	2.000000E-01						
33	7.000000E-01	2.000000E-01	2.000000E-01						
34	7.000000E-01	2.000000E-01	2.000000E-01						
35	7.000000E-01	2.000000E-01	2.000000E-01						
36	7.000000E-01	2.000000E-01	2.000000E-01						
37	7.000000E-01	2.000000E-01	0.000000E+00						
38	2.635000E+00	0.000000E+00	0.000000E+00						
39	7.000000E-01	0.000000E+00	0.000000E+00						
#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP	
1	1.701000E-01	1.013250E+05	1.000000E+08	1.882000E+07	0.000000E+00	4	2	0	
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
4	2.069550E-01	1.013250E+05	1.000000E+08	3.206266E-03	-3.460000E-01	4	2	0	
5	2.069550E-01	1.013250E+05	1.000000E+08	3.206266E-03	-3.460000E-01	4	2	0	
6	2.069550E-01	1.013250E+05	1.000000E+08	3.206266E-03	-3.460000E-01	4	2	0	
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
13	1.020705E-01	1.013250E+05	1.000000E+08	5.467491E-01	-3.460000E-01	4	4	0	
14	1.020705E-01	1.013250E+05	1.000000E+08	5.467491E-01	-3.460000E-01	4	4	0	
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0	
32	2.100000E-01	1.013250E+05	1.000000E+08	7.573691E+05	0.000000E+00	4	2	0	
33	2.100000E-01	1.013250E+05	1.000000E+08	7.573691E+05	0.000000E+00	4	2	0	
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0	
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
#	PERMX	PERMY	PERMZ	POROSITY	COMPRES				
1	2.238723E-21	2.238723E-21	2.238723E-21	3.465000E-03	1.772252E-08				
2	1.000000E-15	1.000000E-15	1.000000E-15	3.465000E-03	2.394174E-07				
3	1.000000E-15	1.000000E-15	1.000000E-15	3.465000E-03	2.394174E-07				
4	3.890453E-16	3.890453E-16	3.890453E-16	3.192000E-02	3.886298E-10				
5	3.890453E-16	3.890453E-16	3.890453E-16	3.192000E-02	3.886298E-10				
6	3.890453E-16	3.890453E-16	3.890453E-16	3.192000E-02	3.886298E-10				
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00				
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00				
9	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00				
10	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00				
11	0.000000E+00	0.000000E+00	0.000000E+00	5.000000E-03	0.000000E+00				
12	1.330453E-11	1.330453E-11	1.330453E-11	5.200000E-03	1.923077E-07				
13	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09				
14	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09				
15	1.000000E-15	1.000000E-15	1.000000E-15	3.465000E-03	2.394174E-07				
16	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00				
17	2.648502E-13	2.648502E-13	2.648502E-13	1.460000E-01	1.417160E-09				
18	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00				
19	1.096478E-16	1.096478E-16	1.096478E-16	9.000000E-02	2.199962E-09				
20	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00				
21	9.332549E-16	9.332549E-16	9.332549E-16	1.500000E-01	6.666667E-08				
22	1.000000E-10	1.000000E-10	1.000000E-10	1.750000E-01	5.714286E-08				
23	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00				
24	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00				
25	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08				
26	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08				

```
27 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
32 1.905464E-18 1.905464E-18 1.905464E-18 5.000000E-02 2.000000E-08
33 1.905464E-18 1.905464E-18 1.905464E-18 5.000000E-02 2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
37 1.412536E-13 1.412536E-13 1.412536E-13 3.700000E-01 0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15 3.465000E-03 2.394174E-07
39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
T
NFRAC
3
# DELTA_PI DELTA_PF FRAC_PHI FRAC_EXP IFRX IFRY IFRZ
4 2.390000E+06 2.500000E+06 4.192000E-02 5.434274E+01 1 1 0
5 2.390000E+06 2.500000E+06 4.192000E-02 5.434274E+01 1 1 0
6 2.390000E+06 2.500000E+06 4.192000E-02 5.434274E+01 1 1 0
KLINKENBERG EFFECT TO BE USED? True or False
T
BKLINK EXPKLINK
9.800000E-01 -3.300000E-01
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01320E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.800000E-03 8.920000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.0000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
5.6569E-06 0.0000E+00 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
4.9875E-04 0.0000E+00
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
```

RATE COEFFICIENTS: RXH2S AND RXCO2
6.7970E-01 0.0000E+00
6.7970E-01 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_Fes,S_MgO,S_MgOH2,S_MgCO3
1.0604E+00 -1.8792E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.4000E+03 4.7000E+03 1.1000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.3700E+03 3.0500E+03 2.1700E+03
WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
MAT NO. MODEL 1= WASTE-FILLED, 2=BACKFILLED
1 13 4
2 14 4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F

BF2_QB0600_TEST7_V012.INP

1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
2 31 27 1
TSTART, TMAX, MAXSTEPS
-1.5779E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, IAUTODT, TSWITCH
8.6400E+00 8.6400E-04 1.7280E+09 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
3
0.0000E+00 8.6400E+02
3.1666E+09 8.6400E+02
3.1666E+10 8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
2 0 2 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
2
USER REQUESTED PRINTOUT TIMES
0.0000E+00 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRTBIN
20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
1
USER REQUESTED RESTART TIMES
3.1557E+11
ASCII PRINT FLAGS

1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
0
0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0
0 0 0 0 0 0 0

BINARY PRINT FLAGS

1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0 0
0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0
0 0 0 0 0 0

HISTORY VARIABLE OUTPUT

8
1 4 NAME=BRINE PRESSURE
11 8 1 17 8 1 11 1 1 22 6 1
2 1 NAME=GAS PRESSURE
22 12 1
10 6 NAME=GAS DENSITY
7 6 1 7 12 1 7 14 1 25 6 1 25 12 1 25 14 1
18 30 NAME=GAS SATURATION
8 8 1 9 8 1 10 8 1 11 8 1 12 8 1 13 8 1
14 8 1 8 9 1 9 9 1 10 9 1 11 9 1 12 9 1
13 9 1 14 9 1 8 10 1 9 10 1 10 10 1 11 10 1
12 10 1 13 10 1 14 10 1 16 8 1 17 8 1 18 8 1
16 9 1 17 9 1 18 9 1 16 10 1 17 10 1 18 10 1
31 140 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1
22 24 1 22 25 1 22 26 1 22 27 1 23 6 1 23 7 1
23 8 1 23 9 1 23 10 1 23 11 1 23 12 1 23 13 1
23 14 1 23 15 1 23 16 1 23 17 1 23 18 1 23 19 1
23 20 1 23 21 1 23 22 1 23 23 1 23 24 1 23 25 1
23 26 1 23 27 1 11 1 1 11 2 1 11 3 1 11 4 1
11 5 1 11 6 1 11 7 1 11 8 1 11 9 1 11 10 1
11 11 1 11 12 1 11 13 1 11 14 1 11 15 1 11 16 1
11 17 1 11 18 1 11 19 1 11 20 1 11 21 1 11 22 1
11 23 1 11 24 1 11 25 1 11 26 1 11 27 1 12 1 1
12 2 1 12 3 1 12 4 1 12 5 1 12 6 1 12 7 1
12 8 1 12 9 1 12 10 1 12 11 1 12 12 1 12 13 1
12 14 1 12 15 1 12 16 1 12 17 1 12 18 1 12 19 1
12 20 1 12 21 1 12 22 1 12 23 1 12 24 1 12 25 1
12 26 1 12 27 1
32 69 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
8 11 1 9 11 1 10 11 1 11 11 1 12 11 1 13 11 1
14 11 1 8 8 1 9 8 1 10 8 1 11 8 1 12 8 1
13 8 1 14 8 1 16 11 1 17 11 1 18 11 1 16 8 1
17 8 1 18 8 1 22 6 1 22 7 1 22 8 1 22 9 1
22 10 1 22 11 1 22 12 1 22 13 1 22 14 1 22 15 1
22 16 1 22 17 1 22 18 1 22 19 1 22 20 1 22 21 1
22 22 1 22 23 1 22 24 1 22 25 1 22 26 1 22 27 1
11 1 1 11 2 1 11 3 1 11 4 1 11 5 1 11 6 1
11 7 1 11 8 1 11 9 1 11 10 1 11 11 1 11 12 1
11 13 1 11 14 1 11 15 1 11 16 1 11 17 1 11 18 1
11 19 1 11 20 1 11 21 1 11 22 1 11 23 1 11 24 1
11 25 1 11 26 1 11 27 1
34 140 NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1
22 24 1 22 25 1 22 26 1 22 27 1 23 6 1 23 7 1
23 8 1 23 9 1 23 10 1 23 11 1 23 12 1 23 13 1

23 14	1	23 15	1	23 16	1	23 17	1	23 18	1	23 19	1
23 20	1	23 21	1	23 22	1	23 23	1	23 24	1	23 25	1
23 26	1	23 27	1	11 1	1	11 2	1	11 3	1	11 4	1
11 5	1	11 6	1	11 7	1	11 8	1	11 9	1	11 10	1
11 11	1	11 12	1	11 13	1	11 14	1	11 15	1	11 16	1
11 17	1	11 18	1	11 19	1	11 20	1	11 21	1	11 22	1
11 23	1	11 24	1	11 25	1	11 26	1	11 27	1	12 1	1
12 2	1	12 3	1	12 4	1	12 5	1	12 6	1	12 7	1
12 8	1	12 9	1	12 10	1	12 11	1	12 12	1	12 13	1
12 14	1	12 15	1	12 16	1	12 17	1	12 18	1	12 19	1
12 20	1	12 21	1	12 22	1	12 23	1	12 24	1	12 25	1
12 26	1	12 27	1								

35	69	NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION									
8 11	1	9 11	1	10 11	1	11 11	1	12 11	1	13 11	1
14 11	1	8 8	1	9 8	1	10 8	1	11 8	1	12 8	1
13 8	1	14 8	1	16 11	1	17 11	1	18 11	1	16 8	1
17 8	1	18 8	1	22 6	1	22 7	1	22 8	1	22 9	1
22 10	1	22 11	1	22 12	1	22 13	1	22 14	1	22 15	1
22 16	1	22 17	1	22 18	1	22 19	1	22 20	1	22 21	1
22 22	1	22 23	1	22 24	1	22 25	1	22 26	1	22 27	1
11 1	1	11 2	1	11 3	1	11 4	1	11 5	1	11 6	1
11 7	1	11 8	1	11 9	1	11 10	1	11 11	1	11 12	1
11 13	1	11 14	1	11 15	1	11 16	1	11 17	1	11 18	1
11 19	1	11 20	1	11 21	1	11 22	1	11 23	1	11 24	1
11 25	1	11 26	1	11 27	1						

MONITOR PARAMETER VALUES AT GRIDBLOCK(S)

T
 NUMBER OF MONITOR BLOCKS
 3

MONITOR BLOCKS (I,J,K)
 11 10 1
 17 10 1
 25 12 1

GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG

1	2	1	7		
GRID DATA CARDS: GRID BLOCK DX'S					
1.500000E+04	5.000000E+03	1.750000E+03	5.000000E+02	1.000000E+02	
4.000000E+01					
1.000000E+01	4.380000E+01	1.000000E+01	2.000000E+00	2.996333E-01	
2.000000E+00					
1.000000E+01	4.380000E+01	4.000000E+01	1.000000E+02	4.950000E+02	
1.000000E+02					
8.000000E+01	2.830000E+02	5.000000E+01	1.000000E+01	6.000000E+01	
5.000000E+02					
1.000000E+01	4.000000E+01	1.000000E+02	5.000000E+02	1.750000E+03	
5.000000E+03					
1.500000E+04					

GRID DATA CARDS: GRID BLOCK DY'S					
2.728000E+00	4.737200E+01	1.391600E+02	5.000000E+01	1.100000E+01	
8.500000E-01					
1.380000E+00	1.320800E+00	1.320800E+00	1.320800E+00	2.617600E+00	
2.700000E-01					
9.060000E+00	1.800000E-01	6.098000E+01	1.585300E+02	1.585300E+02	
5.080000E+00					
3.600000E+01	7.700000E+00	2.480000E+01	8.500000E+00	1.730000E+01	
1.060000E+02					
4.330000E+01	1.566000E+01	1.000000E-01			

GRID DATA CARDS: GRID BLOCK DZ'S					
6.131430E+04	2.131430E+04	7.814300E+03	3.314300E+03	2.114300E+03	
1.834300E+03					
1.734300E+03	1.262000E+02	2.880000E+01	4.800000E+00	2.996333E-01	
4.800000E+00					
2.880000E+01	1.262000E+02	1.000000E+01	1.323000E+02	1.435000E+02	
1.416000E+02					
1.890000E+01	1.890000E+01	1.890000E+01	9.500000E+00	2.050000E+01	
5.310000E+01					
1.258900E+03	1.458900E+03	2.018900E+03	3.928000E+03	8.226900E+03	
2.172690E+04					
6.172690E+04					

GRID BLOCK ELEVATIONS					
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	
1.293640E+02					
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	
1.293640E+02					
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	
1.293640E+02					

3.729823E+02					
3.745530E+02	3.777206E+02	3.806265E+02	3.811501E+02	3.817609E+02	
3.866476E+02					
3.910979E+02	3.915342E+02	3.927559E+02	3.979916E+02	4.176256E+02	
4.765274E+02					
6.510515E+02					
1.003524E+02	2.748765E+02	3.337784E+02	3.534124E+02	3.586481E+02	
3.598698E+02					
3.603061E+02	3.607755E+02	3.612450E+02	3.613497E+02	3.613707E+02	
3.613916E+02					
3.614963E+02	3.619658E+02	3.626971E+02	3.639187E+02	3.691108E+02	
3.743029E+02					
3.758736E+02	3.790413E+02	3.819471E+02	3.824706E+02	3.830815E+02	
3.879681E+02					
3.924185E+02	3.928548E+02	3.940765E+02	3.993122E+02	4.189462E+02	
4.778481E+02					
6.523721E+02					
1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	
3.611903E+02					
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	
3.627122E+02					
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	
3.756235E+02					
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	
3.892888E+02					
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	
4.791686E+02					
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	
3.631592E+02					
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	
3.646811E+02					
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	
3.775924E+02					
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	
3.912577E+02					
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	
4.811375E+02					
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	
3.646028E+02					
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	
3.661247E+02					
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	
3.790360E+02					
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	
3.927012E+02					
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	
4.825811E+02					
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	
3.692671E+02					
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	
3.707890E+02					
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	
3.837003E+02					
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	
3.973655E+02					
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	
4.872454E+02					
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	
3.738864E+02					
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	
3.754083E+02					
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	
3.883196E+02					
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	
4.019848E+02					
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	
4.918647E+02					
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	
4.044618E+02					
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	
4.059836E+02					

4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02
4.188949E+02				
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02
4.325602E+02				
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02
5.224401E+02				
6.969641E+02				
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02
5.142001E+02				
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02
5.157219E+02				
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02
5.286332E+02				
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02
5.422985E+02				
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02
6.321783E+02				
8.067025E+02				
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02
6.727059E+02				
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02
6.742278E+02				
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02
6.871391E+02				
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02
7.008043E+02				
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02
7.906842E+02				
9.652083E+02				
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02
7.544985E+02				
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02
7.560204E+02				
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02
7.689317E+02				
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02
7.825969E+02				
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02
8.724768E+02				
1.047001E+03				
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02				
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8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
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8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
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WELL DATA
0
DIRICHLET CONDITIONS
T 35
1 20 1 T F 8.520000E+05 0.000000E+00
31 20 1 T F 8.520000E+05 0.000000E+00
1 22 1 T F 9.000000E+05 0.000000E+00
31 22 1 T F 9.000000E+05 0.000000E+00
1 27 1 T T 1.013250E+05 2.000000E-01
2 27 1 T T 1.013250E+05 2.000000E-01
3 27 1 T T 1.013250E+05 2.000000E-01
4 27 1 T T 1.013250E+05 2.000000E-01
5 27 1 T T 1.013250E+05 2.000000E-01
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6	27	1	T	T	1.013250E+05	2.000000E-01
7	27	1	T	T	1.013250E+05	2.000000E-01
8	27	1	T	T	1.013250E+05	2.000000E-01
9	27	1	T	T	1.013250E+05	2.000000E-01
10	27	1	T	T	1.013250E+05	2.000000E-01
11	27	1	T	T	1.013250E+05	2.000000E-01
12	27	1	T	T	1.013250E+05	2.000000E-01
13	27	1	T	T	1.013250E+05	2.000000E-01
14	27	1	T	T	1.013250E+05	2.000000E-01
15	27	1	T	T	1.013250E+05	2.000000E-01
16	27	1	T	T	1.013250E+05	2.000000E-01
17	27	1	T	T	1.013250E+05	2.000000E-01
18	27	1	T	T	1.013250E+05	2.000000E-01
19	27	1	T	T	1.013250E+05	2.000000E-01
20	27	1	T	T	1.013250E+05	2.000000E-01
21	27	1	T	T	1.013250E+05	2.000000E-01
22	27	1	T	T	1.013250E+05	2.000000E-01
23	27	1	T	T	1.013250E+05	2.000000E-01
24	27	1	T	T	1.013250E+05	2.000000E-01
25	27	1	T	T	1.013250E+05	2.000000E-01
26	27	1	T	T	1.013250E+05	2.000000E-01
27	27	1	T	T	1.013250E+05	2.000000E-01
28	27	1	T	T	1.013250E+05	2.000000E-01
29	27	1	T	T	1.013250E+05	2.000000E-01
30	27	1	T	T	1.013250E+05	2.000000E-01
31	27	1	T	T	1.013250E+05	2.000000E-01

GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS

1.526225E+07	1.526225E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.526225E+07
1.526225E+07				
1.496060E+07	1.496060E+07	1.496060E+07	1.496060E+07	1.496060E+07
1.496060E+07	1.496060E+07	1.496060E+07	1.496060E+07	1.496060E+07
1.496060E+07	1.496060E+07	1.496060E+07	1.496060E+07	1.496060E+07
1.496060E+07	1.496060E+07	1.496060E+07	1.496060E+07	1.496060E+07
1.496060E+07	1.496060E+07	1.496060E+07	1.496060E+07	1.496060E+07
1.496060E+07	1.496060E+07	1.496060E+07	1.496060E+07	1.496060E+07
1.496060E+07	1.496060E+07	1.496060E+07	1.496060E+07	1.496060E+07
1.496060E+07	1.496060E+07	1.496060E+07	1.496060E+07	1.496060E+07
1.723447E+07	1.513290E+07	1.442362E+07	1.418719E+07	1.412415E+07
1.410944E+07	1.410418E+07	1.409853E+07	1.409288E+07	1.409161E+07
1.409136E+07	1.409111E+07	1.408985E+07	1.408420E+07	1.407539E+07
1.406068E+07	1.399816E+07	1.393564E+07	1.391672E+07	1.387858E+07
1.384359E+07	1.383728E+07	1.382993E+07	1.377108E+07	1.371749E+07
1.371224E+07	1.369753E+07	1.363448E+07	1.339806E+07	1.268878E+07
1.058721E+07				
1.609574E+07	1.399417E+07	1.328489E+07	1.304846E+07	1.298542E+07
1.297071E+07	1.296545E+07	1.295980E+07	1.295415E+07	1.295289E+07
1.295263E+07	1.295238E+07	1.295112E+07	1.294547E+07	1.293666E+07
1.292195E+07	1.285943E+07	1.279691E+07	1.277799E+07	1.273985E+07
1.270486E+07	1.269855E+07	1.269120E+07	1.263235E+07	1.257876E+07
1.257351E+07	1.255880E+07	1.249575E+07	1.225933E+07	1.155005E+07
9.448480E+06				
1.572852E+07	1.362695E+07	1.291768E+07	1.268125E+07	1.261820E+07
1.260349E+07	1.259824E+07	1.259258E+07	1.258693E+07	1.258567E+07
1.258542E+07	1.258516E+07	1.258390E+07	1.257825E+07	1.256945E+07
1.255473E+07	1.249221E+07	1.242969E+07	1.241078E+07	1.237263E+07
1.233764E+07	1.233134E+07	1.232398E+07	1.226514E+07	1.221155E+07
1.220629E+07	1.219158E+07	1.212854E+07	1.189211E+07	1.118283E+07
9.081264E+06				
1.565718E+07	1.355562E+07	1.284634E+07	1.260991E+07	1.254687E+07
1.253215E+07	1.252690E+07	1.252125E+07	1.251559E+07	1.251433E+07
1.251408E+07	1.251383E+07	1.251257E+07	1.250691E+07	1.249811E+07
1.248340E+07	1.242088E+07	1.235835E+07	1.233944E+07	1.230130E+07
1.226631E+07	1.013250E+05	1.225265E+07	1.219380E+07	1.214021E+07
1.213496E+07	1.212025E+07	1.205720E+07	1.182077E+07	1.111150E+07
9.009928E+06				
1.564376E+07	1.354219E+07	1.283291E+07	1.259649E+07	1.253344E+07
1.251873E+07	1.251348E+07	1.250782E+07	1.250217E+07	1.250091E+07
1.250066E+07	1.250040E+07	1.249914E+07	1.249349E+07	1.248468E+07
1.246997E+07	1.240745E+07	1.234493E+07	1.232602E+07	1.228787E+07
1.225288E+07	1.013250E+05	1.223922E+07	1.218038E+07	1.212679E+07
1.212153E+07	1.210682E+07	1.204378E+07	1.180735E+07	1.109807E+07
8.996503E+06				

1.562750E+07	1.352594E+07	1.281666E+07	1.258023E+07	1.251718E+07
1.250247E+07	1.249722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.211053E+07
1.210528E+07	1.209056E+07	1.202752E+07	1.179109E+07	1.108181E+07
8.980245E+06				
1.561160E+07	1.351003E+07	1.280075E+07	1.256433E+07	1.250128E+07
1.248657E+07	1.248132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.209463E+07
1.208937E+07	1.207466E+07	1.201161E+07	1.177519E+07	1.106591E+07
8.964342E+06				
1.559570E+07	1.349413E+07	1.278485E+07	1.254843E+07	1.248538E+07
1.247067E+07	1.246541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.207872E+07
1.207347E+07	1.205876E+07	1.199571E+07	1.175929E+07	1.105001E+07
8.948441E+06				
1.557199E+07	1.347042E+07	1.276114E+07	1.252472E+07	1.246167E+07
1.244696E+07	1.244170E+07	1.243605E+07	1.243040E+07	1.242914E+07
1.242888E+07	1.242863E+07	1.242737E+07	1.242172E+07	1.241291E+07
1.239820E+07	1.233568E+07	1.227316E+07	1.225424E+07	1.221610E+07
1.218111E+07	1.013250E+05	1.216745E+07	1.210860E+07	1.205502E+07
1.204976E+07	1.203505E+07	1.197200E+07	1.173558E+07	1.102630E+07
8.924732E+06				
1.555460E+07	1.345304E+07	1.274376E+07	1.250733E+07	1.244429E+07
1.242957E+07	1.242432E+07	1.241867E+07	1.241301E+07	1.241175E+07
1.241150E+07	1.241125E+07	1.240999E+07	1.240433E+07	1.239553E+07
1.238082E+07	1.231830E+07	1.225577E+07	1.223686E+07	1.219872E+07
1.216373E+07	1.013250E+05	1.215007E+07	1.209122E+07	1.203763E+07
1.203238E+07	1.201767E+07	1.195462E+07	1.171819E+07	1.100892E+07
8.907348E+06				
1.549844E+07	1.339687E+07	1.268759E+07	1.245117E+07	1.238812E+07
1.237341E+07	1.236815E+07	1.236250E+07	1.235685E+07	1.235559E+07
1.235533E+07	1.235508E+07	1.235382E+07	1.234817E+07	1.233936E+07
1.232465E+07	1.226213E+07	1.219961E+07	1.218069E+07	1.214255E+07
1.210756E+07	1.013250E+05	1.209390E+07	1.203506E+07	1.198147E+07
1.197621E+07	1.196150E+07	1.189845E+07	1.166203E+07	1.095275E+07
8.851182E+06				
1.544281E+07	1.334125E+07	1.263197E+07	1.239554E+07	1.233250E+07
1.231778E+07	1.231253E+07	1.230688E+07	1.230122E+07	1.229996E+07
1.229971E+07	1.229946E+07	1.229820E+07	1.229254E+07	1.228374E+07
1.226903E+07	1.220651E+07	1.214398E+07	1.212507E+07	1.208693E+07
1.205194E+07	1.013250E+05	1.203828E+07	1.197943E+07	1.192584E+07
1.192059E+07	1.190588E+07	1.184283E+07	1.160640E+07	1.089713E+07
8.795558E+06				
1.507463E+07	1.297307E+07	1.226379E+07	1.202736E+07	1.196432E+07
1.194961E+07	1.194435E+07	1.193870E+07	1.193304E+07	1.193178E+07
1.193153E+07	1.193128E+07	1.193002E+07	1.192437E+07	1.191556E+07
1.190085E+07	1.183833E+07	1.177580E+07	1.175689E+07	1.171875E+07
1.168376E+07	1.013250E+05	1.167010E+07	1.161125E+07	1.155766E+07
1.155241E+07	1.153770E+07	1.147465E+07	1.123822E+07	1.052895E+07
8.427379E+06				
1.375320E+07	1.165163E+07	1.094235E+07	1.070593E+07	1.064288E+07
1.062817E+07	1.062292E+07	1.061726E+07	1.061161E+07	1.061035E+07
1.061010E+07	1.060984E+07	1.060858E+07	1.060293E+07	1.059412E+07
1.057941E+07	1.051689E+07	1.045437E+07	1.043546E+07	1.039731E+07
1.036232E+07	1.013250E+05	1.034866E+07	1.028982E+07	1.023623E+07
1.023097E+07	1.021626E+07	1.015322E+07	9.916788E+06	9.207510E+06
7.105944E+06				
1.184452E+07	9.742952E+06	9.033673E+06	8.797247E+06	8.734200E+06
8.719489E+06	8.714235E+06	8.708582E+06	8.702928E+06	8.701667E+06
8.701415E+06	8.701163E+06	8.699902E+06	8.694249E+06	8.685443E+06
8.670732E+06	8.608211E+06	8.545689E+06	8.526775E+06	8.488632E+06
8.453641E+06	1.013250E+05	8.439980E+06	8.381136E+06	8.327547E+06
8.322292E+06	8.307582E+06	8.244535E+06	8.008108E+06	7.298830E+06
5.197264E+06				
1.085960E+07	8.758031E+06	8.048752E+06	7.812325E+06	7.749278E+06
7.734567E+06	7.729314E+06	7.723661E+06	7.718007E+06	7.716746E+06
7.716493E+06	7.716241E+06	7.714981E+06	7.709328E+06	7.700522E+06
7.685811E+06	7.623289E+06	7.560768E+06	7.541853E+06	7.503710E+06
7.468719E+06	1.013250E+05	7.455059E+06	7.396215E+06	7.342625E+06
7.337371E+06	7.322660E+06	7.259613E+06	7.023187E+06	6.313909E+06

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#	NAME
1	S_HALITE
2	DRZ_0
3	TRANS_0
4	S_MB139
5	S_ANH_AB
6	S_MB138
7	CAVITY_1
8	CAVITY_2
9	CAVITY_3
10	CAVITY_4
11	IMPERM_Z
12	CASTILER
13	WAS_AREA
14	REPOSIT
15	DRZ_1
16	UNNAMED
17	CULEBRA
18	TAMARISK
19	MAGENTA
20	FORTYNIN
21	DEWYLAKE
22	SANTAROS
23	BACKFILL
24	EXP_AREA
25	SHFT_B_1
26	SHFT_B_2
27	SHFT_L_1
28	SHFT_L_2
29	SHFT_U_1
30	SHFT_U_2
31	SHFT_LS1
32	SHFT_LS2
33	SHFT_US1
34	SHFT_US2
35	PAN_S_1
36	PAN_S_2
37	BOREHOLE
38	TRANS_1
39	CAVITY_5

NWST
2
MAT_WASTE1 MAT_WASTE
7 8
13 14
NDRZ
0
NMATRESET
5
MATRESET
7 8 9 10 39
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000E+00 1
POWASTEIC
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
SOWASTEIC
0.000000E+00
0.000000E+00
0.000000E+00
0.250000E+00

0.200000E+00
 PRES DRZ

NBORERESET

0

#	LAMBDA	SOR	SGR
1	6.297000E+00	5.265000E-01	1.272000E-01
2	6.297000E+00	0.000000E+00	0.000000E+00
3	6.297000E+00	0.000000E+00	0.000000E+00
4	3.342000E+00	9.666000E-02	2.598000E-01
5	3.342000E+00	9.666000E-02	2.598000E-01
6	3.342000E+00	9.666000E-02	2.598000E-01
7	7.000000E-01	0.000000E+00	0.000000E+00
8	7.000000E-01	0.000000E+00	0.000000E+00
9	7.000000E-01	0.000000E+00	0.000000E+00
10	7.000000E-01	0.000000E+00	0.000000E+00
11	1.000000E+00	0.000000E+00	0.000000E+00
12	7.000000E-01	2.000000E-01	2.000000E-01
13	2.260000E-01	1.006000E-01	4.594000E-02
14	2.260000E-01	1.006000E-01	4.594000E-02
15	6.297000E+00	0.000000E+00	0.000000E+00
16	7.000000E-01	2.000000E-01	2.000000E-01
17	7.000000E-01	2.000000E-01	2.000000E-01
18	7.000000E-01	2.000000E-01	2.000000E-01
19	7.000000E-01	2.000000E-01	2.000000E-01
20	7.000000E-01	2.000000E-01	2.000000E-01
21	7.000000E-01	2.000000E-01	2.000000E-01
22	7.000000E-01	2.000000E-01	2.000000E-01
23	7.000000E-01	0.000000E+00	0.000000E+00
24	7.000000E-01	0.000000E+00	0.000000E+00
25	7.000000E-01	2.000000E-01	2.000000E-01
26	7.000000E-01	2.000000E-01	2.000000E-01
27	7.000000E-01	2.000000E-01	2.000000E-01
28	7.000000E-01	2.000000E-01	2.000000E-01
29	7.000000E-01	2.000000E-01	2.000000E-01
30	7.000000E-01	2.000000E-01	2.000000E-01
31	7.000000E-01	2.000000E-01	2.000000E-01
32	7.000000E-01	2.000000E-01	2.000000E-01
33	7.000000E-01	2.000000E-01	2.000000E-01
34	7.000000E-01	2.000000E-01	2.000000E-01
35	7.000000E-01	2.000000E-01	2.000000E-01
36	7.000000E-01	2.000000E-01	2.000000E-01
37	7.000000E-01	2.000000E-01	0.000000E+00
38	6.297000E+00	0.000000E+00	0.000000E+00
39	7.000000E-01	0.000000E+00	0.000000E+00

#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP
1	5.528250E-01	1.013250E+05	1.000000E+08	5.042000E+07	0.000000E+00	4	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
4	1.014930E-01	1.013250E+05	1.000000E+08	1.694338E-03	-3.460000E-01	4	2	0
5	1.014930E-01	1.013250E+05	1.000000E+08	1.694338E-03	-3.460000E-01	4	2	0
6	1.014930E-01	1.013250E+05	1.000000E+08	1.694338E-03	-3.460000E-01	4	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	1.056300E-01	1.013250E+05	1.000000E+08	1.496194E+00	-3.460000E-01	4	4	0
14	1.056300E-01	1.013250E+05	1.000000E+08	1.496194E+00	-3.460000E-01	4	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0

31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	4.584878E+05	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	4.584878E+05	0.000000E+00	4	2	0
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0

#	PERMX	PERMY	PERMZ	POROSITY	COMPRES
1	2.884025E-24	2.884025E-24	2.884025E-24	1.690000E-02	2.134654E-09
2	1.000000E-15	1.000000E-15	1.000000E-15	1.690000E-02	4.888892E-08
3	1.000000E-15	1.000000E-15	1.000000E-15	1.690000E-02	4.888892E-08
4	8.709646E-20	8.709646E-20	8.709646E-20	7.084000E-02	1.612232E-09
5	8.709646E-20	8.709646E-20	8.709646E-20	7.084000E-02	1.612232E-09
6	8.709646E-20	8.709646E-20	8.709646E-20	7.084000E-02	1.612232E-09
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
9	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
10	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
11	0.000000E+00	0.000000E+00	0.000000E+00	5.000000E-03	0.000000E+00
12	1.330453E-11	1.330453E-11	1.330453E-11	5.200000E-03	1.923077E-07
13	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
14	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
15	1.000000E-15	1.000000E-15	1.000000E-15	1.690000E-02	4.888892E-08
16	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
17	2.648502E-13	2.648502E-13	2.648502E-13	1.460000E-01	1.417160E-09
18	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
19	1.096478E-16	1.096478E-16	1.096478E-16	9.000000E-02	2.199962E-09
20	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
21	9.332549E-16	9.332549E-16	9.332549E-16	1.500000E-01	6.666667E-08
22	1.000000E-10	1.000000E-10	1.000000E-10	1.750000E-01	5.714286E-08
23	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00
24	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00
25	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
26	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
27	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
28	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
29	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09
30	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09
31	1.000000E-12	1.000000E-12	1.000000E-12	5.000000E-02	2.000000E-08
32	8.128303E-18	8.128303E-18	8.128303E-18	5.000000E-02	2.000000E-08
33	8.128303E-18	8.128303E-18	8.128303E-18	5.000000E-02	2.000000E-08
34	1.000000E-12	1.000000E-12	1.000000E-12	5.000000E-02	2.000000E-08
35	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
36	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
37	7.762477E-13	7.762477E-13	7.762477E-13	3.700000E-01	0.000000E+00
38	1.000000E-15	1.000000E-15	1.000000E-15	1.690000E-02	4.888892E-08
39	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00

TOL AND SOEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
T
NFRAC
3
DELTA_PI DELTA_PF FRAC_PHI FRAC_EXP IFRX IFRY IFRZ
4 2.380000E+06 2.500000E+06 8.084000E-02 1.806710E+02 1 1 0
5 2.380000E+06 2.500000E+06 8.084000E-02 1.806710E+02 1 1 0
6 2.380000E+06 2.500000E+06 8.084000E-02 1.806710E+02 1 1 0
KLINKENBERG EFFECT TO BE USED? True or False
T
BKLINK EXPKLINK
9.80000E-01 -3.30000E-01
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01320E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.80000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2

1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WEIGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALLY USED (NGAS) AND COMPONENT NUMBER (NLGAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.0000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
0.0000E+00 1.9537E-07 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0000E+00 1.0000E-01
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
8.2460E-01 0.0000E+00
8.2460E-01 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1.2496E+00 -1.5009E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSIVE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
MAT NO. MODEL 1= WASTE-FILLED, 2=BACKFILLED
1 13 4
2 14 4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F

WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F

BF2_QB0600_TEST7_V013.INP

1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
2 31 27 1
TSTART, TMAX, MAXSTEPS
-1.5779E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
8.6400E+00 8.6400E-04 1.7280E+09 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
3
0.0000E+00 8.6400E+02
3.1666E+09 8.6400E+02
3.1666E+10 8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
2 0 2 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
2
USER REQUESTED PRINTOUT TIMES
0.0000E+00 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
1
USER REQUESTED RESTART TIMES
3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0 1 0
0
0 0 0 0 0 0 0 1 1 0
0
0 0 0 0 0 0 0
BINARY PRINT FLAGS
1 1 0 0 0 1 0 0 0 0 1 1 0 0 0 1 0 0 0 1 0 1 0 0 0 0 0 0
0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 1 1 0
0
0 0 0 0 0 0 0
HISTORY VARIABLE OUTPUT
8
1 4 NAME=BRINE PRESSURE
11 8 1 17 8 1 11 1 1 22 6 1
2 1 NAME=GAS PRESSURE
22 12 1
10 6 NAME=GAS DENSITY
7 6 1 7 12 1 7 14 1 25 6 1 25 12 1 25 14 1
18 30 NAME=GAS SATURATION
8 8 1 9 8 1 10 8 1 11 8 1 12 8 1 13 8 1
14 8 1 8 9 1 9 9 1 10 9 1 11 9 1 12 9 1
13 9 1 14 9 1 8 10 1 9 10 1 10 10 1 11 10 1
12 10 1 13 10 1 14 10 1 16 8 1 17 8 1 18 8 1
16 9 1 17 9 1 18 9 1 16 10 1 17 10 1 18 10 1
31 140 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1
22 24 1 22 25 1 22 26 1 22 27 1 23 6 1 23 7 1
23 8 1 23 9 1 23 10 1 23 11 1 23 12 1 23 13 1
23 14 1 23 15 1 23 16 1 23 17 1 23 18 1 23 19 1
23 20 1 23 21 1 23 22 1 23 23 1 23 24 1 23 25 1

23	26	1	23	27	1	11	1	1	11	2	1	11	3	1	11	4	1
11	5	1	11	6	1	11	7	1	11	8	1	11	9	1	11	10	1
11	11	1	11	12	1	11	13	1	11	14	1	11	15	1	11	16	1
11	17	1	11	18	1	11	19	1	11	20	1	11	21	1	11	22	1
11	23	1	11	24	1	11	25	1	11	26	1	11	27	1	12	1	1
12	2	1	12	3	1	12	4	1	12	5	1	12	6	1	12	7	1
12	8	1	12	9	1	12	10	1	12	11	1	12	12	1	12	13	1
12	14	1	12	15	1	12	16	1	12	17	1	12	18	1	12	19	1
12	20	1	12	21	1	12	22	1	12	23	1	12	24	1	12	25	1
12	26	1	12	27	1												

32	69		NAME=	TIME=	AVERAGE	INTERBLOCK	BRINE FLOW,	Y-DIRECTION
8	11	1	9	11	1	10	11	1
14	11	1	8	8	1	9	8	1
13	8	1	14	8	1	16	11	1
17	8	1	18	8	1	22	6	1
22	10	1	22	11	1	22	12	1
22	16	1	22	17	1	22	18	1
22	22	1	22	23	1	22	24	1
11	1	1	11	2	1	11	3	1
11	7	1	11	8	1	11	9	1
11	13	1	11	14	1	11	15	1
11	19	1	11	20	1	11	21	1
11	25	1	11	26	1	11	27	1

34	140		NAME=	TIME=	AVERAGE	INTERBLOCK	GAS FLOW,	X-DIRECTION
3	6	1	3	12	1	3	14	1
3	22	1	3	23	1	3	24	1
30	6	1	30	12	1	30	14	1
30	22	1	30	23	1	30	24	1
8	6	1	8	12	1	8	14	1
16	8	1	16	9	1	16	10	1
8	8	1	8	9	1	8	10	1
22	6	1	22	7	1	22	8	1
22	12	1	22	13	1	22	14	1
22	18	1	22	19	1	22	20	1
22	24	1	22	25	1	22	26	1
23	8	1	23	9	1	23	10	1
23	14	1	23	15	1	23	16	1
23	20	1	23	21	1	23	22	1
23	26	1	23	27	1	11	1	1
11	5	1	11	6	1	11	7	1
11	11	1	11	12	1	11	13	1
11	17	1	11	18	1	11	19	1
11	23	1	11	24	1	11	25	1
12	2	1	12	3	1	12	4	1
12	8	1	12	9	1	12	10	1
12	14	1	12	15	1	12	16	1
12	20	1	12	21	1	12	22	1
12	26	1	12	27	1	12	23	1

35	69		NAME=	TIME=	AVERAGE	INTERBLOCK	GAS FLOW,	Y-DIRECTION
8	11	1	9	11	1	10	11	1
14	11	1	8	8	1	9	8	1
13	8	1	14	8	1	16	11	1
17	8	1	18	8	1	22	6	1
22	10	1	22	11	1	22	12	1
22	16	1	22	17	1	22	18	1
22	22	1	22	23	1	22	24	1
11	1	1	11	2	1	11	3	1
11	7	1	11	8	1	11	9	1
11	13	1	11	14	1	11	15	1
11	19	1	11	20	1	11	21	1
11	25	1	11	26	1	11	27	1

MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T

NUMBER OF MONITOR BLOCKS
 3

MONITOR BLOCKS (I,J,K)

11	10	1
17	10	1
25	12	1

GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
 1 2 1 7

GRID DATA CARDS: GRID BLOCK DX'S

1.500000E+04	5.000000E+03	1.750000E+03	5.000000E+02	1.000000E+02	4.000000E+01
1.000000E+01	4.380000E+01	1.000000E+01	2.000000E+00	3.363231E-01	2.000000E+00
1.000000E+01	4.380000E+01	4.000000E+01	1.000000E+02	4.950000E+02	1.000000E+02
8.000000E+01	2.830000E+02	5.000000E+01	1.000000E+01	6.000000E+01	5.000000E+02

1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02

1.489060E+07	1.489060E+07	1.489060E+07	1.489060E+07	1.489060E+07
1.489060E+07	1.489060E+07	1.489060E+07	1.489060E+07	1.489060E+07
1.489060E+07	1.489060E+07	1.489060E+07	1.489060E+07	1.489060E+07
1.489060E+07	1.489060E+07	1.489060E+07	1.489060E+07	1.489060E+07
1.716447E+07	1.506290E+07	1.435362E+07	1.411719E+07	1.405415E+07
1.403944E+07	1.403418E+07	1.402853E+07	1.402288E+07	1.402161E+07
1.402136E+07	1.402111E+07	1.401985E+07	1.401420E+07	1.400539E+07
1.399068E+07	1.392816E+07	1.386564E+07	1.384672E+07	1.380858E+07
1.377359E+07	1.376728E+07	1.375993E+07	1.370108E+07	1.364749E+07
1.364224E+07	1.362753E+07	1.356448E+07	1.332806E+07	1.261878E+07
1.051721E+07				
1.602574E+07	1.392417E+07	1.321489E+07	1.297846E+07	1.291542E+07
1.290071E+07	1.289545E+07	1.288980E+07	1.288415E+07	1.288289E+07
1.288263E+07	1.288238E+07	1.288112E+07	1.287547E+07	1.286666E+07
1.285195E+07	1.278943E+07	1.272691E+07	1.270799E+07	1.266985E+07
1.263486E+07	1.262855E+07	1.262120E+07	1.256235E+07	1.250876E+07
1.250351E+07	1.248880E+07	1.242575E+07	1.218933E+07	1.148005E+07
9.378480E+06				
1.565852E+07	1.355695E+07	1.284768E+07	1.261125E+07	1.254820E+07
1.253349E+07	1.252824E+07	1.252258E+07	1.251693E+07	1.251567E+07
1.251542E+07	1.251516E+07	1.251390E+07	1.250825E+07	1.249945E+07
1.248473E+07	1.242221E+07	1.235969E+07	1.234078E+07	1.230263E+07
1.226764E+07	1.226134E+07	1.225398E+07	1.219514E+07	1.214155E+07
1.213629E+07	1.212158E+07	1.205854E+07	1.182211E+07	1.111283E+07
9.011264E+06				
1.558718E+07	1.348562E+07	1.277634E+07	1.253991E+07	1.247687E+07
1.246215E+07	1.245690E+07	1.245125E+07	1.244559E+07	1.244433E+07
1.244408E+07	1.244383E+07	1.244257E+07	1.243691E+07	1.242811E+07
1.241340E+07	1.235088E+07	1.228835E+07	1.226944E+07	1.223130E+07
1.219631E+07	1.013250E+05	1.218265E+07	1.212380E+07	1.207021E+07
1.206496E+07	1.205025E+07	1.198720E+07	1.175077E+07	1.104150E+07
8.939928E+06				
1.557376E+07	1.347219E+07	1.276291E+07	1.252649E+07	1.246344E+07
1.244873E+07	1.244348E+07	1.243782E+07	1.243217E+07	1.243091E+07
1.243066E+07	1.243040E+07	1.242914E+07	1.242349E+07	1.241468E+07
1.239997E+07	1.233745E+07	1.227493E+07	1.225602E+07	1.221787E+07
1.218288E+07	1.013250E+05	1.216922E+07	1.211038E+07	1.205679E+07
1.205153E+07	1.203682E+07	1.197378E+07	1.173735E+07	1.102807E+07
8.926503E+06				
1.555750E+07	1.345594E+07	1.274666E+07	1.251023E+07	1.244718E+07
1.243247E+07	1.242722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.203528E+07	1.202056E+07	1.195752E+07	1.172109E+07	1.101181E+07
8.910245E+06				
1.554160E+07	1.344003E+07	1.273075E+07	1.249433E+07	1.243128E+07
1.241657E+07	1.241132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.201937E+07	1.200466E+07	1.194161E+07	1.170519E+07	1.099591E+07
8.894342E+06				
1.552570E+07	1.342413E+07	1.271485E+07	1.247843E+07	1.241538E+07
1.240067E+07	1.239541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.200347E+07	1.198876E+07	1.192571E+07	1.168929E+07	1.098001E+07
8.878441E+06				
1.550199E+07	1.340042E+07	1.269114E+07	1.245472E+07	1.239167E+07
1.237696E+07	1.237170E+07	1.236605E+07	1.236040E+07	1.235914E+07
1.235888E+07	1.235863E+07	1.235737E+07	1.235172E+07	1.234291E+07
1.232820E+07	1.226568E+07	1.220316E+07	1.218424E+07	1.214610E+07
1.211111E+07	1.013250E+05	1.209745E+07	1.203860E+07	1.198502E+07
1.197976E+07	1.196505E+07	1.190200E+07	1.166558E+07	1.095630E+07
8.854732E+06				
1.548460E+07	1.338304E+07	1.267376E+07	1.243733E+07	1.237429E+07
1.235957E+07	1.235432E+07	1.234867E+07	1.234301E+07	1.234175E+07
1.234150E+07	1.234125E+07	1.233999E+07	1.233433E+07	1.232553E+07
1.231082E+07	1.224830E+07	1.218577E+07	1.216686E+07	1.212872E+07
1.209373E+07	1.013250E+05	1.208007E+07	1.202122E+07	1.196763E+07
1.196238E+07	1.194767E+07	1.188462E+07	1.164819E+07	1.093892E+07
8.837348E+06				
1.542844E+07	1.332687E+07	1.261759E+07	1.238117E+07	1.231812E+07
1.230341E+07	1.229815E+07	1.229250E+07	1.228685E+07	1.228559E+07

1.228533E+07	1.228508E+07	1.228382E+07	1.227817E+07	1.226936E+07
1.225465E+07	1.219213E+07	1.212961E+07	1.211069E+07	1.207255E+07
1.203756E+07	1.013250E+05	1.202390E+07	1.196506E+07	1.191147E+07
1.190621E+07	1.189150E+07	1.182845E+07	1.159203E+07	1.088275E+07
8.781182E+06				
1.537281E+07	1.327125E+07	1.256197E+07	1.232554E+07	1.226250E+07
1.224778E+07	1.224253E+07	1.223688E+07	1.223122E+07	1.222996E+07
1.222971E+07	1.222946E+07	1.222820E+07	1.222254E+07	1.221374E+07
1.219903E+07	1.213651E+07	1.207398E+07	1.205507E+07	1.201693E+07
1.198194E+07	1.013250E+05	1.196828E+07	1.190943E+07	1.185584E+07
1.185059E+07	1.183588E+07	1.177283E+07	1.153640E+07	1.082713E+07
8.725558E+06				
1.500463E+07	1.290307E+07	1.219379E+07	1.195736E+07	1.189432E+07
1.187961E+07	1.187435E+07	1.186870E+07	1.186304E+07	1.186178E+07
1.186153E+07	1.186128E+07	1.186002E+07	1.185437E+07	1.184556E+07
1.183085E+07	1.176833E+07	1.170580E+07	1.168689E+07	1.164875E+07
1.161376E+07	1.013250E+05	1.160010E+07	1.154125E+07	1.148766E+07
1.148241E+07	1.146770E+07	1.140465E+07	1.116822E+07	1.045895E+07
8.357379E+06				
1.368320E+07	1.158163E+07	1.087235E+07	1.063593E+07	1.057288E+07
1.055817E+07	1.055292E+07	1.054726E+07	1.054161E+07	1.054035E+07
1.054010E+07	1.053984E+07	1.053858E+07	1.053293E+07	1.052412E+07
1.050941E+07	1.044689E+07	1.038437E+07	1.036546E+07	1.032731E+07
1.029232E+07	1.013250E+05	1.027866E+07	1.021982E+07	1.016623E+07
1.016097E+07	1.014626E+07	1.008322E+07	9.846788E+06	9.137510E+06
7.035944E+06				
1.177452E+07	9.672952E+06	8.963673E+06	8.727247E+06	8.664200E+06
8.649489E+06	8.644235E+06	8.638582E+06	8.632928E+06	8.631667E+06
8.631415E+06	8.631163E+06	8.629902E+06	8.624249E+06	8.615443E+06
8.600732E+06	8.538211E+06	8.475689E+06	8.456775E+06	8.418632E+06
8.383641E+06	1.013250E+05	8.369980E+06	8.311136E+06	8.257547E+06
8.252292E+06	8.237582E+06	8.174535E+06	7.938108E+06	7.228830E+06
5.127264E+06				
1.078960E+07	8.688031E+06	7.978752E+06	7.742325E+06	7.679278E+06
7.664567E+06	7.659314E+06	7.653661E+06	7.648007E+06	7.646746E+06
7.646493E+06	7.646241E+06	7.644981E+06	7.639328E+06	7.630522E+06
7.615811E+06	7.553289E+06	7.490768E+06	7.471853E+06	7.433710E+06
7.398719E+06	1.013250E+05	7.385059E+06	7.326215E+06	7.272625E+06
7.267371E+06	7.252660E+06	7.189613E+06	6.953187E+06	6.243909E+06
4.142342E+06				
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	1.013250E+05	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06				
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	1.013250E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05				
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.013250E+05	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06				
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	1.013250E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05				
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.013250E+05	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06				
7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05

27 SHFT_L_1
28 SHFT_L_2
29 SHFT_U_1
30 SHFT_U_2
31 SHFT_LS1
32 SHFT_LS2
33 SHFT_US1
34 SHFT_US2
35 PAN_S_1
36 PAN_S_2
37 BOREHOLE
38 TRANS_1
39 CAVITY_5

NWST

2

MAT_WASTE1 MAT_WASTE

7 8

13 14

NDRZ

0

NMATRESET

5

MATRESET

7 8 9 10 39

BORE HOLE MATERIAL NUMBER

0

RESET TIME, ICWASTE

0.0000E+00 1

POWASTEIC

1.013250E+05

1.013250E+05

1.013250E+05

1.013250E+05

1.013250E+05

SOWASTEIC

0.000000E+00

0.000000E+00

0.000000E+00

0.250000E+00

0.200000E+00

PRESDRZ

NBORERESET

0

LAMBDA SOR SGR

1 6.182000E+00 4.755000E-01 2.438000E-01

2 6.182000E+00 0.000000E+00 0.000000E+00

3 6.182000E+00 0.000000E+00 0.000000E+00

4 2.635000E-01 3.155000E-01 1.450000E-01

5 2.635000E-01 3.155000E-01 1.450000E-01

6 2.635000E-01 3.155000E-01 1.450000E-01

7 7.000000E-01 0.000000E+00 0.000000E+00

8 7.000000E-01 0.000000E+00 0.000000E+00

9 7.000000E-01 0.000000E+00 0.000000E+00

10 7.000000E-01 0.000000E+00 0.000000E+00

11 1.000000E+00 0.000000E+00 0.000000E+00

12 7.000000E-01 2.000000E-01 2.000000E-01

13 3.569000E+00 1.753000E-01 3.906000E-01

14 3.569000E+00 1.753000E-01 3.906000E-01

15 6.182000E+00 0.000000E+00 0.000000E+00

16 7.000000E-01 2.000000E-01 2.000000E-01

17 7.000000E-01 2.000000E-01 2.000000E-01

18 7.000000E-01 2.000000E-01 2.000000E-01

19 7.000000E-01 2.000000E-01 2.000000E-01

20 7.000000E-01 2.000000E-01 2.000000E-01

21 7.000000E-01 2.000000E-01 2.000000E-01

22 7.000000E-01 2.000000E-01 2.000000E-01

23 7.000000E-01 0.000000E+00 0.000000E+00

24 7.000000E-01 0.000000E+00 0.000000E+00

25 7.000000E-01 2.000000E-01 2.000000E-01

26 7.000000E-01 2.000000E-01 2.000000E-01

27 7.000000E-01 2.000000E-01 2.000000E-01

28 7.000000E-01 2.000000E-01 2.000000E-01

29 7.000000E-01 2.000000E-01 2.000000E-01

30 7.000000E-01 2.000000E-01 2.000000E-01

31 7.000000E-01 2.000000E-01 2.000000E-01

32	7.000000E-01	2.000000E-01	2.000000E-01							
33	7.000000E-01	2.000000E-01	2.000000E-01							
34	7.000000E-01	2.000000E-01	2.000000E-01							
35	7.000000E-01	2.000000E-01	2.000000E-01							
36	7.000000E-01	2.000000E-01	2.000000E-01							
37	7.000000E-01	2.000000E-01	0.000000E+00							
38	6.182000E+00	0.000000E+00	0.000000E+00							
39	7.000000E-01	0.000000E+00	0.000000E+00							
#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP		
1	4.992750E-01	1.013250E+05	1.000000E+08	2.131000E+07	0.000000E+00	4	2	0		
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
4	3.312750E-01	1.013250E+05	1.000000E+08	7.638356E-02	-3.460000E-01	4	2	0		
5	3.312750E-01	1.013250E+05	1.000000E+08	7.638356E-02	-3.460000E-01	4	2	0		
6	3.312750E-01	1.013250E+05	1.000000E+08	7.638356E-02	-3.460000E-01	4	2	0		
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0		
13	1.840650E-01	1.013250E+05	1.000000E+08	2.885280E-01	-3.460000E-01	4	4	0		
14	1.840650E-01	1.013250E+05	1.000000E+08	2.885280E-01	-3.460000E-01	4	4	0		
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0		
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0		
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0		
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0		
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0		
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0		
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0		
32	2.100000E-01	1.013250E+05	1.000000E+08	3.524909E+05	0.000000E+00	4	2	0		
33	2.100000E-01	1.013250E+05	1.000000E+08	3.524909E+05	0.000000E+00	4	2	0		
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0		
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0		
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0		
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0		
#	PERMX	PERMY	PERMZ	POROSITY	COMPRES					
1	2.089295E-22	2.089295E-22	2.089295E-22	4.326000E-03	2.234424E-09					
2	1.000000E-15	1.000000E-15	1.000000E-15	4.326000E-03	1.917166E-07					
3	1.000000E-15	1.000000E-15	1.000000E-15	4.326000E-03	1.917166E-07					
4	8.317640E-21	8.317640E-21	8.317640E-21	1.515000E-02	1.160495E-08					
5	8.317640E-21	8.317640E-21	8.317640E-21	1.515000E-02	1.160495E-08					
6	8.317640E-21	8.317640E-21	8.317640E-21	1.515000E-02	1.160495E-08					
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00					
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00					
9	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00					
10	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00					
11	0.000000E+00	0.000000E+00	0.000000E+00	5.000000E-03	0.000000E+00					
12	1.330453E-11	1.330453E-11	1.330453E-11	5.200000E-03	1.923077E-07					
13	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09					
14	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09					
15	1.000000E-15	1.000000E-15	1.000000E-15	4.326000E-03	1.917166E-07					
16	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00					
17	2.648502E-13	2.648502E-13	2.648502E-13	1.460000E-01	1.417160E-09					
18	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00					
19	1.096478E-16	1.096478E-16	1.096478E-16	9.000000E-02	2.199962E-09					
20	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00					
21	9.332549E-16	9.332549E-16	9.332549E-16	1.500000E-01	6.666667E-08					
22	1.000000E-10	1.000000E-10	1.000000E-10	1.750000E-01	5.714286E-08					
23	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00					
24	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00					
25	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08					
26	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08					
27	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08					

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28 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
32 1.737800E-17 1.737800E-17 1.737800E-17 5.000000E-02 2.000000E-08
33 1.737800E-17 1.737800E-17 1.737800E-17 5.000000E-02 2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
37 1.122019E-12 1.122019E-12 1.122019E-12 3.700000E-01 0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15 4.326000E-03 1.917166E-07
39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
T
NFRAC
3
# DELTA_PI DELTA_PF FRAC_PHI FRAC_EXP IFRX IFRY IFRZ
4 1.830000E+06 2.500000E+06 2.515000E-02 5.253619E+01 1 1 0
5 1.830000E+06 2.500000E+06 2.515000E-02 5.253619E+01 1 1 0
6 1.830000E+06 2.500000E+06 2.515000E-02 5.253619E+01 1 1 0
KLINKENBERG EFFECT TO BE USED? True or False
T
BKLINK EXPKLINK
9.800000E-01 -3.300000E-01
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.001500E+02 1.01320E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.80000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (NIGAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.0000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
2.0642E-08 0.0000E+00 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0000E+00 0.0000E+00
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
```

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1.4280E+00 0.0000E+00
1.4280E+00 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1.2802E+00 -1.4397E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
KLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
# MAT NO. MODEL 1= WASTE-FILLED, 2=BACKFILLED
1 13 4
2 14 4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
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BF2_QB0600_TEST7_V014.INP

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1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
2 31 27 1
TSTART, TMAX, MAXSTEPS
-1.5779E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
8.6400E+00 8.6400E-04 1.7280E+09 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
3
0.0000E+00 8.6400E+02
3.1666E+09 8.6400E+02
3.1666E+10 8.6400E+02
IPRYPEASC IPRYPEBIN IPRYPEST UNITSI UNITSO
2 0 2 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
2
USER REQUESTED PRINTOUT TIMES
0.0000E+00 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
1
USER REQUESTED RESTART TIMES
3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
```


23 20 1	23 21 1	23 22 1	23 23 1	23 24 1	23 25 1
23 26 1	23 27 1	11 1 1	11 2 1	11 3 1	11 4 1
11 5 1	11 6 1	11 7 1	11 8 1	11 9 1	11 10 1
11 11 1	11 12 1	11 13 1	11 14 1	11 15 1	11 16 1
11 17 1	11 18 1	11 19 1	11 20 1	11 21 1	11 22 1
11 23 1	11 24 1	11 25 1	11 26 1	11 27 1	12 1 1
12 2 1	12 3 1	12 4 1	12 5 1	12 6 1	12 7 1
12 8 1	12 9 1	12 10 1	12 11 1	12 12 1	12 13 1
12 14 1	12 15 1	12 16 1	12 17 1	12 18 1	12 19 1
12 20 1	12 21 1	12 22 1	12 23 1	12 24 1	12 25 1
12 26 1	12 27 1				

35 69 NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION

8 11 1	9 11 1	10 11 1	11 11 1	12 11 1	13 11 1
14 11 1	8 8 1	9 8 1	10 8 1	11 8 1	12 8 1
13 8 1	14 8 1	16 11 1	17 11 1	18 11 1	16 8 1
17 8 1	18 8 1	22 6 1	22 7 1	22 8 1	22 9 1
22 10 1	22 11 1	22 12 1	22 13 1	22 14 1	22 15 1
22 16 1	22 17 1	22 18 1	22 19 1	22 20 1	22 21 1
22 22 1	22 23 1	22 24 1	22 25 1	22 26 1	22 27 1
11 1 1	11 2 1	11 3 1	11 4 1	11 5 1	11 6 1
11 7 1	11 8 1	11 9 1	11 10 1	11 11 1	11 12 1
11 13 1	11 14 1	11 15 1	11 16 1	11 17 1	11 18 1
11 19 1	11 20 1	11 21 1	11 22 1	11 23 1	11 24 1
11 25 1	11 26 1	11 27 1			

MONITOR PARAMETER VALUES AT GRIDBLOCK(S)

T

NUMBER OF MONITOR BLOCKS

3

MONITOR BLOCKS (I,J,K)

11	10	1
17	10	1
25	12	1

GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG

1	2	1	7
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GRID DATA CARDS: GRID BLOCK DX'S

1.500000E+04	5.000000E+03	1.750000E+03	5.000000E+02	1.000000E+02	4.000000E+01
1.000000E+01	4.380000E+01	1.000000E+01	2.000000E+00	3.122177E-01	2.000000E+00
1.000000E+01	4.380000E+01	4.000000E+01	1.000000E+02	4.950000E+02	1.000000E+02
8.000000E+01	2.830000E+02	5.000000E+01	1.000000E+01	6.000000E+01	5.000000E+02
1.000000E+01	4.000000E+01	1.000000E+02	5.000000E+02	1.750000E+03	5.000000E+03
1.500000E+04					

GRID DATA CARDS: GRID BLOCK DY'S

2.728000E+00	4.737200E+01	1.391600E+02	5.000000E+01	1.100000E+01	8.500000E-01
1.380000E+00	1.320800E+00	1.320800E+00	1.320800E+00	2.617600E+00	2.700000E-01
9.060000E+00	1.800000E-01	6.098000E+01	1.585300E+02	1.585300E+02	5.080000E+00
3.600000E+01	7.700000E+00	2.480000E+01	8.500000E+00	1.730000E+01	1.060000E+02
4.330000E+01	1.566000E+01	1.000000E-01			

GRID DATA CARDS: GRID BLOCK DZ'S

6.131430E+04	2.131430E+04	7.814300E+03	3.314300E+03	2.114300E+03	1.834300E+03
1.734300E+03	1.262000E+02	2.880000E+01	4.800000E+00	3.122177E-01	4.800000E+00
2.880000E+01	1.262000E+02	1.000000E+01	1.323000E+02	1.435000E+02	1.416000E+02
1.890000E+01	1.890000E+01	1.890000E+01	9.500000E+00	2.050000E+01	5.310000E+01
1.258900E+03	1.458900E+03	2.018900E+03	3.928000E+03	8.226900E+03	2.172690E+04
6.172690E+04					

GRID BLOCK ELEVATIONS

1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.293640E+02					
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02					
-3.441824E+01	1.401058E+02	1.990077E+02	2.186417E+02	2.238774E+02	2.250991E+02
2.255354E+02	2.260048E+02	2.264743E+02	2.265790E+02	2.266000E+02	2.266209E+02
2.267256E+02	2.271951E+02	2.279264E+02	2.291480E+02	2.343401E+02	2.395322E+02
2.411029E+02	2.442706E+02	2.471764E+02	2.477000E+02	2.483108E+02	2.531975E+02
2.576478E+02	2.580841E+02	2.593058E+02	2.645415E+02	2.841755E+02	3.430774E+02
5.176014E+02					
6.014737E+01	2.346714E+02	2.935733E+02	3.132073E+02	3.184430E+02	3.196646E+02
3.201010E+02	3.205704E+02	3.210399E+02	3.211446E+02	3.211656E+02	3.211865E+02
3.212912E+02	3.217607E+02	3.224920E+02	3.237137E+02	3.289057E+02	3.340978E+02

3.356685E+02	3.388362E+02	3.417420E+02	3.422656E+02	3.428764E+02	3.477631E+02
3.522134E+02	3.526497E+02	3.538714E+02	3.591071E+02	3.787411E+02	4.376429E+02
6.121671E+02					
9.064270E+01	2.651668E+02	3.240687E+02	3.437026E+02	3.489384E+02	3.501600E+02
3.505963E+02	3.510658E+02	3.515353E+02	3.516400E+02	3.516609E+02	3.516819E+02
3.517866E+02	3.522561E+02	3.529873E+02	3.542090E+02	3.594011E+02	3.645932E+02
3.661639E+02	3.693315E+02	3.722373E+02	3.727609E+02	3.733717E+02	3.782584E+02
3.827088E+02	3.831451E+02	3.843668E+02	3.896025E+02	4.092365E+02	4.681383E+02
6.426624E+02					
9.656680E+01	2.710909E+02	3.299928E+02	3.496267E+02	3.548625E+02	3.560841E+02
3.565204E+02	3.569899E+02	3.574594E+02	3.575641E+02	3.575851E+02	3.576060E+02
3.577107E+02	3.581802E+02	3.589114E+02	3.601331E+02	3.653252E+02	3.705173E+02
3.720880E+02	3.752556E+02	3.781614E+02	3.786850E+02	3.792958E+02	3.841825E+02
3.886329E+02	3.890692E+02	3.902909E+02	3.955266E+02	4.151606E+02	4.740624E+02
6.485865E+02					
9.768167E+01	2.722057E+02	3.311076E+02	3.507415E+02	3.559773E+02	3.571989E+02
3.576353E+02	3.581047E+02	3.585742E+02	3.586789E+02	3.586999E+02	3.587208E+02
3.588255E+02	3.592950E+02	3.600263E+02	3.612480E+02	3.664400E+02	3.716321E+02
3.732029E+02	3.763705E+02	3.792763E+02	3.797998E+02	3.804107E+02	3.852974E+02
3.897477E+02	3.901840E+02	3.924057E+02	3.966414E+02	4.162754E+02	4.751772E+02
6.497014E+02					
9.903186E+01	2.735559E+02	3.324578E+02	3.520918E+02	3.573275E+02	3.585491E+02
3.589854E+02	3.594549E+02	3.599244E+02	3.600291E+02	3.600501E+02	3.600710E+02
3.601757E+02	3.606452E+02	3.613765E+02	3.625981E+02	3.677902E+02	3.729823E+02
3.745530E+02	3.777206E+02	3.806265E+02	3.811501E+02	3.817609E+02	3.866476E+02
3.910979E+02	3.915342E+02	3.927559E+02	3.979916E+02	4.176256E+02	4.765274E+02
6.510515E+02					
1.003524E+02	2.748765E+02	3.337784E+02	3.534124E+02	3.586481E+02	3.598698E+02
3.603061E+02	3.607755E+02	3.612450E+02	3.613497E+02	3.613707E+02	3.613916E+02
3.614963E+02	3.619658E+02	3.626971E+02	3.639187E+02	3.691108E+02	3.743029E+02
3.758736E+02	3.790413E+02	3.819471E+02	3.824706E+02	3.830815E+02	3.879681E+02
3.924185E+02	3.928548E+02	3.940765E+02	3.993122E+02	4.189462E+02	4.778481E+02
6.523721E+02					
1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	3.611903E+02
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	3.627122E+02
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02

4	27	1	T	T	1.013250E+05	2.000000E-01
5	27	1	T	T	1.013250E+05	2.000000E-01
6	27	1	T	T	1.013250E+05	2.000000E-01
7	27	1	T	T	1.013250E+05	2.000000E-01
8	27	1	T	T	1.013250E+05	2.000000E-01
9	27	1	T	T	1.013250E+05	2.000000E-01
10	27	1	T	T	1.013250E+05	2.000000E-01
11	27	1	T	T	1.013250E+05	2.000000E-01
12	27	1	T	T	1.013250E+05	2.000000E-01
13	27	1	T	T	1.013250E+05	2.000000E-01
14	27	1	T	T	1.013250E+05	2.000000E-01
15	27	1	T	T	1.013250E+05	2.000000E-01
16	27	1	T	T	1.013250E+05	2.000000E-01
17	27	1	T	T	1.013250E+05	2.000000E-01
18	27	1	T	T	1.013250E+05	2.000000E-01
19	27	1	T	T	1.013250E+05	2.000000E-01
20	27	1	T	T	1.013250E+05	2.000000E-01
21	27	1	T	T	1.013250E+05	2.000000E-01
22	27	1	T	T	1.013250E+05	2.000000E-01
23	27	1	T	T	1.013250E+05	2.000000E-01
24	27	1	T	T	1.013250E+05	2.000000E-01
25	27	1	T	T	1.013250E+05	2.000000E-01
26	27	1	T	T	1.013250E+05	2.000000E-01
27	27	1	T	T	1.013250E+05	2.000000E-01
28	27	1	T	T	1.013250E+05	2.000000E-01
29	27	1	T	T	1.013250E+05	2.000000E-01
30	27	1	T	T	1.013250E+05	2.000000E-01
31	27	1	T	T	1.013250E+05	2.000000E-01

GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS

1.537225E+07	1.537225E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.537225E+07	1.537225E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.507060E+07	1.507060E+07	1.507060E+07	1.507060E+07	1.507060E+07
1.507060E+07	1.507060E+07	1.507060E+07	1.507060E+07	1.507060E+07
1.507060E+07	1.507060E+07	1.507060E+07	1.507060E+07	1.507060E+07
1.507060E+07	1.507060E+07	1.507060E+07	1.507060E+07	1.507060E+07
1.507060E+07	1.507060E+07	1.507060E+07	1.507060E+07	1.507060E+07
1.507060E+07	1.507060E+07	1.507060E+07	1.507060E+07	1.507060E+07
1.507060E+07	1.507060E+07	1.507060E+07	1.507060E+07	1.507060E+07
1.734447E+07	1.524290E+07	1.453362E+07	1.429719E+07	1.423415E+07
1.421944E+07	1.421418E+07	1.420853E+07	1.420288E+07	1.420161E+07
1.420136E+07	1.420111E+07	1.419985E+07	1.419420E+07	1.418539E+07
1.417068E+07	1.410916E+07	1.404564E+07	1.402672E+07	1.398858E+07
1.395359E+07	1.394728E+07	1.393993E+07	1.388108E+07	1.382749E+07
1.382224E+07	1.380753E+07	1.374448E+07	1.350806E+07	1.279878E+07
1.069721E+07	1.410417E+07	1.339489E+07	1.315846E+07	1.309542E+07
1.308071E+07	1.307545E+07	1.306980E+07	1.306415E+07	1.306289E+07
1.306263E+07	1.306238E+07	1.306112E+07	1.305547E+07	1.304666E+07
1.303195E+07	1.296943E+07	1.290691E+07	1.288799E+07	1.284985E+07
1.281486E+07	1.280855E+07	1.280120E+07	1.274235E+07	1.268876E+07
1.268351E+07	1.266880E+07	1.260575E+07	1.236933E+07	1.166005E+07
9.558480E+06	1.373695E+07	1.302768E+07	1.279125E+07	1.272820E+07
1.583852E+07	1.270824E+07	1.270258E+07	1.269693E+07	1.269567E+07
1.271349E+07	1.269516E+07	1.269390E+07	1.268825E+07	1.267945E+07
1.269542E+07	1.260221E+07	1.253969E+07	1.252078E+07	1.248263E+07
1.266473E+07	1.244134E+07	1.243398E+07	1.237514E+07	1.232155E+07
1.244764E+07	1.223015E+07	1.223854E+07	1.200211E+07	1.129283E+07
1.231629E+07	1.366562E+07	1.295634E+07	1.271991E+07	1.265687E+07
9.191264E+06	1.263690E+07	1.263125E+07	1.262559E+07	1.262433E+07
1.576718E+07	1.262408E+07	1.262257E+07	1.261691E+07	1.260811E+07
1.264215E+07	1.259340E+07	1.253088E+07	1.246835E+07	1.244944E+07
1.262408E+07	1.237631E+07	1.013250E+05	1.236265E+07	1.230380E+07
1.259340E+07	1.224496E+07	1.223025E+07	1.216720E+07	1.193077E+07
1.237631E+07	9.119928E+06	1.365219E+07	1.294291E+07	1.270649E+07
1.224496E+07	1.262873E+07	1.262348E+07	1.261782E+07	1.261217E+07
9.119928E+06	1.261066E+07	1.261040E+07	1.260914E+07	1.260349E+07
1.575376E+07	1.257997E+07	1.251745E+07	1.245493E+07	1.243602E+07
1.262873E+07	1.236288E+07	1.013250E+05	1.234922E+07	1.229038E+07
1.261066E+07	1.236288E+07	1.013250E+05	1.234922E+07	1.229038E+07
1.257997E+07	1.236288E+07	1.013250E+05	1.234922E+07	1.229038E+07

1.223153E+07	1.221682E+07	1.215378E+07	1.191735E+07	1.120807E+07
9.106503E+06				
1.573750E+07	1.363594E+07	1.292666E+07	1.269023E+07	1.262718E+07
1.261247E+07	1.260722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.222053E+07
1.221528E+07	1.220056E+07	1.213752E+07	1.190109E+07	1.119181E+07
9.090245E+06				
1.572160E+07	1.362003E+07	1.291075E+07	1.267433E+07	1.261128E+07
1.259657E+07	1.259132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.220463E+07
1.219937E+07	1.218466E+07	1.212161E+07	1.188519E+07	1.117591E+07
9.074342E+06				
1.570570E+07	1.360413E+07	1.289485E+07	1.265843E+07	1.259538E+07
1.258067E+07	1.257541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.218872E+07
1.218347E+07	1.216876E+07	1.210571E+07	1.186929E+07	1.116001E+07
9.058441E+06				
1.568199E+07	1.358042E+07	1.287114E+07	1.263472E+07	1.257167E+07
1.255696E+07	1.255170E+07	1.254605E+07	1.254040E+07	1.253914E+07
1.253888E+07	1.253863E+07	1.253737E+07	1.253172E+07	1.252291E+07
1.250820E+07	1.244568E+07	1.238316E+07	1.236424E+07	1.232610E+07
1.229111E+07	1.013250E+05	1.227745E+07	1.221860E+07	1.216502E+07
1.215976E+07	1.214505E+07	1.208200E+07	1.184558E+07	1.113630E+07
9.034732E+06				
1.566460E+07	1.356304E+07	1.285376E+07	1.261733E+07	1.255429E+07
1.253957E+07	1.253432E+07	1.252867E+07	1.252301E+07	1.252175E+07
1.252150E+07	1.252125E+07	1.251999E+07	1.251433E+07	1.250553E+07
1.249082E+07	1.242830E+07	1.236577E+07	1.234686E+07	1.230872E+07
1.227373E+07	1.013250E+05	1.226007E+07	1.220122E+07	1.214763E+07
1.214238E+07	1.212767E+07	1.206462E+07	1.182819E+07	1.111892E+07
9.017348E+06				
1.560844E+07	1.350687E+07	1.279759E+07	1.256117E+07	1.249812E+07
1.248341E+07	1.247815E+07	1.247250E+07	1.246685E+07	1.246559E+07
1.246533E+07	1.246508E+07	1.246382E+07	1.245817E+07	1.244936E+07
1.243465E+07	1.237213E+07	1.230961E+07	1.229069E+07	1.225255E+07
1.221756E+07	1.013250E+05	1.220390E+07	1.214506E+07	1.209147E+07
1.208621E+07	1.207150E+07	1.200845E+07	1.177203E+07	1.106275E+07
8.961182E+06				
1.555281E+07	1.345125E+07	1.274197E+07	1.250554E+07	1.244250E+07
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1.237903E+07	1.231651E+07	1.225398E+07	1.223507E+07	1.219693E+07
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8.905558E+06				
1.518463E+07	1.308307E+07	1.237379E+07	1.213736E+07	1.207432E+07
1.205961E+07	1.205435E+07	1.204870E+07	1.204304E+07	1.204178E+07
1.204153E+07	1.204128E+07	1.204002E+07	1.203437E+07	1.202556E+07
1.201085E+07	1.194833E+07	1.188580E+07	1.186689E+07	1.182875E+07
1.179376E+07	1.013250E+05	1.178010E+07	1.172125E+07	1.166766E+07
1.166241E+07	1.164770E+07	1.158465E+07	1.134822E+07	1.063895E+07
8.537379E+06				
1.386320E+07	1.176163E+07	1.105235E+07	1.081593E+07	1.075288E+07
1.073817E+07	1.073292E+07	1.072726E+07	1.072161E+07	1.072035E+07
1.072010E+07	1.071984E+07	1.071858E+07	1.071293E+07	1.070412E+07
1.068941E+07	1.062689E+07	1.056437E+07	1.054546E+07	1.050731E+07
1.047232E+07	1.013250E+05	1.045866E+07	1.039982E+07	1.034623E+07
1.034097E+07	1.032626E+07	1.026322E+07	1.002679E+07	9.317510E+06
7.215944E+06				
1.195452E+07	9.852952E+06	9.143673E+06	8.907247E+06	8.844200E+06
8.829489E+06	8.824235E+06	8.818582E+06	8.812928E+06	8.811667E+06
8.811415E+06	8.811163E+06	8.809902E+06	8.804249E+06	8.795443E+06
8.780732E+06	8.718211E+06	8.655689E+06	8.636775E+06	8.598632E+06
8.563641E+06	1.013250E+05	8.549980E+06	8.491136E+06	8.437546E+06
8.432292E+06	8.417582E+06	8.354535E+06	8.118108E+06	7.408830E+06
5.307264E+06				
1.096960E+07	8.868031E+06	8.158752E+06	7.922325E+06	7.859278E+06
7.844567E+06	7.839314E+06	7.833661E+06	7.828007E+06	7.826746E+06
7.826493E+06	7.826241E+06	7.824981E+06	7.819328E+06	7.810522E+06
7.795811E+06	7.733289E+06	7.670768E+06	7.651853E+06	7.613710E+06

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START TIME FOR MAP 3
3.1557E+09
MATERIAL TYPE GRID MAP
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12 12 12 11
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#      NAME
1      S_HALITE
2      DRZ_0
3      TRANS_0
4      S_MBI39
5      S_ANH_AB
6      S_MBI38
7      CAVITY_1
8      CAVITY_2
9      CAVITY_3
10     CAVITY_4
11     IMPERM_Z
12     CASTILER
13     WAS_AREA
14     REPOSIT
15     DRZ_1
16     UNNAMED
17     CULEBRA
18     TAMARISK
19     MAGENTA
20     FORTYNIN
21     DEWYLAKE
22     SANTAROS
23     BACKFILL
24     EXP_AREA
25     SHFT_B_1
26     SHFT_B_2
27     SHFT_L_1
28     SHFT_L_2
29     SHFT_U_1
30     SHFT_U_2
31     SHFT_LS1
32     SHFT_LS2
33     SHFT_US1
34     SHFT_US2
35     PAN_S_1
36     PAN_S_2
37     BOREHOLE
38     TRANS_1
39     CAVITY_5

NWST
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13 14
NDRZ
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MATRESET
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BORE HOLE MATERIAL NUMBER
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RESET TIME, ICWASTE
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POWASTEIC
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1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
SOWASTEIC
0.000000E+00
0.000000E+00
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0.000000E+00
0.250000E+00
0.200000E+00
PRESDRZ

NBORERESET

0

#	LAMBDA	SOR	SGR						
1	3.644000E-01	9.551000E-02	9.013000E-02						
2	3.644000E-01	0.000000E+00	0.000000E+00						
3	3.644000E-01	0.000000E+00	0.000000E+00						
4	6.913000E-01	5.148000E-01	1.918000E-01						
5	6.913000E-01	5.148000E-01	1.918000E-01						
6	6.913000E-01	5.148000E-01	1.918000E-01						
7	7.000000E-01	0.000000E+00	0.000000E+00						
8	7.000000E-01	0.000000E+00	0.000000E+00						
9	7.000000E-01	0.000000E+00	0.000000E+00						
10	7.000000E-01	0.000000E+00	0.000000E+00						
11	1.000000E+00	0.000000E+00	0.000000E+00						
12	7.000000E-01	2.000000E-01	2.000000E-01						
13	1.738000E+00	2.488000E-01	1.368000E-01						
14	1.738000E+00	2.488000E-01	1.368000E-01						
15	3.644000E-01	0.000000E+00	0.000000E+00						
16	7.000000E-01	2.000000E-01	2.000000E-01						
17	7.000000E-01	2.000000E-01	2.000000E-01						
18	7.000000E-01	2.000000E-01	2.000000E-01						
19	7.000000E-01	2.000000E-01	2.000000E-01						
20	7.000000E-01	2.000000E-01	2.000000E-01						
21	7.000000E-01	2.000000E-01	2.000000E-01						
22	7.000000E-01	2.000000E-01	2.000000E-01						
23	7.000000E-01	0.000000E+00	0.000000E+00						
24	7.000000E-01	0.000000E+00	0.000000E+00						
25	7.000000E-01	2.000000E-01	2.000000E-01						
26	7.000000E-01	2.000000E-01	2.000000E-01						
27	7.000000E-01	2.000000E-01	2.000000E-01						
28	7.000000E-01	2.000000E-01	2.000000E-01						
29	7.000000E-01	2.000000E-01	2.000000E-01						
30	7.000000E-01	2.000000E-01	2.000000E-01						
31	7.000000E-01	2.000000E-01	2.000000E-01						
32	7.000000E-01	2.000000E-01	2.000000E-01						
33	7.000000E-01	2.000000E-01	2.000000E-01						
34	7.000000E-01	2.000000E-01	2.000000E-01						
35	7.000000E-01	2.000000E-01	2.000000E-01						
36	7.000000E-01	2.000000E-01	2.000000E-01						
37	7.000000E-01	2.000000E-01	0.000000E+00						
38	3.644000E-01	0.000000E+00	0.000000E+00						
39	7.000000E-01	0.000000E+00	0.000000E+00						
#	SBMIN	PEMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP	
1	1.002855E-01	1.013250E+05	1.000000E+08	9.662000E+07	0.000000E+00	1	2	0	
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0	
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0	
4	5.405400E-01	1.013250E+05	1.000000E+08	4.954504E-02	-3.460000E-01	1	2	0	
5	5.405400E-01	1.013250E+05	1.000000E+08	4.954504E-02	-3.460000E-01	1	2	0	
6	5.405400E-01	1.013250E+05	1.000000E+08	4.954504E-02	-3.460000E-01	1	2	0	
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
13	2.612400E-01	1.013250E+05	1.000000E+08	1.185190E+00	-3.460000E-01	4	4	0	
14	2.612400E-01	1.013250E+05	1.000000E+08	1.185190E+00	-3.460000E-01	4	4	0	
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0	
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	

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29 2.100000E-01 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
30 2.100000E-01 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
31 2.100000E-01 1.013250E+05 1.000000E+08 7.946718E+03 0.000000E+00 4 2 0
32 2.100000E-01 1.013250E+05 1.000000E+08 2.116938E+05 0.000000E+00 4 2 0
33 2.100000E-01 1.013250E+05 1.000000E+08 2.116938E+05 0.000000E+00 4 2 0
34 2.100000E-01 1.013250E+05 1.000000E+08 7.946718E+03 0.000000E+00 4 2 0
35 2.100000E-01 1.013250E+05 1.000000E+08 5.600000E-01 -3.460000E-01 4 2 0
36 2.100000E-01 1.013250E+05 1.000000E+08 5.600000E-01 -3.460000E-01 4 2 0
37 2.100000E-01 1.013200E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
38 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 1 1 0
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# PERMX PERMY PERMZ POROSITY COMPRES
1 8.317640E-21 8.317640E-21 8.317640E-21 1.588000E-02 2.590939E-09
2 1.000000E-15 1.000000E-15 1.000000E-15 1.588000E-02 5.204519E-08
3 1.000000E-15 1.000000E-15 1.000000E-15 1.588000E-02 5.204519E-08
4 4.265787E-19 4.265787E-19 4.265787E-19 7.151000E-03 1.232332E-09
5 4.265787E-19 4.265787E-19 4.265787E-19 7.151000E-03 1.232332E-09
6 4.265787E-19 4.265787E-19 4.265787E-19 7.151000E-03 1.232332E-09
7 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
8 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
9 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00 5.000000E-03 0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11 5.200000E-03 1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12 8.810400E-01 1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12 8.810400E-01 1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15 1.588000E-02 5.204519E-08
16 0.000000E+00 0.000000E+00 0.000000E+00 2.000000E-01 0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13 1.460000E-01 1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00 2.000000E-01 0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16 9.000000E-02 2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00 2.000000E-01 0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16 1.500000E-01 6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10 1.750000E-01 5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
32 7.585761E-17 7.585761E-17 7.585761E-17 5.000000E-02 2.000000E-08
33 7.585761E-17 7.585761E-17 7.585761E-17 5.000000E-02 2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
37 2.137962E-13 2.137962E-13 2.137962E-13 3.700000E-01 0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15 1.588000E-02 5.204519E-08
39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
T
NFRAC
3
# DELTA_PI DELTA_FF FRAC_PHI FRAC_EXP IFRX IFRY IFRZ
4 1.850000E+06 2.500000E+06 1.715100E-02 2.472736E+01 1 1 0
5 1.850000E+06 2.500000E+06 1.715100E-02 2.472736E+01 1 1 0
6 1.850000E+06 2.500000E+06 1.715100E-02 2.472736E+01 1 1 0
KLINKENBERG EFFECT TO BE USED? True or False
T
BKLINK EXPKLINK
9.800000E-01 3.300000E-01
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01320E+05
SALT (WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.80000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE

```

1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (NIGAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
2.0477E-07 0.0000E+00 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
4.2602E-04 0.0000E+00
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
4.8530E-01 0.0000E+00
4.8530E-01 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1.1493E+00 -1.7013E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
MAT NO. MODEL 1= WASTE-FILLED, 2=BACKFILLED
1 13 4
2 14 4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F

WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F

BF2_QB0600_TEST7_V015.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
  2 31 27 1
TSTART, TMAX, MAXSTEPS
-1.5779E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
8.6400E+00 8.6400E-04 1.7280E+09 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
  3
  0.0000E+00 8.6400E+02
  3.1666E+09 8.6400E+02
  3.1666E+10 8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
  2 0 2 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  2
USER REQUESTED PRINTOUT TIMES
  0.0000E+00 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  1
USER REQUESTED RESTART TIMES
  3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
BINARY PRINT FLAGS
1 1 0 0 0 1 0 0 0 1 1 0 0 0 1 0 1 0 0 0 0 0 0
0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
HISTORY VARIABLE OUTPUT
  8
  1 4 NAME=BRINE PRESSURE
11 8 1 17 8 1 11 1 1 22 6 1
  2 1 NAME=GAS PRESSURE
22 12 1
  10 6 NAME=GAS DENSITY
  7 6 1 7 12 1 7 14 1 25 6 1 25 12 1 25 14 1
  18 30 NAME=GAS SATURATION
  8 8 1 9 8 1 10 8 1 11 8 1 12 8 1 13 8 1
14 8 1 8 9 1 9 9 1 10 9 1 11 9 1 12 9 1
13 9 1 14 9 1 8 10 1 9 10 1 10 10 1 11 10 1
12 10 1 13 10 1 14 10 1 16 8 1 17 8 1 18 8 1
16 9 1 17 9 1 18 9 1 16 10 1 17 10 1 18 10 1
  31 140 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
  3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
  3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
  8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
  8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1
22 24 1 22 25 1 22 26 1 22 27 1 23 6 1 23 7 1
23 8 1 23 9 1 23 10 1 23 11 1 23 12 1 23 13 1
```

23	14	1	23	15	1	23	16	1	23	17	1	23	18	1	23	19	1
23	20	1	23	21	1	23	22	1	23	23	1	23	24	1	23	25	1
23	26	1	23	27	1	11	1	1	11	2	1	11	3	1	11	4	1
11	5	1	11	6	1	11	7	1	11	8	1	11	9	1	11	10	1
11	11	1	11	12	1	11	13	1	11	14	1	11	15	1	11	16	1
11	17	1	11	18	1	11	19	1	11	20	1	11	21	1	11	22	1
11	23	1	11	24	1	11	25	1	11	26	1	11	27	1	12	1	1
12	2	1	12	3	1	12	4	1	12	5	1	12	6	1	12	7	1
12	8	1	12	9	1	12	10	1	12	11	1	12	12	1	12	13	1
12	14	1	12	15	1	12	16	1	12	17	1	12	18	1	12	19	1
12	20	1	12	21	1	12	22	1	12	23	1	12	24	1	12	25	1
12	26	1	12	27	1												

32	69	NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION															
8	11	1	9	11	1	10	11	1	11	11	1	12	11	1	13	11	1
14	11	1	8	8	1	9	8	1	10	8	1	11	8	1	12	8	1
13	8	1	14	8	1	16	11	1	17	11	1	18	11	1	16	8	1
17	8	1	18	8	1	22	6	1	22	7	1	22	8	1	22	9	1
22	10	1	22	11	1	22	12	1	22	13	1	22	14	1	22	15	1
22	16	1	22	17	1	22	18	1	22	19	1	22	20	1	22	21	1
22	22	1	22	23	1	22	24	1	22	25	1	22	26	1	22	27	1
11	1	1	11	2	1	11	3	1	11	4	1	11	5	1	11	6	1
11	7	1	11	8	1	11	9	1	11	10	1	11	11	1	11	12	1
11	13	1	11	14	1	11	15	1	11	16	1	11	17	1	11	18	1
11	19	1	11	20	1	11	21	1	11	22	1	11	23	1	11	24	1
11	25	1	11	26	1	11	27	1									

34	140	NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION															
3	6	1	3	12	1	3	14	1	3	19	1	3	20	1	3	21	1
3	22	1	3	23	1	3	24	1	3	25	1	3	26	1	3	27	1
30	6	1	30	12	1	30	14	1	30	19	1	30	20	1	30	21	1
30	22	1	30	23	1	30	24	1	30	25	1	30	26	1	30	27	1
8	6	1	8	12	1	8	14	1	25	6	1	25	12	1	25	14	1
16	8	1	16	9	1	16	10	1	19	8	1	19	9	1	19	10	1
8	8	1	8	9	1	8	10	1	15	8	1	15	9	1	15	10	1
22	6	1	22	7	1	22	8	1	22	9	1	22	10	1	22	11	1
22	12	1	22	13	1	22	14	1	22	15	1	22	16	1	22	17	1
22	18	1	22	19	1	22	20	1	22	21	1	22	22	1	22	23	1
22	24	1	22	25	1	22	26	1	22	27	1	23	6	1	23	7	1
23	8	1	23	9	1	23	10	1	23	11	1	23	12	1	23	13	1
23	14	1	23	15	1	23	16	1	23	17	1	23	18	1	23	19	1
23	20	1	23	21	1	23	22	1	23	23	1	23	24	1	23	25	1
23	26	1	23	27	1	11	1	1	11	2	1	11	3	1	11	4	1
11	5	1	11	6	1	11	7	1	11	8	1	11	9	1	11	10	1
11	11	1	11	12	1	11	13	1	11	14	1	11	15	1	11	16	1
11	17	1	11	18	1	11	19	1	11	20	1	11	21	1	11	22	1
11	23	1	11	24	1	11	25	1	11	26	1	11	27	1	12	1	1
12	2	1	12	3	1	12	4	1	12	5	1	12	6	1	12	7	1
12	8	1	12	9	1	12	10	1	12	11	1	12	12	1	12	13	1
12	14	1	12	15	1	12	16	1	12	17	1	12	18	1	12	19	1
12	20	1	12	21	1	12	22	1	12	23	1	12	24	1	12	25	1
12	26	1	12	27	1												

35	69	NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION															
8	11	1	9	11	1	10	11	1	11	11	1	12	11	1	13	11	1
14	11	1	8	8	1	9	8	1	10	8	1	11	8	1	12	8	1
13	8	1	14	8	1	16	11	1	17	11	1	18	11	1	16	8	1
17	8	1	18	8	1	22	6	1	22	7	1	22	8	1	22	9	1
22	10	1	22	11	1	22	12	1	22	13	1	22	14	1	22	15	1
22	16	1	22	17	1	22	18	1	22	19	1	22	20	1	22	21	1
22	22	1	22	23	1	22	24	1	22	25	1	22	26	1	22	27	1
11	1	1	11	2	1	11	3	1	11	4	1	11	5	1	11	6	1
11	7	1	11	8	1	11	9	1	11	10	1	11	11	1	11	12	1
11	13	1	11	14	1	11	15	1	11	16	1	11	17	1	11	18	1
11	19	1	11	20	1	11	21	1	11	22	1	11	23	1	11	24	1
11	25	1	11	26	1	11	27	1									

MONITOR PARAMETER VALUES AT GRIDBLOCK(S)

T
 NUMBER OF MONITOR BLOCKS
 3
 MONITOR BLOCKS (I,J,K)
 11 10 1
 17 10 1
 25 12 1

GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
 1 2 1 7

GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04 5.000000E+03 1.750000E+03 5.000000E+02 1.000000E+02 4.000000E+01
 1.000000E+01 4.380000E+01 1.000000E+01 2.000000E+00 3.475782E-01 2.000000E+00

3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02

8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.652760E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.269166E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001555E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031031E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.038910E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03

WELL DATA

0
DIRICHLET CONDITIONS

T	35						
1	20	1	T	F	8.520000E+05	0.000000E+00	
31	20	1	T	F	8.520000E+05	0.000000E+00	
1	22	1	T	F	9.000000E+05	0.000000E+00	
31	22	1	T	F	9.000000E+05	0.000000E+00	
1	27	1	T	T	1.013250E+05	2.000000E-01	
2	27	1	T	T	1.013250E+05	2.000000E-01	
3	27	1	T	T	1.013250E+05	2.000000E-01	
4	27	1	T	T	1.013250E+05	2.000000E-01	
5	27	1	T	T	1.013250E+05	2.000000E-01	
6	27	1	T	T	1.013250E+05	2.000000E-01	
7	27	1	T	T	1.013250E+05	2.000000E-01	
8	27	1	T	T	1.013250E+05	2.000000E-01	
9	27	1	T	T	1.013250E+05	2.000000E-01	
10	27	1	T	T	1.013250E+05	2.000000E-01	
11	27	1	T	T	1.013250E+05	2.000000E-01	
12	27	1	T	T	1.013250E+05	2.000000E-01	
13	27	1	T	T	1.013250E+05	2.000000E-01	
14	27	1	T	T	1.013250E+05	2.000000E-01	
15	27	1	T	T	1.013250E+05	2.000000E-01	
16	27	1	T	T	1.013250E+05	2.000000E-01	
17	27	1	T	T	1.013250E+05	2.000000E-01	
18	27	1	T	T	1.013250E+05	2.000000E-01	
19	27	1	T	T	1.013250E+05	2.000000E-01	
20	27	1	T	T	1.013250E+05	2.000000E-01	
21	27	1	T	T	1.013250E+05	2.000000E-01	
22	27	1	T	T	1.013250E+05	2.000000E-01	
23	27	1	T	T	1.013250E+05	2.000000E-01	
24	27	1	T	T	1.013250E+05	2.000000E-01	
25	27	1	T	T	1.013250E+05	2.000000E-01	
26	27	1	T	T	1.013250E+05	2.000000E-01	
27	27	1	T	T	1.013250E+05	2.000000E-01	
28	27	1	T	T	1.013250E+05	2.000000E-01	
29	27	1	T	T	1.013250E+05	2.000000E-01	
30	27	1	T	T	1.013250E+05	2.000000E-01	
31	27	1	T	T	1.013250E+05	2.000000E-01	

GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS

1.578225E+07	1.578225E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.578225E+07	1.578225E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07

1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07
1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07
1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07
1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07
1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07
1.775447E+07	1.565290E+07	1.494362E+07	1.470719E+07	1.464415E+07
1.462944E+07	1.462418E+07	1.461853E+07	1.461288E+07	1.461161E+07
1.461136E+07	1.461111E+07	1.460985E+07	1.460420E+07	1.459539E+07
1.458068E+07	1.451816E+07	1.445564E+07	1.443672E+07	1.439858E+07
1.436359E+07	1.435728E+07	1.434993E+07	1.429108E+07	1.423749E+07
1.423224E+07	1.421753E+07	1.415448E+07	1.391806E+07	1.320878E+07
1.110721E+07				
1.661574E+07	1.451417E+07	1.380489E+07	1.356846E+07	1.350542E+07
1.349071E+07	1.348545E+07	1.347980E+07	1.347415E+07	1.347289E+07
1.347263E+07	1.347238E+07	1.347112E+07	1.346547E+07	1.345666E+07
1.344195E+07	1.337943E+07	1.331691E+07	1.329799E+07	1.325985E+07
1.322486E+07	1.321855E+07	1.321120E+07	1.315235E+07	1.309876E+07
1.309351E+07	1.307880E+07	1.301575E+07	1.277933E+07	1.207005E+07
9.968480E+06				
1.624852E+07	1.414695E+07	1.343768E+07	1.320125E+07	1.313820E+07
1.312349E+07	1.311824E+07	1.311258E+07	1.310693E+07	1.310567E+07
1.310542E+07	1.310516E+07	1.310390E+07	1.309825E+07	1.308945E+07
1.307473E+07	1.301221E+07	1.294969E+07	1.293078E+07	1.289263E+07
1.285764E+07	1.285134E+07	1.284398E+07	1.278514E+07	1.273155E+07
1.272629E+07	1.271158E+07	1.264854E+07	1.241211E+07	1.170283E+07
9.601264E+06				
1.617718E+07	1.407562E+07	1.336634E+07	1.312991E+07	1.306687E+07
1.305215E+07	1.304690E+07	1.304125E+07	1.303559E+07	1.303433E+07
1.303408E+07	1.303383E+07	1.303257E+07	1.302691E+07	1.301811E+07
1.300340E+07	1.294088E+07	1.287835E+07	1.285944E+07	1.282130E+07
1.278631E+07	1.013250E+05	1.277265E+07	1.271380E+07	1.266021E+07
1.265496E+07	1.264025E+07	1.257720E+07	1.234077E+07	1.163150E+07
9.529928E+06				
1.616376E+07	1.406219E+07	1.335291E+07	1.311649E+07	1.305344E+07
1.303873E+07	1.303348E+07	1.302782E+07	1.302217E+07	1.302091E+07
1.302066E+07	1.302040E+07	1.301914E+07	1.301349E+07	1.300468E+07
1.298997E+07	1.292745E+07	1.286493E+07	1.284602E+07	1.280787E+07
1.277288E+07	1.013250E+05	1.275922E+07	1.270038E+07	1.264679E+07
1.264153E+07	1.262682E+07	1.256378E+07	1.232735E+07	1.161807E+07
9.516503E+06				
1.614750E+07	1.404594E+07	1.333666E+07	1.310023E+07	1.303718E+07
1.302247E+07	1.301722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.262528E+07	1.261056E+07	1.254752E+07	1.231109E+07	1.160181E+07
9.500245E+06				
1.613160E+07	1.403003E+07	1.332075E+07	1.308433E+07	1.302128E+07
1.300657E+07	1.300132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.260937E+07	1.259466E+07	1.253161E+07	1.229519E+07	1.158591E+07
9.484342E+06				
1.611570E+07	1.401413E+07	1.330485E+07	1.306843E+07	1.300538E+07
1.299067E+07	1.298541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.259347E+07	1.257876E+07	1.251571E+07	1.227929E+07	1.157001E+07
9.468441E+06				
1.609199E+07	1.399042E+07	1.328114E+07	1.304472E+07	1.298167E+07
1.296696E+07	1.296170E+07	1.295605E+07	1.295040E+07	1.294914E+07
1.294888E+07	1.294863E+07	1.294737E+07	1.294172E+07	1.293291E+07
1.291820E+07	1.285568E+07	1.279316E+07	1.277424E+07	1.273610E+07
1.270111E+07	1.013250E+05	1.268745E+07	1.262860E+07	1.257502E+07
1.256976E+07	1.255505E+07	1.249200E+07	1.225558E+07	1.154630E+07
9.444732E+06				
1.607460E+07	1.397304E+07	1.326376E+07	1.302733E+07	1.296429E+07
1.294957E+07	1.294432E+07	1.293867E+07	1.293301E+07	1.293175E+07
1.293150E+07	1.293125E+07	1.292999E+07	1.292433E+07	1.291553E+07
1.290082E+07	1.283830E+07	1.277577E+07	1.275686E+07	1.271872E+07
1.268373E+07	1.013250E+05	1.267007E+07	1.261122E+07	1.255763E+07
1.255238E+07	1.253767E+07	1.247462E+07	1.223819E+07	1.152891E+07
9.427348E+06				

1.601844E+07	1.391687E+07	1.320759E+07	1.297117E+07	1.290812E+07
1.289341E+07	1.288815E+07	1.288250E+07	1.287685E+07	1.287559E+07
1.287533E+07	1.287508E+07	1.287382E+07	1.286817E+07	1.285936E+07
1.284465E+07	1.278213E+07	1.271961E+07	1.270069E+07	1.266255E+07
1.262756E+07	1.013250E+05	1.261390E+07	1.255506E+07	1.250147E+07
1.249621E+07	1.248150E+07	1.241845E+07	1.218203E+07	1.147275E+07
9.371182E+06				
1.596281E+07	1.386125E+07	1.315197E+07	1.291554E+07	1.285250E+07
1.283778E+07	1.283253E+07	1.282688E+07	1.282122E+07	1.281996E+07
1.281971E+07	1.281946E+07	1.281820E+07	1.281254E+07	1.280374E+07
1.278903E+07	1.272651E+07	1.266398E+07	1.264507E+07	1.260693E+07
1.257194E+07	1.013250E+05	1.255828E+07	1.249943E+07	1.244584E+07
1.244059E+07	1.242588E+07	1.236283E+07	1.212640E+07	1.141712E+07
9.315558E+06				
1.559463E+07	1.349307E+07	1.278379E+07	1.254736E+07	1.248432E+07
1.246961E+07	1.246435E+07	1.245870E+07	1.245304E+07	1.245178E+07
1.245153E+07	1.245128E+07	1.245002E+07	1.244437E+07	1.243556E+07
1.242085E+07	1.235833E+07	1.229580E+07	1.227689E+07	1.223875E+07
1.220376E+07	1.013250E+05	1.219010E+07	1.213125E+07	1.207766E+07
1.207241E+07	1.205770E+07	1.199465E+07	1.175822E+07	1.104895E+07
8.947379E+06				
1.427320E+07	1.217163E+07	1.146235E+07	1.122593E+07	1.116288E+07
1.114817E+07	1.114292E+07	1.113726E+07	1.113161E+07	1.113035E+07
1.113010E+07	1.112984E+07	1.112858E+07	1.112293E+07	1.111412E+07
1.109941E+07	1.103689E+07	1.097437E+07	1.095546E+07	1.091731E+07
1.088232E+07	1.013250E+05	1.086866E+07	1.080982E+07	1.075623E+07
1.075097E+07	1.073626E+07	1.067322E+07	1.043679E+07	9.727510E+06
7.625944E+06				
1.236452E+07	1.026295E+07	9.553674E+06	9.317247E+06	9.254200E+06
9.239489E+06	9.234235E+06	9.228582E+06	9.222928E+06	9.221667E+06
9.221415E+06	9.221163E+06	9.219902E+06	9.214249E+06	9.205443E+06
9.190732E+06	9.128211E+06	9.065689E+06	9.046775E+06	9.008632E+06
8.973641E+06	1.013250E+05	8.959980E+06	8.901136E+06	8.847546E+06
8.842292E+06	8.827582E+06	8.764535E+06	8.528108E+06	7.818830E+06
5.717264E+06				
1.137960E+07	9.278031E+06	8.568752E+06	8.332326E+06	8.269278E+06
8.254567E+06	8.249314E+06	8.243661E+06	8.238007E+06	8.236746E+06
8.236493E+06	8.236241E+06	8.234981E+06	8.229328E+06	8.220522E+06
8.205811E+06	8.143289E+06	8.080768E+06	8.061853E+06	8.023710E+06
7.988719E+06	1.013250E+05	7.975059E+06	7.916215E+06	7.862625E+06
7.857371E+06	7.842660E+06	7.779613E+06	7.543187E+06	6.833909E+06
4.732342E+06				
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06


```
25 SHFT_B_1
26 SHFT_B_2
27 SHFT_L_1
28 SHFT_L_2
29 SHFT_U_1
30 SHFT_U_2
31 SHFT_LS1
32 SHFT_LS2
33 SHFT_US1
34 SHFT_US2
35 PAN_S_1
36 PAN_S_2
37 BOREHOLE
38 TRANS_1
39 CAVITY_5
NWST
2
MAT_WASTE1 MAT_WASTE
7 8
13 14
NDRZ
0
NMATRESET
5
MATRESET
7 8 9 10 39
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000E+00 1
POWASTEIC
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
SOWASTEIC
0.000000E+00
0.000000E+00
0.000000E+00
0.250000E+00
0.200000E+00
PRESDRZ
NBORERESET
0
# LAMBDA SOR SGR
1 6.258000E-01 1.457000E-01 3.820000E-02
2 6.258000E-01 0.000000E+00 0.000000E+00
3 6.258000E-01 0.000000E+00 0.000000E+00
4 4.498000E-01 2.215000E-01 3.221000E-01
5 4.498000E-01 2.215000E-01 3.221000E-01
6 4.498000E-01 2.215000E-01 3.221000E-01
7 7.000000E-01 0.000000E+00 0.000000E+00
8 7.000000E-01 0.000000E+00 0.000000E+00
9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 9.321000E+00 1.456000E-01 1.405000E-01
14 9.321000E+00 1.456000E-01 1.405000E-01
15 6.258000E-01 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
28 7.000000E-01 2.000000E-01 2.000000E-01
29 7.000000E-01 2.000000E-01 2.000000E-01
```

30	7.000000E-01	2.000000E-01	2.000000E-01					
31	7.000000E-01	2.000000E-01	2.000000E-01					
32	7.000000E-01	2.000000E-01	2.000000E-01					
33	7.000000E-01	2.000000E-01	2.000000E-01					
34	7.000000E-01	2.000000E-01	2.000000E-01					
35	7.000000E-01	2.000000E-01	2.000000E-01					
36	7.000000E-01	2.000000E-01	2.000000E-01					
37	7.000000E-01	2.000000E-01	0.000000E+00					
38	6.258000E-01	0.000000E+00	0.000000E+00					
39	7.000000E-01	0.000000E+00	0.000000E+00					
#	SBMIN	PEMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP
1	1.529850E-01	1.013250E+05	1.000000E+08	2.356000E+07	0.000000E+00	4	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
4	2.325750E-01	1.013250E+05	1.000000E+08	2.824881E-03	-3.460000E-01	4	2	0
5	2.325750E-01	1.013250E+05	1.000000E+08	2.824881E-03	-3.460000E-01	4	2	0
6	2.325750E-01	1.013250E+05	1.000000E+08	2.824881E-03	-3.460000E-01	4	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	1.528800E-01	1.013250E+05	1.000000E+08	1.062400E+00	-3.460000E-01	1	4	0
14	1.528800E-01	1.013250E+05	1.000000E+08	1.062400E+00	-3.460000E-01	1	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	3.940830E+05	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	3.940830E+05	0.000000E+00	4	2	0
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
#	PERMX	PERMY	PERMZ	POROSITY	COMPRES			
1	5.754402E-21	5.754402E-21	5.754402E-21	1.483000E-03	1.741734E-08			
2	1.000000E-15	1.000000E-15	1.000000E-15	1.483000E-03	5.597282E-07			
3	1.000000E-15	1.000000E-15	1.000000E-15	1.483000E-03	5.597282E-07			
4	2.884025E-20	2.884025E-20	2.884025E-20	2.341000E-02	4.362226E-09			
5	2.884025E-20	2.884025E-20	2.884025E-20	2.341000E-02	4.362226E-09			
6	2.884025E-20	2.884025E-20	2.884025E-20	2.341000E-02	4.362226E-09			
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00			
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00			
9	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00			
10	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00			
11	0.000000E+00	0.000000E+00	0.000000E+00	5.000000E-03	0.000000E+00			
12	1.330453E-11	1.330453E-11	1.330453E-11	5.200000E-03	1.923077E-07			
13	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09			
14	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09			
15	1.000000E-15	1.000000E-15	1.000000E-15	1.483000E-03	5.597282E-07			
16	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00			
17	2.648502E-13	2.648502E-13	2.648502E-13	1.460000E-01	1.417160E-09			
18	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00			
19	1.096478E-16	1.096478E-16	1.096478E-16	9.000000E-02	2.199962E-09			
20	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00			
21	9.332549E-16	9.332549E-16	9.332549E-16	1.500000E-01	6.666667E-08			
22	1.000000E-10	1.000000E-10	1.000000E-10	1.750000E-01	5.714286E-08			
23	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00			
24	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00			
25	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08			

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26 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
32 1.258927E-17 1.258927E-17 1.258927E-17 5.000000E-02 2.000000E-08
33 1.258927E-17 1.258927E-17 1.258927E-17 5.000000E-02 2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
37 2.884032E-13 2.884032E-13 2.884032E-13 3.700000E-01 0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15 1.483000E-03 5.597282E-07
39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
T
NFRAC
3
# DELTA_PI DELTA_PF FRAC_PHI FRAC_EXP IFRX IFRY IFRZ
4 1.780000E+06 2.500000E+06 3.341000E-02 6.975378E+01 1 1 0
5 1.780000E+06 2.500000E+06 3.341000E-02 6.975378E+01 1 1 0
6 1.780000E+06 2.500000E+06 3.341000E-02 6.975378E+01 1 1 0
KLINKENBERG EFFECT TO BE USED? True or False
T
BKLINK EXPKLINK
9.80000E-01 -3.30000E-01
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01320E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.80000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WRIGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.0000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
0.0000E+00 2.4937E-06 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0000E+00 1.0000E-01
RATE CONSTANTS: BRUCITEI AND BRUCITEH
```

```
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
8.2160E-02 0.0000E+00
8.2160E-02 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1.2226E+00 -1.5549E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.4000E+03 4.7000E+03 1.1000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.3700E+03 3.0500E+03 2.1700E+03
WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
# MAT NO. MODEL 1= WASTE-FILLED, 2=BACKFILLED
1 13 4
2 14 4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST7_V016.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
2 31 27 1
TSTART, TMAX, MAXSTEPS
-1.5779E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
8.6400E+00 8.6400E-04 1.7280E+09 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
3
0.0000E+00 8.6400E+02
3.1666E+09 8.6400E+02
3.1666E+10 8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
2 0 2 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
2
USER REQUESTED PRINTOUT TIMES
0.0000E+00 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
1
USER REQUESTED RESTART TIMES
3.1557E+11
```

ASCII PRINT FLAGS

```
1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
```

BINARY PRINT FLAGS

```
1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0 0 0
0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
```

HISTORY VARIABLE OUTPUT

```
8
1 4 NAME=BRINE PRESSURE
11 8 1 17 8 1 11 1 1 22 6 1
2 1 NAME=GAS PRESSURE
22 12 1
10 6 NAME=GAS DENSITY
7 6 1 7 12 1 7 14 1 25 6 1 25 12 1 25 14 1
18 30 NAME=GAS SATURATION
8 8 1 9 8 1 10 8 1 11 8 1 12 8 1 13 8 1
14 8 1 8 9 1 9 9 1 10 9 1 11 9 1 12 9 1
13 9 1 14 9 1 8 10 1 9 10 1 10 10 1 11 10 1
12 10 1 13 10 1 14 10 1 16 8 1 17 8 1 18 8 1
16 9 1 17 9 1 18 9 1 16 10 1 17 10 1 18 10 1
31 140 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1
22 24 1 22 25 1 22 26 1 22 27 1 23 6 1 23 7 1
23 8 1 23 9 1 23 10 1 23 11 1 23 12 1 23 13 1
23 14 1 23 15 1 23 16 1 23 17 1 23 18 1 23 19 1
23 20 1 23 21 1 23 22 1 23 23 1 23 24 1 23 25 1
23 26 1 23 27 1 11 1 1 11 2 1 11 3 1 11 4 1
11 5 1 11 6 1 11 7 1 11 8 1 11 9 1 11 10 1
11 11 1 11 12 1 11 13 1 11 14 1 11 15 1 11 16 1
11 17 1 11 18 1 11 19 1 11 20 1 11 21 1 11 22 1
11 23 1 11 24 1 11 25 1 11 26 1 11 27 1 12 1 1
12 2 1 12 3 1 12 4 1 12 5 1 12 6 1 12 7 1
12 8 1 12 9 1 12 10 1 12 11 1 12 12 1 12 13 1
12 14 1 12 15 1 12 16 1 12 17 1 12 18 1 12 19 1
12 20 1 12 21 1 12 22 1 12 23 1 12 24 1 12 25 1
12 26 1 12 27 1
32 69 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
8 11 1 9 11 1 10 11 1 11 11 1 12 11 1 13 11 1
14 11 1 8 8 1 9 8 1 10 8 1 11 8 1 12 8 1
13 8 1 14 8 1 16 11 1 17 11 1 18 11 1 16 8 1
17 8 1 18 8 1 22 6 1 22 7 1 22 8 1 22 9 1
22 10 1 22 11 1 22 12 1 22 13 1 22 14 1 22 15 1
22 16 1 22 17 1 22 18 1 22 19 1 22 20 1 22 21 1
22 22 1 22 23 1 22 24 1 22 25 1 22 26 1 22 27 1
11 1 1 11 2 1 11 3 1 11 4 1 11 5 1 11 6 1
11 7 1 11 8 1 11 9 1 11 10 1 11 11 1 11 12 1
11 13 1 11 14 1 11 15 1 11 16 1 11 17 1 11 18 1
11 19 1 11 20 1 11 21 1 11 22 1 11 23 1 11 24 1
11 25 1 11 26 1 11 27 1
34 140 NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1
22 24 1 22 25 1 22 26 1 22 27 1 23 6 1 23 7 1
```


3.201010E+02	3.205704E+02	3.210399E+02	3.211446E+02	3.211656E+02	3.211865E+02
3.212912E+02	3.217607E+02	3.224920E+02	3.237137E+02	3.289057E+02	3.340978E+02
3.356685E+02	3.388362E+02	3.417420E+02	3.422656E+02	3.428764E+02	3.477631E+02
3.522134E+02	3.526497E+02	3.538714E+02	3.591071E+02	3.787411E+02	4.376429E+02
6.121671E+02					
9.064270E+01	2.651668E+02	3.240687E+02	3.437026E+02	3.489384E+02	3.501600E+02
3.505963E+02	3.510658E+02	3.515353E+02	3.516400E+02	3.516609E+02	3.516819E+02
3.517866E+02	3.522561E+02	3.529873E+02	3.542090E+02	3.594011E+02	3.645932E+02
3.661639E+02	3.693315E+02	3.722373E+02	3.727609E+02	3.733717E+02	3.782584E+02
3.827088E+02	3.831451E+02	3.843668E+02	3.896025E+02	4.092365E+02	4.681383E+02
6.426624E+02					
9.656680E+01	2.710909E+02	3.299928E+02	3.496267E+02	3.548625E+02	3.560841E+02
3.565204E+02	3.569899E+02	3.574594E+02	3.575641E+02	3.575851E+02	3.576060E+02
3.577107E+02	3.581802E+02	3.589114E+02	3.601331E+02	3.653252E+02	3.705173E+02
3.720880E+02	3.752556E+02	3.781614E+02	3.786850E+02	3.792958E+02	3.841825E+02
3.886329E+02	3.890692E+02	3.902909E+02	3.955266E+02	4.151606E+02	4.740624E+02
6.485865E+02					
9.768167E+01	2.722057E+02	3.311076E+02	3.507415E+02	3.559773E+02	3.571989E+02
3.576353E+02	3.581047E+02	3.585742E+02	3.586789E+02	3.586999E+02	3.587208E+02
3.588255E+02	3.592950E+02	3.600263E+02	3.612480E+02	3.664400E+02	3.716321E+02
3.732029E+02	3.763705E+02	3.792763E+02	3.797998E+02	3.804107E+02	3.852974E+02
3.897477E+02	3.901840E+02	3.914057E+02	3.966414E+02	4.162754E+02	4.751772E+02
6.497014E+02					
9.903186E+01	2.735559E+02	3.324578E+02	3.520918E+02	3.573275E+02	3.585491E+02
3.589854E+02	3.594549E+02	3.599244E+02	3.600291E+02	3.600501E+02	3.600710E+02
3.601757E+02	3.606452E+02	3.613765E+02	3.625981E+02	3.677902E+02	3.729823E+02
3.745530E+02	3.777206E+02	3.806265E+02	3.811501E+02	3.817609E+02	3.866476E+02
3.910979E+02	3.915342E+02	3.927559E+02	3.979916E+02	4.176256E+02	4.765274E+02
6.510515E+02					
1.003524E+02	2.748765E+02	3.337784E+02	3.534124E+02	3.586481E+02	3.598698E+02
3.603061E+02	3.607755E+02	3.612450E+02	3.613497E+02	3.613707E+02	3.613916E+02
3.614963E+02	3.619658E+02	3.626971E+02	3.639187E+02	3.691108E+02	3.743029E+02
3.758736E+02	3.790413E+02	3.819471E+02	3.824706E+02	3.830815E+02	3.879681E+02
3.924185E+02	3.928548E+02	3.940765E+02	3.993122E+02	4.189462E+02	4.778481E+02
6.523721E+02					
1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	3.611903E+02
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	3.627122E+02
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02

8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.976363E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02					
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.194830E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02					
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.357305E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02					
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.523779E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02					
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.652760E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02					
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.269166E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02					
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001555E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03					
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031031E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03					
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.038910E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03					

WELL DATA

0

DIRICHLET CONDITIONS

T 35

1	20	1	T	F	8.520000E+05	0.000000E+00
31	20	1	T	F	8.520000E+05	0.000000E+00
1	22	1	T	F	9.000000E+05	0.000000E+00
31	22	1	T	F	9.000000E+05	0.000000E+00
1	27	1	T	T	1.013250E+05	2.000000E-01

2	27	1	T	T	1.013250E+05	2.000000E-01
3	27	1	T	T	1.013250E+05	2.000000E-01
4	27	1	T	T	1.013250E+05	2.000000E-01
5	27	1	T	T	1.013250E+05	2.000000E-01
6	27	1	T	T	1.013250E+05	2.000000E-01
7	27	1	T	T	1.013250E+05	2.000000E-01
8	27	1	T	T	1.013250E+05	2.000000E-01
9	27	1	T	T	1.013250E+05	2.000000E-01
10	27	1	T	T	1.013250E+05	2.000000E-01
11	27	1	T	T	1.013250E+05	2.000000E-01
12	27	1	T	T	1.013250E+05	2.000000E-01
13	27	1	T	T	1.013250E+05	2.000000E-01
14	27	1	T	T	1.013250E+05	2.000000E-01
15	27	1	T	T	1.013250E+05	2.000000E-01
16	27	1	T	T	1.013250E+05	2.000000E-01
17	27	1	T	T	1.013250E+05	2.000000E-01
18	27	1	T	T	1.013250E+05	2.000000E-01
19	27	1	T	T	1.013250E+05	2.000000E-01
20	27	1	T	T	1.013250E+05	2.000000E-01
21	27	1	T	T	1.013250E+05	2.000000E-01
22	27	1	T	T	1.013250E+05	2.000000E-01
23	27	1	T	T	1.013250E+05	2.000000E-01
24	27	1	T	T	1.013250E+05	2.000000E-01
25	27	1	T	T	1.013250E+05	2.000000E-01
26	27	1	T	T	1.013250E+05	2.000000E-01
27	27	1	T	T	1.013250E+05	2.000000E-01
28	27	1	T	T	1.013250E+05	2.000000E-01
29	27	1	T	T	1.013250E+05	2.000000E-01
30	27	1	T	T	1.013250E+05	2.000000E-01
31	27	1	T	T	1.013250E+05	2.000000E-01
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS						
1.553225E+07	1.553225E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.553225E+07
1.553225E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07
1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07
1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07
1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07
1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07
1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07
1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07	1.523060E+07
1.523060E+07	1.540290E+07	1.469362E+07	1.445719E+07	1.439415E+07	1.439415E+07	1.439415E+07
1.437944E+07	1.437418E+07	1.436853E+07	1.436288E+07	1.436161E+07	1.436161E+07	1.436161E+07
1.436136E+07	1.436111E+07	1.435985E+07	1.435420E+07	1.434539E+07	1.434539E+07	1.434539E+07
1.433068E+07	1.426816E+07	1.420564E+07	1.418672E+07	1.414858E+07	1.414858E+07	1.414858E+07
1.411359E+07	1.410728E+07	1.409993E+07	1.404108E+07	1.398749E+07	1.398749E+07	1.398749E+07
1.398224E+07	1.396753E+07	1.390448E+07	1.366806E+07	1.295878E+07	1.295878E+07	1.295878E+07
1.085721E+07	1.636574E+07	1.355489E+07	1.331846E+07	1.325542E+07	1.325542E+07	1.325542E+07
1.324071E+07	1.323545E+07	1.322980E+07	1.322415E+07	1.322289E+07	1.322289E+07	1.322289E+07
1.322263E+07	1.322238E+07	1.322112E+07	1.321547E+07	1.320666E+07	1.320666E+07	1.320666E+07
1.319195E+07	1.312943E+07	1.306691E+07	1.304799E+07	1.300985E+07	1.300985E+07	1.300985E+07
1.297486E+07	1.296855E+07	1.296120E+07	1.290235E+07	1.284876E+07	1.284876E+07	1.284876E+07
1.284351E+07	1.282880E+07	1.276575E+07	1.252933E+07	1.182005E+07	1.182005E+07	1.182005E+07
9.718480E+06	1.599852E+07	1.389695E+07	1.318768E+07	1.295125E+07	1.288820E+07	1.288820E+07
1.287349E+07	1.286824E+07	1.286258E+07	1.285693E+07	1.285567E+07	1.285567E+07	1.285567E+07
1.285542E+07	1.285516E+07	1.285390E+07	1.284825E+07	1.283945E+07	1.283945E+07	1.283945E+07
1.282473E+07	1.276221E+07	1.269969E+07	1.268078E+07	1.264263E+07	1.264263E+07	1.264263E+07
1.260764E+07	1.260134E+07	1.259398E+07	1.253514E+07	1.248155E+07	1.248155E+07	1.248155E+07
1.247629E+07	1.246158E+07	1.239854E+07	1.216211E+07	1.145283E+07	1.145283E+07	1.145283E+07
9.351264E+06	1.592718E+07	1.382562E+07	1.311634E+07	1.287991E+07	1.281687E+07	1.281687E+07
1.280215E+07	1.279690E+07	1.279125E+07	1.278559E+07	1.278433E+07	1.278433E+07	1.278433E+07
1.278408E+07	1.278383E+07	1.278257E+07	1.277691E+07	1.276811E+07	1.276811E+07	1.276811E+07
1.275340E+07	1.269088E+07	1.262835E+07	1.260944E+07	1.257130E+07	1.257130E+07	1.257130E+07
1.253631E+07	1.013250E+05	1.252265E+07	1.246380E+07	1.241021E+07	1.241021E+07	1.241021E+07
1.240496E+07	1.239025E+07	1.232720E+07	1.209077E+07	1.138150E+07	1.138150E+07	1.138150E+07
9.279928E+06	1.591376E+07	1.381219E+07	1.310291E+07	1.286649E+07	1.280344E+07	1.280344E+07
1.278873E+07	1.278348E+07	1.277782E+07	1.277217E+07	1.277091E+07	1.277091E+07	1.277091E+07
1.277066E+07	1.277040E+07	1.276914E+07	1.276349E+07	1.275468E+07	1.275468E+07	1.275468E+07

1.273997E+07	1.267745E+07	1.261493E+07	1.259602E+07	1.255787E+07
1.252288E+07	1.013250E+05	1.250922E+07	1.245038E+07	1.239679E+07
1.239153E+07	1.237682E+07	1.231378E+07	1.207735E+07	1.136807E+07
9.266503E+06				
1.589750E+07	1.379594E+07	1.308666E+07	1.285023E+07	1.278718E+07
1.277247E+07	1.276722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.238053E+07
1.237528E+07	1.236056E+07	1.229752E+07	1.206109E+07	1.135181E+07
9.250245E+06				
1.588160E+07	1.378003E+07	1.307075E+07	1.283433E+07	1.277128E+07
1.275657E+07	1.275132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.236463E+07
1.235937E+07	1.234466E+07	1.228161E+07	1.204519E+07	1.133591E+07
9.234342E+06				
1.586570E+07	1.376413E+07	1.305485E+07	1.281843E+07	1.275538E+07
1.274067E+07	1.273541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.234872E+07
1.234347E+07	1.232876E+07	1.226571E+07	1.202929E+07	1.132001E+07
9.218441E+06				
1.584199E+07	1.374042E+07	1.303114E+07	1.279472E+07	1.273167E+07
1.271696E+07	1.271170E+07	1.270605E+07	1.270040E+07	1.269914E+07
1.269888E+07	1.269863E+07	1.269737E+07	1.269172E+07	1.268291E+07
1.266820E+07	1.260568E+07	1.254316E+07	1.252424E+07	1.248610E+07
1.245111E+07	1.013250E+05	1.243745E+07	1.237860E+07	1.232502E+07
1.231976E+07	1.230505E+07	1.224200E+07	1.200558E+07	1.129630E+07
9.194732E+06				
1.582460E+07	1.372304E+07	1.301376E+07	1.277733E+07	1.271429E+07
1.269957E+07	1.269432E+07	1.268867E+07	1.268301E+07	1.268175E+07
1.268150E+07	1.268125E+07	1.267999E+07	1.267433E+07	1.266553E+07
1.265082E+07	1.258830E+07	1.252577E+07	1.250686E+07	1.246872E+07
1.243373E+07	1.013250E+05	1.242007E+07	1.236122E+07	1.230763E+07
1.230238E+07	1.228767E+07	1.222462E+07	1.198819E+07	1.127892E+07
9.177348E+06				
1.576844E+07	1.366687E+07	1.295759E+07	1.272117E+07	1.265812E+07
1.264341E+07	1.263815E+07	1.263250E+07	1.262685E+07	1.262559E+07
1.262533E+07	1.262508E+07	1.262382E+07	1.261817E+07	1.260936E+07
1.259465E+07	1.253213E+07	1.246961E+07	1.245069E+07	1.241255E+07
1.237756E+07	1.013250E+05	1.236390E+07	1.230506E+07	1.225147E+07
1.224621E+07	1.223150E+07	1.216845E+07	1.193203E+07	1.122275E+07
9.121182E+06				
1.571281E+07	1.361125E+07	1.290197E+07	1.266554E+07	1.260250E+07
1.258778E+07	1.258253E+07	1.257688E+07	1.257122E+07	1.256996E+07
1.256971E+07	1.256946E+07	1.256820E+07	1.256254E+07	1.255374E+07
1.253903E+07	1.247651E+07	1.241398E+07	1.239507E+07	1.235693E+07
1.232194E+07	1.013250E+05	1.230828E+07	1.224943E+07	1.219584E+07
1.219059E+07	1.217588E+07	1.211283E+07	1.187640E+07	1.116713E+07
9.065558E+06				
1.534463E+07	1.324307E+07	1.253379E+07	1.229736E+07	1.223432E+07
1.221961E+07	1.221435E+07	1.220870E+07	1.220304E+07	1.220178E+07
1.220153E+07	1.220128E+07	1.220002E+07	1.219437E+07	1.218556E+07
1.217085E+07	1.210833E+07	1.204580E+07	1.202689E+07	1.198875E+07
1.195376E+07	1.013250E+05	1.194010E+07	1.188125E+07	1.182766E+07
1.182241E+07	1.180770E+07	1.174465E+07	1.150822E+07	1.079895E+07
8.697379E+06				
1.402320E+07	1.192163E+07	1.121235E+07	1.097593E+07	1.091288E+07
1.089817E+07	1.089292E+07	1.088726E+07	1.088161E+07	1.088035E+07
1.088010E+07	1.087984E+07	1.087858E+07	1.087293E+07	1.086412E+07
1.084941E+07	1.078689E+07	1.072437E+07	1.070546E+07	1.066731E+07
1.063232E+07	1.013250E+05	1.061866E+07	1.055982E+07	1.050623E+07
1.050097E+07	1.048626E+07	1.042322E+07	1.018679E+07	9.477510E+06
7.375944E+06				
1.211452E+07	1.001295E+07	9.303673E+06	9.067247E+06	9.004200E+06
8.989489E+06	8.984235E+06	8.978582E+06	8.972928E+06	8.971667E+06
8.971415E+06	8.971163E+06	8.969902E+06	8.964249E+06	8.955443E+06
8.940732E+06	8.878211E+06	8.815689E+06	8.796775E+06	8.758632E+06
8.723641E+06	1.013250E+05	8.709980E+06	8.651136E+06	8.597546E+06
8.592292E+06	8.577582E+06	8.514535E+06	8.278108E+06	7.568830E+06
5.467264E+06				
1.112960E+07	9.028031E+06	8.318752E+06	8.082325E+06	8.019278E+06
8.004567E+06	7.999314E+06	7.993661E+06	7.988007E+06	7.986746E+06

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NAME
1 S_HALITE
2 DRZ_0
3 TRANS_0
4 S_MB139
5 S_ANH_AB
6 S_MB138
7 CAVITY_1
8 CAVITY_2
9 CAVITY_3
10 CAVITY_4
11 IMPERM_Z
12 CASTILER
13 WAS_AREA
14 REPOSIT
15 DRZ_1
16 UNNAMED
17 CULEBRA
18 TAMARISK
19 MAGENTA
20 FORTYNIN
21 DEWYLAKE
22 SANTAROS
23 BACKFILL
24 EXP_AREA
25 SHFT_B_1
26 SHFT_B_2
27 SHFT_L_1
28 SHFT_L_2
29 SHFT_U_1
30 SHFT_U_2
31 SHFT_LS1
32 SHFT_LS2
33 SHFT_US1
34 SHFT_US2
35 PAN_S_1
36 PAN_S_2
37 BOREHOLE
38 TRANS_1
39 CAVITY_5
NWST
2
MAT_WASTE1 MAT_WASTE
7 8
13 14
NDRZ
0
NMATRESET
5
MATRESET
7 8 9 10 39
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000E+00 1
POWASTEIC
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
SOWASTEIC

0.000000E+00
0.000000E+00
0.000000E+00
0.250000E+00
0.200000E+00
PRESDRZ

NBORERESET
0

#	LAMBDA	SCR	SGR
1	9.009000E+00	3.718000E-02	3.869000E-01
2	9.009000E+00	0.000000E+00	0.000000E+00
3	9.009000E+00	0.000000E+00	0.000000E+00
4	9.422000E+00	7.123000E-02	1.134000E-01
5	9.422000E+00	7.123000E-02	1.134000E-01
6	9.422000E+00	7.123000E-02	1.134000E-01
7	7.000000E-01	0.000000E+00	0.000000E+00
8	7.000000E-01	0.000000E+00	0.000000E+00
9	7.000000E-01	0.000000E+00	0.000000E+00
10	7.000000E-01	0.000000E+00	0.000000E+00
11	1.000000E+00	0.000000E+00	0.000000E+00
12	7.000000E-01	2.000000E-01	2.000000E-01
13	4.563000E-01	3.100000E-02	9.095000E-02
14	4.563000E-01	3.100000E-02	9.095000E-02
15	9.009000E+00	0.000000E+00	0.000000E+00
16	7.000000E-01	2.000000E-01	2.000000E-01
17	7.000000E-01	2.000000E-01	2.000000E-01
18	7.000000E-01	2.000000E-01	2.000000E-01
19	7.000000E-01	2.000000E-01	2.000000E-01
20	7.000000E-01	2.000000E-01	2.000000E-01
21	7.000000E-01	2.000000E-01	2.000000E-01
22	7.000000E-01	2.000000E-01	2.000000E-01
23	7.000000E-01	0.000000E+00	0.000000E+00
24	7.000000E-01	0.000000E+00	0.000000E+00
25	7.000000E-01	2.000000E-01	2.000000E-01
26	7.000000E-01	2.000000E-01	2.000000E-01
27	7.000000E-01	2.000000E-01	2.000000E-01
28	7.000000E-01	2.000000E-01	2.000000E-01
29	7.000000E-01	2.000000E-01	2.000000E-01
30	7.000000E-01	2.000000E-01	2.000000E-01
31	7.000000E-01	2.000000E-01	2.000000E-01
32	7.000000E-01	2.000000E-01	2.000000E-01
33	7.000000E-01	2.000000E-01	2.000000E-01
34	7.000000E-01	2.000000E-01	2.000000E-01
35	7.000000E-01	2.000000E-01	2.000000E-01
36	7.000000E-01	2.000000E-01	2.000000E-01
37	7.000000E-01	2.000000E-01	0.000000E+00
38	9.009000E+00	0.000000E+00	0.000000E+00
39	7.000000E-01	0.000000E+00	0.000000E+00

#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP
1	3.903900E-02	1.013250E+05	1.000000E+08	8.595000E+06	0.000000E+00	4	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
4	7.479150E-02	1.013250E+05	1.000000E+08	4.920394E-01	-3.460000E-01	4	2	0
5	7.479150E-02	1.013250E+05	1.000000E+08	4.920394E-01	-3.460000E-01	4	2	0
6	7.479150E-02	1.013250E+05	1.000000E+08	4.920394E-01	-3.460000E-01	4	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	3.255000E-02	1.013250E+05	1.000000E+08	3.448959E-01	-3.460000E-01	4	4	0
14	3.255000E-02	1.013250E+05	1.000000E+08	3.448959E-01	-3.460000E-01	4	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0

27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	2.865417E+05	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	2.865417E+05	0.000000E+00	4	2	0
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0

#	PERMX	PERMY	PERMZ	POROSITY	COMPRES
1	1.122017E-23	1.122017E-23	1.122017E-23	1.389000E-02	5.953114E-09
2	1.000000E-15	1.000000E-15	1.000000E-15	1.389000E-02	5.953745E-08
3	1.000000E-15	1.000000E-15	1.000000E-15	1.389000E-02	5.953745E-08
4	5.011881E-20	5.011881E-20	5.011881E-20	1.787000E-02	3.125846E-10
5	5.011881E-20	5.011881E-20	5.011881E-20	1.787000E-02	3.125846E-10
6	5.011881E-20	5.011881E-20	5.011881E-20	1.787000E-02	3.125846E-10
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
9	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
10	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
11	0.000000E+00	0.000000E+00	0.000000E+00	5.000000E-03	0.000000E+00
12	1.330453E-11	1.330453E-11	1.330453E-11	5.200000E-03	1.923077E-07
13	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
14	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
15	1.000000E-15	1.000000E-15	1.000000E-15	1.389000E-02	5.953745E-08
16	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
17	2.648502E-13	2.648502E-13	2.648502E-13	1.460000E-01	1.417160E-09
18	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
19	1.096478E-16	1.096478E-16	1.096478E-16	9.000000E-02	2.199962E-09
20	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
21	9.332549E-16	9.332549E-16	9.332549E-16	1.500000E-01	6.666667E-08
22	1.000000E-10	1.000000E-10	1.000000E-10	1.750000E-01	5.714286E-08
23	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00
24	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00
25	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
26	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
27	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
28	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
29	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09
30	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09
31	1.000000E-12	1.000000E-12	1.000000E-12	5.000000E-02	2.000000E-08
32	3.162278E-17	3.162278E-17	3.162278E-17	5.000000E-02	2.000000E-08
33	3.162278E-17	3.162278E-17	3.162278E-17	5.000000E-02	2.000000E-08
34	1.000000E-12	1.000000E-12	1.000000E-12	5.000000E-02	2.000000E-08
35	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
36	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
37	9.549916E-13	9.549916E-13	9.549916E-13	3.700000E-01	0.000000E+00
38	1.000000E-15	1.000000E-15	1.000000E-15	1.389000E-02	5.953745E-08
39	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00

TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12

1.000000E-02 1.000000E-03

NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL

0

FRACTURE MODEL DATA TO FOLLOW :T OR F

T

NFRAC

3

#	DELTA_PI	DELTA_PF	FRAC_PHI	FRAC_EXP	IFRX	IFRY	IFRZ
4	1.400000E+06	2.500000E+06	2.787000E-02	5.341705E+01	1	1	0
5	1.400000E+06	2.500000E+06	2.787000E-02	5.341705E+01	1	1	0
6	1.400000E+06	2.500000E+06	2.787000E-02	5.341705E+01	1	1	0

KLINKENBERG EFFECT TO BE USED? True or False

T

BKLINK EXPKLINK

9.800000E-01 -3.300000E-01

GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R

9.79D+00 8.314510D+00

REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS

3.00150E+02 1.01320E+05

SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O

2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03

VISC_BR VISC_GAS

```
1.80000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (NIGAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.0000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
2.1510E-08 0.0000E+00 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0000E+00 0.0000E+00
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
1.4290E-01 0.0000E+00
1.4290E-01 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1.1327E+00 -1.7346E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
# MAT NO. MODEL 1= WASTE-FILLED, 2=BACKFILLED
1 13 4
2 14 4
```

WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F

BF2_QB0600_TEST7_V017.INP

1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
2 31 27 1
TSTART, TMAX, MAXSTEPS
-1.5779E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
8.6400E+00 8.6400E-04 1.7280E+09 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
3
0.0000E+00 8.6400E+02
3.1666E+09 8.6400E+02
3.1666E+10 8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPEPERST UNITSI UNITSO
2 0 2 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
2
USER REQUESTED PRINTOUT TIMES
0.0000E+00 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
1
USER REQUESTED RESTART TIMES
3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
0
0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0
0 0 0 0 0 0 0
BINARY PRINT FLAGS
1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 1 0 0 0 0 0 0
0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0
0 0 0 0 0 0 0
HISTORY VARIABLE OUTPUT
8
1 4 NAME=BRINE PRESSURE
11 8 1 17 8 1 11 1 1 22 6 1
2 1 NAME=GAS PRESSURE
22 12 1
10 6 NAME=GAS DENSITY
7 6 1 7 12 1 7 14 1 25 6 1 25 12 1 25 14 1
18 30 NAME=GAS SATURATION
8 8 1 9 8 1 10 8 1 11 8 1 12 8 1 13 8 1
14 8 1 8 9 1 9 9 1 10 9 1 11 9 1 12 9 1
13 9 1 14 9 1 8 10 1 9 10 1 10 10 1 11 10 1
12 10 1 13 10 1 14 10 1 16 8 1 17 8 1 18 8 1
16 9 1 17 9 1 18 9 1 16 10 1 17 10 1 18 10 1
31 140 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1

22 24	1	22 25	1	22 26	1	22 27	1	23 6	1	23 7	1
23 8	1	23 9	1	23 10	1	23 11	1	23 12	1	23 13	1
23 14	1	23 15	1	23 16	1	23 17	1	23 18	1	23 19	1
23 20	1	23 21	1	23 22	1	23 23	1	23 24	1	23 25	1
23 26	1	23 27	1	11 1	1	11 2	1	11 3	1	11 4	1
11 5	1	11 6	1	11 7	1	11 8	1	11 9	1	11 10	1
11 11	1	11 12	1	11 13	1	11 14	1	11 15	1	11 16	1
11 17	1	11 18	1	11 19	1	11 20	1	11 21	1	11 22	1
11 23	1	11 24	1	11 25	1	11 26	1	11 27	1	12 1	1
12 2	1	12 3	1	12 4	1	12 5	1	12 6	1	12 7	1
12 8	1	12 9	1	12 10	1	12 11	1	12 12	1	12 13	1
12 14	1	12 15	1	12 16	1	12 17	1	12 18	1	12 19	1
12 20	1	12 21	1	12 22	1	12 23	1	12 24	1	12 25	1
12 26	1	12 27	1								

32	69	NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION									
8 11	1	9 11	1	10 11	1	11 11	1	12 11	1	13 11	1
14 11	1	8 8	1	9 8	1	10 8	1	11 8	1	12 8	1
13 8	1	14 8	1	16 11	1	17 11	1	18 11	1	16 8	1
17 8	1	18 8	1	22 6	1	22 7	1	22 8	1	22 9	1
22 10	1	22 11	1	22 12	1	22 13	1	22 14	1	22 15	1
22 16	1	22 17	1	22 18	1	22 19	1	22 20	1	22 21	1
22 22	1	22 23	1	22 24	1	22 25	1	22 26	1	22 27	1
11 1	1	11 2	1	11 3	1	11 4	1	11 5	1	11 6	1
11 7	1	11 8	1	11 9	1	11 10	1	11 11	1	11 12	1
11 13	1	11 14	1	11 15	1	11 16	1	11 17	1	11 18	1
11 19	1	11 20	1	11 21	1	11 22	1	11 23	1	11 24	1
11 25	1	11 26	1	11 27	1						

34	140	NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION									
3 6	1	3 12	1	3 14	1	3 19	1	3 20	1	3 21	1
3 22	1	3 23	1	3 24	1	3 25	1	3 26	1	3 27	1
30 6	1	30 12	1	30 14	1	30 19	1	30 20	1	30 21	1
30 22	1	30 23	1	30 24	1	30 25	1	30 26	1	30 27	1
8 6	1	8 12	1	8 14	1	25 6	1	25 12	1	25 14	1
16 8	1	16 9	1	16 10	1	19 8	1	19 9	1	19 10	1
8 8	1	8 9	1	8 10	1	15 8	1	15 9	1	15 10	1
22 6	1	22 7	1	22 8	1	22 9	1	22 10	1	22 11	1
22 12	1	22 13	1	22 14	1	22 15	1	22 16	1	22 17	1
22 18	1	22 19	1	22 20	1	22 21	1	22 22	1	22 23	1
22 24	1	22 25	1	22 26	1	22 27	1	23 6	1	23 7	1
23 8	1	23 9	1	23 10	1	23 11	1	23 12	1	23 13	1
23 14	1	23 15	1	23 16	1	23 17	1	23 18	1	23 19	1
23 20	1	23 21	1	23 22	1	23 23	1	23 24	1	23 25	1
23 26	1	23 27	1	11 1	1	11 2	1	11 3	1	11 4	1
11 5	1	11 6	1	11 7	1	11 8	1	11 9	1	11 10	1
11 11	1	11 12	1	11 13	1	11 14	1	11 15	1	11 16	1
11 17	1	11 18	1	11 19	1	11 20	1	11 21	1	11 22	1
11 23	1	11 24	1	11 25	1	11 26	1	11 27	1	12 1	1
12 2	1	12 3	1	12 4	1	12 5	1	12 6	1	12 7	1
12 8	1	12 9	1	12 10	1	12 11	1	12 12	1	12 13	1
12 14	1	12 15	1	12 16	1	12 17	1	12 18	1	12 19	1
12 20	1	12 21	1	12 22	1	12 23	1	12 24	1	12 25	1
12 26	1	12 27	1								

35	69	NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION									
8 11	1	9 11	1	10 11	1	11 11	1	12 11	1	13 11	1
14 11	1	8 8	1	9 8	1	10 8	1	11 8	1	12 8	1
13 8	1	14 8	1	16 11	1	17 11	1	18 11	1	16 8	1
17 8	1	18 8	1	22 6	1	22 7	1	22 8	1	22 9	1
22 10	1	22 11	1	22 12	1	22 13	1	22 14	1	22 15	1
22 16	1	22 17	1	22 18	1	22 19	1	22 20	1	22 21	1
22 22	1	22 23	1	22 24	1	22 25	1	22 26	1	22 27	1
11 1	1	11 2	1	11 3	1	11 4	1	11 5	1	11 6	1
11 7	1	11 8	1	11 9	1	11 10	1	11 11	1	11 12	1
11 13	1	11 14	1	11 15	1	11 16	1	11 17	1	11 18	1
11 19	1	11 20	1	11 21	1	11 22	1	11 23	1	11 24	1
11 25	1	11 26	1	11 27	1						

MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
 3
 MONITOR BLOCKS (I,J,K)
 11 10 1
 17 10 1
 25 12 1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
 1 2 1 7
 GRID DATA CARDS: GRID BLOCK DX'S

3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.194830E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.357305E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.523779E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02

1.222238E+07	1.220767E+07	1.214462E+07	1.190819E+07	1.119892E+07
9.097348E+06				
1.568844E+07	1.358687E+07	1.287759E+07	1.264117E+07	1.257812E+07
1.256341E+07	1.255815E+07	1.255250E+07	1.254685E+07	1.254559E+07
1.254533E+07	1.254508E+07	1.254382E+07	1.253817E+07	1.252936E+07
1.251465E+07	1.245213E+07	1.238961E+07	1.237069E+07	1.233255E+07
1.229756E+07	1.013250E+05	1.228390E+07	1.222506E+07	1.217147E+07
1.216621E+07	1.215150E+07	1.208845E+07	1.185203E+07	1.114275E+07
9.041182E+06				
1.563281E+07	1.353125E+07	1.282197E+07	1.258554E+07	1.252250E+07
1.250778E+07	1.250253E+07	1.249688E+07	1.249122E+07	1.248996E+07
1.248971E+07	1.248946E+07	1.248820E+07	1.248254E+07	1.247374E+07
1.245903E+07	1.239651E+07	1.233398E+07	1.231507E+07	1.227693E+07
1.224194E+07	1.013250E+05	1.222828E+07	1.216943E+07	1.211584E+07
1.211059E+07	1.209588E+07	1.203283E+07	1.179640E+07	1.108713E+07
8.985558E+06				
1.526463E+07	1.316307E+07	1.245379E+07	1.221736E+07	1.215432E+07
1.213961E+07	1.213435E+07	1.212870E+07	1.212304E+07	1.212178E+07
1.212153E+07	1.212128E+07	1.212002E+07	1.211437E+07	1.210556E+07
1.209085E+07	1.202833E+07	1.196580E+07	1.194689E+07	1.190875E+07
1.187376E+07	1.013250E+05	1.186010E+07	1.180125E+07	1.174766E+07
1.174241E+07	1.172770E+07	1.166465E+07	1.142822E+07	1.071895E+07
8.617379E+06				
1.394320E+07	1.184163E+07	1.113235E+07	1.089593E+07	1.083288E+07
1.081817E+07	1.081292E+07	1.080726E+07	1.080161E+07	1.080035E+07
1.080010E+07	1.079984E+07	1.079858E+07	1.079293E+07	1.078412E+07
1.076941E+07	1.070689E+07	1.064437E+07	1.062546E+07	1.058731E+07
1.055232E+07	1.013250E+05	1.053866E+07	1.047982E+07	1.042623E+07
1.042097E+07	1.040626E+07	1.034322E+07	1.010679E+07	9.397510E+06
7.295944E+06				
1.203452E+07	9.932952E+06	9.223673E+06	8.987247E+06	8.924200E+06
8.909489E+06	8.904235E+06	8.898582E+06	8.892928E+06	8.891667E+06
8.891415E+06	8.891163E+06	8.889902E+06	8.884249E+06	8.875443E+06
8.860732E+06	8.798211E+06	8.735689E+06	8.716775E+06	8.678632E+06
8.643641E+06	1.013250E+05	8.629980E+06	8.571136E+06	8.517546E+06
8.512292E+06	8.497582E+06	8.434535E+06	8.198108E+06	7.488830E+06
5.387264E+06				
1.104960E+07	8.948031E+06	8.238752E+06	8.002325E+06	7.939278E+06
7.924567E+06	7.919314E+06	7.913661E+06	7.908007E+06	7.906746E+06
7.906493E+06	7.906241E+06	7.904981E+06	7.899328E+06	7.890522E+06
7.875811E+06	7.813289E+06	7.750768E+06	7.731853E+06	7.693710E+06
7.658719E+06	1.013250E+05	7.645059E+06	7.586215E+06	7.532625E+06
7.527371E+06	7.512660E+06	7.449613E+06	7.213187E+06	6.503909E+06
4.402342E+06				
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
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2.296527E+06	1.013250E+05	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06				
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	1.013250E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05				
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.013250E+05	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06				
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	1.013250E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05				
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
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1.481906E+06				


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22 22 22 22 22
  
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- # NAME
- 1 S_HALITE
- 2 DRZ_0
- 3 TRANS_0
- 4 S_MB139
- 5 S_ANH_AB
- 6 S_MB138
- 7 CAVITY_1
- 8 CAVITY_2
- 9 CAVITY_3
- 10 CAVITY_4
- 11 IMPERM_Z
- 12 CASTLER
- 13 WAS_AREA
- 14 REPOSIT
- 15 DRZ_1
- 16 UNNAMED
- 17 CULEBRA
- 18 TAMARISK
- 19 MAGENTA
- 20 FORTYNIN
- 21 DEWYLAKE
- 22 SANTAROS

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23 BACKFILL
24 EXP_AREA
25 SHFT_B_1
26 SHFT_B_2
27 SHFT_L_1
28 SHFT_L_2
29 SHFT_U_1
30 SHFT_U_2
31 SHFT_LS1
32 SHFT_LS2
33 SHFT_US1
34 SHFT_US2
35 PAN_S_1
36 PAN_S_2
37 BOREHOLE
38 TRANS_1
39 CAVITY__5
NWST
2
MAT_WASTE1 MAT_WASTE
7 8
13 14
NDRZ
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NMATRESET
5
MATRESET
7 8 9 10 39
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000E+00 1
POWASTEIC
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
SOWASTEIC
0.000000E+00
0.000000E+00
0.000000E+00
0.250000E+00
0.200000E+00
PRESDRZ

NBORERESET
0
# LAMBDA SOR SGR
1 9.975000E+00 2.142000E-01 1.649000E-01
2 9.975000E+00 0.000000E+00 0.000000E+00
3 9.975000E+00 0.000000E+00 0.000000E+00
4 6.409000E-01 1.214000E-01 5.474000E-02
5 6.409000E-01 1.214000E-01 5.474000E-02
6 6.409000E-01 1.214000E-01 5.474000E-02
7 7.000000E-01 0.000000E+00 0.000000E+00
8 7.000000E-01 0.000000E+00 0.000000E+00
9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 5.978000E+00 1.818000E-01 3.656000E-01
14 5.978000E+00 1.818000E-01 3.656000E-01
15 9.975000E+00 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
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28	7.000000E-01	2.000000E-01	2.000000E-01						
29	7.000000E-01	2.000000E-01	2.000000E-01						
30	7.000000E-01	2.000000E-01	2.000000E-01						
31	7.000000E-01	2.000000E-01	2.000000E-01						
32	7.000000E-01	2.000000E-01	2.000000E-01						
33	7.000000E-01	2.000000E-01	2.000000E-01						
34	7.000000E-01	2.000000E-01	2.000000E-01						
35	7.000000E-01	2.000000E-01	2.000000E-01						
36	7.000000E-01	2.000000E-01	2.000000E-01						
37	7.000000E-01	2.000000E-01	0.000000E+00						
38	9.975000E+00	0.000000E+00	0.000000E+00						
39	7.000000E-01	0.000000E+00	0.000000E+00						
#	SBMIN	PRMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP	
1	2.249100E-01	1.013250E+05	1.000000E+08	3.663000E+06	0.000000E+00	1	2	0	
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0	
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0	
4	1.274700E-01	1.013250E+05	1.000000E+08	5.284447E-03	-3.460000E-01	1	2	0	
5	1.274700E-01	1.013250E+05	1.000000E+08	5.284447E-03	-3.460000E-01	1	2	0	
6	1.274700E-01	1.013250E+05	1.000000E+08	5.284447E-03	-3.460000E-01	1	2	0	
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
13	1.908900E-01	1.013250E+05	1.000000E+08	2.465971E-01	-3.460000E-01	1	4	0	
14	1.908900E-01	1.013250E+05	1.000000E+08	2.465971E-01	-3.460000E-01	1	4	0	
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0	
16	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	1	0	
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0	
32	2.100000E-01	1.013250E+05	1.000000E+08	3.203521E+05	0.000000E+00	4	2	0	
33	2.100000E-01	1.013250E+05	1.000000E+08	3.203521E+05	0.000000E+00	4	2	0	
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0	
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0	
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
#	PERMX	PERMY	PERMZ	POROSITY	COMPRES				
1	7.413117E-21	7.413117E-21	7.413117E-21	1.097000E-02	3.058938E-08				
2	1.000000E-15	1.000000E-15	1.000000E-15	1.097000E-02	7.545170E-08				
3	1.000000E-15	1.000000E-15	1.000000E-15	1.097000E-02	7.545170E-08				
4	7.762460E-19	7.762460E-19	7.762460E-19	4.409000E-02	1.594898E-09				
5	7.762460E-19	7.762460E-19	7.762460E-19	4.409000E-02	1.594898E-09				
6	7.762460E-19	7.762460E-19	7.762460E-19	4.409000E-02	1.594898E-09				
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00				
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00				
9	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00				
10	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00				
11	0.000000E+00	0.000000E+00	0.000000E+00	5.000000E-03	0.000000E+00				
12	1.330453E-11	1.330453E-11	1.330453E-11	5.200000E-03	1.923077E-07				
13	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09				
14	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09				
15	1.000000E-15	1.000000E-15	1.000000E-15	1.097000E-02	7.545170E-08				
16	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00				
17	2.648502E-13	2.648502E-13	2.648502E-13	1.468000E-01	1.417160E-09				
18	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00				
19	1.096478E-16	1.096478E-16	1.096478E-16	9.000000E-02	2.199962E-09				
20	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00				
21	9.332549E-16	9.332549E-16	9.332549E-16	1.500000E-01	6.666667E-08				
22	1.000000E-10	1.000000E-10	1.000000E-10	1.750000E-01	5.714286E-08				
23	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00				

24 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
32 2.290871E-17 2.290871E-17 2.290871E-17 5.000000E-02 2.000000E-08
33 2.290871E-17 2.290871E-17 2.290871E-17 5.000000E-02 2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
37 4.570880E-13 4.570880E-13 4.570880E-13 3.700000E-01 0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15 1.097000E-02 7.545170E-08
39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
T
NFRAC
3
DELTA_PI DELTA_FF FRAC_PHI FRAC_EXP IFRX IFRY IFRZ
4 1.870000E+06 2.500000E+06 5.409000E-02 1.041362E+02 1 1 0
5 1.870000E+06 2.500000E+06 5.409000E-02 1.041362E+02 1 1 0
6 1.870000E+06 2.500000E+06 5.409000E-02 1.041362E+02 1 1 0
KLINKENBERG EFFECT TO BE USED? True or False
T
BKLINK EXPKLINK
9.80000E-01 -3.30000E-01
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01320E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.80000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND AND BIODEGRADATION (RKBIO)
0.0000E+00 1.2085E-07 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO


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0.0000E+00 1.0000E-01
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
5.3320E-01 0.0000E+00
5.3320E-01 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1.1560E+00 -1.6880E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.4000E+03 4.7000E+03 1.1000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.3700E+03 3.0500E+03 2.1700E+03
WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
# MAT NO. MODEL 1= WASTE-FILLED, 2=BACKFILLED
1 13 4
2 14 4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST7_V018.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
2 31 27 1
TSTART, TMAX, MAXSTEPS
-1.5779E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
8.6400E+00 8.6400E-04 1.7280E+09 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
3
0.0000E+00 8.6400E+02
3.1666E+09 8.6400E+02
3.1666E+10 8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
2 0 2 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
2
USER REQUESTED PRINTOUT TIMES
0.0000E+00 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
1
```

USER REQUESTED RESTART TIMES
3.1557E+11

ASCII PRINT FLAGS

1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
0
0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0
0 0 0 0 0 0 0

BINARY PRINT FLAGS

1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0 0 0
0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0
0 0 0 0 0 0 0

HISTORY VARIABLE OUTPUT

8
1 4 NAME=BRINE PRESSURE
11 8 1 17 8 1 11 1 1 22 6 1
2 1 NAME=GAS PRESSURE
22 12 1
10 6 NAME=GAS DENSITY
7 6 1 7 12 1 7 14 1 25 6 1 25 12 1 25 14 1
18 30 NAME=GAS SATURATION
8 8 1 9 8 1 10 8 1 11 8 1 12 8 1 13 8 1
14 8 1 8 9 1 9 9 1 10 9 1 11 9 1 12 9 1
13 9 1 14 9 1 8 10 1 9 10 1 10 10 1 11 10 1
12 10 1 13 10 1 14 10 1 16 8 1 17 8 1 18 8 1
16 9 1 17 9 1 18 9 1 16 10 1 17 10 1 18 10 1
31 140 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1
22 18 1 22 19 1 22 20 1 22 21 1 22 22 1 22 23 1
22 24 1 22 25 1 22 26 1 22 27 1 23 6 1 23 7 1
23 8 1 23 9 1 23 10 1 23 11 1 23 12 1 23 13 1
23 14 1 23 15 1 23 16 1 23 17 1 23 18 1 23 19 1
23 20 1 23 21 1 23 22 1 23 23 1 23 24 1 23 25 1
23 26 1 23 27 1 11 1 1 11 2 1 11 3 1 11 4 1
11 5 1 11 6 1 11 7 1 11 8 1 11 9 1 11 10 1
11 11 1 11 12 1 11 13 1 11 14 1 11 15 1 11 16 1
11 17 1 11 18 1 11 19 1 11 20 1 11 21 1 11 22 1
11 23 1 11 24 1 11 25 1 11 26 1 11 27 1 12 1 1
12 2 1 12 3 1 12 4 1 12 5 1 12 6 1 12 7 1
12 8 1 12 9 1 12 10 1 12 11 1 12 12 1 12 13 1
12 14 1 12 15 1 12 16 1 12 17 1 12 18 1 12 19 1
12 20 1 12 21 1 12 22 1 12 23 1 12 24 1 12 25 1
12 26 1 12 27 1
32 69 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
8 11 1 9 11 1 10 11 1 11 11 1 12 11 1 13 11 1
14 11 1 8 8 1 9 8 1 10 8 1 11 8 1 12 8 1
13 8 1 14 8 1 16 11 1 17 11 1 18 11 1 16 8 1
17 8 1 18 8 1 22 6 1 22 7 1 22 8 1 22 9 1
22 10 1 22 11 1 22 12 1 22 13 1 22 14 1 22 15 1
22 16 1 22 17 1 22 18 1 22 19 1 22 20 1 22 21 1
22 22 1 22 23 1 22 24 1 22 25 1 22 26 1 22 27 1
11 1 1 11 2 1 11 3 1 11 4 1 11 5 1 11 6 1
11 7 1 11 8 1 11 9 1 11 10 1 11 11 1 11 12 1
11 13 1 11 14 1 11 15 1 11 16 1 11 17 1 11 18 1
11 19 1 11 20 1 11 21 1 11 22 1 11 23 1 11 24 1
11 25 1 11 26 1 11 27 1
34 140 NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
22 12 1 22 13 1 22 14 1 22 15 1 22 16 1 22 17 1

22 18 1	22 19 1	22 20 1	22 21 1	22 22 1	22 23 1
22 24 1	22 25 1	22 26 1	22 27 1	23 6 1	23 7 1
23 8 1	23 9 1	23 10 1	23 11 1	23 12 1	23 13 1
23 14 1	23 15 1	23 16 1	23 17 1	23 18 1	23 19 1
23 20 1	23 21 1	23 22 1	23 23 1	23 24 1	23 25 1
23 26 1	23 27 1	11 1 1	11 2 1	11 3 1	11 4 1
11 5 1	11 6 1	11 7 1	11 8 1	11 9 1	11 10 1
11 11 1	11 12 1	11 13 1	11 14 1	11 15 1	11 16 1
11 17 1	11 18 1	11 19 1	11 20 1	11 21 1	11 22 1
11 23 1	11 24 1	11 25 1	11 26 1	11 27 1	12 1 1
12 2 1	12 3 1	12 4 1	12 5 1	12 6 1	12 7 1
12 8 1	12 9 1	12 10 1	12 11 1	12 12 1	12 13 1
12 14 1	12 15 1	12 16 1	12 17 1	12 18 1	12 19 1
12 20 1	12 21 1	12 22 1	12 23 1	12 24 1	12 25 1
12 26 1	12 27 1				

35	69	NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION			
8 11 1	9 11 1	10 11 1	11 11 1	12 11 1	13 11 1
14 11 1	8 8 1	9 8 1	10 8 1	11 8 1	12 8 1
13 8 1	14 8 1	16 11 1	17 11 1	18 11 1	16 8 1
17 8 1	18 8 1	22 6 1	22 7 1	22 8 1	22 9 1
22 10 1	22 11 1	22 12 1	22 13 1	22 14 1	22 15 1
22 16 1	22 17 1	22 18 1	22 19 1	22 20 1	22 21 1
22 22 1	22 23 1	22 24 1	22 25 1	22 26 1	22 27 1
11 1 1	11 2 1	11 3 1	11 4 1	11 5 1	11 6 1
11 7 1	11 8 1	11 9 1	11 10 1	11 11 1	11 12 1
11 13 1	11 14 1	11 15 1	11 16 1	11 17 1	11 18 1
11 19 1	11 20 1	11 21 1	11 22 1	11 23 1	11 24 1
11 25 1	11 26 1	11 27 1			

MONITOR PARAMETER VALUES AT GRIDBLOCK(S)

T

NUMBER OF MONITOR BLOCKS

3

MONITOR BLOCKS (I,J,K)

11	10	1
17	10	1
25	12	1

GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG

1	2	1	7
---	---	---	---

GRID DATA CARDS: GRID BLOCK DX'S

1.500000E+04	5.000000E+03	1.750000E+03	5.000000E+02	1.000000E+02	4.000000E+01
1.000000E+01	4.380000E+01	1.000000E+01	2.000000E+00	3.633530E-01	2.000000E+00
1.000000E+01	4.380000E+01	4.000000E+01	1.000000E+02	4.950000E+02	1.000000E+02
8.000000E+01	2.830000E+02	5.000000E+01	1.000000E+01	6.000000E+01	5.000000E+02
1.000000E+01	4.000000E+01	1.000000E+02	5.000000E+02	1.750000E+03	5.000000E+03
1.500000E+04					

GRID DATA CARDS: GRID BLOCK DY'S

2.728000E+00	4.737200E+01	1.391600E+02	5.000000E+01	1.100000E+01	8.500000E-01
1.380000E+00	1.320800E+00	1.320800E+00	1.320800E+00	2.617600E+00	2.700000E-01
9.060000E+00	1.800000E-01	6.098000E+01	1.585300E+02	1.585300E+02	5.080000E+00
3.600000E+01	7.700000E+00	2.480000E+01	8.500000E+00	1.730000E+01	1.060000E+02
4.330000E+01	1.566000E+01	1.000000E-01			

GRID DATA CARDS: GRID BLOCK DZ'S

6.131430E+04	2.131430E+04	7.814300E+03	3.314300E+03	2.114300E+03	1.834300E+03
1.734300E+03	1.262000E+02	2.880000E+01	4.800000E+00	3.633530E-01	4.800000E+00
2.880000E+01	1.262000E+02	1.000000E+01	1.323000E+02	1.435000E+02	1.416000E+02
1.890000E+01	1.890000E+01	1.890000E+01	9.500000E+00	2.050000E+01	5.310000E+01
1.258900E+03	1.458900E+03	2.018900E+03	3.928000E+03	8.226900E+03	2.172690E+04
6.172690E+04					

GRID BLOCK ELEVATIONS

1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02	1.293640E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02	1.544140E+02
-3.441824E+01	1.401058E+02	1.990077E+02	2.186417E+02	2.238774E+02	2.250991E+02
2.255354E+02	2.260048E+02	2.264743E+02	2.265790E+02	2.266000E+02	2.266209E+02
2.267256E+02	2.271951E+02	2.279264E+02	2.291480E+02	2.343401E+02	2.395322E+02
2.411029E+02	2.442706E+02	2.471764E+02	2.477000E+02	2.483108E+02	2.531975E+02
2.576478E+02	2.580841E+02	2.593058E+02	2.645415E+02	2.841755E+02	3.430774E+02

5.176014E+02					
6.014737E+01	2.346714E+02	2.935733E+02	3.132073E+02	3.184430E+02	3.196646E+02
3.201010E+02	3.205704E+02	3.210399E+02	3.211446E+02	3.211656E+02	3.211865E+02
3.212912E+02	3.217607E+02	3.224920E+02	3.237137E+02	3.289057E+02	3.340978E+02
3.356685E+02	3.388362E+02	3.417420E+02	3.422656E+02	3.428764E+02	3.477631E+02
3.522134E+02	3.526497E+02	3.538714E+02	3.591071E+02	3.787411E+02	4.376429E+02
6.121671E+02					
9.064270E+01	2.651668E+02	3.240687E+02	3.437026E+02	3.489384E+02	3.501600E+02
3.505963E+02	3.510658E+02	3.515353E+02	3.516400E+02	3.516609E+02	3.516819E+02
3.517866E+02	3.522561E+02	3.529873E+02	3.542090E+02	3.594011E+02	3.645932E+02
3.661639E+02	3.693315E+02	3.722373E+02	3.727609E+02	3.733717E+02	3.782584E+02
3.827088E+02	3.831451E+02	3.843668E+02	3.896025E+02	4.092365E+02	4.681383E+02
6.426624E+02					
9.656680E+01	2.710909E+02	3.299928E+02	3.496267E+02	3.548625E+02	3.560841E+02
3.565204E+02	3.569899E+02	3.574594E+02	3.575641E+02	3.575851E+02	3.576060E+02
3.577107E+02	3.581802E+02	3.589114E+02	3.601331E+02	3.653252E+02	3.705173E+02
3.720880E+02	3.752556E+02	3.781614E+02	3.786850E+02	3.792958E+02	3.841825E+02
3.886329E+02	3.890692E+02	3.902909E+02	3.955266E+02	4.151606E+02	4.740624E+02
6.485865E+02					
9.768167E+01	2.722057E+02	3.311076E+02	3.507415E+02	3.559773E+02	3.571989E+02
3.576353E+02	3.581047E+02	3.585742E+02	3.586789E+02	3.586999E+02	3.587208E+02
3.588255E+02	3.592950E+02	3.600263E+02	3.612480E+02	3.664400E+02	3.716321E+02
3.732029E+02	3.763705E+02	3.792763E+02	3.797998E+02	3.804107E+02	3.852974E+02
3.897477E+02	3.901840E+02	3.914057E+02	3.966414E+02	4.162754E+02	4.751772E+02
6.497014E+02					
9.903186E+01	2.735559E+02	3.324578E+02	3.520918E+02	3.573275E+02	3.585491E+02
3.589854E+02	3.594549E+02	3.599244E+02	3.600291E+02	3.600501E+02	3.600710E+02
3.601757E+02	3.606452E+02	3.613765E+02	3.625981E+02	3.677902E+02	3.729823E+02
3.745530E+02	3.777206E+02	3.806265E+02	3.811501E+02	3.817609E+02	3.866476E+02
3.910979E+02	3.915342E+02	3.927559E+02	3.979916E+02	4.176256E+02	4.765274E+02
6.510515E+02					
1.003524E+02	2.748765E+02	3.337784E+02	3.534124E+02	3.586481E+02	3.598698E+02
3.603061E+02	3.607755E+02	3.612450E+02	3.613497E+02	3.613707E+02	3.613916E+02
3.614963E+02	3.619658E+02	3.626971E+02	3.639187E+02	3.691108E+02	3.743029E+02
3.758736E+02	3.790413E+02	3.819471E+02	3.824706E+02	3.830815E+02	3.879681E+02
3.924185E+02	3.928548E+02	3.940765E+02	3.993122E+02	4.189462E+02	4.778481E+02
6.523721E+02					
1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	3.611903E+02
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	3.627122E+02
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02

5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.194830E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02					
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.357305E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02					
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.523779E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02					
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02					
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.269166E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02					
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001555E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03					
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031031E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03					
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.038910E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03					

WELL DATA

0

DIRICHLET CONDITIONS

T

35					
1	20	1	T	F	8.520000E+05 0.000000E+00
31	20	1	T	F	8.520000E+05 0.000000E+00
1	22	1	T	F	9.000000E+05 0.000000E+00

1.315873E+07	1.315348E+07	1.314782E+07	1.314217E+07	1.314091E+07
1.314066E+07	1.314040E+07	1.313914E+07	1.313349E+07	1.312468E+07
1.310997E+07	1.304745E+07	1.298493E+07	1.296602E+07	1.292787E+07
1.289288E+07	1.013250E+05	1.287922E+07	1.282038E+07	1.276679E+07
1.276153E+07	1.274682E+07	1.268378E+07	1.244735E+07	1.173807E+07
9.636503E+06				
1.626750E+07	1.416594E+07	1.345666E+07	1.322023E+07	1.315718E+07
1.314247E+07	1.313722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.274528E+07	1.273056E+07	1.266752E+07	1.243109E+07	1.172181E+07
9.620245E+06				
1.625160E+07	1.415003E+07	1.344075E+07	1.320433E+07	1.314128E+07
1.312657E+07	1.312132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.272937E+07	1.271466E+07	1.265161E+07	1.241519E+07	1.170591E+07
9.604342E+06				
1.623570E+07	1.413413E+07	1.342485E+07	1.318843E+07	1.312538E+07
1.311067E+07	1.310541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.271347E+07	1.269876E+07	1.263571E+07	1.239929E+07	1.169001E+07
9.588441E+06				
1.621199E+07	1.411042E+07	1.340114E+07	1.316472E+07	1.310167E+07
1.308696E+07	1.308170E+07	1.307605E+07	1.307040E+07	1.306914E+07
1.306888E+07	1.306863E+07	1.306737E+07	1.306172E+07	1.305291E+07
1.303820E+07	1.297568E+07	1.291316E+07	1.289424E+07	1.285610E+07
1.282111E+07	1.013250E+05	1.280745E+07	1.274860E+07	1.269502E+07
1.268976E+07	1.267505E+07	1.261200E+07	1.237558E+07	1.166630E+07
9.564732E+06				
1.619460E+07	1.409304E+07	1.338376E+07	1.314733E+07	1.308429E+07
1.306957E+07	1.306432E+07	1.305867E+07	1.305301E+07	1.305175E+07
1.305150E+07	1.305125E+07	1.304999E+07	1.304433E+07	1.303553E+07
1.302082E+07	1.295830E+07	1.289577E+07	1.287686E+07	1.283872E+07
1.280373E+07	1.013250E+05	1.279007E+07	1.273122E+07	1.267763E+07
1.267238E+07	1.265767E+07	1.259462E+07	1.235819E+07	1.164891E+07
9.547348E+06				
1.613844E+07	1.403687E+07	1.332759E+07	1.309117E+07	1.302812E+07
1.301341E+07	1.300815E+07	1.300250E+07	1.299685E+07	1.299559E+07
1.299533E+07	1.299508E+07	1.299382E+07	1.298817E+07	1.297936E+07
1.296465E+07	1.290213E+07	1.283961E+07	1.282069E+07	1.278255E+07
1.274756E+07	1.013250E+05	1.273390E+07	1.267506E+07	1.262147E+07
1.261621E+07	1.260150E+07	1.253845E+07	1.230203E+07	1.159275E+07
9.491182E+06				
1.608281E+07	1.398125E+07	1.327197E+07	1.303554E+07	1.297250E+07
1.295778E+07	1.295253E+07	1.294688E+07	1.294122E+07	1.293996E+07
1.293971E+07	1.293946E+07	1.293820E+07	1.293254E+07	1.292374E+07
1.290903E+07	1.284651E+07	1.278398E+07	1.276507E+07	1.272693E+07
1.269194E+07	1.013250E+05	1.267828E+07	1.261943E+07	1.256584E+07
1.256059E+07	1.254588E+07	1.248283E+07	1.224640E+07	1.153712E+07
9.435558E+06				
1.571463E+07	1.361307E+07	1.290379E+07	1.266736E+07	1.260432E+07
1.258961E+07	1.258435E+07	1.257870E+07	1.257304E+07	1.257178E+07
1.257153E+07	1.257128E+07	1.257002E+07	1.256437E+07	1.255556E+07
1.254085E+07	1.247833E+07	1.241580E+07	1.239689E+07	1.235875E+07
1.232376E+07	1.013250E+05	1.231010E+07	1.225125E+07	1.219766E+07
1.219241E+07	1.217770E+07	1.211465E+07	1.187822E+07	1.116895E+07
9.067379E+06				
1.439320E+07	1.229163E+07	1.158235E+07	1.134593E+07	1.128288E+07
1.126817E+07	1.126292E+07	1.125726E+07	1.125161E+07	1.125035E+07
1.125010E+07	1.124984E+07	1.124858E+07	1.124293E+07	1.123412E+07
1.121941E+07	1.115689E+07	1.109437E+07	1.107546E+07	1.103731E+07
1.100232E+07	1.013250E+05	1.098866E+07	1.092982E+07	1.087623E+07
1.087097E+07	1.085626E+07	1.079322E+07	1.055679E+07	9.847510E+06
7.745944E+06				
1.248452E+07	1.038295E+07	9.673674E+06	9.437247E+06	9.374200E+06
9.359490E+06	9.354235E+06	9.348582E+06	9.342928E+06	9.341667E+06
9.341415E+06	9.341163E+06	9.339902E+06	9.334249E+06	9.325443E+06
9.310732E+06	9.248211E+06	9.185689E+06	9.166775E+06	9.128632E+06
9.093641E+06	1.013250E+05	9.079980E+06	9.021136E+06	8.967546E+06
8.962292E+06	8.947582E+06	8.884535E+06	8.648108E+06	7.938830E+06
5.837264E+06				

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START TIME FOR MAP 4
3.1557E+10
MATERIAL TYPE GRID MAP
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NAME
1 S_HALITE
2 DRZ_0
3 TRANS_0
4 S_MB139
5 S_ANH_AB
6 S_MB138
7 CAVITY_1
8 CAVITY_2
9 CAVITY_3
10 CAVITY_4
11 IMPERM_Z
12 CASTLER
13 WAS_AREA
14 REPOSIT
15 DRZ_1
16 UNNAMED
17 CULEBRA
18 TAMARISK
19 MAGENTA
20 FORTYNIN
21 DEWYLAKE
22 SANTAROS
23 BACKFILL
24 EXP_AREA
25 SHFT_B_1
26 SHFT_B_2
27 SHFT_L_1
28 SHFT_L_2
29 SHFT_U_1
30 SHFT_U_2
31 SHFT_LS1
32 SHFT_LS2
33 SHFT_US1
34 SHFT_US2
35 PAN_S_1
36 PAN_S_2
37 BOREHOLE
38 TRANS_1
39 CAVITY_5
NWST
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MAT_WASTE1 MAT_WASTE
7 8
13 14
NDRZ
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NMATRESET
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MATRESET
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BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000E+00 1
POWASTEIC
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05

1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
 0.000000E+00
 0.250000E+00
 0.200000E+00
 PRESDRZ

NBORERESET
 0

#	LAMBDA	SOR	SGR						
1	7.541000E+00	7.480000E-02	1.474000E-01						
2	7.541000E+00	0.000000E+00	0.000000E+00						
3	7.541000E+00	0.000000E+00	0.000000E+00						
4	4.776000E+00	3.328000E-01	1.688000E-01						
5	4.776000E+00	3.328000E-01	1.688000E-01						
6	4.776000E+00	3.328000E-01	1.688000E-01						
7	7.000000E-01	0.000000E+00	0.000000E+00						
8	7.000000E-01	0.000000E+00	0.000000E+00						
9	7.000000E-01	0.000000E+00	0.000000E+00						
10	7.000000E-01	0.000000E+00	0.000000E+00						
11	1.000000E+00	0.000000E+00	0.000000E+00						
12	7.000000E-01	2.000000E-01	2.000000E-01						
13	5.266000E-01	2.622000E-01	2.116000E-03						
14	5.266000E-01	2.622000E-01	2.116000E-03						
15	7.541000E+00	0.000000E+00	0.000000E+00						
16	7.000000E-01	2.000000E-01	2.000000E-01						
17	7.000000E-01	2.000000E-01	2.000000E-01						
18	7.000000E-01	2.000000E-01	2.000000E-01						
19	7.000000E-01	2.000000E-01	2.000000E-01						
20	7.000000E-01	2.000000E-01	2.000000E-01						
21	7.000000E-01	2.000000E-01	2.000000E-01						
22	7.000000E-01	2.000000E-01	2.000000E-01						
23	7.000000E-01	0.000000E+00	0.000000E+00						
24	7.000000E-01	0.000000E+00	0.000000E+00						
25	7.000000E-01	2.000000E-01	2.000000E-01						
26	7.000000E-01	2.000000E-01	2.000000E-01						
27	7.000000E-01	2.000000E-01	2.000000E-01						
28	7.000000E-01	2.000000E-01	2.000000E-01						
29	7.000000E-01	2.000000E-01	2.000000E-01						
30	7.000000E-01	2.000000E-01	2.000000E-01						
31	7.000000E-01	2.000000E-01	2.000000E-01						
32	7.000000E-01	2.000000E-01	2.000000E-01						
33	7.000000E-01	2.000000E-01	2.000000E-01						
34	7.000000E-01	2.000000E-01	2.000000E-01						
35	7.000000E-01	2.000000E-01	2.000000E-01						
36	7.000000E-01	2.000000E-01	2.000000E-01						
37	7.000000E-01	2.000000E-01	0.000000E+00						
38	7.541000E+00	0.000000E+00	0.000000E+00						
39	7.000000E-01	0.000000E+00	0.000000E+00						
#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP	
1	7.854000E-02	1.013250E+05	1.000000E+08	2.810000E+06	0.000000E+00	4	2	0	
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
4	3.494400E-01	1.013250E+05	1.000000E+08	3.104560E-01	-3.460000E-01	4	2	0	
5	3.494400E-01	1.013250E+05	1.000000E+08	3.104560E-01	-3.460000E-01	4	2	0	
6	3.494400E-01	1.013250E+05	1.000000E+08	3.104560E-01	-3.460000E-01	4	2	0	
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
13	2.753100E-01	1.013250E+05	1.000000E+08	2.806002E-01	-3.460000E-01	4	4	0	
14	2.753100E-01	1.013250E+05	1.000000E+08	2.806002E-01	-3.460000E-01	4	4	0	
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	

25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	1.970462E+05	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	1.970462E+05	0.000000E+00	4	2	0
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0

#	PERMX	PERMY	PERMZ	POROSITY	COMPRES
1	5.011881E-21	5.011881E-21	5.011881E-21	7.702000E-03	1.558830E-08
2	1.000000E-15	1.000000E-15	1.000000E-15	7.702000E-03	1.075723E-07
3	1.000000E-15	1.000000E-15	1.000000E-15	7.702000E-03	1.075723E-07
4	1.949849E-20	1.949849E-20	1.949849E-20	1.372000E-03	1.498906E-08
5	1.949849E-20	1.949849E-20	1.949849E-20	1.372000E-03	1.498906E-08
6	1.949849E-20	1.949849E-20	1.949849E-20	1.372000E-03	1.498906E-08
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
9	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
10	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
11	0.000000E+00	0.000000E+00	0.000000E+00	5.000000E-03	0.000000E+00
12	1.330453E-11	1.330453E-11	1.330453E-11	5.200000E-03	1.923077E-07
13	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
14	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
15	1.000000E-15	1.000000E-15	1.000000E-15	7.702000E-03	1.075723E-07
16	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
17	2.648502E-13	2.648502E-13	2.648502E-13	1.460000E-01	1.417160E-09
18	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
19	1.096478E-16	1.096478E-16	1.096478E-16	9.000000E-02	2.199962E-09
20	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
21	9.332549E-16	9.332549E-16	9.332549E-16	1.500000E-01	6.666667E-08
22	1.000000E-10	1.000000E-10	1.000000E-10	1.750000E-01	5.714286E-08
23	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00
24	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00
25	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
26	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
27	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
28	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
29	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09
30	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09
31	1.000000E-12	1.000000E-12	1.000000E-12	5.000000E-02	2.000000E-08
32	9.332528E-17	9.332528E-17	9.332528E-17	5.000000E-02	2.000000E-08
33	9.332528E-17	9.332528E-17	9.332528E-17	5.000000E-02	2.000000E-08
34	1.000000E-12	1.000000E-12	1.000000E-12	5.000000E-02	2.000000E-08
35	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
36	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
37	4.073800E-14	4.073800E-14	4.073800E-14	3.700000E-01	0.000000E+00
38	1.000000E-15	1.000000E-15	1.000000E-15	7.702000E-03	1.075723E-07
39	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00

TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI DELTA_PF FRAC_PHI FRAC_EXP IFRX IFRY IFRZ
 4 1.530000E+06 2.500000E+06 1.137200E-02 1.178836E+01 1 1 0
 5 1.530000E+06 2.500000E+06 1.137200E-02 1.178836E+01 1 1 0
 6 1.530000E+06 2.500000E+06 1.137200E-02 1.178836E+01 1 1 0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK EXPKLINK
 9.800000E-01 -3.300000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
 3.00150E+02 1.01320E+05
 SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O

2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.80000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
1.2897E-06 0.0000E+00 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
4.9079E-04 0.0000E+00
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RKH2S AND RXCO2
9.8660E-01 0.0000E+00
9.8660E-01 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeCH2,S_FeS,S_MgO,S_MgCH2,S_MgCO3
1.2638E+00 -1.4724E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
MAT NO. MODEL 1= WASTE-FILLED, 2=BACKFILED

```
1 13 4
2 14 4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST7_V019.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
2 31 27 1
TSTART, TMAX, MAXSTEPS
-1.5779E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
8.6400E+00 8.6400E-04 1.7280E+09 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
3
0.0000E+00 8.6400E+02
3.1666E+09 8.6400E+02
3.1666E+10 8.6400E+02
IPRYPEASC IPRYPEBIN IPRYPEST UNITSI UNITSO
2 0 2 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
2
USER REQUESTED PRINTOUT TIMES
0.0000E+00 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
1
USER REQUESTED RESTART TIMES
3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
BINARY PRINT FLAGS
1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 1 0 0 0 0 0 0
0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
HISTORY VARIABLE OUTPUT
8
1 4 NAME=BRINE PRESSURE
11 8 1 17 8 1 11 1 1 22 6 1
2 1 NAME=GAS PRESSURE
22 12 1
10 6 NAME=GAS DENSITY
7 6 1 7 12 1 7 14 1 25 6 1 25 12 1 25 14 1
18 30 NAME=GAS SATURATION
8 8 1 9 8 1 10 8 1 11 8 1 12 8 1 13 8 1
14 8 1 8 9 1 9 9 1 10 9 1 11 9 1 12 9 1
13 9 1 14 9 1 8 10 1 9 10 1 10 10 1 11 10 1
12 10 1 13 10 1 14 10 1 16 8 1 17 8 1 18 8 1
16 9 1 17 9 1 18 9 1 16 10 1 17 10 1 18 10 1
31 140 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
16 8 1 16 9 1 16 10 1 19 8 1 19 9 1 19 10 1
8 8 1 8 9 1 8 10 1 15 8 1 15 9 1 15 10 1
22 6 1 22 7 1 22 8 1 22 9 1 22 10 1 22 11 1
```


22 12 1	22 13 1	22 14 1	22 15 1	22 16 1	22 17 1
22 18 1	22 19 1	22 20 1	22 21 1	22 22 1	22 23 1
22 24 1	22 25 1	22 26 1	22 27 1	23 6 1	23 7 1
23 8 1	23 9 1	23 10 1	23 11 1	23 12 1	23 13 1
23 14 1	23 15 1	23 16 1	23 17 1	23 18 1	23 19 1
23 20 1	23 21 1	23 22 1	23 23 1	23 24 1	23 25 1
23 26 1	23 27 1	11 1 1	11 2 1	11 3 1	11 4 1
11 5 1	11 6 1	11 7 1	11 8 1	11 9 1	11 10 1
11 11 1	11 12 1	11 13 1	11 14 1	11 15 1	11 16 1
11 17 1	11 18 1	11 19 1	11 20 1	11 21 1	11 22 1
11 23 1	11 24 1	11 25 1	11 26 1	11 27 1	12 1 1
12 2 1	12 3 1	12 4 1	12 5 1	12 6 1	12 7 1
12 8 1	12 9 1	12 10 1	12 11 1	12 12 1	12 13 1
12 14 1	12 15 1	12 16 1	12 17 1	12 18 1	12 19 1
12 20 1	12 21 1	12 22 1	12 23 1	12 24 1	12 25 1
12 26 1	12 27 1				

32 69	NAME=TIME-AVERAGE	INTERBLOCK	BRINE FLOW,	Y-DIRECTION
8 11 1	9 11 1	10 11 1	11 11 1	12 11 1
14 11 1	8 8 1	9 8 1	10 8 1	11 8 1
13 8 1	14 8 1	16 11 1	17 11 1	18 11 1
17 8 1	18 8 1	22 6 1	22 7 1	22 8 1
22 10 1	22 11 1	22 12 1	22 13 1	22 14 1
22 16 1	22 17 1	22 18 1	22 19 1	22 20 1
22 22 1	22 23 1	22 24 1	22 25 1	22 26 1
11 1 1	11 2 1	11 3 1	11 4 1	11 5 1
11 7 1	11 8 1	11 9 1	11 10 1	11 11 1
11 13 1	11 14 1	11 15 1	11 16 1	11 17 1
11 19 1	11 20 1	11 21 1	11 22 1	11 23 1
11 25 1	11 26 1	11 27 1		

34 140	NAME=TIME-AVERAGE	INTERBLOCK	GAS FLOW,	X-DIRECTION
3 6 1	3 12 1	3 14 1	3 19 1	3 20 1
3 22 1	3 23 1	3 24 1	3 25 1	3 26 1
30 6 1	30 12 1	30 14 1	30 19 1	30 20 1
30 22 1	30 23 1	30 24 1	30 25 1	30 26 1
8 6 1	8 12 1	8 14 1	25 6 1	25 12 1
16 8 1	16 9 1	16 10 1	19 8 1	19 9 1
8 8 1	8 9 1	8 10 1	15 8 1	15 9 1
22 6 1	22 7 1	22 8 1	22 9 1	22 10 1
22 12 1	22 13 1	22 14 1	22 15 1	22 16 1
22 18 1	22 19 1	22 20 1	22 21 1	22 22 1
22 24 1	22 25 1	22 26 1	22 27 1	23 6 1
23 8 1	23 9 1	23 10 1	23 11 1	23 12 1
23 14 1	23 15 1	23 16 1	23 17 1	23 18 1
23 20 1	23 21 1	23 22 1	23 23 1	23 24 1
23 26 1	23 27 1	11 1 1	11 2 1	11 3 1
11 5 1	11 6 1	11 7 1	11 8 1	11 9 1
11 11 1	11 12 1	11 13 1	11 14 1	11 15 1
11 17 1	11 18 1	11 19 1	11 20 1	11 21 1
11 23 1	11 24 1	11 25 1	11 26 1	11 27 1
12 2 1	12 3 1	12 4 1	12 5 1	12 6 1
12 8 1	12 9 1	12 10 1	12 11 1	12 12 1
12 14 1	12 15 1	12 16 1	12 17 1	12 18 1
12 20 1	12 21 1	12 22 1	12 23 1	12 24 1
12 26 1	12 27 1			

35 69	NAME=TIME-AVERAGE	INTERBLOCK	GAS FLOW,	Y-DIRECTION
8 11 1	9 11 1	10 11 1	11 11 1	12 11 1
14 11 1	8 8 1	9 8 1	10 8 1	11 8 1
13 8 1	14 8 1	16 11 1	17 11 1	18 11 1
17 8 1	18 8 1	22 6 1	22 7 1	22 8 1
22 10 1	22 11 1	22 12 1	22 13 1	22 14 1
22 16 1	22 17 1	22 18 1	22 19 1	22 20 1
22 22 1	22 23 1	22 24 1	22 25 1	22 26 1
11 1 1	11 2 1	11 3 1	11 4 1	11 5 1
11 7 1	11 8 1	11 9 1	11 10 1	11 11 1
11 13 1	11 14 1	11 15 1	11 16 1	11 17 1
11 19 1	11 20 1	11 21 1	11 22 1	11 23 1
11 25 1	11 26 1	11 27 1		

MONITOR PARAMETER VALUES AT GRIDBLOCK(S)

T

NUMBER OF MONITOR BLOCKS

3

MONITOR BLOCKS (I,J,K)

11	10	1
17	10	1
25	12	1

GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG

1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	3.611903E+02
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	3.627122E+02
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.194830E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.523779E+02	8.524501E+02	8.524501E+02

8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02					
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.652760E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.269166E+02	9.270001E+02	9.270001E+02
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02
9.270001E+02					
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001555E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03					
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031031E+03	1.031130E+03	1.031130E+03
1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.031130E+03					
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.038910E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03					

WELL DATA

0

DIRICHLET CONDITIONS

T 35

1	20	1	T	F	8.520000E+05	0.000000E+00
31	20	1	T	F	8.520000E+05	0.000000E+00
1	22	1	T	F	9.000000E+05	0.000000E+00
31	22	1	T	F	9.000000E+05	0.000000E+00
1	27	1	T	T	1.013250E+05	2.000000E-01
2	27	1	T	T	1.013250E+05	2.000000E-01
3	27	1	T	T	1.013250E+05	2.000000E-01
4	27	1	T	T	1.013250E+05	2.000000E-01
5	27	1	T	T	1.013250E+05	2.000000E-01
6	27	1	T	T	1.013250E+05	2.000000E-01
7	27	1	T	T	1.013250E+05	2.000000E-01
8	27	1	T	T	1.013250E+05	2.000000E-01
9	27	1	T	T	1.013250E+05	2.000000E-01
10	27	1	T	T	1.013250E+05	2.000000E-01
11	27	1	T	T	1.013250E+05	2.000000E-01
12	27	1	T	T	1.013250E+05	2.000000E-01
13	27	1	T	T	1.013250E+05	2.000000E-01
14	27	1	T	T	1.013250E+05	2.000000E-01
15	27	1	T	T	1.013250E+05	2.000000E-01
16	27	1	T	T	1.013250E+05	2.000000E-01
17	27	1	T	T	1.013250E+05	2.000000E-01
18	27	1	T	T	1.013250E+05	2.000000E-01
19	27	1	T	T	1.013250E+05	2.000000E-01
20	27	1	T	T	1.013250E+05	2.000000E-01
21	27	1	T	T	1.013250E+05	2.000000E-01
22	27	1	T	T	1.013250E+05	2.000000E-01
23	27	1	T	T	1.013250E+05	2.000000E-01
24	27	1	T	T	1.013250E+05	2.000000E-01
25	27	1	T	T	1.013250E+05	2.000000E-01
26	27	1	T	T	1.013250E+05	2.000000E-01
27	27	1	T	T	1.013250E+05	2.000000E-01
28	27	1	T	T	1.013250E+05	2.000000E-01
29	27	1	T	T	1.013250E+05	2.000000E-01
30	27	1	T	T	1.013250E+05	2.000000E-01
31	27	1	T	T	1.013250E+05	2.000000E-01

GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS

1.525225E+07	1.525225E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07

1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.525225E+07
1.525225E+07				
1.495060E+07	1.495060E+07	1.495060E+07	1.495060E+07	1.495060E+07
1.495060E+07	1.495060E+07	1.495060E+07	1.495060E+07	1.495060E+07
1.495060E+07	1.495060E+07	1.495060E+07	1.495060E+07	1.495060E+07
1.495060E+07	1.495060E+07	1.495060E+07	1.495060E+07	1.495060E+07
1.495060E+07	1.495060E+07	1.495060E+07	1.495060E+07	1.495060E+07
1.495060E+07	1.495060E+07	1.495060E+07	1.495060E+07	1.495060E+07
1.495060E+07	1.495060E+07	1.495060E+07	1.495060E+07	1.495060E+07
1.722447E+07	1.512290E+07	1.441362E+07	1.417719E+07	1.411415E+07
1.409944E+07	1.409418E+07	1.408853E+07	1.408288E+07	1.408161E+07
1.408136E+07	1.408111E+07	1.407985E+07	1.407420E+07	1.406539E+07
1.405068E+07	1.398816E+07	1.392564E+07	1.390672E+07	1.386858E+07
1.383359E+07	1.382728E+07	1.381993E+07	1.376108E+07	1.370749E+07
1.370224E+07	1.368753E+07	1.362448E+07	1.338806E+07	1.267878E+07
1.057721E+07				
1.608574E+07	1.398417E+07	1.327489E+07	1.303846E+07	1.297542E+07
1.296071E+07	1.295545E+07	1.294980E+07	1.294415E+07	1.294289E+07
1.294263E+07	1.294238E+07	1.294112E+07	1.293547E+07	1.292666E+07
1.291195E+07	1.284943E+07	1.278691E+07	1.276799E+07	1.272985E+07
1.269486E+07	1.268855E+07	1.268120E+07	1.262235E+07	1.256876E+07
1.256351E+07	1.254880E+07	1.248575E+07	1.224933E+07	1.154005E+07
9.438480E+06				
1.571852E+07	1.361695E+07	1.290768E+07	1.267125E+07	1.260820E+07
1.259349E+07	1.258824E+07	1.258258E+07	1.257693E+07	1.257567E+07
1.257542E+07	1.257516E+07	1.257390E+07	1.256825E+07	1.255945E+07
1.254473E+07	1.248221E+07	1.241969E+07	1.240078E+07	1.236263E+07
1.232764E+07	1.232134E+07	1.231398E+07	1.225514E+07	1.220155E+07
1.219629E+07	1.218158E+07	1.211854E+07	1.188211E+07	1.117283E+07
9.071264E+06				
1.564718E+07	1.354562E+07	1.283634E+07	1.259991E+07	1.253687E+07
1.252215E+07	1.251690E+07	1.251125E+07	1.250559E+07	1.250433E+07
1.250408E+07	1.250383E+07	1.250257E+07	1.249691E+07	1.248811E+07
1.247340E+07	1.241088E+07	1.234835E+07	1.232944E+07	1.229130E+07
1.225631E+07	1.013250E+05	1.224265E+07	1.218380E+07	1.213021E+07
1.212496E+07	1.211025E+07	1.204720E+07	1.181077E+07	1.110150E+07
8.999928E+06				
1.563376E+07	1.353219E+07	1.282291E+07	1.258649E+07	1.252344E+07
1.250873E+07	1.250348E+07	1.249782E+07	1.249217E+07	1.249091E+07
1.249066E+07	1.249040E+07	1.248914E+07	1.248349E+07	1.247468E+07
1.245997E+07	1.239745E+07	1.233493E+07	1.231602E+07	1.227787E+07
1.224288E+07	1.013250E+05	1.222922E+07	1.217038E+07	1.211679E+07
1.211153E+07	1.209682E+07	1.203378E+07	1.179735E+07	1.108807E+07
8.986503E+06				
1.561750E+07	1.351594E+07	1.280666E+07	1.257023E+07	1.250718E+07
1.249247E+07	1.248722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.209528E+07	1.208056E+07	1.201752E+07	1.178109E+07	1.107181E+07
8.970245E+06				
1.560160E+07	1.350003E+07	1.279075E+07	1.255433E+07	1.249128E+07
1.247657E+07	1.247132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.207937E+07	1.206466E+07	1.200161E+07	1.176519E+07	1.105591E+07
8.954342E+06				
1.558570E+07	1.348413E+07	1.277485E+07	1.253843E+07	1.247538E+07
1.246067E+07	1.245541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.206347E+07	1.204876E+07	1.198571E+07	1.174929E+07	1.104001E+07
8.938441E+06				
1.556199E+07	1.346042E+07	1.275114E+07	1.251472E+07	1.245167E+07
1.243696E+07	1.243170E+07	1.242605E+07	1.242040E+07	1.241914E+07
1.241888E+07	1.241863E+07	1.241737E+07	1.241172E+07	1.240291E+07
1.238820E+07	1.232568E+07	1.226316E+07	1.224424E+07	1.220610E+07
1.217111E+07	1.013250E+05	1.215745E+07	1.209860E+07	1.204502E+07
1.203976E+07	1.202505E+07	1.196200E+07	1.172558E+07	1.101630E+07
8.914732E+06				
1.554460E+07	1.344304E+07	1.273376E+07	1.249733E+07	1.243429E+07
1.241957E+07	1.241432E+07	1.240867E+07	1.240301E+07	1.240175E+07
1.240150E+07	1.240125E+07	1.239999E+07	1.239433E+07	1.238553E+07

1.237082E+07	1.230830E+07	1.224577E+07	1.222686E+07	1.218872E+07
1.215373E+07	1.013250E+05	1.214007E+07	1.208122E+07	1.202763E+07
1.202238E+07	1.200767E+07	1.194462E+07	1.170819E+07	1.099892E+07
8.897348E+06				
1.548844E+07	1.338687E+07	1.267759E+07	1.244117E+07	1.237812E+07
1.236341E+07	1.235815E+07	1.235250E+07	1.234685E+07	1.234559E+07
1.234533E+07	1.234508E+07	1.234382E+07	1.233817E+07	1.232936E+07
1.231465E+07	1.225213E+07	1.218961E+07	1.217069E+07	1.213255E+07
1.209756E+07	1.013250E+05	1.208390E+07	1.202506E+07	1.197147E+07
1.196621E+07	1.195150E+07	1.188845E+07	1.165203E+07	1.094275E+07
8.841182E+06				
1.543281E+07	1.333125E+07	1.262197E+07	1.238554E+07	1.232250E+07
1.230778E+07	1.230253E+07	1.229688E+07	1.229122E+07	1.228996E+07
1.228971E+07	1.228946E+07	1.228820E+07	1.228254E+07	1.227374E+07
1.225903E+07	1.219651E+07	1.213398E+07	1.211507E+07	1.207693E+07
1.204194E+07	1.013250E+05	1.202828E+07	1.196943E+07	1.191584E+07
1.191059E+07	1.189588E+07	1.183283E+07	1.159640E+07	1.088713E+07
8.785558E+06				
1.506463E+07	1.296307E+07	1.225379E+07	1.201736E+07	1.195432E+07
1.193961E+07	1.193435E+07	1.192870E+07	1.192304E+07	1.192178E+07
1.192153E+07	1.192128E+07	1.192002E+07	1.191437E+07	1.190556E+07
1.189085E+07	1.182833E+07	1.176580E+07	1.174689E+07	1.170875E+07
1.167376E+07	1.013250E+05	1.166010E+07	1.160125E+07	1.154766E+07
1.154241E+07	1.152770E+07	1.146465E+07	1.122822E+07	1.051895E+07
8.417379E+06				
1.374320E+07	1.164163E+07	1.093235E+07	1.069593E+07	1.063288E+07
1.061817E+07	1.061292E+07	1.060726E+07	1.060161E+07	1.060035E+07
1.060010E+07	1.059984E+07	1.059858E+07	1.059293E+07	1.058412E+07
1.056941E+07	1.050689E+07	1.044437E+07	1.042546E+07	1.038731E+07
1.035232E+07	1.013250E+05	1.033866E+07	1.027982E+07	1.022623E+07
1.022097E+07	1.020626E+07	1.014322E+07	9.906788E+06	9.197510E+06
7.095944E+06				
1.183452E+07	9.732952E+06	9.023673E+06	8.787247E+06	8.724200E+06
8.709489E+06	8.704235E+06	8.698582E+06	8.692928E+06	8.691667E+06
8.691415E+06	8.691163E+06	8.689902E+06	8.684249E+06	8.675443E+06
8.660732E+06	8.598211E+06	8.535689E+06	8.516775E+06	8.478632E+06
8.443641E+06	1.013250E+05	8.429980E+06	8.371136E+06	8.317547E+06
8.312292E+06	8.297582E+06	8.234535E+06	7.998108E+06	7.288830E+06
5.187264E+06				
1.084960E+07	8.748031E+06	8.038752E+06	7.802325E+06	7.739278E+06
7.724567E+06	7.719314E+06	7.713661E+06	7.708007E+06	7.706746E+06
7.706493E+06	7.706241E+06	7.704981E+06	7.699328E+06	7.690522E+06
7.675811E+06	7.613289E+06	7.550768E+06	7.531853E+06	7.493710E+06
7.458719E+06	1.013250E+05	7.445059E+06	7.386215E+06	7.332625E+06
7.327371E+06	7.312660E+06	7.249613E+06	7.013187E+06	6.303909E+06
4.202342E+06				
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
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2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	1.013250E+05	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06				
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	1.013250E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05				
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.013250E+05	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06				
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	1.013250E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05				
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06


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6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 10 6 6 6 6
6 6 6 6 6
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11 11 11 11 11
START TIME FOR MAP 2
0.0000E+00
MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1
4 4 4 4 4 4 4 4 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15 4 4
4 4 4 4 4
1 1 1 1 1 1 1 1 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15 1 1
1 1 1 1 1
1 1 1 1 1 1 1 1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24 1 1
1 1 1 1 1
1 1 1 1 1 1 1 1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24 1 1
1 1 1 1 1
1 1 1 1 1 1 1 1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24 1 1
1 1 1 1 1
1 1 1 1 1 1 1 1 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15 1 1
1 1 1 1 1
5 5 5 5 5 5 5 5 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15 5 5
5 5 5 5 5
1 1 1 1 1 1 1 1 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38 1 1
1 1 1 1 1
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 25 6 6 6 6
6 6 6 6 6
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 31 1 1 1 1
1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 27 1 1 1 1
1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 27 1 1 1 1
1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 33 1 1 1 1
1 1 1 1 1
16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 33 16 16 16 16
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21 DEWYLAKE
22 SANTAROS
23 BACKFILL
24 EXP_AREA
25 SHFT_B_1
26 SHFT_B_2
27 SHFT_L_1
28 SHFT_L_2
29 SHFT_U_1
30 SHFT_U_2
31 SHFT_LS1
32 SHFT_LS2
33 SHFT_US1
34 SHFT_US2
35 PAN_S_1
36 PAN_S_2
37 BOREHOLE
38 TRANS_1
39 CAVITY_5
NWST
2
MAT_WASTE1 MAT_WASTE
7 8
13 14
NDRZ
0
NMATRESET
5
MATRESET
7 8 9 10 39
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000E+00 1
POWASTEIC
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
SOWASTEIC
0.000000E+00
0.000000E+00
0.000000E+00
0.250000E+00
0.200000E+00
PRESDRZ

NBORERESET
0
# LAMBDA SOR SGR
1 4.796000E-01 1.975000E-01 3.142000E-01
2 4.796000E-01 0.000000E+00 0.000000E+00
3 4.796000E-01 0.000000E+00 0.000000E+00
4 4.775000E-01 3.726000E-01 1.612000E-01
5 4.775000E-01 3.726000E-01 1.612000E-01
6 4.775000E-01 3.726000E-01 1.612000E-01
7 7.000000E-01 0.000000E+00 0.000000E+00
8 7.000000E-01 0.000000E+00 0.000000E+00
9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 8.255000E+00 3.416000E-01 7.531000E-02
14 8.255000E+00 3.416000E-01 7.531000E-02
15 4.796000E-01 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
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22 1.000000E-10 1.000000E-10 1.000000E-10 1.750000E-01 5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
32 3.890453E-18 3.890453E-18 3.890453E-18 5.000000E-02 2.000000E-08
33 3.890453E-18 3.890453E-18 3.890453E-18 5.000000E-02 2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12 1.000000E-12 1.333333E-08
37 4.897784E-13 4.897784E-13 4.897784E-13 3.700000E-01 0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15 2.851000E-02 2.887829E-08
39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
T
NFRAC
3
# DELTA_PI DELTA_PF FRAC_PHI FRAC_EXP IFRX IFRY IFRZ
4 2.460000E+06 2.500000E+06 3.135000E-02 7.205061E+01 1 1 0
5 2.460000E+06 2.500000E+06 3.135000E-02 7.205061E+01 1 1 0
6 2.460000E+06 2.500000E+06 3.135000E-02 7.205061E+01 1 1 0
KLINKENBERG EFFECT TO BE USED? True or False
T
BKLINK EXPKLINK
9.80000E-01 -3.30000E-01
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01320E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.80000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (NIGAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.0000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION {RKCOR} AND BIODEGRADATION {RKBIO}
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0.0000E+00 4.7213E-07 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0000E+00 1.0000E-01
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
6.0990E-01 0.0000E+00
6.0990E-01 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1.1120E+00 -1.7759E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
# MAT NO. MODEL 1= WASTE-FILLED, 2=BACKFILLED
1 13 4
2 14 4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
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BF2_QB0600_TEST7_V020.INP

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1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
2 31 27 1
TSTART, TMAX, MAXSTEPS
-1.5779E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
8.6400E+00 8.6400E-04 1.7280E+09 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
3
0.0000E+00 8.6400E+02
3.1666E+09 8.6400E+02
3.1666E+10 8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
2 0 2 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
2
USER REQUESTED PRINTOUT TIMES
0.0000E+00 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
20
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2.411029E+02	2.442706E+02	2.471764E+02	2.477000E+02	2.483108E+02	2.531975E+02
2.576478E+02	2.580841E+02	2.593058E+02	2.645415E+02	2.841755E+02	3.430774E+02
5.176014E+02					
6.014737E+01	2.346714E+02	2.935733E+02	3.132073E+02	3.184430E+02	3.196646E+02
3.201010E+02	3.205704E+02	3.210399E+02	3.211446E+02	3.211656E+02	3.211865E+02
3.212912E+02	3.217607E+02	3.224920E+02	3.237137E+02	3.289057E+02	3.340978E+02
3.356685E+02	3.388362E+02	3.417420E+02	3.422656E+02	3.428764E+02	3.477631E+02
3.522134E+02	3.526497E+02	3.538714E+02	3.591071E+02	3.787411E+02	4.376429E+02
6.121671E+02					
9.064270E+01	2.651668E+02	3.240687E+02	3.437026E+02	3.489384E+02	3.501600E+02
3.505963E+02	3.510658E+02	3.515353E+02	3.516400E+02	3.516609E+02	3.516819E+02
3.517866E+02	3.522561E+02	3.529873E+02	3.542090E+02	3.594011E+02	3.645932E+02
3.661639E+02	3.693315E+02	3.722373E+02	3.727609E+02	3.733717E+02	3.782584E+02
3.827088E+02	3.831451E+02	3.843668E+02	3.896025E+02	4.092365E+02	4.681383E+02
6.426624E+02					
9.656680E+01	2.710909E+02	3.299928E+02	3.496267E+02	3.548625E+02	3.560841E+02
3.565204E+02	3.569899E+02	3.574594E+02	3.575641E+02	3.575851E+02	3.576060E+02
3.577107E+02	3.581802E+02	3.589114E+02	3.601331E+02	3.653252E+02	3.705173E+02
3.720880E+02	3.752556E+02	3.781614E+02	3.786850E+02	3.792958E+02	3.841825E+02
3.886329E+02	3.890692E+02	3.902909E+02	3.955266E+02	4.151606E+02	4.740624E+02
6.485865E+02					
9.768167E+01	2.722057E+02	3.311076E+02	3.507415E+02	3.559773E+02	3.571989E+02
3.576353E+02	3.581047E+02	3.585742E+02	3.586789E+02	3.586999E+02	3.587208E+02
3.588255E+02	3.592950E+02	3.600263E+02	3.612480E+02	3.664400E+02	3.716321E+02
3.732029E+02	3.763705E+02	3.792763E+02	3.797998E+02	3.804107E+02	3.852974E+02
3.897477E+02	3.901840E+02	3.914057E+02	3.966414E+02	4.162754E+02	4.751772E+02
6.497014E+02					
9.903186E+01	2.735559E+02	3.324578E+02	3.520918E+02	3.573275E+02	3.585491E+02
3.589854E+02	3.594549E+02	3.599244E+02	3.600291E+02	3.600501E+02	3.600710E+02
3.601757E+02	3.606452E+02	3.613765E+02	3.625981E+02	3.677902E+02	3.729823E+02
3.745530E+02	3.777206E+02	3.806265E+02	3.811501E+02	3.817609E+02	3.866476E+02
3.910979E+02	3.915342E+02	3.927559E+02	3.979916E+02	4.176256E+02	4.765274E+02
6.510515E+02					
1.003524E+02	2.748765E+02	3.337784E+02	3.534124E+02	3.586481E+02	3.598698E+02
3.603061E+02	3.607755E+02	3.612450E+02	3.613497E+02	3.613707E+02	3.613916E+02
3.614963E+02	3.619658E+02	3.626971E+02	3.639187E+02	3.691108E+02	3.743029E+02
3.758736E+02	3.790413E+02	3.819471E+02	3.824706E+02	3.830815E+02	3.879681E+02
3.924185E+02	3.928548E+02	3.940765E+02	3.993122E+02	4.189462E+02	4.778481E+02
6.523721E+02					
1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	3.611903E+02
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	3.627122E+02
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02

5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
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9.270001E+02	9.270001E+02	9.270001E+02	9.269166E+02	9.270001E+02	9.270001E+02
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1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03	1.001650E+03
1.001650E+03	1.001650E+03	1.001650E+03	1.001555E+03	1.001650E+03	1.001650E+03
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1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
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1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03	1.031130E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.038910E+03	1.039010E+03	1.039010E+03
1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03	1.039010E+03

WELL DATA

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DIRICHLET CONDITIONS

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35
1 20 1 T F 8.520000E+05 0.000000E+00

9.659928E+06				
1.629376E+07	1.419219E+07	1.348291E+07	1.324649E+07	1.318344E+07
1.316873E+07	1.316348E+07	1.315782E+07	1.315217E+07	1.315091E+07
1.315066E+07	1.315040E+07	1.314914E+07	1.314349E+07	1.313468E+07
1.311997E+07	1.305745E+07	1.299493E+07	1.297602E+07	1.293787E+07
1.290288E+07	1.013250E+05	1.288922E+07	1.283038E+07	1.277679E+07
1.277153E+07	1.275682E+07	1.269378E+07	1.245735E+07	1.174807E+07
9.646503E+06				
1.627750E+07	1.417594E+07	1.346666E+07	1.323023E+07	1.316718E+07
1.315247E+07	1.314722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.276053E+07
1.275528E+07	1.274056E+07	1.267752E+07	1.244109E+07	1.173181E+07
9.630245E+06				
1.626160E+07	1.416003E+07	1.345075E+07	1.321433E+07	1.315128E+07
1.313657E+07	1.313132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.274463E+07
1.273937E+07	1.272466E+07	1.266161E+07	1.242519E+07	1.171591E+07
9.614342E+06				
1.624570E+07	1.414413E+07	1.343485E+07	1.319843E+07	1.313538E+07
1.312067E+07	1.311541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.272872E+07
1.272347E+07	1.270876E+07	1.264571E+07	1.240929E+07	1.170001E+07
9.598441E+06				
1.622199E+07	1.412042E+07	1.341114E+07	1.317472E+07	1.311167E+07
1.309696E+07	1.309170E+07	1.308605E+07	1.308040E+07	1.307914E+07
1.307888E+07	1.307863E+07	1.307737E+07	1.307172E+07	1.306291E+07
1.304820E+07	1.298568E+07	1.292316E+07	1.290424E+07	1.286610E+07
1.283111E+07	1.013250E+05	1.281745E+07	1.275860E+07	1.270502E+07
1.269976E+07	1.268505E+07	1.262200E+07	1.238558E+07	1.167630E+07
9.574732E+06				
1.620460E+07	1.410304E+07	1.339376E+07	1.315733E+07	1.309429E+07
1.307957E+07	1.307432E+07	1.306867E+07	1.306301E+07	1.306175E+07
1.306150E+07	1.306125E+07	1.305999E+07	1.305433E+07	1.304553E+07
1.303082E+07	1.296830E+07	1.290577E+07	1.288686E+07	1.284872E+07
1.281373E+07	1.013250E+05	1.280007E+07	1.274122E+07	1.268763E+07
1.268238E+07	1.266767E+07	1.260462E+07	1.236819E+07	1.165891E+07
9.557348E+06				
1.614844E+07	1.404687E+07	1.333759E+07	1.310117E+07	1.303812E+07
1.302341E+07	1.301815E+07	1.301250E+07	1.300685E+07	1.300559E+07
1.300533E+07	1.300508E+07	1.300382E+07	1.299817E+07	1.298936E+07
1.297465E+07	1.291213E+07	1.284961E+07	1.283069E+07	1.279255E+07
1.275756E+07	1.013250E+05	1.274390E+07	1.268506E+07	1.263147E+07
1.262621E+07	1.261150E+07	1.254845E+07	1.231203E+07	1.160275E+07
9.501182E+06				
1.609281E+07	1.399125E+07	1.328197E+07	1.304554E+07	1.298250E+07
1.296778E+07	1.296253E+07	1.295688E+07	1.295122E+07	1.294996E+07
1.294971E+07	1.294946E+07	1.294820E+07	1.294254E+07	1.293374E+07
1.291903E+07	1.285651E+07	1.279398E+07	1.277507E+07	1.273693E+07
1.270194E+07	1.013250E+05	1.268828E+07	1.262943E+07	1.257584E+07
1.257059E+07	1.255588E+07	1.249283E+07	1.225640E+07	1.154712E+07
9.445558E+06				
1.572463E+07	1.362307E+07	1.291379E+07	1.267736E+07	1.261432E+07
1.259961E+07	1.259435E+07	1.258870E+07	1.258304E+07	1.258178E+07
1.258153E+07	1.258128E+07	1.258002E+07	1.257437E+07	1.256556E+07
1.255085E+07	1.248833E+07	1.242580E+07	1.240689E+07	1.236875E+07
1.233376E+07	1.013250E+05	1.232010E+07	1.226125E+07	1.220766E+07
1.220241E+07	1.218770E+07	1.212465E+07	1.188822E+07	1.117895E+07
9.077379E+06				
1.440320E+07	1.230163E+07	1.159235E+07	1.135593E+07	1.129288E+07
1.127817E+07	1.127292E+07	1.126726E+07	1.126161E+07	1.126035E+07
1.126010E+07	1.125984E+07	1.125858E+07	1.125293E+07	1.124412E+07
1.122941E+07	1.116689E+07	1.110437E+07	1.108546E+07	1.104731E+07
1.101232E+07	1.013250E+05	1.099866E+07	1.093982E+07	1.088623E+07
1.088097E+07	1.086626E+07	1.080322E+07	1.056679E+07	9.857510E+06
7.755944E+06				
1.249452E+07	1.039295E+07	9.683674E+06	9.447247E+06	9.384200E+06
9.369490E+06	9.364235E+06	9.358582E+06	9.352928E+06	9.351667E+06
9.351415E+06	9.351163E+06	9.349902E+06	9.344249E+06	9.335443E+06
9.320732E+06	9.258211E+06	9.195689E+06	9.176775E+06	9.138632E+06
9.103641E+06	1.013250E+05	9.089980E+06	9.031136E+06	8.977546E+06

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NAME
 1 S_HALITE
 2 DRZ_0
 3 TRANS_0
 4 S_MB139
 5 S_ANH_AB
 6 S_MB138
 7 CAVITY_1
 8 CAVITY_2
 9 CAVITY_3
 10 CAVITY_4
 11 IMPERM_Z
 12 CASTILER
 13 WAS_AREA
 14 REPOSIT
 15 DRZ_1
 16 UNNAMED
 17 CULEBRA
 18 TAMARISK
 19 MAGENTA
 20 FORTYNIN
 21 DEWYLAKE
 22 SANTAROS
 23 BACKFILL
 24 EXP_AREA
 25 SHFT_B_1
 26 SHFT_B_2
 27 SHFT_L_1
 28 SHFT_L_2
 29 SHFT_U_1
 30 SHFT_U_2
 31 SHFT_LS1
 32 SHFT_LS2
 33 SHFT_US1
 34 SHFT_US2
 35 PAN_S_1
 36 PAN_S_2
 37 BOREHOLE
 38 TRANS_1
 39 CAVITY_5
 NWST
 2
 MAT_WASTE1 MAT_WASTE
 7 8
 13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7 8 9 10 39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME, ICWASTE
 0.0000E+00 1
 POWASTEIC
 1.013250E+05
 1.013250E+05

1.013250E+05
1.013250E+05
1.013250E+05
SOWASTEIC
0.000000E+00
0.000000E+00
0.000000E+00
0.250000E+00
0.200000E+00
PRESDRZ

NBORERESET
0

#	LAMBDA	SOR	SGR
1	7.765000E-01	4.809000E-01	7.919000E-02
2	7.765000E-01	0.000000E+00	0.000000E+00
3	7.765000E-01	0.000000E+00	0.000000E+00
4	4.177000E+00	2.392000E-01	6.053000E-02
5	4.177000E+00	2.392000E-01	6.053000E-02
6	4.177000E+00	2.392000E-01	6.053000E-02
7	7.000000E-01	0.000000E+00	0.000000E+00
8	7.000000E-01	0.000000E+00	0.000000E+00
9	7.000000E-01	0.000000E+00	0.000000E+00
10	7.000000E-01	0.000000E+00	0.000000E+00
11	1.000000E+00	0.000000E+00	0.000000E+00
12	7.000000E-01	2.000000E-01	2.000000E-01
13	4.578000E+00	2.366000E-01	2.118000E-01
14	4.578000E+00	2.366000E-01	2.118000E-01
15	7.765000E-01	0.000000E+00	0.000000E+00
16	7.000000E-01	2.000000E-01	2.000000E-01
17	7.000000E-01	2.000000E-01	2.000000E-01
18	7.000000E-01	2.000000E-01	2.000000E-01
19	7.000000E-01	2.000000E-01	2.000000E-01
20	7.000000E-01	2.000000E-01	2.000000E-01
21	7.000000E-01	2.000000E-01	2.000000E-01
22	7.000000E-01	2.000000E-01	2.000000E-01
23	7.000000E-01	0.000000E+00	0.000000E+00
24	7.000000E-01	0.000000E+00	0.000000E+00
25	7.000000E-01	2.000000E-01	2.000000E-01
26	7.000000E-01	2.000000E-01	2.000000E-01
27	7.000000E-01	2.000000E-01	2.000000E-01
28	7.000000E-01	2.000000E-01	2.000000E-01
29	7.000000E-01	2.000000E-01	2.000000E-01
30	7.000000E-01	2.000000E-01	2.000000E-01
31	7.000000E-01	2.000000E-01	2.000000E-01
32	7.000000E-01	2.000000E-01	2.000000E-01
33	7.000000E-01	2.000000E-01	2.000000E-01
34	7.000000E-01	2.000000E-01	2.000000E-01
35	7.000000E-01	2.000000E-01	2.000000E-01
36	7.000000E-01	2.000000E-01	2.000000E-01
37	7.000000E-01	2.000000E-01	0.000000E+00
38	7.765000E-01	0.000000E+00	0.000000E+00
39	7.000000E-01	0.000000E+00	0.000000E+00

#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP
1	5.049450E-01	1.013250E+05	1.000000E+08	1.248000E+06	0.000000E+00	4	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
4	2.511600E-01	1.013250E+05	1.000000E+08	7.798304E-03	-3.460000E-01	4	2	0
5	2.511600E-01	1.013250E+05	1.000000E+08	7.798304E-03	-3.460000E-01	4	2	0
6	2.511600E-01	1.013250E+05	1.000000E+08	7.798304E-03	-3.460000E-01	4	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	2.484300E-01	1.013250E+05	1.000000E+08	3.618162E-01	-3.460000E-01	4	4	0
14	2.484300E-01	1.013250E+05	1.000000E+08	3.618162E-01	-3.460000E-01	4	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0

23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	2.329312E+05	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	2.329312E+05	0.000000E+00	4	2	0
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
37	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0

#	PERMX	PERMY	PERMZ	POROSITY	COMPRES
1	7.244370E-23	7.244370E-23	7.244370E-23	2.419000E-02	3.704064E-10
2	1.000000E-15	1.000000E-15	1.000000E-15	2.419000E-02	3.408021E-08
3	1.000000E-15	1.000000E-15	1.000000E-15	2.419000E-02	3.408021E-08
4	1.023294E-20	1.023294E-20	1.023294E-20	1.240000E-02	2.412196E-08
5	1.023294E-20	1.023294E-20	1.023294E-20	1.240000E-02	2.412196E-08
6	1.023294E-20	1.023294E-20	1.023294E-20	1.240000E-02	2.412196E-08
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
9	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
10	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
11	0.000000E+00	0.000000E+00	0.000000E+00	5.000000E-03	0.000000E+00
12	1.330453E-11	1.330453E-11	1.330453E-11	5.200000E-03	1.923077E-07
13	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
14	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
15	1.000000E-15	1.000000E-15	1.000000E-15	2.419000E-02	3.408021E-08
16	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
17	2.648502E-13	2.648502E-13	2.648502E-13	1.460000E-01	1.417160E-09
18	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
19	1.096478E-16	1.096478E-16	1.096478E-16	9.000000E-02	2.199962E-09
20	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
21	9.332549E-16	9.332549E-16	9.332549E-16	1.500000E-01	6.666667E-08
22	1.000000E-10	1.000000E-10	1.000000E-10	1.750000E-01	5.714286E-08
23	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00
24	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00
25	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
26	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
27	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
28	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
29	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09
30	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09
31	1.000000E-12	1.000000E-12	1.000000E-12	5.000000E-02	2.000000E-08
32	5.754402E-17	5.754402E-17	5.754402E-17	5.000000E-02	2.000000E-08
33	5.754402E-17	5.754402E-17	5.754402E-17	5.000000E-02	2.000000E-08
34	1.000000E-12	1.000000E-12	1.000000E-12	5.000000E-02	2.000000E-08
35	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
36	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
37	6.025592E-13	6.025592E-13	6.025592E-13	3.700000E-01	0.000000E+00
38	1.000000E-15	1.000000E-15	1.000000E-15	2.419000E-02	3.408021E-08
39	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00

TOL AND SOEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
T
NFRAC
3
DELTA_PI DELTA_PF FRAC_PHI FRAC_EXP IFRX IFRY IFRZ
4 1.790000E+06 2.500000E+06 2.240000E-02 4.616207E+01 1 1 0
5 1.790000E+06 2.500000E+06 2.240000E-02 4.616207E+01 1 1 0
6 1.790000E+06 2.500000E+06 2.240000E-02 4.616207E+01 1 1 0
KLINKENBERG EFFECT TO BE USED? True or False
T
BKLINK EXPKLINK
9.800000E-01 -3.300000E-01
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS

```
3.00150E+02 1.01320E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.80000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
0.0000E+00 2.0338E-06 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0000E+00 1.8880E-01
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RKH2S AND RXCO2
3.3970E-01 0.0000E+00
3.3970E-01 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1.3316E+00 -1.3368E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSARE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
```

```
2
# MAT NO.    MODEL 1= WASTE-FILLED, 2=BACKFILLED
1  13        4
2  14        4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

A.7.3 Test Case 7: Input Difference Files, BF2_QB0600_ES47_TEST7_Vnnn_INP.DIF (where nnn = 1 to 20)

BF2_QB0600_ES47_TEST7_V001_INP.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_TEST7_R001_QA0500.INP;1
28  1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
29  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
30  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
31  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
32  0 0 0 0 0 0 0
33  0 0
34  0 0
35  0 0
36  BINARY PRINT FLAGS
37  1 1 0 0 0 1 0 0 0 0 1 1 0 0 0 1 0 0 0 0 1 0 1 0 0 0 0 0
38  0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 1
39  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
40  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
41  0 0 0 0 0 0 0
42  0 0
43  0 0
44  0 0
45  HISTORY VARIABLE OUTPUT
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;1
28  1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
29  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
30  0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
31  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
32  0 0 0 0 0 0 0
33  BINARY PRINT FLAGS
34  1 1 0 0 0 1 0 0 0 0 1 1 0 0 0 1 0 0 0 0 1 0 1 0 0 0 0 0 0
35  0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
36  0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
37  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
38  0 0 0 0 0 0 0
39  HISTORY VARIABLE OUTPUT
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_TEST7_R001_QA0500.INP;1
1127 DSATLIM, DPRESLIM, SATLIMIT
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;1
1121 GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
1122 31*0.000000E+00
1123 31*0.000000E+00
1124 31*0.000000E+00
1125 31*0.000000E+00
1126 31*0.000000E+00
1127 31*0.000000E+00
1128 31*0.000000E+00
1129 31*0.000000E+00
1130 31*0.000000E+00
1131 31*0.000000E+00
1132 31*0.000000E+00
1133 31*0.000000E+00
1134 31*0.000000E+00
```



```
1480 # LAMBDA SOR SGR
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_TEST7_R001_QA0500.INP;1
1488 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;1
1519 39 7.000000E-01 0.000000E+00 0.000000E+00
1520 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_TEST7_R001_QA0500.INP;1
1527 # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;1
1559 39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1560 # PERMX PERMY PERMZ POROSITY COMPRES
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_TEST7_R001_QA0500.INP;1
1566 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;1
1599 39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1600 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1601 1.000000E-02 1.000000E-03
1602 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1603 0
1604 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_TEST7_R001_QA0500.INP;1
1620 1.0978E-06 0.0000E+00
1621 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1622 4.8920E-04 0.0000E+00
1623 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, Fe, [C6-H10-O5]/6)
1624 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1625 SCOR_H2=a, SCOR_H2O=b, SCOR_Fe=c: where b*H2O + c*Fe=> a*H2 + inert solids
1626 1.2970E+00 1.4061E+00 1.0000E+00
1627 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
1628 2.6110E-01 0.0000E+00 1.0000E+00
1629 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1630 0.0000E+00 T 1.0000E+03
1631 CREEP CLOSURE?
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;1
1658 1.0978E-06 0.0000E+00 F
1659 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1660 4.8920E-04 0.0000E+00
1661 RATE CONSTANTS: BRUCITEI AND BRUCITEH
1662 0.0000E+00 0.0000E+00
1663 RATE COEFFICIENTS: RXH2S AND RXCO2
1664 2.6110E-01 0.0000E+00
1665 2.6110E-01 0.0000E+00
1666 CHEMISTRY CUTOFF SATURATION: SOCMIN
1667 0.0000E+00
1668 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, Fe, [C6-H10-O5]/6)
1669 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1670 REACTANT/PRODUCT MOLECULAR WEIGHTS (Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
1671 8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
1672 S_H2, S_H2O, S_Fe, S_Bio, S_FeOH2, S_FeS, S_MgO, S_MgOH2, S_MgCO3
1673 1.2970E+00 -1.4061E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1674 0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1675 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1676 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1677 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1678 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1679 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1680 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
1681 7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
1682 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
1683 3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
1684 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1685 0.0000E+00 T F 1.0000E+03
1686 CREEP CLOSURE?
*****
*****
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1475 0.200000E+00
1476 PRESZRZ
1478 NBORERESET
1479 0
1480 # LAMBDA SOR SGR
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_TEST7_R002_QA0500.INP;1
1488 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;1
1519 39 7.000000E-01 0.000000E+00 0.000000E+00
1520 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_TEST7_R002_QA0500.INP;1
1527 # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;1
1559 39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1560 # PERMX PERMY PERMZ POROSITY COMPRES
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_TEST7_R002_QA0500.INP;1
1566 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;1
1599 39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1600 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1601 1.000000E-02 1.000000E-03
1602 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1603 0
1604 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_TEST7_R002_QA0500.INP;1
1620 5.1802E-06 0.0000E+00
1621 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1622 4.9840E-04 0.0000E+00
1623 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
1624 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1625 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
1626 1.0360E+00 1.9279E+00 1.0000E+00
1627 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
1628 1.4090E+00 0.0000E+00 1.0000E+00
1629 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1630 0.0000E+00 T 1.0000E+03
1631 CREEP CLOSURE?
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;1
1658 5.1802E-06 0.0000E+00 F
1659 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1660 4.9840E-04 0.0000E+00
1661 RATE CONSTANTS: BRUCITEI AND BRUCITEH
1662 0.0000E+00 0.0000E+00
1663 RATE COEFFICIENTS: RXH2S AND RXCO2
1664 1.4090E+00 0.0000E+00
1665 1.4090E+00 0.0000E+00
1666 CHEMISTRY CUTOFF SATURATION: SOCMIN
1667 0.0000E+00
1668 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
1669 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1670 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
1671 8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
1672 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1673 1.0360E+00 -1.9279E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1674 0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1675 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1676 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1677 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1678 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1679 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1680 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
1681 7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
1682 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
1683 3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
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*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;1
1473 0.000000E+00
1474 0.250000E+00
1475 0.200000E+00
1476 PRESDRZ
1478 NBORESERET
1479 0
1480 # LAMBDA SOR SGR
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_TEST7_R003_QA0500.INP;1
1488 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;1
1519 39 7.000000E-01 0.000000E+00 0.000000E+00
1520 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_TEST7_R003_QA0500.INP;1
1527 # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;1
1559 39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1560 # PERMX PERMY PERMZ POROSITY COMPRES
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_TEST7_R003_QA0500.INP;1
1566 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;1
1599 39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1600 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1601 1.000000E-02 1.000000E-03
1602 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1603 0
1604 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_TEST7_R003_QA0500.INP;1
1620 0.0000E+00 2.3835E-08
1621 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1622 0.0000E+00 1.0000E-01
1623 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
1624 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1625 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
1626 1.0717E+00 1.8566E+00 1.0000E+00
1627 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
1628 1.2770E+00 0.0000E+00 1.0000E+00
1629 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1630 0.0000E+00 T 1.0000E+03
1631 CREEP CLOSURE?
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;1
1658 0.0000E+00 2.3835E-08 F
1659 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1660 0.0000E+00 1.0000E-01
1661 RATE CONSTANTS: BRUCITEI AND BRUCITEH
1662 0.0000E+00 0.0000E+00
1663 RATE COEFFICIENTS: RXH2S AND RXCO2
1664 1.2770E+00 0.0000E+00
1665 1.2770E+00 0.0000E+00
1666 CHEMISTRY CUTOFF SATURATION: SOCMIN
1667 0.0000E+00
1668 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
1669 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1670 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
1671 8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
1672 S_H2, S_H2O, S_Fe, S_Bio, S_FeOH2, S_FeS, S_MgO, S_MgOH2, S_MgCO3
1673 1.0717E+00 -1.8566E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1674 0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1675 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1676 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1677 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1678 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1679 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
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1123 31*0.000000E+00
1124 31*0.000000E+00
1125 31*0.000000E+00
1126 31*0.000000E+00
1127 31*0.000000E+00
1128 31*0.000000E+00
1129 31*0.000000E+00
1130 31*0.000000E+00
1131 31*0.000000E+00
1132 31*0.000000E+00
1133 31*0.000000E+00
1134 31*0.000000E+00
1135 31*0.000000E+00
1136 31*0.000000E+00
1137 31*0.000000E+00
1138 31*0.000000E+00
1139 31*0.000000E+00
1140 31*0.000000E+00
1141 31*0.000000E+00
1142 31*0.000000E+00
1143 31*0.000000E+00
1144 31*0.000000E+00
1145 31*0.000000E+00
1146 31*0.000000E+00
1147 31*0.000000E+00
1148 31*0.000000E+00
1149 DSATLIM, DPRESLIM, SATLIMIT
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
1210 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1211 11 11 11 11 11
1212 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1213 11 11 11 11 11
1214 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1215 11 11 11 11 11
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
1232 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1233 11 11 11 11 11
1234 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1235 11 11 11 11 11
1236 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1237 11 11 11 11 11
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
1426 NWST
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
1448 39 CAVITY_5
1449 NWST
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
1434 4
1435 MATRESET
1436 7 8 9 10
1437 BORE HOLE MATERIAL NUMBER
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
1457 5
1458 MATRESET
1459 7 8 9 10 39
1460 BORE HOLE MATERIAL NUMBER
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
1444 SOWASTEIC
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
1467 1.013250E+05
1468 1.013250E+05
1469 1.013250E+05
1470 SOWASTEIC
*****
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*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
1447  PRESDRZ
1449  # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
1473  0.000000E+00
1474  0.250000E+00
1475  0.200000E+00
1476  PRESDRZ
1478  NBORERESET
1479  0
1480  # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
1488  # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
1519  39 7.000000E-01 0.000000E+00 0.000000E+00
1520  # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
1527  # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
1559  39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1560  # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
1566  FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
1599  39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1600  TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1601  1.000000E-02 1.000000E-03
1602  NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1603  0
1604  FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
1620  8.6010E-09 0.0000E+00
1621  HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1622  0.0000E+00 0.0000E+00
1623  REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
1624  2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1625  SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
1626  1.1814E+00 1.6372E+00 1.0000E+00
1627  SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
1628  2.1520E-01 0.0000E+00 1.0000E+00
1629  WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1630  0.0000E+00 T 1.0000E+03
1631  CREEP CLOSURE?
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
1658  8.6010E-09 0.0000E+00 F
1659  HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1660  0.0000E+00 0.0000E+00
1661  RATE CONSTANTS: BRUCITEI AND BRUCITEH
1662  0.0000E+00 0.0000E+00
1663  RATE COEFFICIENTS: RXH2S AND RXCO2
1664  2.1520E-01 0.0000E+00
1665  2.1520E-01 0.0000E+00
1666  CHEMISTRY CUTOFF SATURATION: SOCMIN
1667  0.0000E+00
1668  REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
1669  2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1670  REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
1671  8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
1672  S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1673  1.1814E+00 -1.6372E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1674  0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1675  0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
```



```
1468 1.013250E+05
1469 1.013250E+05
1470 SOWASTEIC
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_TEST7_R005_QA0500.INP;1
1447 PRESDRZ
1449 # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;1
1473 0.000000E+00
1474 0.250000E+00
1475 0.200000E+00
1476 PRESDRZ
1478 NBORERESET
1479 0
1480 # LAMBDA SOR SGR
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_TEST7_R005_QA0500.INP;1
1488 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;1
1519 39 7.000000E-01 0.000000E+00 0.000000E+00
1520 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_TEST7_R005_QA0500.INP;1
1527 # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;1
1559 39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1560 # PERMX PERMY PERMZ POROSITY COMPRES
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_TEST7_R005_QA0500.INP;1
1566 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;1
1599 39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1600 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1601 1.000000E-02 1.000000E-03
1602 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1603 0
1604 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_TEST7_R005_QA0500.INP;1
1620 0.0000E+00 1.4877E-07
1621 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1622 0.0000E+00 1.0000E-01
1623 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
1624 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1625 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
1626 1.2163E+00 1.5673E+00 1.0000E+00
1627 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
1628 8.6290E-01 0.0000E+00 1.0000E+00
1629 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1630 0.0000E+00 T 1.0000E+03
1631 CREEP CLOSURE?
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;1
1658 0.0000E+00 1.4877E-07 F
1659 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1660 0.0000E+00 1.0000E-01
1661 RATE CONSTANTS: BRUCITEI AND BRUCITEH
1662 0.0000E+00 0.0000E+00
1663 RATE COEFFICIENTS: RXH2S AND RXCO2
1664 8.6290E-01 0.0000E+00
1665 8.6290E-01 0.0000E+00
1666 CHEMISTRY CUTOFF SATURATION: SOCMIN
1667 0.0000E+00
1668 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
1669 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1670 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
1671 8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
```



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1444 SOWASTEIC
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;1
1467 1.013250E+05
1468 1.013250E+05
1469 1.013250E+05
1470 SOWASTEIC
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_TEST7_R006_QA0500.INP;1
1447 PRESDRZ
1449 # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;1
1473 0.000000E+00
1474 0.250000E+00
1475 0.200000E+00
1476 PRESDRZ
1478 NBORERESET
1479 0
1480 # LAMBDA SOR SGR
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_TEST7_R006_QA0500.INP;1
1488 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;1
1519 39 7.000000E-01 0.000000E+00 0.000000E+00
1520 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_TEST7_R006_QA0500.INP;1
1527 # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;1
1559 39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1560 # PERMX PERMY PERMZ POROSITY COMPRES
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_TEST7_R006_QA0500.INP;1
1566 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;1
1599 39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1600 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1601 1.000000E-02 1.000000E-03
1602 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1603 0
1604 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_TEST7_R006_QA0500.INP;1
1620 0.0000E+00 1.7129E-07
1621 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1622 0.0000E+00 1.0000E-01
1623 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5])/6
1624 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1625 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
1626 1.0144E+00 1.9713E+00 1.0000E+00
1627 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
1628 1.0020E+00 0.0000E+00 1.0000E+00
1629 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1630 0.0000E+00 T 1.0000E+03
1631 CREEP CLOSURE?
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;1
1658 0.0000E+00 1.7129E-07 F
1659 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1660 0.0000E+00 1.0000E-01
1661 RATE CONSTANTS: BRUCITEI AND BRUCITEH
1662 0.0000E+00 0.0000E+00
1663 RATE COEFFICIENTS: RXH2S AND RXCO2
1664 1.0020E+00 0.0000E+00
1665 1.0020E+00 0.0000E+00
1666 CHEMISTRY CUTOFF SATURATION: SOCMIN
1667 0.0000E+00
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1460 BORE HOLE MATERIAL NUMBER
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_TEST7_R007_QA0500.INP;1
1444 SOWASTEIC
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;1
1467 1.013250E+05
1468 1.013250E+05
1469 1.013250E+05
1470 SOWASTEIC
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_TEST7_R007_QA0500.INP;1
1447 PRESDRZ
1449 # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;1
1473 0.000000E+00
1474 0.250000E+00
1475 0.200000E+00
1476 PRESDRZ
1478 NBORERESET
1479 0
1480 # LAMBDA SOR SGR
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_TEST7_R007_QA0500.INP;1
1488 # SEMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;1
1519 39 7.000000E-01 0.000000E+00 0.000000E+00
1520 # SEMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_TEST7_R007_QA0500.INP;1
1527 # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;1
1559 39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1560 # PERMX PERMY PERMZ POROSITY COMPRES
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_TEST7_R007_QA0500.INP;1
1566 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;1
1599 39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1600 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1601 1.000000E-02 1.000000E-03
1602 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1603 0
1604 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_TEST7_R007_QA0500.INP;1
1620 0.0000E+00 7.6923E-08
1621 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1622 0.0000E+00 1.0000E-01
1623 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
1624 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1625 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
1626 1.3081E+00 1.3838E+00 1.0000E+00
1627 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
1628 1.1100E+00 0.0000E+00 1.0000E+00
1629 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1630 0.0000E+00 T 1.0000E+03
1631 CREEP CLOSURE?
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;1
1658 0.0000E+00 7.6923E-08 F
1659 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1660 0.0000E+00 1.0000E-01
1661 RATE CONSTANTS: BRUCITEI AND BRUCITEH
1662 0.0000E+00 0.0000E+00
1663 RATE COEFFICIENTS: RXH2S AND RXCO2
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32 0 0 0 0 0 0
33 BINARY PRINT FLAGS
34 1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
35 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
36 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
37 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
38 0 0 0 0 0 0
39 HISTORY VARIABLE OUTPUT
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
1127 DSATLIM, DPRESLIM, SATLIMIT
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
1121 GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
1122 31*0.000000E+00
1123 31*0.000000E+00
1124 31*0.000000E+00
1125 31*0.000000E+00
1126 31*0.000000E+00
1127 31*0.000000E+00
1128 31*0.000000E+00
1129 31*0.000000E+00
1130 31*0.000000E+00
1131 31*0.000000E+00
1132 31*0.000000E+00
1133 31*0.000000E+00
1134 31*0.000000E+00
1135 31*0.000000E+00
1136 31*0.000000E+00
1137 31*0.000000E+00
1138 31*0.000000E+00
1139 31*0.000000E+00
1140 31*0.000000E+00
1141 31*0.000000E+00
1142 31*0.000000E+00
1143 31*0.000000E+00
1144 31*0.000000E+00
1145 31*0.000000E+00
1146 31*0.000000E+00
1147 31*0.000000E+00
1148 31*0.000000E+00
1149 DSATLIM, DPRESLIM, SATLIMIT
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
1210 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1211 11 11 11 11 11
1212 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1213 11 11 11 11 11
1214 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1215 11 11 11 11 11
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
1232 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1233 11 11 11 11 11
1234 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1235 11 11 11 11 11
1236 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1237 11 11 11 11 11
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
1426 NWST
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
1448 39 CAVITY_5
1449 NWST
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
1434 4
1435 MATRESET
1436 7 8 9 10
1437 BORE HOLE MATERIAL NUMBER
*****
```

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
1457      5
1458      MATRESET
1459      7 8 9 10 39
1460      BORE HOLE MATERIAL NUMBER
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
1444      SOWASTEIC
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
1467      1.013250E+05
1468      1.013250E+05
1469      1.013250E+05
1470      SOWASTEIC
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
1447      PRESDRZ
1449      # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
1473      0.000000E+00
1474      0.250000E+00
1475      0.200000E+00
1476      PRESDRZ
1478      NBORERESET
1479      0
1480      # LAMBDA SOR SGR
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
1488      # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
1519      39 7.000000E-01 0.000000E+00 0.000000E+00
1520      # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
1527      # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
1559      39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1560      # PERMX PERMY PERMZ POROSITY COMPRES
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
1566      FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
1599      39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1600      TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1601      1.000000E-02 1.000000E-03
1602      NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1603      0
1604      FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
1620      1.8407E-08 0.0000E+00
1621      HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1622      0.0000E+00 0.0000E+00
1623      REACTANT/PRODUCT MOLECULAR WEIGHTS {H2, H2O, FE, [C6-H10-O5]/6
1624      2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1625      SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
1626      1.0924E+00 1.8152E+00 1.0000E+00
1627      SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
1628      1.5450E+00 0.0000E+00 1.0000E+00
1629      WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1630      0.0000E+00 T 1.0000E+03
1631      CREEP CLOSURE?
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
1658      1.8407E-08 0.0000E+00 F
1659      HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
```



```
1435 MATRESET
1436 7 8 9 10
1437 BORE HOLE MATERIAL NUMBER
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;1
1457 5
1458 MATRESET
1459 7 8 9 10 39
1460 BORE HOLE MATERIAL NUMBER
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_TEST7_R009_QA0500.INP;1
1444 SOWASTEIC
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;1
1467 1.013250E+05
1468 1.013250E+05
1469 1.013250E+05
1470 SOWASTEIC
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_TEST7_R009_QA0500.INP;1
1447 PRESDRZ
1449 # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;1
1473 0.000000E+00
1474 0.250000E+00
1475 0.200000E+00
1476 PRESDRZ
1478 NBORESET
1479 0
1480 # LAMBDA SOR SGR
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_TEST7_R009_QA0500.INP;1
1488 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;1
1519 39 7.000000E-01 0.000000E+00 0.000000E+00
1520 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_TEST7_R009_QA0500.INP;1
1527 # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;1
1559 39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1560 # PERMX PERMY PERMZ POROSITY COMPRES
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_TEST7_R009_QA0500.INP;1
1566 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;1
1599 39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1600 TOL AND SOCEPFMIN FOR PERMEABILITY MODELS 11 & 12
1601 1.000000E-02 1.000000E-03
1602 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1603 0
1604 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_TEST7_R009_QA0500.INP;1
1620 0.0000E+00 3.6635E-07
1621 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1622 0.0000E+00 1.8129E-01
1623 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5])/6
1624 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1625 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
1626 1.0313E+00 1.9375E+00 1.0000E+00
1627 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
1628 1.6120E+00 0.0000E+00 1.0000E+00
1629 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1630 0.0000E+00 T 1.0000E+03
1631 CREEP CLOSURE?
```



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*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1
1434 4
1435 MATRESET
1436 7 8 9 10
1437 BORE HOLE MATERIAL NUMBER
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;1
1457 5
1458 MATRESET
1459 7 8 9 10 39
1460 BORE HOLE MATERIAL NUMBER
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1
1444 SOWASTEIC
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;1
1467 1.013250E+05
1468 1.013250E+05
1469 1.013250E+05
1470 SOWASTEIC
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1
1447 PRESDRZ
1449 # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;1
1473 0.000000E+00
1474 0.250000E+00
1475 0.200000E+00
1476 PRESDRZ
1478 NBOREERESET
1479 0
1480 # LAMBDA SOR SGR
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1
1488 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;1
1519 39 7.000000E-01 0.000000E+00 0.000000E+00 0.000000E+00
1520 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1
1527 # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;1
1559 39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1560 # PERMX PERMY PERMZ POROSITY COMPRES
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1
1566 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;1
1599 39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1600 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1601 1.000000E-02 1.000000E-03
1602 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1603 0
1604 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1
1620 8.0358E-10 0.0000E+00
1621 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1622 0.0000E+00 0.0000E+00
1623 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5])/6
1624 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1625 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
1626 1.1864E+00 1.6271E+00 1.0000E+00
1627 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
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*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
 1448   39 CAVITY_5
 1449   NWST
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1
 1434    4
 1435  MATRESET
 1436  7 8 9 10
 1437  BORE HOLE MATERIAL NUMBER
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
 1457    5
 1458  MATRESET
 1459  7 8 9 10 39
 1460  BORE HOLE MATERIAL NUMBER
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1
 1444  SOWASTEIC
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
 1467  1.013250E+05
 1468  1.013250E+05
 1469  1.013250E+05
 1470  SOWASTEIC
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1
 1447  PRESDRZ
 1449  # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
 1473  0.000000E+00
 1474  0.250000E+00
 1475  0.200000E+00
 1476  PRESDRZ
 1478  NBORERESET
 1479  0
 1480  # LAMBDA SOR SGR
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1
 1488  # SEMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
 1519  39 7.000000E-01 0.000000E+00 0.000000E+00
 1520  # SEMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1
 1527  # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
 1559  39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1560  # PERMX PERMY PERMZ POROSITY COMPRES
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1
 1566  FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
 1599  39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1600  TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1601  1.000000E-02 1.000000E-03
 1602  NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1603  0
 1604  FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1
 1620  5.6569E-06 0.0000E+00
 1621  HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1622  4.9875E-04 0.0000E+00
 1623  REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5])/6
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*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1
1575  NWST
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
1597  39 CAVITY_5
1598  NWST
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1
1583  4
1584  MATRESET
1585  7 8 9 10
1586  BORE HOLE MATERIAL NUMBER
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
1606  5
1607  MATRESET
1608  7 8 9 10 39
1609  BORE HOLE MATERIAL NUMBER
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1
1593  SOWASTEIC
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
1616  1.013250E+05
1617  1.013250E+05
1618  1.013250E+05
1619  SOWASTEIC
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1
1596  PRESDRZ
1598  # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
1622  0.000000E+00
1623  0.250000E+00
1624  0.200000E+00
1625  PRESDRZ
1627  NBORERESET
1628  0
1629  # LAMBDA SOR SGR
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1
1637  # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
1668  39 7.000000E-01 0.000000E+00 0.000000E+00
1669  # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1
1676  # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
1708  39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1709  # PERMX PERMY PERMZ POROSITY COMPRES
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1
1715  FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
1748  39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1749  TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1750  1.000000E-02 1.000000E-03
1751  NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1752  0
1753  FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1
```



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32 0 0 0 0 0 0
33 0 0
34 0 0
35 0 0
36 BINARY PRINT FLAGS
37 1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
38 0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 1
39 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
41 0 0 0 0 0 0
42 0 0
43 0 0
44 0 0
45 HISTORY VARIABLE OUTPUT
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
28 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
30 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
31 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
32 0 0 0 0 0 0
33 BINARY PRINT FLAGS
34 1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
35 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0
36 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
37 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
38 0 0 0 0 0 0
39 HISTORY VARIABLE OUTPUT
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
1127 DSATLIM, DPRESLIM, SATLIMIT
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
1121 GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
1122 31*0.000000E+00
1123 31*0.000000E+00
1124 31*0.000000E+00
1125 31*0.000000E+00
1126 31*0.000000E+00
1127 31*0.000000E+00
1128 31*0.000000E+00
1129 31*0.000000E+00
1130 31*0.000000E+00
1131 31*0.000000E+00
1132 31*0.000000E+00
1133 31*0.000000E+00
1134 31*0.000000E+00
1135 31*0.000000E+00
1136 31*0.000000E+00
1137 31*0.000000E+00
1138 31*0.000000E+00
1139 31*0.000000E+00
1140 31*0.000000E+00
1141 31*0.000000E+00
1142 31*0.000000E+00
1143 31*0.000000E+00
1144 31*0.000000E+00
1145 31*0.000000E+00
1146 31*0.000000E+00
1147 31*0.000000E+00
1148 31*0.000000E+00
1149 DSATLIM, DPRESLIM, SATLIMIT
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
1210 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1211 11 11 11 11 11
1212 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1213 11 11 11 11 11
1214 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1215 11 11 11 11 11
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
1232 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1233 11 11 11 11 11
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1234 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1235 11 11 11 11 11
1236 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1237 11 11 11 11 11

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
1426 NWST

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
1448 39 CAVITY_5
1449 NWST

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
1434 4
1435 MATRESET
1436 7 8 9 10
1437 BORE HOLE MATERIAL NUMBER

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
1457 5
1458 MATRESET
1459 7 8 9 10 39
1460 BORE HOLE MATERIAL NUMBER

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
1444 SOWASTEIC

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
1467 1.013250E+05
1468 1.013250E+05
1469 1.013250E+05
1470 SOWASTEIC

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
1447 PRESDRZ
1449 # LAMBDA SOR SGR

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
1473 0.000000E+00
1474 0.250000E+00
1475 0.200000E+00
1476 PRESDRZ
1478 NBORERESET
1479 0
1480 # LAMBDA SOR SGR

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
1488 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
1519 39 7.000000E-01 0.000000E+00 0.000000E+00
1520 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
1527 # PERMX PERMY PERMZ POROSITY COMPRES

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
1559 39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1560 # PERMX PERMY PERMZ POROSITY COMPRES

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
1566 FRACTURE MODEL DATA TO FOLLOW :T OR F

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
1599 39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1600 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1601 1.000000E-02 1.000000E-03
1602 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1603 0

```
1604 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
1620 2.0642E-08 0.0000E+00
1621 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1622 0.0000E+00 0.0000E+00
1623 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, Fe, [C6-H10-O5])/6
1624 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1625 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
1626 1.2802E+00 1.4397E+00 1.0000E+00
1627 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
1628 1.4280E+00 0.0000E+00 1.0000E+00
1629 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1630 0.0000E+00 T 1.0000E+03
1631 CREEP CLOSURE?
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
1658 2.0642E-08 0.0000E+00 F
1659 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1660 0.0000E+00 0.0000E+00
1661 RATE CONSTANTS: BRUCITEI AND BRUCITEH
1662 0.0000E+00 0.0000E+00
1663 RATE COEFFICIENTS: RXH2S AND RXCO2
1664 1.4280E+00 0.0000E+00
1665 1.4280E+00 0.0000E+00
1666 CHEMISTRY CUTOFF SATURATION: SOCMIN
1667 0.0000E+00
1668 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5])/6)
1669 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1670 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
1671 8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
1672 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1673 1.2802E+00 -1.4397E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1674 0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1675 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1676 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1677 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1678 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1679 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1680 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5])/6)
1681 7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
1682 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
1683 3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
1684 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1685 0.0000E+00 T F 1.0000E+03
1686 CREEP CLOSURE?
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
1635 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, PERM_FACTOR, PERM_EXP
1636 4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
1637 NUMBER OF MATERIAL REGIONS FOR CLOSURE
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
1690 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
1691 4 1.4800E+07 3.1557E+12 1 F
1692 MODPERM PARAMETERS
1693 5.5847E-12 0.0000E+00
1694 NUMBER OF MATERIAL REGIONS FOR CLOSURE
*****
Number of difference sections found: 12
Number of difference records found: 102
DIFFERENCES /IGNORE={SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013_INP.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
```

BF2_QB0600_ES47_TEST7_V014_INP.DIF

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*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
```



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*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
1232 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1233 11 11 11 11 11
1234 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1235 11 11 11 11 11
1236 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1237 11 11 11 11 11
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
1426 NWST
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
1448 39 CAVITY_5
1449 NWST
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
1434 4
1435 MATRESET
1436 7 8 9 10
1437 BORE HOLE MATERIAL NUMBER
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
1457 5
1458 MATRESET
1459 7 8 9 10 39
1460 BORE HOLE MATERIAL NUMBER
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
1444 SOWASTEIC
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
1467 1.013250E+05
1468 1.013250E+05
1469 1.013250E+05
1470 SOWASTEIC
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
1447 PRESDRZ
1449 # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
1473 0.000000E+00
1474 0.250000E+00
1475 0.200000E+00
1476 PRESDRZ
1478 NBORERESET
1479 0
1480 # LAMBDA SOR SGR
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
1488 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
1519 39 7.000000E-01 0.000000E+00 0.000000E+00
1520 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
1527 # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
1559 39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1560 # PERMX PERMY PERMZ POROSITY COMPRES
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
1566 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
1599 39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
```

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1600 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1601 1.000000E-02 1.000000E-03
1602 NMAFSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1603 0
1604 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
1620 2.0477E-07 0.0000E+00
1621 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1622 4.2602E-04 0.0000E+00
1623 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5])/6
1624 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1625 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
1626 1.1493E+00 1.7013E+00 1.0000E+00
1627 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
1628 4.8530E-01 0.0000E+00 1.0000E+00
1629 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1630 0.0000E+00 T 1.0000E+03
1631 CREEP CLOSURE?
*****
```

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
1658 2.0477E-07 0.0000E+00 F
1659 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1660 4.2602E-04 0.0000E+00
1661 RATE CONSTANTS: BRUCITEI AND BRUCITEH
1662 0.0000E+00 0.0000E+00
1663 RATE COEFFICIENTS: RXH2S AND RXCO2
1664 4.8530E-01 0.0000E+00
1665 4.8530E-01 0.0000E+00
1666 CHEMISTRY CUTOFF SATURATION: SOCMIN
1667 0.0000E+00
1668 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5])/6
1669 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1670 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
1671 8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
1672 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1673 1.1493E+00 -1.7013E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1674 0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1675 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1676 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1677 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1678 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1679 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1680 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5])/6)
1681 7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
1682 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
1683 3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
1684 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1685 0.0000E+00 T F 1.0000E+03
1686 CREEP CLOSURE?
*****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
1635 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
1636 4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
1637 NUMBER OF MATERIAL REGIONS FOR CLOSURE
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
1690 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
1691 4 1.4800E+07 3.1557E+12 1 F
1692 MODPERM PARAMETERS
1693 5.5847E-12 0.0000E+00
1694 NUMBER OF MATERIAL REGIONS FOR CLOSURE
*****
```

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

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

BF2_QB0600_ES47_TEST7_V015_INP.DIF

```
*****  
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1  
28 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
31 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
32 0 0 0 0 0 0  
33 0 0  
34 0 0  
35 0 0  
36 BINARY PRINT FLAGS  
37 1 1 0 0 0 1 0 0 0 0 1 1 0 0 0 1 0 0 0 0 1 0 1 0 0 0 0 0  
38 0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 1  
39 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
41 0 0 0 0 0 0  
42 0 0  
43 0 0  
44 0 0  
45 HISTORY VARIABLE OUTPUT
```

```
*****  
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1  
28 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
30 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
31 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
32 0 0 0 0 0 0  
33 BINARY PRINT FLAGS  
34 1 1 0 0 0 1 0 0 0 0 1 1 0 0 0 1 0 0 0 0 1 0 1 0 0 0 0 0  
35 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0  
36 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
37 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
38 0 0 0 0 0 0  
39 HISTORY VARIABLE OUTPUT
```

```
*****  
*****  
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1  
1127 DSATLIM, DPRESLIM, SATLIMIT  
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1  
1121 GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS  
1122 31*0.000000E+00  
1123 31*0.000000E+00  
1124 31*0.000000E+00  
1125 31*0.000000E+00  
1126 31*0.000000E+00  
1127 31*0.000000E+00  
1128 31*0.000000E+00  
1129 31*0.000000E+00  
1130 31*0.000000E+00  
1131 31*0.000000E+00  
1132 31*0.000000E+00  
1133 31*0.000000E+00  
1134 31*0.000000E+00  
1135 31*0.000000E+00  
1136 31*0.000000E+00  
1137 31*0.000000E+00  
1138 31*0.000000E+00  
1139 31*0.000000E+00  
1140 31*0.000000E+00  
1141 31*0.000000E+00  
1142 31*0.000000E+00  
1143 31*0.000000E+00  
1144 31*0.000000E+00  
1145 31*0.000000E+00  
1146 31*0.000000E+00  
1147 31*0.000000E+00  
1148 31*0.000000E+00  
1149 DSATLIM, DPRESLIM, SATLIMIT
```

```
*****  
*****  
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1
```



```
1210 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1211 11 11 11 11 11
1212 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1213 11 11 11 11 11
1214 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1215 11 11 11 11 11
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
1232 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1233 11 11 11 11 11
1234 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1235 11 11 11 11 11
1236 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1237 11 11 11 11 11
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1
1426 NWST
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
1448 39 CAVITY_5
1449 NWST
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1
1434 4
1435 MATRESET
1436 7 8 9 10
1437 BORE HOLE MATERIAL NUMBER
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
1457 5
1458 MATRESET
1459 7 8 9 10 39
1460 BORE HOLE MATERIAL NUMBER
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1
1444 SOWASTEIC
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
1467 1.013250E+05
1468 1.013250E+05
1469 1.013250E+05
1470 SOWASTEIC
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1
1447 PRESDRZ
1449 # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
1473 0.000000E+00
1474 0.250000E+00
1475 0.200000E+00
1476 PRESDRZ
1478 NBORERESET
1479 0
1480 # LAMBDA SOR SGR
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1
1488 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
1519 39 7.000000E-01 0.000000E+00 0.000000E+00
1520 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1
1527 # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
1559 39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1560 # PERMX PERMY PERMZ POROSITY COMPRES
*****
```

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1
1566 FRACTURE MODEL DATA TO FOLLOW :T OR F

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
1599 39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1600 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1601 1.000000E-02 1.000000E-03
1602 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1603 0
1604 FRACTURE MODEL DATA TO FOLLOW :T OR F

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1

1620 0.0000E+00 2.4937E-06
1621 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1622 0.0000E+00 1.0000E-01
1623 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5])/6
1624 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1625 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
1626 1.2226E+00 1.5549E+00 1.0000E+00
1627 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
1628 8.2160E-02 0.0000E+00 1.0000E+00
1629 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1630 0.0000E+00 T 1.0000E+03
1631 CREEP CLOSURE?

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1

1658 0.0000E+00 2.4937E-06 F
1659 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1660 0.0000E+00 1.0000E-01
1661 RATE CONSTANTS: BRUCITEI AND BRUCITEH
1662 0.0000E+00 0.0000E+00
1663 RATE COEFFICIENTS: RXH2S AND RXCO2
1664 8.2160E-02 0.0000E+00
1665 8.2160E-02 0.0000E+00
1666 CHEMISTRY CUTOFF SATURATION: SOCMIN
1667 0.0000E+00
1668 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, Fe, [C6-H10-O5])/6
1669 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1670 REACTANT/PRODUCT MOLECULAR WEIGHTS (Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
1671 8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
1672 S_H2, S_H2O, S_Fe, S_Bio, S_FeOH2, S_FeS, S_MgO, S_MgOH2, S_MgCO3
1673 1.2226E+00 -1.5549E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1674 0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1675 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1676 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1677 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1678 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1679 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1680 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5])/6
1681 7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
1682 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
1683 3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
1684 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1685 0.0000E+00 T F 1.0000E+03
1686 CREEP CLOSURE?

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1

1635 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
1636 4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
1637 NUMBER OF MATERIAL REGIONS FOR CLOSURE

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1

1690 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
1691 4 1.4800E+07 3.1557E+12 1 F
1692 MODPERM PARAMETERS
1693 5.5847E-12 0.0000E+00
1694 NUMBER OF MATERIAL REGIONS FOR CLOSURE

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

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-


```
1149 DSATLIM, DPRESLIM, SATLIMIT
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
1210 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1211 11 11 11 11 11
1212 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1213 11 11 11 11 11
1214 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1215 11 11 11 11 11
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
1232 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1233 11 11 11 11 11
1234 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1235 11 11 11 11 11
1236 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1237 11 11 11 11 11
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
1426 NWST
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
1448 39 CAVITY_5
1449 NWST
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
1434 4
1435 MATRESET
1436 7 8 9 10
1437 BORE HOLE MATERIAL NUMBER
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
1457 5
1458 MATRESET
1459 7 8 9 10 39
1460 BORE HOLE MATERIAL NUMBER
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
1444 SOWASTEIC
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
1467 1.013250E+05
1468 1.013250E+05
1469 1.013250E+05
1470 SOWASTEIC
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
1447 PRESDRZ
1449 # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
1473 0.000000E+00
1474 0.250000E+00
1475 0.200000E+00
1476 PRESDRZ
1478 NBORERESET
1479 0
1480 # LAMBDA SOR SGR
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
1488 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
1519 39 7.000000E-01 0.000000E+00 0.000000E+00
1520 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
1527 # PERMX PERMY PERMZ POROSITY COMPRES
*****
```

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
1559 39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1560 # PERMX PERMY PERMZ POROSITY COMPRES
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
1566 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
1599 39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1600 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS I1 & I2
1601 1.000000E-02 1.000000E-03
1602 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1603 0
1604 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
1620 2.1510E-08 0.0000E+00
1621 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1622 0.0000E+00 0.0000E+00
1623 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6)
1624 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1625 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
1626 1.1327E+00 1.7346E+00 1.0000E+00
1627 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
1628 1.4290E-01 0.0000E+00 1.0000E+00
1629 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1630 0.0000E+00 T 1.0000E+03
1631 CREEP CLOSURE?
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
1658 2.1510E-08 0.0000E+00 F
1659 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1660 0.0000E+00 0.0000E+00
1661 RATE CONSTANTS: BRUCITEI AND BRUCITEH
1662 0.0000E+00 0.0000E+00
1663 RATE COEFFICIENTS: RXH2S AND RXCO2
1664 1.4290E-01 0.0000E+00
1665 1.4290E-01 0.0000E+00
1666 CHEMISTRY CUTOFF SATURATION: SOCMIN
1667 0.0000E+00
1668 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
1669 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1670 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
1671 8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
1672 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1673 1.1327E+00 -1.7346E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1674 0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1675 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1676 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1677 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1678 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1679 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1680 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
1681 7.8700E+03 3.4000E+03 4.7000E+03 1.1000E+03
1682 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
1683 3.6000E+03 2.3700E+03 3.0500E+03 2.1700E+03
1684 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1685 0.0000E+00 T F 1.0000E+03
1686 CREEP CLOSURE?
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
1635 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
1636 4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
1637 NUMBER OF MATERIAL REGIONS FOR CLOSURE
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
1690 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
1691 4 1.4800E+07 3.1557E+12 1 F
1692 MODPERM PARAMETERS
1693 5.5847E-12 0.0000E+00
1694 NUMBER OF MATERIAL REGIONS FOR CLOSURE
*****
```



```
1145 31*0.000000E+00
1146 31*0.000000E+00
1147 31*0.000000E+00
1148 31*0.000000E+00
1149 DSATLIM, DPRESLIM, SATLIMIT
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
1210 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1211 11 11 11 11 11
1212 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1213 11 11 11 11 11
1214 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
1215 11 11 11 11 11
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
1232 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1233 11 11 11 11 11
1234 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1235 11 11 11 11 11
1236 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
1237 11 11 11 11 11
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
1426 NWST
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
1448 39 CAVITY_5
1449 NWST
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
1434 4
1435 MATRESET
1436 7 8 9 10
1437 BORE HOLE MATERIAL NUMBER
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
1457 5
1458 MATRESET
1459 7 8 9 10 39
1460 BORE HOLE MATERIAL NUMBER
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
1444 SOWASTEIC
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
1467 1.013250E+05
1468 1.013250E+05
1469 1.013250E+05
1470 SOWASTEIC
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
1447 PRES DRZ
1449 # LAMBDA SOR SGR
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
1473 0.000000E+00
1474 0.250000E+00
1475 0.200000E+00
1476 PRES DRZ
1478 NBORERESET
1479 0
1480 # LAMBDA SOR SGR
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
1488 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
1519 39 7.000000E-01 0.000000E+00 0.000000E+00
1520 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
```

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
1527 # PERMX PERMY PERMZ POROSITY COMPRES

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
1559 39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1560 # PERMX PERMY PERMZ POROSITY COMPRES

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
1566 FRACTURE MODEL DATA TO FOLLOW :T OR F

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
1599 39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1600 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1601 1.000000E-02 1.000000E-03
1602 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1603 0
1604 FRACTURE MODEL DATA TO FOLLOW :T OR F

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
1620 0.0000E+00 1.2085E-07
1621 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1622 0.0000E+00 1.0000E-01
1623 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
1624 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1625 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
1626 1.1560E+00 1.6880E+00 1.0000E+00
1627 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
1628 5.3320E-01 0.0000E+00 1.0000E+00
1629 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1630 0.0000E+00 T 1.0000E+03
1631 CREEP CLOSURE?

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
1658 0.0000E+00 1.2085E-07 F
1659 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1660 0.0000E+00 1.0000E-01
1661 RATE CONSTANTS: BRUCITEI AND BRUCITEH
1662 0.0000E+00 0.0000E+00
1663 RATE COEFFICIENTS: RXH2S AND RXCO2
1664 5.3320E-01 0.0000E+00
1665 5.3320E-01 0.0000E+00
1666 CHEMISTRY CUTOFF SATURATION: SOCMIN
1667 0.0000E+00
1668 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
1669 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1670 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
1671 8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
1672 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1673 1.1560E+00 -1.6880E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1674 0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1675 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1676 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1677 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1678 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1679 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1680 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
1681 7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
1682 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
1683 3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
1684 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1685 0.0000E+00 T F 1.0000E+03
1686 CREEP CLOSURE?

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
1635 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
1636 4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
1637 NUMBER OF MATERIAL REGIONS FOR CLOSURE

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
1690 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
1691 4 1.4800E+07 3.1557E+12 1 F
1692 MODPERM PARAMETERS

1693 5.5847E-12 0.0000E+00
1694 NUMBER OF MATERIAL REGIONS FOR CLOSURE

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

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

BF2_QB0600_ES47_TEST7_V018_INP.DIF

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_TEST7_R018_QA0500.INP;1
28 1 1 0 0 0 1 0
29 0
30
31 0
32 0 0 0 0 0 0
33 0 0
34 0 0
35 0 0
36 BINARY PRINT FLAGS
37 1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
38 0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 1 1
39 0
40
41 0 0 0 0 0 0
42 0 0
43 0 0
44 0 0
45 HISTORY VARIABLE OUTPUT

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;1
28 1 1 0 0 0 1 0
29 0
30 0 0 0 0 0 0 1 1 0
31 0
32 0 0 0 0 0 0
33 BINARY PRINT FLAGS
34 1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
35 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
36 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
37 0
38 0 0 0 0 0 0
39 HISTORY VARIABLE OUTPUT

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_TEST7_R018_QA0500.INP;1
1127 DSATLIM, DPRESLIM, SATLIMIT

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;1
1121 GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
1122 31*0.000000E+00
1123 31*0.000000E+00
1124 31*0.000000E+00
1125 31*0.000000E+00
1126 31*0.000000E+00
1127 31*0.000000E+00
1128 31*0.000000E+00
1129 31*0.000000E+00
1130 31*0.000000E+00
1131 31*0.000000E+00
1132 31*0.000000E+00
1133 31*0.000000E+00
1134 31*0.000000E+00
1135 31*0.000000E+00
1136 31*0.000000E+00
1137 31*0.000000E+00
1138 31*0.000000E+00
1139 31*0.000000E+00
1140 31*0.000000E+00


```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;1
1519 39 7.000000E-01 0.000000E+00 0.000000E+00
1520 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_TEST7_R018_QA0500.INP;1
1527 # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;1
1559 39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1560 # PERMX PERMY PERMZ POROSITY COMPRES
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_TEST7_R018_QA0500.INP;1
1566 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;1
1599 39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1600 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1601 1.000000E-02 1.000000E-03
1602 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1603 0
1604 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_TEST7_R018_QA0500.INP;1
1620 1.2897E-06 0.0000E+00
1621 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1622 4.9079E-04 0.0000E+00
1623 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
1624 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1625 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
1626 1.2638E+00 1.4724E+00 1.0000E+00
1627 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
1628 9.8660E-01 0.0000E+00 1.0000E+00
1629 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1630 0.0000E+00 T 1.0000E+03
1631 CREEP CLOSURE?
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;1
1658 1.2897E-06 0.0000E+00 F
1659 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1660 4.9079E-04 0.0000E+00
1661 RATE CONSTANTS: BRUCITEI AND BRUCITEH
1662 0.0000E+00 0.0000E+00
1663 RATE COEFFICIENTS: RXH2S AND RXCO2
1664 9.8660E-01 0.0000E+00
1665 9.8660E-01 0.0000E+00
1666 CHEMISTRY CUTOFF SATURATION: SOCMIN
1667 0.0000E+00
1668 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
1669 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1670 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
1671 8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
1672 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1673 1.2638E+00 -1.4724E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1674 0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1675 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1676 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1677 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1678 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1679 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1680 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
1681 7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
1682 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
1683 3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
1684 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1685 0.0000E+00 T F 1.0000E+03
1686 CREEP CLOSURE?
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_TEST7_R018_QA0500.INP;1
1635 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
1636 4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
1637 NUMBER OF MATERIAL REGIONS FOR CLOSURE
*****
```



```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_TEST7_R019_QA0500.INP;1
1488 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;1
1519 39 7.000000E-01 0.000000E+00 0.000000E+00
1520 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_TEST7_R019_QA0500.INP;1
1527 # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;1
1559 39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1560 # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_TEST7_R019_QA0500.INP;1
1566 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;1
1599 39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1600 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1601 1.000000E-02 1.000000E-03
1602 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1603 0
1604 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_TEST7_R019_QA0500.INP;1
1620 0.0000E+00 4.7213E-07
1621 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1622 0.0000E+00 1.0000E-01
1623 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
1624 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1625 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
1626 1.1120E+00 1.7759E+00 1.0000E+00
1627 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
1628 6.0990E-01 0.0000E+00 1.0000E+00
1629 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1630 0.0000E+00 T 1.0000E+03
1631 CREEP CLOSURE?
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;1
1658 0.0000E+00 4.7213E-07 F
1659 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1660 0.0000E+00 1.0000E-01
1661 RATE CONSTANTS: BRUCITEI AND BRUCITEH
1662 0.0000E+00 0.0000E+00
1663 RATE COEFFICIENTS: RXH2S AND RXCO2
1664 6.0990E-01 0.0000E+00
1665 6.0990E-01 0.0000E+00
1666 CHEMISTRY CUTOFF SATURATION: SOCMIN
1667 0.0000E+00
1668 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, Fe, [C6-H10-O5]/6)
1669 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1670 REACTANT/PRODUCT MOLECULAR WEIGHTS (Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
1671 8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
1672 S_H2, S_H2O, S_Fe, S_Bio, S_FeOH2, S_FeS, S_MgO, S_MgOH2, S_MgCO3
1673 1.1120E+00 -1.7759E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1674 0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1675 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1676 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1677 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1678 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1679 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1680 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
1681 7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
1682 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
1683 3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
1684 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1685 0.0000E+00 T F 1.0000E+03
1686 CREEP CLOSURE?
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_TEST7_R019_QA0500.INP;1
```

1635 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
1636 4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
1637 NUMBER OF MATERIAL REGIONS FOR CLOSURE

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;1

1690 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
1691 4 1.4800E+07 3.1557E+12 1 F
1692 MODPERM PARAMETERS
1693 5.5847E-12 0.0000E+00
1694 NUMBER OF MATERIAL REGIONS FOR CLOSURE

Number of difference sections found: 12

Number of difference records found: 102

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

BF2_QB0600_ES47_TEST7_V020_INP.DIF

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1

28 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
29 0 1 1
30
31 0
32 0 0 0 0 0 0 0
33 0 0
34 0 0
35 0 0
36 BINARY PRINT FLAGS
37 1 1 0 0 0 1 0 0 0 0 1 1 0 0 1 0 0 0 0 1 0 1 0 0 0 0
38 0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 1 0 0 1 1
39 0
40
41 0 0 0 0 0 0
42 0 0
43 0 0
44 0 0
45 HISTORY VARIABLE OUTPUT

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1

28 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
29 0
30 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
31 0
32 0 0 0 0 0 0 0
33 BINARY PRINT FLAGS
34 1 1 0 0 0 1 0 0 0 0 1 1 0 0 1 0 0 0 0 1 0 1 0 0 0 0
35 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
36 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
37 0
38 0 0 0 0 0 0 0
39 HISTORY VARIABLE OUTPUT

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1

1127 DSATLIM, DPRESLIM, SATLIMIT

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1

1121 GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
1122 31*0.000000E+00
1123 31*0.000000E+00
1124 31*0.000000E+00
1125 31*0.000000E+00
1126 31*0.000000E+00
1127 31*0.000000E+00
1128 31*0.000000E+00
1129 31*0.000000E+00
1130 31*0.000000E+00
1131 31*0.000000E+00
1132 31*0.000000E+00


```
1478 NBORERESET
1479 0
1480 # LAMBDA SOR SGR
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1
1488 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1
1519 39 7.000000E-01 0.000000E+00 0.000000E+00
1520 # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1
1527 # PERMX PERMY PERMZ POROSITY COMPRES
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1
1559 39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1560 # PERMX PERMY PERMZ POROSITY COMPRES
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1
1566 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1
1599 39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1600 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1601 1.000000E-02 1.000000E-03
1602 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1603 0
1604 FRACTURE MODEL DATA TO FOLLOW :T OR F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1
1620 0.0000E+00 2.0338E-06
1621 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1622 0.0000E+00 1.8880E-01
1623 REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5])/6
1624 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1625 SCOR_H2=a, SCOR_H2O=b, SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
1626 1.3316E+00 1.3368E+00 1.0000E+00
1627 SBIO_GAS=a, SBIO_H2O=b, SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
1628 3.3970E-01 0.0000E+00 1.0000E+00
1629 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1630 0.0000E+00 T 1.0000E+03
1631 CREEP CLOSURE?
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1
1658 0.0000E+00 2.0338E-06 F
1659 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1660 0.0000E+00 1.8880E-01
1661 RATE CONSTANTS: BRUCITEI AND BRUCITEH
1662 0.0000E+00 0.0000E+00
1663 RATE COEFFICIENTS: RXH2S AND RXCO2
1664 3.3970E-01 0.0000E+00
1665 3.3970E-01 0.0000E+00
1666 CHEMISTRY CUTOFF SATURATION: SOCMIN
1667 0.0000E+00
1668 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5])/6)
1669 2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1670 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
1671 8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
1672 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1673 1.3316E+00 -1.3368E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1674 0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1675 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1676 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1677 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1678 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1679 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
1680 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5])/6)
1681 7.8700E+03 3.4000E+03 4.7000E+03 1.1000E+03
1682 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
1683 3.6000E+03 2.3700E+03 3.0500E+03 2.1700E+03
1684 WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1685 0.0000E+00 T F 1.0000E+03
```

```
1686 CREEP CLOSURE?
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1
1635 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
1636 4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
1637 NUMBER OF MATERIAL REGIONS FOR CLOSURE
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1
1690 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
1691 4 1.4800E+07 3.1557E+12 1 F
1692 MODPERM PARAMETERS
1693 5.5847E-12 0.0000E+00
1694 NUMBER OF MATERIAL REGIONS FOR CLOSURE
*****
```

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

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

A.7.4 Test Case 7: Output Difference File, BF2_QB0600_ES47_TEST7_Vnnn_OUT.DIF (where nnn = 1 to 20)

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

BF2_QB0600_ES47_TEST7_V001_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
2  ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3  ** Begun on: 02/14/07 at 09:38:50 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
2  ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3  ** Begun on: 05/18/06 at 10:22:00 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;2
62 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R001]BF2_TEST7_R001_QA0500.INP;1
62 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_CLOSURE.DAT;1
67 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R001]BF2_CLOSURE.DAT;1
67 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
72 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
72 ****
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*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.SUM;1
 77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
 76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R001]BF2_VMS82_V500_ES47_TEST7_R001.SUM;1
 77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.BIN;1
 82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
 81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R001]BF2_VMS82_V500_ES47_TEST7_R001.BIN;1
 82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.ROT;1
 87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
 86 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R001]BF2_VMS82_V500_ES47_TEST7_R001.ROT;1
 87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 195 43 0 0 RKNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
 196 44 0 0 RKNR(I,J,K,6) Fe sulfidation rate mol/s
 197 45 0 0 RKNR(I,J,K,7) MgO hydration rate mol/s
 198 46 0 0 RKNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
 199 47 0 0 RKNR(I,J,K,9) MgO carbonation rate mol/s
 200 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
 201 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
 202 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
 203 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
 204 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
 205 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
 206 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
 207 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
 208 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
 209 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
 210 58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
 211 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
 212 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
 213 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
 214 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
 215 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
 216 64 0 0 CONCST Salt concentration -- simple model kg/m^3
 217 65 0 0 POROLID Volume fraction of generated solids dimensionless
 218 66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
 219 67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
 220 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
 221 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
 222 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
 223 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
 224 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
 225 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
 226 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
 227 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
 228 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
 229 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
 230 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
 231 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
 232 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
 233 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
 234 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
 235 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
 236 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
 237 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
```

238 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241 89 0 0 CONCRXN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
247 95 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
248 96 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249 97 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264 112 0 0 H2OFLOWIN Water inflow rate kg/s
265 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271 119 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
272 120 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg
273 121 0 0 B_CONC(1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274 122 0 0 B_CONC(1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275 123 0 0 S_MASS(1,1) Solid mass of isotope 1 from Waste Region 1 kg
276 124 0 0 S_MASS(1,2) Solid mass of isotope 1 from Waste Region 2 kg
278

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
195 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200 48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201 49 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 50 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 51 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204 52 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205 53 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206 54 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207 55 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208 56 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209 57 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
216 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
217 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
218 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)

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223 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
224 72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
225 73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
226 74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
227 75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
228 76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
229 77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
230 78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
231 79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
232 80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
233 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
234 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
235 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
236 84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
237 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
238 86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
239 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
240 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
241 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
247 95 0 0 H2OFLOWIN Water inflow rate kg/s
248 96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
249 97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
250 98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
251 99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
252 100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
253 101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
254 102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
255 103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
256 104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
257 105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
258 106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
259 107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
261
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
711 25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
712 26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
713 27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
714 -----
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*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
694 25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
695 26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
696 27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
697 -----
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*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
844 39 CAVITY_5
846 Special material index numbers:
*****
```

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
828 Special material index numbers:
*****
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
860 where IC's will be reset (NMATRESET) = 5
861 Material type indexes of material regions
862 where IC's will be reset (MATRESET) = 7 8 9 10 39
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864 Borehole matl index number (MAT_BOREHOLE) = 0
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
842 where IC's will be reset (NMATRESET) = 4
843 Material type indexes of material regions
844 where IC's will be reset (MATRESET) = 7 8 9 10
846 Borehole matl index number (MAT_BOREHOLE) = 0
*****
*****
```

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
869 instead of Input IC's for the Cavities
870 [0=No, 1=Yes] (ICWASTE) = 1
872 Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
873 Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
874 Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
875 Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
876 Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
877 Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
878 Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
879 Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
880 Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
881 Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
883
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*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
851 instead of Input IC's for the Waste
852 [0=No, 1=Yes] (ICWASTE) = 1
854 Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
855 Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
856 Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
857 Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
859
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*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
949 39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
950 TOL = 1.0000E-02
951 SOCEFFMIN = 1.0000E-03
953 Fracture model will be used? (KRACTURE): T
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
926 Fracture model will be used? (KRACTURE): T
*****
*****
```

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
1086 Intrinsic reaction rate constants? (LINTRIN): F
1088 Reaction rate constants (RK):
*****
```

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
1059 Reaction rate constants (RK):
*****
*****
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
1096 MgO hydration reaction rate constants:
1097 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100 Gas generation factors for biodegradation reaction:
1101 Waste Area # 1
1102 H2/H2S production (RXH2S) = 2.611000E-01
1103 CO2 production (RXCO2) = 0.000000E+00
1105 Gas generation factors for biodegradation reaction:
1106 Waste Area # 2
1107 H2/H2S production (RXH2S) = 2.611000E-01
1108 CO2 production (RXCO2) = 0.000000E+00
1110 Saturation cutoff value (SOCMIN): 0.000000E+00
1112 Stoichiometric coeff's for Rxn 1:
1113 H2 coefficient = 1.297000E+00
1114 H2O coefficient = -1.406100E+00
1115 Fe coefficient = -1.000000E+00
1116 Bio coefficient = 0.000000E+00
```

1117 Fe(OH)2 coefficient = 0.000000E+00
1118 FeS coefficient = 0.000000E+00
1119 MgO coefficient = 0.000000E+00
1120 Mg(OH)2 coefficient = 0.000000E+00
1121 MgCO3 coefficient = 0.000000E+00
1123 Stoichiometric coeff's for Rxn 2:
1124 H2 coefficient = 2.611000E-01
1125 H2O coefficient = 0.000000E+00
1126 Fe coefficient = 0.000000E+00
1127 Bio coefficient = -1.000000E+00
1128 Fe(OH)2 coefficient = 0.000000E+00
1129 FeS coefficient = 0.000000E+00
1130 MgO coefficient = 0.000000E+00
1131 Mg(OH)2 coefficient = 0.000000E+00
1132 MgCO3 coefficient = 0.000000E+00
1134 Stoichiometric coeff's for Rxn 3:
1135 H2 coefficient = 0.000000E+00
1136 H2O coefficient = 0.000000E+00
1137 Fe coefficient = 0.000000E+00
1138 Bio coefficient = 0.000000E+00
1139 Fe(OH)2 coefficient = 0.000000E+00
1140 FeS coefficient = 0.000000E+00
1141 MgO coefficient = 0.000000E+00
1142 Mg(OH)2 coefficient = 0.000000E+00
1143 MgCO3 coefficient = 0.000000E+00
1145 Stoichiometric coeff's for Rxn 4:
1146 H2 coefficient = 0.000000E+00
1147 H2O coefficient = 0.000000E+00
1148 Fe coefficient = 0.000000E+00
1149 Bio coefficient = 0.000000E+00
1150 Fe(OH)2 coefficient = 0.000000E+00
1151 FeS coefficient = 0.000000E+00
1152 MgO coefficient = 0.000000E+00
1153 Mg(OH)2 coefficient = 0.000000E+00
1154 MgCO3 coefficient = 0.000000E+00
1156 Stoichiometric coeff's for Rxn 5:
1157 H2 coefficient = 0.000000E+00
1158 H2O coefficient = 0.000000E+00
1159 Fe coefficient = 0.000000E+00
1160 Bio coefficient = 0.000000E+00
1161 Fe(OH)2 coefficient = 0.000000E+00
1162 FeS coefficient = 0.000000E+00
1163 MgO coefficient = 0.000000E+00
1164 Mg(OH)2 coefficient = 0.000000E+00
1165 MgCO3 coefficient = 0.000000E+00
1167 Stoichiometric coeff's for Rxn 6:
1168 H2 coefficient = 0.000000E+00
1169 H2O coefficient = 0.000000E+00
1170 Fe coefficient = 0.000000E+00
1171 Bio coefficient = 0.000000E+00
1172 Fe(OH)2 coefficient = 0.000000E+00
1173 FeS coefficient = 0.000000E+00
1174 MgO coefficient = 0.000000E+00
1175 Mg(OH)2 coefficient = 0.000000E+00
1176 MgCO3 coefficient = 0.000000E+00
1178 Stoichiometric coeff's for Rxn 7:
1179 H2 coefficient = 0.000000E+00
1180 H2O coefficient = 0.000000E+00
1181 Fe coefficient = 0.000000E+00
1182 Bio coefficient = 0.000000E+00
1183 Fe(OH)2 coefficient = 0.000000E+00
1184 FeS coefficient = 0.000000E+00
1185 MgO coefficient = 0.000000E+00
1186 Mg(OH)2 coefficient = 0.000000E+00
1187 MgCO3 coefficient = 0.000000E+00
1189 Wicking term (SATWICK) = 0.000000E+00
1190 Humid rates to be smoothed? (LARKN) = T
1191 Concentration rates to be smoothed? (LARKN2) = F
1192 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1194 Molecular weights (WM):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
1067 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068 Gas coefficient = 1.297000E+00
1069 H2O coefficient = 1.406100E+00
1070 Fe coefficient = 1.000000E+00
1072 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073 Gas coefficient = 2.611000E-01
1074 H2O coefficient = 0.000000E+00
1075 Bio coefficient = 1.000000E+00
1077 Molecular weights (WM):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
1200 **Molecular weights (WM):**
1201 **Fe(OH)2: 8.9862E-02 kg/mol**
1202 **FeS: 8.7900E-02 kg/mol**
1203 **MgO: 4.0304E-02 kg/mol**
1204 **Mg(OH)2: 5.8320E-02 kg/mol**
1205 **MgCO3: 8.4314E-02 kg/mol**
1207 **Densities (DEN(1-4)):**
1208 **Fe: 7.8700E+03 kg/m3**
1209 **Fe(OH)2: 3.4000E+03 kg/m3**
1210 **FeS: 4.7000E+03 kg/m3**
1211 **Bio: 1.1000E+03 kg/m3**
1213 **Densities (DEN(5-8)):**
1214 **MgO: 3.6000E+03 kg/m3**
1215 **Mg(OH)2: 2.3700E+03 kg/m3**
1216 **MgCO3: 3.0500E+03 kg/m3**
1217 **SALT: 2.1700E+03 kg/m3**
1219 Will creep closure be used (CLOSURE): T

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
1083 Wicking term (SATWICK) = 0.000000E+00
1084 Humid rates to be smoothed? (LARXN) = T
1085 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1087 Will creep closure be used (CLOSURE): T

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
1233 **PHIUPPER = Upper porosity limit in permeability-porosity expression**
1234 **PHILOWER = Lower porosity limit in permeability-porosity expression**
1235 **Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]**
1236 **Refer to the Closure LOOK-UP TABLE DATA FILE for values**
1237 **4 1.480000E+07 3.155700E+12 1 F**
1238 **MODPERM Parameters**
1239 **Model Number (CLOSPERMFAC) [m^2] (CLOSPERMEXP) [-]**
1240 **4 5.584700E-12 0.000000E+00**
1242 Number of materials using closure (NMATCLOS) = 2

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
1101 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFAC) [m^2] (CLOSPERMEXP) [-]
1102 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1103 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105 Number of materials using closure (NMATCLOS) = 2

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
1260 ***** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00**
1263 ***** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00**
1266 ***** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00**
1269 ***** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01**
1272 ***** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01**
1276

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
1123 ***** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00**
1126 ***** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00**
1130

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
1300 57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1301 58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1303 CAMCON Global Variable Units Conv

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
1154 47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1155 48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1157 CAMCON Global Variable Units Conv

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 28.78 sec = 0.00799 hr
1774 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
1626 CPU Time (this time step) = 0.12 sec = 0.00003 hr
1627 CPU Time (total for run) = 25.62 sec = 0.00712 hr
1628 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
2450 Date: 02/14/07 Time: 09:39:19 CPU Time: 0 0: 0:28.80 (28.80 sec) ASCII
2452 Time Step No. = 163 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:39:19 CPU Time: 0 0: 0:28.80 (28.80 sec) Binary
2455 Time Step No. = 180 Elapsed Time = 2.119576E-04 days
2456 Date: 02/14/07 Time: 09:39:22 CPU Time: 0 0: 0:32.42 (32.42 sec) Binary
2458 Time Step No. = 200 Elapsed Time = 1.880303E-02 days
2459 Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:35.33 (35.33 sec) Binary
2461 Time Step No. = 220 Elapsed Time = 1.631321E+00 days
2462 Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:38.45 (38.45 sec) Binary
2464 Time Step No. = 240 Elapsed Time = 2.774403E+01 days
2465 Date: 02/14/07 Time: 09:39:32 CPU Time: 0 0: 0:41.89 (41.89 sec) Binary
2467 Time Step No. = 260 Elapsed Time = 4.892922E+02 days
2468 Date: 02/14/07 Time: 09:39:36 CPU Time: 0 0: 0:46.37 (46.37 sec) Binary
2470 Time Step No. = 280 Elapsed Time = 4.026427E+03 days
2471 Date: 02/14/07 Time: 09:39:42 CPU Time: 0 0: 0:52.49 (52.49 sec) Binary
2473 Time Step No. = 300 Elapsed Time = 1.166868E+04 days
2474 Date: 02/14/07 Time: 09:39:50 CPU Time: 0 0: 0:59.93 (59.93 sec) Binary
2476 Time Step No. = 320 Elapsed Time = 2.296322E+04 days
2477 Date: 02/14/07 Time: 09:39:56 CPU Time: 0 0: 1: 6.17 (66.17 sec) Binary
2479 Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2480 Date: 02/14/07 Time: 09:40:09 CPU Time: 0 0: 1:18.93 (78.93 sec) Binary
2482 Time Step No. = 360 Elapsed Time = 3.652431E+04 days
2483 Date: 02/14/07 Time: 09:40:12 CPU Time: 0 0: 1:21.71 (81.71 sec) Binary
2485 Time Step No. = 380 Elapsed Time = 3.652431E+04 days
2486 Date: 02/14/07 Time: 09:40:14 CPU Time: 0 0: 1:24.68 (84.68 sec) Binary
2488 Time Step No. = 400 Elapsed Time = 3.652443E+04 days
2489 Date: 02/14/07 Time: 09:40:18 CPU Time: 0 0: 1:27.96 (87.96 sec) Binary
2491 Time Step No. = 420 Elapsed Time = 3.653512E+04 days
2492 Date: 02/14/07 Time: 09:40:21 CPU Time: 0 0: 1:30.92 (90.92 sec) Binary
2494 Time Step No. = 440 Elapsed Time = 3.668108E+04 days
2495 Date: 02/14/07 Time: 09:40:24 CPU Time: 0 0: 1:34.09 (94.09 sec) Binary
2497 Time Step No. = 460 Elapsed Time = 3.670152E+04 days
2498 Date: 02/14/07 Time: 09:40:26 CPU Time: 0 0: 1:36.32 (96.32 sec) Binary
2500 Time Step No. = 480 Elapsed Time = 3.726604E+04 days
2501 Date: 02/14/07 Time: 09:40:31 CPU Time: 0 0: 1:40.74 (100.74 sec) Binary
2503 Time Step No. = 500 Elapsed Time = 3.912333E+04 days
2504 Date: 02/14/07 Time: 09:40:38 CPU Time: 0 0: 1:48.09 (108.09 sec) Binary
2506 Time Step No. = 520 Elapsed Time = 7.687584E+04 days
2507 Date: 02/14/07 Time: 09:40:45 CPU Time: 0 0: 1:55.62 (115.62 sec) Binary
2509 Time Step No. = 540 Elapsed Time = 1.534551E+05 days
2510 Date: 02/14/07 Time: 09:40:55 CPU Time: 0 0: 2: 4.66 (124.66 sec) Binary
2512 Time Step No. = 560 Elapsed Time = 3.652432E+05 days
2513 Date: 02/14/07 Time: 09:41:04 CPU Time: 0 0: 2:13.73 (133.73 sec) Binary
2515 Time Step No. = 580 Elapsed Time = 3.652461E+05 days
2516 Date: 02/14/07 Time: 09:41:07 CPU Time: 0 0: 2:17.44 (137.44 sec) Binary
2518 Time Step No. = 600 Elapsed Time = 3.653145E+05 days
2519 Date: 02/14/07 Time: 09:41:13 CPU Time: 0 0: 2:22.90 (142.90 sec) Binary
2521 Time Step No. = 620 Elapsed Time = 3.663770E+05 days
2522 Date: 02/14/07 Time: 09:41:21 CPU Time: 0 0: 2:31.20 (151.20 sec) Binary
2524 Time Step No. = 640 Elapsed Time = 3.665294E+05 days

2525 Date: 02/14/07 Time: 09:41:24 CPU Time: 0 0: 2:33.91 (153.91 sec) Binary
2527 Time Step No. = 660 Elapsed Time = 3.667198E+05 days
2528 Date: 02/14/07 Time: 09:41:27 CPU Time: 0 0: 2:37.38 (157.38 sec) Binary
2530 Time Step No. = 680 Elapsed Time = 3.694667E+05 days
2531 Date: 02/14/07 Time: 09:41:35 CPU Time: 0 0: 2:45.12 (165.12 sec) Binary
2533 Time Step No. = 700 Elapsed Time = 3.697358E+05 days
2534 Date: 02/14/07 Time: 09:41:39 CPU Time: 0 0: 2:49.47 (169.47 sec) Binary
2536 Time Step No. = 720 Elapsed Time = 3.733002E+05 days
2537 Date: 02/14/07 Time: 09:41:47 CPU Time: 0 0: 2:56.71 (176.71 sec) Binary
2539 Time Step No. = 740 Elapsed Time = 3.764582E+05 days
2540 Date: 02/14/07 Time: 09:41:58 CPU Time: 0 0: 3: 7.76 (187.76 sec) Binary
2542 Time Step No. = 760 Elapsed Time = 3.766434E+05 days
2543 Date: 02/14/07 Time: 09:42:06 CPU Time: 0 0: 3:15.69 (195.69 sec) Binary
2545 Time Step No. = 780 Elapsed Time = 3.768308E+05 days
2546 Date: 02/14/07 Time: 09:42:12 CPU Time: 0 0: 3:21.79 (201.79 sec) Binary
2548 Time Step No. = 800 Elapsed Time = 3.769094E+05 days
2549 Date: 02/14/07 Time: 09:42:15 CPU Time: 0 0: 3:25.09 (205.09 sec) Binary
2551 Time Step No. = 820 Elapsed Time = 3.804952E+05 days
2552 Date: 02/14/07 Time: 09:42:24 CPU Time: 0 0: 3:33.60 (213.60 sec) Binary
2554 Time Step No. = 840 Elapsed Time = 3.807620E+05 days
2555 Date: 02/14/07 Time: 09:42:30 CPU Time: 0 0: 3:40.40 (220.40 sec) Binary
2557 Time Step No. = 860 Elapsed Time = 3.823931E+05 days
2558 Date: 02/14/07 Time: 09:42:39 CPU Time: 0 0: 3:49.17 (229.17 sec) Binary
2560 Time Step No. = 880 Elapsed Time = 3.824076E+05 days
2561 Date: 02/14/07 Time: 09:42:46 CPU Time: 0 0: 3:55.48 (235.48 sec) Binary
2563 Time Step No. = 900 Elapsed Time = 3.825485E+05 days
2564 Date: 02/14/07 Time: 09:42:53 CPU Time: 0 0: 4: 2.64 (242.64 sec) Binary
2566 Time Step No. = 920 Elapsed Time = 3.826760E+05 days
2567 Date: 02/14/07 Time: 09:42:57 CPU Time: 0 0: 4: 6.78 (246.78 sec) Binary
2569 Time Step No. = 940 Elapsed Time = 3.853540E+05 days
2570 Date: 02/14/07 Time: 09:43:05 CPU Time: 0 0: 4:15.03 (255.03 sec) Binary
2572 Time Step No. = 960 Elapsed Time = 3.854180E+05 days
2573 Date: 02/14/07 Time: 09:43:11 CPU Time: 0 0: 4:20.82 (260.82 sec) Binary
2575 Time Step No. = 980 Elapsed Time = 3.854555E+05 days
2576 Date: 02/14/07 Time: 09:43:17 CPU Time: 0 0: 4:26.54 (266.54 sec) Binary
2578 Time Step No. = 1000 Elapsed Time = 3.865421E+05 days
2579 Date: 02/14/07 Time: 09:43:21 CPU Time: 0 0: 4:31.04 (271.04 sec) Binary
2581 Time Step No. = 1020 Elapsed Time = 3.977998E+05 days
2582 Date: 02/14/07 Time: 09:43:29 CPU Time: 0 0: 4:39.14 (279.14 sec) Binary
2584 Time Step No. = 1040 Elapsed Time = 4.072582E+05 days
2585 Date: 02/14/07 Time: 09:43:38 CPU Time: 0 0: 4:47.84 (287.84 sec) Binary
2587 Time Step No. = 1060 Elapsed Time = 4.135174E+05 days
2588 Date: 02/14/07 Time: 09:43:45 CPU Time: 0 0: 4:54.49 (294.49 sec) Binary
2590 Time Step No. = 1080 Elapsed Time = 4.195838E+05 days
2591 Date: 02/14/07 Time: 09:43:51 CPU Time: 0 0: 5: 1.09 (301.09 sec) Binary
2593 Time Step No. = 1100 Elapsed Time = 4.376889E+05 days
2594 Date: 02/14/07 Time: 09:44:00 CPU Time: 0 0: 5: 9.65 (309.65 sec) Binary
2596 Time Step No. = 1120 Elapsed Time = 4.384404E+05 days
2597 Date: 02/14/07 Time: 09:44:06 CPU Time: 0 0: 5:15.44 (315.44 sec) Binary
2599 Time Step No. = 1140 Elapsed Time = 4.447569E+05 days
2600 Date: 02/14/07 Time: 09:44:11 CPU Time: 0 0: 5:21.08 (321.08 sec) Binary
2602 Time Step No. = 1160 Elapsed Time = 4.559149E+05 days
2603 Date: 02/14/07 Time: 09:44:22 CPU Time: 0 0: 5:31.27 (331.27 sec) Binary
2605 Time Step No. = 1180 Elapsed Time = 4.583726E+05 days
2606 Date: 02/14/07 Time: 09:44:27 CPU Time: 0 0: 5:37.06 (337.06 sec) Binary
2608 Time Step No. = 1200 Elapsed Time = 6.210292E+05 days
2609 Date: 02/14/07 Time: 09:44:34 CPU Time: 0 0: 5:43.20 (343.20 sec) Binary
2611 Time Step No. = 1220 Elapsed Time = 7.693890E+05 days
2612 Date: 02/14/07 Time: 09:44:46 CPU Time: 0 0: 5:55.70 (355.70 sec) Binary
2614 Time Step No. = 1240 Elapsed Time = 7.747455E+05 days
2615 Date: 02/14/07 Time: 09:44:50 CPU Time: 0 0: 5:59.71 (359.71 sec) Binary
2617 Time Step No. = 1260 Elapsed Time = 1.007898E+06 days
2618 Date: 02/14/07 Time: 09:44:57 CPU Time: 0 0: 6: 6.05 (366.05 sec) Binary
2620 Time Step No. = 1280 Elapsed Time = 1.308059E+06 days
2621 Date: 02/14/07 Time: 09:45:05 CPU Time: 0 0: 6:13.90 (373.90 sec) Binary
2623 Time Step No. = 1300 Elapsed Time = 1.328500E+06 days
2624 Date: 02/14/07 Time: 09:45:09 CPU Time: 0 0: 6:18.31 (378.31 sec) Binary
2626 Time Step No. = 1320 Elapsed Time = 1.666428E+06 days
2627 Date: 02/14/07 Time: 09:45:15 CPU Time: 0 0: 6:24.18 (384.18 sec) Binary
2629 Time Step No. = 1340 Elapsed Time = 2.066428E+06 days
2630 Date: 02/14/07 Time: 09:45:20 CPU Time: 0 0: 6:29.48 (389.48 sec) Binary
2632 Time Step No. = 1360 Elapsed Time = 2.361834E+06 days
2633 Date: 02/14/07 Time: 09:45:29 CPU Time: 0 0: 6:37.92 (397.92 sec) Binary
2635 Time Step No. = 1380 Elapsed Time = 2.393121E+06 days
2636 Date: 02/14/07 Time: 09:45:37 CPU Time: 0 0: 6:45.79 (405.79 sec) Binary
2638 Time Step No. = 1400 Elapsed Time = 2.401318E+06 days

2639 Date: 02/14/07 Time: 09:45:44 CPU Time: 0 0: 6:52.81 (412.81 sec) Binary
2641 Time Step No. = 1420 Elapsed Time = 2.468163E+06 days
2642 Date: 02/14/07 Time: 09:45:50 CPU Time: 0 0: 6:59.54 (419.54 sec) Binary
2644 Time Step No. = 1440 Elapsed Time = 2.865069E+06 days
2645 Date: 02/14/07 Time: 09:45:56 CPU Time: 0 0: 7: 5.38 (425.38 sec) Binary
2647 Time Step No. = 1460 Elapsed Time = 3.265069E+06 days
2648 Date: 02/14/07 Time: 09:46:02 CPU Time: 0 0: 7:11.15 (431.15 sec) Binary
2651 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
2304 Date: 05/18/06 Time: 10:22:26 CPU Time: 0 0: 0:25.64 (25.64 sec) ASCII
2306 Time Step No. = 163 Elapsed Time = 0.000000E+00 days
2307 Date: 05/18/06 Time: 10:22:26 CPU Time: 0 0: 0:25.65 (25.65 sec) Binary
2309 Time Step No. = 180 Elapsed Time = 2.119576E-04 days
2310 Date: 05/18/06 Time: 10:22:29 CPU Time: 0 0: 0:28.95 (28.95 sec) Binary
2312 Time Step No. = 200 Elapsed Time = 1.880303E-02 days
2313 Date: 05/18/06 Time: 10:22:32 CPU Time: 0 0: 0:31.61 (31.61 sec) Binary
2315 Time Step No. = 220 Elapsed Time = 1.631321E+00 days
2316 Date: 05/18/06 Time: 10:22:35 CPU Time: 0 0: 0:34.43 (34.43 sec) Binary
2318 Time Step No. = 240 Elapsed Time = 2.774403E+01 days
2319 Date: 05/18/06 Time: 10:22:38 CPU Time: 0 0: 0:37.56 (37.56 sec) Binary
2321 Time Step No. = 260 Elapsed Time = 4.892922E+02 days
2322 Date: 05/18/06 Time: 10:22:42 CPU Time: 0 0: 0:41.45 (41.45 sec) Binary
2324 Time Step No. = 280 Elapsed Time = 4.026427E+03 days
2325 Date: 05/18/06 Time: 10:22:47 CPU Time: 0 0: 0:46.70 (46.70 sec) Binary
2327 Time Step No. = 300 Elapsed Time = 1.166868E+04 days
2328 Date: 05/18/06 Time: 10:22:54 CPU Time: 0 0: 0:53.05 (53.05 sec) Binary
2330 Time Step No. = 320 Elapsed Time = 2.296322E+04 days
2331 Date: 05/18/06 Time: 10:22:59 CPU Time: 0 0: 0:58.37 (58.37 sec) Binary
2333 Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2334 Date: 05/18/06 Time: 10:23:10 CPU Time: 0 0: 1: 9.26 (69.26 sec) Binary
2336 Time Step No. = 360 Elapsed Time = 3.652431E+04 days
2337 Date: 05/18/06 Time: 10:23:12 CPU Time: 0 0: 1:11.62 (71.62 sec) Binary
2339 Time Step No. = 380 Elapsed Time = 3.652431E+04 days
2340 Date: 05/18/06 Time: 10:23:15 CPU Time: 0 0: 1:14.17 (74.17 sec) Binary
2342 Time Step No. = 400 Elapsed Time = 3.652443E+04 days
2343 Date: 05/18/06 Time: 10:23:18 CPU Time: 0 0: 1:16.99 (76.99 sec) Binary
2345 Time Step No. = 420 Elapsed Time = 3.653512E+04 days
2346 Date: 05/18/06 Time: 10:23:20 CPU Time: 0 0: 1:19.53 (79.53 sec) Binary
2348 Time Step No. = 440 Elapsed Time = 3.668108E+04 days
2349 Date: 05/18/06 Time: 10:23:23 CPU Time: 0 0: 1:22.41 (82.41 sec) Binary
2351 Time Step No. = 460 Elapsed Time = 3.670152E+04 days
2352 Date: 05/18/06 Time: 10:23:25 CPU Time: 0 0: 1:24.37 (84.37 sec) Binary
2354 Time Step No. = 480 Elapsed Time = 3.726604E+04 days
2355 Date: 05/18/06 Time: 10:23:28 CPU Time: 0 0: 1:27.82 (87.82 sec) Binary
2357 Time Step No. = 500 Elapsed Time = 3.912333E+04 days
2358 Date: 05/18/06 Time: 10:23:35 CPU Time: 0 0: 1:33.89 (93.89 sec) Binary
2360 Time Step No. = 520 Elapsed Time = 7.687584E+04 days
2361 Date: 05/18/06 Time: 10:23:41 CPU Time: 0 0: 1:40.08 (100.08 sec) Binary
2363 Time Step No. = 540 Elapsed Time = 1.534551E+05 days
2364 Date: 05/18/06 Time: 10:23:48 CPU Time: 0 0: 1:47.53 (107.53 sec) Binary
2366 Time Step No. = 560 Elapsed Time = 3.652432E+05 days
2367 Date: 05/18/06 Time: 10:23:56 CPU Time: 0 0: 1:55.25 (115.25 sec) Binary
2369 Time Step No. = 580 Elapsed Time = 3.652461E+05 days
2370 Date: 05/18/06 Time: 10:23:59 CPU Time: 0 0: 1:58.33 (118.33 sec) Binary
2372 Time Step No. = 600 Elapsed Time = 3.653145E+05 days
2373 Date: 05/18/06 Time: 10:24:04 CPU Time: 0 0: 2: 2.89 (122.89 sec) Binary
2375 Time Step No. = 620 Elapsed Time = 3.663770E+05 days
2376 Date: 05/18/06 Time: 10:24:11 CPU Time: 0 0: 2: 9.78 (129.78 sec) Binary
2378 Time Step No. = 640 Elapsed Time = 3.665294E+05 days
2379 Date: 05/18/06 Time: 10:24:13 CPU Time: 0 0: 2:12.06 (132.06 sec) Binary
2381 Time Step No. = 660 Elapsed Time = 3.667198E+05 days
2382 Date: 05/18/06 Time: 10:24:16 CPU Time: 0 0: 2:14.98 (134.98 sec) Binary
2384 Time Step No. = 680 Elapsed Time = 3.694667E+05 days
2385 Date: 05/18/06 Time: 10:24:22 CPU Time: 0 0: 2:21.41 (141.41 sec) Binary
2387 Time Step No. = 700 Elapsed Time = 3.697358E+05 days
2388 Date: 05/18/06 Time: 10:24:26 CPU Time: 0 0: 2:25.03 (145.03 sec) Binary
2390 Time Step No. = 720 Elapsed Time = 3.733002E+05 days
2391 Date: 05/18/06 Time: 10:24:32 CPU Time: 0 0: 2:31.42 (151.42 sec) Binary
2393 Time Step No. = 740 Elapsed Time = 3.764582E+05 days
2394 Date: 05/18/06 Time: 10:24:43 CPU Time: 0 0: 2:41.78 (161.78 sec) Binary
2396 Time Step No. = 760 Elapsed Time = 3.766434E+05 days
2397 Date: 05/18/06 Time: 10:24:50 CPU Time: 0 0: 2:49.13 (169.13 sec) Binary
2399 Time Step No. = 780 Elapsed Time = 3.768308E+05 days
2400 Date: 05/18/06 Time: 10:24:56 CPU Time: 0 0: 2:54.52 (174.52 sec) Binary
2402 Time Step No. = 800 Elapsed Time = 3.769094E+05 days

2403 Date: 05/18/06 Time: 10:24:59 CPU Time: 0 0: 2:57.46 (177.46 sec) Binary
2405 Time Step No. = 820 Elapsed Time = 3.804952E+05 days
2406 Date: 05/18/06 Time: 10:25:06 CPU Time: 0 0: 3: 4.86 (184.86 sec) Binary
2408 Time Step No. = 840 Elapsed Time = 3.807620E+05 days
2409 Date: 05/18/06 Time: 10:25:12 CPU Time: 0 0: 3:10.72 (190.72 sec) Binary
2411 Time Step No. = 860 Elapsed Time = 3.823931E+05 days
2412 Date: 05/18/06 Time: 10:25:20 CPU Time: 0 0: 3:18.20 (198.20 sec) Binary
2414 Time Step No. = 880 Elapsed Time = 3.824076E+05 days
2415 Date: 05/18/06 Time: 10:25:25 CPU Time: 0 0: 3:23.66 (203.66 sec) Binary
2417 Time Step No. = 900 Elapsed Time = 3.825485E+05 days
2418 Date: 05/18/06 Time: 10:25:31 CPU Time: 0 0: 3:29.64 (209.64 sec) Binary
2420 Time Step No. = 920 Elapsed Time = 3.826760E+05 days
2421 Date: 05/18/06 Time: 10:25:35 CPU Time: 0 0: 3:33.09 (213.09 sec) Binary
2423 Time Step No. = 940 Elapsed Time = 3.853540E+05 days
2424 Date: 05/18/06 Time: 10:25:42 CPU Time: 0 0: 3:40.12 (220.12 sec) Binary
2426 Time Step No. = 960 Elapsed Time = 3.854180E+05 days
2427 Date: 05/18/06 Time: 10:25:47 CPU Time: 0 0: 3:45.01 (225.01 sec) Binary
2429 Time Step No. = 980 Elapsed Time = 3.854555E+05 days
2430 Date: 05/18/06 Time: 10:25:51 CPU Time: 0 0: 3:49.89 (229.89 sec) Binary
2432 Time Step No. = 1000 Elapsed Time = 3.865421E+05 days
2433 Date: 05/18/06 Time: 10:25:55 CPU Time: 0 0: 3:53.79 (233.79 sec) Binary
2435 Time Step No. = 1020 Elapsed Time = 3.977998E+05 days
2436 Date: 05/18/06 Time: 10:26:02 CPU Time: 0 0: 4: 0.65 (240.65 sec) Binary
2438 Time Step No. = 1040 Elapsed Time = 4.072582E+05 days
2439 Date: 05/18/06 Time: 10:26:10 CPU Time: 0 0: 4: 8.29 (248.29 sec) Binary
2441 Time Step No. = 1060 Elapsed Time = 4.135174E+05 days
2442 Date: 05/18/06 Time: 10:26:16 CPU Time: 0 0: 4:14.04 (254.04 sec) Binary
2444 Time Step No. = 1080 Elapsed Time = 4.195838E+05 days
2445 Date: 05/18/06 Time: 10:26:21 CPU Time: 0 0: 4:19.23 (259.23 sec) Binary
2447 Time Step No. = 1100 Elapsed Time = 4.376889E+05 days
2448 Date: 05/18/06 Time: 10:26:28 CPU Time: 0 0: 4:26.35 (266.35 sec) Binary
2450 Time Step No. = 1120 Elapsed Time = 4.384404E+05 days
2451 Date: 05/18/06 Time: 10:26:33 CPU Time: 0 0: 4:31.43 (271.43 sec) Binary
2453 Time Step No. = 1140 Elapsed Time = 4.447569E+05 days
2454 Date: 05/18/06 Time: 10:26:38 CPU Time: 0 0: 4:36.44 (276.44 sec) Binary
2456 Time Step No. = 1160 Elapsed Time = 4.559149E+05 days
2457 Date: 05/18/06 Time: 10:26:47 CPU Time: 0 0: 4:45.44 (285.44 sec) Binary
2459 Time Step No. = 1180 Elapsed Time = 4.583726E+05 days
2460 Date: 05/18/06 Time: 10:26:52 CPU Time: 0 0: 4:50.53 (290.53 sec) Binary
2462 Time Step No. = 1200 Elapsed Time = 6.210292E+05 days
2463 Date: 05/18/06 Time: 10:26:58 CPU Time: 0 0: 4:56.12 (296.12 sec) Binary
2465 Time Step No. = 1220 Elapsed Time = 7.693890E+05 days
2466 Date: 05/18/06 Time: 10:27:09 CPU Time: 0 0: 5: 7.37 (307.37 sec) Binary
2468 Time Step No. = 1240 Elapsed Time = 7.747455E+05 days
2469 Date: 05/18/06 Time: 10:27:13 CPU Time: 0 0: 5:10.95 (310.95 sec) Binary
2471 Time Step No. = 1260 Elapsed Time = 1.007898E+06 days
2472 Date: 05/18/06 Time: 10:27:18 CPU Time: 0 0: 5:16.56 (316.56 sec) Binary
2474 Time Step No. = 1280 Elapsed Time = 1.308059E+06 days
2475 Date: 05/18/06 Time: 10:27:26 CPU Time: 0 0: 5:23.70 (323.70 sec) Binary
2477 Time Step No. = 1300 Elapsed Time = 1.328500E+06 days
2478 Date: 05/18/06 Time: 10:27:30 CPU Time: 0 0: 5:27.89 (327.89 sec) Binary
2480 Time Step No. = 1320 Elapsed Time = 1.666428E+06 days
2481 Date: 05/18/06 Time: 10:27:35 CPU Time: 0 0: 5:33.41 (333.41 sec) Binary
2483 Time Step No. = 1340 Elapsed Time = 2.066428E+06 days
2484 Date: 05/18/06 Time: 10:27:40 CPU Time: 0 0: 5:38.47 (338.47 sec) Binary
2486 Time Step No. = 1360 Elapsed Time = 2.361834E+06 days
2487 Date: 05/18/06 Time: 10:27:48 CPU Time: 0 0: 5:46.50 (346.50 sec) Binary
2489 Time Step No. = 1380 Elapsed Time = 2.393121E+06 days
2490 Date: 05/18/06 Time: 10:27:56 CPU Time: 0 0: 5:54.00 (354.00 sec) Binary
2492 Time Step No. = 1400 Elapsed Time = 2.401318E+06 days
2493 Date: 05/18/06 Time: 10:28:03 CPU Time: 0 0: 6: 0.49 (360.49 sec) Binary
2495 Time Step No. = 1420 Elapsed Time = 2.468163E+06 days
2496 Date: 05/18/06 Time: 10:28:08 CPU Time: 0 0: 6: 5.91 (365.91 sec) Binary
2498 Time Step No. = 1440 Elapsed Time = 2.865069E+06 days
2499 Date: 05/18/06 Time: 10:28:13 CPU Time: 0 0: 6:10.80 (370.80 sec) Binary
2501 Time Step No. = 1460 Elapsed Time = 3.265069E+06 days
2502 Date: 05/18/06 Time: 10:28:17 CPU Time: 0 0: 6:15.31 (375.31 sec) Binary
2505 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
2667 CPU Time (this time step) = 0.27 sec = 0.00007 hr
2668 CPU Time (total for run) = 436.72 sec = 0.12131 hr
2669 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1

```
2521 CPU Time (this time step) = 0.23 sec = 0.00006 hr
2522 CPU Time (total for run) = 379.71 sec = 0.10547 hr
2523 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
3345 Date: 02/14/07 Time: 09:46:08 CPU Time: 0 0: 7:16.74 ( 436.74 sec) ASCII
3347 Time Step No. = 1480 Elapsed Time = 3.652431E+06 days
3348 Date: 02/14/07 Time: 09:46:08 CPU Time: 0 0: 7:16.74 ( 436.74 sec) Binary
3353 *****
3354 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3355 * Completed: 02/14/07 at 09:46:08 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3356 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
3199 Date: 05/18/06 Time: 10:28:22 CPU Time: 0 0: 6:19.74 ( 379.74 sec) ASCII
3201 Time Step No. = 1480 Elapsed Time = 3.652431E+06 days
3202 Date: 05/18/06 Time: 10:28:22 CPU Time: 0 0: 6:19.74 ( 379.74 sec) Binary
3207 *****
3208 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3209 * Completed: 05/18/06 at 10:28:22 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3210 *****
*****
```

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

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

BF2_QB0600_ES47_TEST7_V002_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3 ** Begun on: 02/14/07 at 09:38:54 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
2 ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3 ** Begun on: 05/18/06 at 10:22:05 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R002]BF2_TEST7_R002_QA0500.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R002]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
```

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76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R002]BF2_VMS82_V500_ES47_TEST7_R002.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R002]BF2_VMS82_V500_ES47_TEST7_R002.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
86 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R002]BF2_VMS82_V500_ES47_TEST7_R002.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
195 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
196 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
197 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
198 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
199 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
200 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
201 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
202 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
203 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
204 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
205 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
206 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
207 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
208 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
209 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
210 58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
211 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
212 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
213 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
214 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
215 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
216 64 0 0 CONCST Salt concentration -- simple model kg/m^3
217 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
218 66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
224 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
225 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
226 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
227 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
228 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
229 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
230 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
231 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
232 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
233 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
```

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240 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241 89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
247 95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
248 96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249 97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264 112 0 0 H2OFLOWIN Water inflow rate kg/s
265 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271 119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
272 120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
273 121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274 122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275 123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
276 124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
278
*****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
195 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200 48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204 52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205 53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206 54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207 55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208 56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209 57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
216 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
217 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
218 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
224 72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
```


File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
842 where IC's will be reset (NMATRESET) = 4
843 Material type indexes of material regions
844 where IC's will be reset (MATRESET) = 7 8 9 10
846 Borehole matl index number (MAT_BOREHOLE) = 0

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
869 **instead of Input IC's for the Cavities**
870 [0=No, 1=Yes] (ICWASTE) = 1
872 **Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa**
873 **Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa**
874 **Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa**
875 **Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa**
876 **Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa**
877 **Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00**
878 **Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00**
879 **Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00**
880 **Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01**
881 **Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01**
883

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
851 **instead of Input IC's for the Waste**
852 [0=No, 1=Yes] (ICWASTE) = 1
854 **Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa**
855 **Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa**
856 **Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00**
857 **Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00**
859

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
949 **39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00**
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
950 **TOL = 1.0000E-02**
951 **SOCEFFMIN = 1.0000E-03**
953 Fracture model will be used? (KFRACTURE): T

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
926 Fracture model will be used? (KFRACTURE): T

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
1086 **Intrinsic reaction rate constants? (LINTRIN): F**
1088 Reaction rate constants (RK):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
1059 Reaction rate constants (RK):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
1096 **MgO hydration reaction rate constants:**
1097 **Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)**
1098 **Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)**
1100 **Gas generation factors for biodegradation reaction:**
1101 **Waste Area # 1**
1102 **H2/H2S production (RXH2S) = 1.409000E+00**
1103 **CO2 production (RXCO2) = 0.000000E+00**
1105 **Gas generation factors for biodegradation reaction:**
1106 **Waste Area # 2**
1107 **H2/H2S production (RXH2S) = 1.409000E+00**
1108 **CO2 production (RXCO2) = 0.000000E+00**
1110 **Saturation cutoff value (SOCMIN): 0.000000E+00**
1112 **Stoichiometric coeff's for Rxn 1:**
1113 **H2 coefficient = 1.036000E+00**
1114 **H2O coefficient = -1.927900E+00**
1115 **Fe coefficient = -1.000000E+00**
1116 **Bio coefficient = 0.000000E+00**
1117 **Fe(OH)2 coefficient = 0.000000E+00**
1118 **FeS coefficient = 0.000000E+00**

1119 MgO coefficient = 0.000000E+00
1120 Mg(OH)2 coefficient = 0.000000E+00
1121 MgCO3 coefficient = 0.000000E+00
1122 Stoichiometric coeff's for Rxn 2:
1124 H2 coefficient = 1.409000E+00
1125 H2O coefficient = 0.000000E+00
1126 Fe coefficient = 0.000000E+00
1127 Bio coefficient = -1.000000E+00
1128 Fe(OH)2 coefficient = 0.000000E+00
1129 FeS coefficient = 0.000000E+00
1130 MgO coefficient = 0.000000E+00
1131 Mg(OH)2 coefficient = 0.000000E+00
1132 MgCO3 coefficient = 0.000000E+00
1134 Stoichiometric coeff's for Rxn 3:
1135 H2 coefficient = 0.000000E+00
1136 H2O coefficient = 0.000000E+00
1137 Fe coefficient = 0.000000E+00
1138 Bio coefficient = 0.000000E+00
1139 Fe(OH)2 coefficient = 0.000000E+00
1140 FeS coefficient = 0.000000E+00
1141 MgO coefficient = 0.000000E+00
1142 Mg(OH)2 coefficient = 0.000000E+00
1143 MgCO3 coefficient = 0.000000E+00
1145 Stoichiometric coeff's for Rxn 4:
1146 H2 coefficient = 0.000000E+00
1147 H2O coefficient = 0.000000E+00
1148 Fe coefficient = 0.000000E+00
1149 Bio coefficient = 0.000000E+00
1150 Fe(OH)2 coefficient = 0.000000E+00
1151 FeS coefficient = 0.000000E+00
1152 MgO coefficient = 0.000000E+00
1153 Mg(OH)2 coefficient = 0.000000E+00
1154 MgCO3 coefficient = 0.000000E+00
1156 Stoichiometric coeff's for Rxn 5:
1157 H2 coefficient = 0.000000E+00
1158 H2O coefficient = 0.000000E+00
1159 Fe coefficient = 0.000000E+00
1160 Bio coefficient = 0.000000E+00
1161 Fe(OH)2 coefficient = 0.000000E+00
1162 FeS coefficient = 0.000000E+00
1163 MgO coefficient = 0.000000E+00
1164 Mg(OH)2 coefficient = 0.000000E+00
1165 MgCO3 coefficient = 0.000000E+00
1167 Stoichiometric coeff's for Rxn 6:
1168 H2 coefficient = 0.000000E+00
1169 H2O coefficient = 0.000000E+00
1170 Fe coefficient = 0.000000E+00
1171 Bio coefficient = 0.000000E+00
1172 Fe(OH)2 coefficient = 0.000000E+00
1173 FeS coefficient = 0.000000E+00
1174 MgO coefficient = 0.000000E+00
1175 Mg(OH)2 coefficient = 0.000000E+00
1176 MgCO3 coefficient = 0.000000E+00
1178 Stoichiometric coeff's for Rxn 7:
1179 H2 coefficient = 0.000000E+00
1180 H2O coefficient = 0.000000E+00
1181 Fe coefficient = 0.000000E+00
1182 Bio coefficient = 0.000000E+00
1183 Fe(OH)2 coefficient = 0.000000E+00
1184 FeS coefficient = 0.000000E+00
1185 MgO coefficient = 0.000000E+00
1186 Mg(OH)2 coefficient = 0.000000E+00
1187 MgCO3 coefficient = 0.000000E+00
1189 Wicking term (SATWICK) = 0.000000E+00
1190 Humid rates to be smoothed? (LARXN) = T
1191 Concentration rates to be smoothed? (LARXN2) = F
1192 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1194 Molecular weights (WM):

File PAA:[ANALYSIS.BF.Q80600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1

```
1067 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068 Gas coefficient = 1.036000E+00
1069 H2O coefficient = 1.927900E+00
1070 Fe coefficient = 1.000000E+00
1072 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073 Gas coefficient = 1.409000E+00
1074 H2O coefficient = 0.000000E+00
1075 Bio coefficient = 1.000000E+00
1077 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
1200 Molecular weights (WM):
1201 Fe(OH)2: 8.9862E-02 kg/mol
1202 FeS: 8.7900E-02 kg/mol
1203 MgO: 4.0304E-02 kg/mol
1204 Mg(OH)2: 5.8320E-02 kg/mol
1205 MgCO3: 8.4314E-02 kg/mol
1207 Densities (DEN(1-4)):
1208 Fe: 7.8700E+03 kg/m3
1209 Fe(OH)2: 3.4000E+03 kg/m3
1210 FeS: 4.7000E+03 kg/m3
1211 Bio: 1.1000E+03 kg/m3
1213 Densities (DEN(5-8)):
1214 MgO: 3.6000E+03 kg/m3
1215 Mg(OH)2: 2.3700E+03 kg/m3
1216 MgCO3: 3.0500E+03 kg/m3
1217 SALT: 2.1700E+03 kg/m3
1219 Will creep closure be used (CLOSURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
1083 Wicking term (SATWICK) = 0.000000E+00
1084 Humid rates to be smoothed? (LARXN) = T
1085 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1087 Will creep closure be used (CLOSURE): T
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
1233 PHIUPPER = Upper porosity limit in permeability-porosity expression
1234 PHILOWER = Lower porosity limit in permeability-porosity expression
1235 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
1236 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1237 4 1.480000E+07 3.155700E+12 1 F
1238 MODPERM Parameters
1239 Model Number (CLOSPERFACT) [m^2] (CLOSPERMEXP) [-]
1240 4 5.584700E-12 0.000000E+00
1242 Number of materials using closure (NMATCLOS) = 2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
1101 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERFACT) [m^2] (CLOSPERMEXP) [-]
1102 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1103 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105 Number of materials using closure (NMATCLOS) = 2
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
1260 *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1263 *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1266 *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1269 *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
1272 *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
1276
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
1123 *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1126 *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1130
*****
*****
*****
```

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
 1300 57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301 58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1303 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
 1154 47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1155 48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157 CAMCON Global Variable Units Conv
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
 1772 CPU Time (this time step) = 0.20 sec = 0.00006 hr
 1773 CPU Time (total for run) = 21.05 sec = 0.00585 hr
 1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
 1626 CPU Time (this time step) = 0.18 sec = 0.00005 hr
 1627 CPU Time (total for run) = 18.18 sec = 0.00505 hr
 1628 *****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
 2450 Date: 02/14/07 Time: 09:39:16 CPU Time: 0 0: 0:21.06 ( 21.06 sec) ASCII
 2452 Time Step No. = 127 Elapsed Time = 0.000000E+00 days
 2453 Date: 02/14/07 Time: 09:39:16 CPU Time: 0 0: 0:21.06 ( 21.06 sec) Binary
 2455 Time Step No. = 140 Elapsed Time = 4.346098E-01 days
 2456 Date: 02/14/07 Time: 09:39:19 CPU Time: 0 0: 0:23.85 ( 23.85 sec) Binary
 2458 Time Step No. = 160 Elapsed Time = 3.472291E+01 days
 2459 Date: 02/14/07 Time: 09:39:23 CPU Time: 0 0: 0:27.82 ( 27.82 sec) Binary
 2461 Time Step No. = 180 Elapsed Time = 1.955883E+03 days
 2462 Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:33.15 ( 33.15 sec) Binary
 2464 Time Step No. = 200 Elapsed Time = 2.565631E+04 days
 2465 Date: 02/14/07 Time: 09:39:34 CPU Time: 0 0: 0:39.74 ( 39.74 sec) Binary
 2467 Time Step No. = 220 Elapsed Time = 3.652584E+04 days
 2468 Date: 02/14/07 Time: 09:39:45 CPU Time: 0 0: 0:49.98 ( 49.98 sec) Binary
 2470 Time Step No. = 240 Elapsed Time = 3.659319E+04 days
 2471 Date: 02/14/07 Time: 09:39:49 CPU Time: 0 0: 0:53.86 ( 53.86 sec) Binary
 2473 Time Step No. = 260 Elapsed Time = 3.666452E+04 days
 2474 Date: 02/14/07 Time: 09:39:51 CPU Time: 0 0: 0:55.94 ( 55.94 sec) Binary
 2476 Time Step No. = 280 Elapsed Time = 3.678636E+04 days
 2477 Date: 02/14/07 Time: 09:39:54 CPU Time: 0 0: 0:59.36 ( 59.36 sec) Binary
 2479 Time Step No. = 300 Elapsed Time = 3.918728E+04 days
 2480 Date: 02/14/07 Time: 09:39:59 CPU Time: 0 0: 1: 4.62 ( 64.62 sec) Binary
 2482 Time Step No. = 320 Elapsed Time = 5.812157E+04 days
 2483 Date: 02/14/07 Time: 09:40:09 CPU Time: 0 0: 1:13.94 ( 73.94 sec) Binary
 2485 Time Step No. = 340 Elapsed Time = 9.710952E+04 days
 2486 Date: 02/14/07 Time: 09:40:16 CPU Time: 0 0: 1:20.81 ( 80.81 sec) Binary
 2488 Time Step No. = 360 Elapsed Time = 3.570947E+05 days
 2489 Date: 02/14/07 Time: 09:40:25 CPU Time: 0 0: 1:29.71 ( 89.71 sec) Binary
 2491 Time Step No. = 380 Elapsed Time = 3.652773E+05 days
 2492 Date: 02/14/07 Time: 09:40:30 CPU Time: 0 0: 1:35.50 ( 95.50 sec) Binary
 2494 Time Step No. = 400 Elapsed Time = 3.654045E+05 days
 2495 Date: 02/14/07 Time: 09:40:36 CPU Time: 0 0: 1:41.29 ( 101.29 sec) Binary
 2497 Time Step No. = 420 Elapsed Time = 3.660244E+05 days
 2498 Date: 02/14/07 Time: 09:40:43 CPU Time: 0 0: 1:48.20 ( 108.20 sec) Binary
 2500 Time Step No. = 440 Elapsed Time = 3.667476E+05 days
 2501 Date: 02/14/07 Time: 09:40:45 CPU Time: 0 0: 1:50.51 ( 110.51 sec) Binary
 2503 Time Step No. = 460 Elapsed Time = 3.668694E+05 days
 2504 Date: 02/14/07 Time: 09:40:48 CPU Time: 0 0: 1:52.90 ( 112.90 sec) Binary
 2506 Time Step No. = 480 Elapsed Time = 3.774372E+05 days
 2507 Date: 02/14/07 Time: 09:40:53 CPU Time: 0 0: 1:58.07 ( 118.07 sec) Binary
 2509 Time Step No. = 500 Elapsed Time = 3.796809E+05 days
 2510 Date: 02/14/07 Time: 09:40:59 CPU Time: 0 0: 2: 4.43 ( 124.43 sec) Binary
 2512 Time Step No. = 520 Elapsed Time = 3.859590E+05 days
 2513 Date: 02/14/07 Time: 09:41:04 CPU Time: 0 0: 2: 8.84 ( 128.84 sec) Binary
 2515 Time Step No. = 540 Elapsed Time = 4.871131E+05 days
 2516 Date: 02/14/07 Time: 09:41:13 CPU Time: 0 0: 2:17.71 ( 137.71 sec) Binary
 2518 Time Step No. = 560 Elapsed Time = 4.930836E+05 days
 2519 Date: 02/14/07 Time: 09:41:19 CPU Time: 0 0: 2:23.87 ( 143.87 sec) Binary
 2521 Time Step No. = 580 Elapsed Time = 5.535964E+05 days
 2522 Date: 02/14/07 Time: 09:41:26 CPU Time: 0 0: 2:30.76 ( 150.76 sec) Binary
 2524 Time Step No. = 600 Elapsed Time = 5.724872E+05 days
 2525 Date: 02/14/07 Time: 09:41:34 CPU Time: 0 0: 2:39.44 ( 159.44 sec) Binary
 2527 Time Step No. = 620 Elapsed Time = 5.734498E+05 days
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2528 Date: 02/14/07 Time: 09:41:40 CPU Time: 0 0: 2:44.75 (164.75 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 5.775623E+05 days
2531 Date: 02/14/07 Time: 09:41:46 CPU Time: 0 0: 2:50.32 (170.32 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 6.407566E+05 days
2534 Date: 02/14/07 Time: 09:41:53 CPU Time: 0 0: 2:57.55 (177.55 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 6.744634E+05 days
2537 Date: 02/14/07 Time: 09:42:02 CPU Time: 0 0: 3: 6.29 (186.29 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 6.751089E+05 days
2540 Date: 02/14/07 Time: 09:42:05 CPU Time: 0 0: 3: 9.80 (189.80 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 6.764870E+05 days
2543 Date: 02/14/07 Time: 09:42:14 CPU Time: 0 0: 3:18.46 (198.46 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 6.800027E+05 days
2546 Date: 02/14/07 Time: 09:42:19 CPU Time: 0 0: 3:23.52 (203.52 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 6.830843E+05 days
2549 Date: 02/14/07 Time: 09:42:23 CPU Time: 0 0: 3:27.71 (207.71 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 7.863709E+05 days
2552 Date: 02/14/07 Time: 09:42:30 CPU Time: 0 0: 3:34.43 (214.43 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 8.205738E+05 days
2555 Date: 02/14/07 Time: 09:42:36 CPU Time: 0 0: 3:40.39 (220.39 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 8.371328E+05 days
2558 Date: 02/14/07 Time: 09:42:43 CPU Time: 0 0: 3:48.11 (228.11 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 9.542887E+05 days
2561 Date: 02/14/07 Time: 09:42:51 CPU Time: 0 0: 3:55.91 (235.91 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 9.666332E+05 days
2564 Date: 02/14/07 Time: 09:42:58 CPU Time: 0 0: 4: 2.50 (242.50 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 9.777098E+05 days
2567 Date: 02/14/07 Time: 09:43:03 CPU Time: 0 0: 4: 7.38 (247.38 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.062787E+06 days
2570 Date: 02/14/07 Time: 09:43:10 CPU Time: 0 0: 4:15.04 (255.04 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.075840E+06 days
2573 Date: 02/14/07 Time: 09:43:18 CPU Time: 0 0: 4:22.63 (262.63 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.078336E+06 days
2576 Date: 02/14/07 Time: 09:43:24 CPU Time: 0 0: 4:28.19 (268.19 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.145474E+06 days
2579 Date: 02/14/07 Time: 09:43:30 CPU Time: 0 0: 4:34.42 (274.42 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.476967E+06 days
2582 Date: 02/14/07 Time: 09:43:38 CPU Time: 0 0: 4:42.58 (282.58 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.647571E+06 days
2585 Date: 02/14/07 Time: 09:43:47 CPU Time: 0 0: 4:51.06 (291.06 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 1.741394E+06 days
2588 Date: 02/14/07 Time: 09:43:56 CPU Time: 0 0: 5: 0.29 (300.29 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.760200E+06 days
2591 Date: 02/14/07 Time: 09:44:04 CPU Time: 0 0: 5: 8.46 (308.46 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.854061E+06 days
2594 Date: 02/14/07 Time: 09:44:09 CPU Time: 0 0: 5:13.90 (313.90 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.147313E+06 days
2597 Date: 02/14/07 Time: 09:44:18 CPU Time: 0 0: 5:22.32 (322.32 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 2.431481E+06 days
2600 Date: 02/14/07 Time: 09:44:27 CPU Time: 0 0: 5:31.82 (331.82 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 2.490074E+06 days
2603 Date: 02/14/07 Time: 09:44:36 CPU Time: 0 0: 5:40.41 (340.41 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 2.690910E+06 days
2606 Date: 02/14/07 Time: 09:44:47 CPU Time: 0 0: 5:51.68 (351.68 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 3.089099E+06 days
2609 Date: 02/14/07 Time: 09:44:56 CPU Time: 0 0: 6: 0.22 (360.22 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 3.293784E+06 days
2612 Date: 02/14/07 Time: 09:45:10 CPU Time: 0 0: 6:14.52 (374.52 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 3.347981E+06 days
2615 Date: 02/14/07 Time: 09:45:16 CPU Time: 0 0: 6:20.25 (380.25 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 3.418348E+06 days
2618 Date: 02/14/07 Time: 09:45:25 CPU Time: 0 0: 6:29.47 (389.47 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 3.499859E+06 days
2621 Date: 02/14/07 Time: 09:45:34 CPU Time: 0 0: 6:38.23 (398.23 sec) Binary
2624 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
2304 Date: 05/18/06 Time: 10:22:23 CPU Time: 0 0: 0:18.19 (18.19 sec) ASCII
2306 Time Step No. = 127 Elapsed Time = 0.000000E+00 days
2307 Date: 05/18/06 Time: 10:22:23 CPU Time: 0 0: 0:18.19 (18.19 sec) Binary
2309 Time Step No. = 140 Elapsed Time = 4.346098E-01 days
2310 Date: 05/18/06 Time: 10:22:25 CPU Time: 0 0: 0:20.53 (20.53 sec) Binary
2312 Time Step No. = 160 Elapsed Time = 3.472291E+01 days
2313 Date: 05/18/06 Time: 10:22:29 CPU Time: 0 0: 0:23.88 (23.88 sec) Binary
2315 Time Step No. = 180 Elapsed Time = 1.955883E+03 days
2316 Date: 05/18/06 Time: 10:22:33 CPU Time: 0 0: 0:28.38 (28.38 sec) Binary
2318 Time Step No. = 200 Elapsed Time = 2.565631E+04 days

Information Only

2319 Date: 05/18/06 Time: 10:22:39 CPU Time: 0 0: 0:33.99 (33.99 sec) Binary
2321 Time Step No. = 220 Elapsed Time = 3.652584E+04 days
2322 Date: 05/18/06 Time: 10:22:48 CPU Time: 0 0: 0:43.23 (43.23 sec) Binary
2324 Time Step No. = 240 Elapsed Time = 3.659319E+04 days
2325 Date: 05/18/06 Time: 10:22:52 CPU Time: 0 0: 0:46.75 (46.75 sec) Binary
2327 Time Step No. = 260 Elapsed Time = 3.666452E+04 days
2328 Date: 05/18/06 Time: 10:22:54 CPU Time: 0 0: 0:48.59 (48.59 sec) Binary
2330 Time Step No. = 280 Elapsed Time = 3.678636E+04 days
2331 Date: 05/18/06 Time: 10:22:57 CPU Time: 0 0: 0:51.42 (51.42 sec) Binary
2333 Time Step No. = 300 Elapsed Time = 3.918728E+04 days
2334 Date: 05/18/06 Time: 10:23:00 CPU Time: 0 0: 0:55.38 (55.38 sec) Binary
2336 Time Step No. = 320 Elapsed Time = 5.812157E+04 days
2337 Date: 05/18/06 Time: 10:23:07 CPU Time: 0 0: 1: 2.24 (62.24 sec) Binary
2339 Time Step No. = 340 Elapsed Time = 9.710952E+04 days
2340 Date: 05/18/06 Time: 10:23:12 CPU Time: 0 0: 1: 7.31 (67.31 sec) Binary
2342 Time Step No. = 360 Elapsed Time = 3.570947E+05 days
2343 Date: 05/18/06 Time: 10:23:19 CPU Time: 0 0: 1:13.89 (73.89 sec) Binary
2345 Time Step No. = 380 Elapsed Time = 3.652773E+05 days
2346 Date: 05/18/06 Time: 10:23:23 CPU Time: 0 0: 1:18.15 (78.15 sec) Binary
2348 Time Step No. = 400 Elapsed Time = 3.654045E+05 days
2349 Date: 05/18/06 Time: 10:23:28 CPU Time: 0 0: 1:22.90 (82.90 sec) Binary
2351 Time Step No. = 420 Elapsed Time = 3.660244E+05 days
2352 Date: 05/18/06 Time: 10:23:34 CPU Time: 0 0: 1:28.72 (88.72 sec) Binary
2354 Time Step No. = 440 Elapsed Time = 3.667476E+05 days
2355 Date: 05/18/06 Time: 10:23:36 CPU Time: 0 0: 1:30.69 (90.69 sec) Binary
2357 Time Step No. = 460 Elapsed Time = 3.668694E+05 days
2358 Date: 05/18/06 Time: 10:23:38 CPU Time: 0 0: 1:32.72 (92.72 sec) Binary
2360 Time Step No. = 480 Elapsed Time = 3.774372E+05 days
2361 Date: 05/18/06 Time: 10:23:42 CPU Time: 0 0: 1:37.08 (97.08 sec) Binary
2363 Time Step No. = 500 Elapsed Time = 3.796809E+05 days
2364 Date: 05/18/06 Time: 10:23:48 CPU Time: 0 0: 1:42.37 (102.37 sec) Binary
2366 Time Step No. = 520 Elapsed Time = 3.859590E+05 days
2367 Date: 05/18/06 Time: 10:23:51 CPU Time: 0 0: 1:45.96 (105.96 sec) Binary
2369 Time Step No. = 540 Elapsed Time = 4.871131E+05 days
2370 Date: 05/18/06 Time: 10:23:59 CPU Time: 0 0: 1:53.77 (113.77 sec) Binary
2372 Time Step No. = 560 Elapsed Time = 4.930836E+05 days
2373 Date: 05/18/06 Time: 10:24:05 CPU Time: 0 0: 1:59.23 (119.23 sec) Binary
2375 Time Step No. = 580 Elapsed Time = 5.535964E+05 days
2376 Date: 05/18/06 Time: 10:24:11 CPU Time: 0 0: 2: 5.34 (125.34 sec) Binary
2378 Time Step No. = 600 Elapsed Time = 5.724872E+05 days
2379 Date: 05/18/06 Time: 10:24:18 CPU Time: 0 0: 2:12.84 (132.84 sec) Binary
2381 Time Step No. = 620 Elapsed Time = 5.734498E+05 days
2382 Date: 05/18/06 Time: 10:24:23 CPU Time: 0 0: 2:17.42 (137.42 sec) Binary
2384 Time Step No. = 640 Elapsed Time = 5.775623E+05 days
2385 Date: 05/18/06 Time: 10:24:28 CPU Time: 0 0: 2:22.18 (142.18 sec) Binary
2387 Time Step No. = 660 Elapsed Time = 6.407566E+05 days
2388 Date: 05/18/06 Time: 10:24:34 CPU Time: 0 0: 2:28.25 (148.25 sec) Binary
2390 Time Step No. = 680 Elapsed Time = 6.744634E+05 days
2391 Date: 05/18/06 Time: 10:24:41 CPU Time: 0 0: 2:35.71 (155.71 sec) Binary
2393 Time Step No. = 700 Elapsed Time = 6.751089E+05 days
2394 Date: 05/18/06 Time: 10:24:44 CPU Time: 0 0: 2:38.60 (158.60 sec) Binary
2396 Time Step No. = 720 Elapsed Time = 6.764870E+05 days
2397 Date: 05/18/06 Time: 10:24:51 CPU Time: 0 0: 2:45.92 (165.92 sec) Binary
2399 Time Step No. = 740 Elapsed Time = 6.800027E+05 days
2400 Date: 05/18/06 Time: 10:24:56 CPU Time: 0 0: 2:50.45 (170.45 sec) Binary
2402 Time Step No. = 760 Elapsed Time = 6.830843E+05 days
2403 Date: 05/18/06 Time: 10:24:59 CPU Time: 0 0: 2:53.87 (173.87 sec) Binary
2405 Time Step No. = 780 Elapsed Time = 7.863709E+05 days
2406 Date: 05/18/06 Time: 10:25:06 CPU Time: 0 0: 2:59.95 (179.95 sec) Binary
2408 Time Step No. = 800 Elapsed Time = 8.205738E+05 days
2409 Date: 05/18/06 Time: 10:25:11 CPU Time: 0 0: 3: 5.33 (185.33 sec) Binary
2411 Time Step No. = 820 Elapsed Time = 8.371328E+05 days
2412 Date: 05/18/06 Time: 10:25:18 CPU Time: 0 0: 3:12.08 (192.08 sec) Binary
2414 Time Step No. = 840 Elapsed Time = 9.542887E+05 days
2415 Date: 05/18/06 Time: 10:25:25 CPU Time: 0 0: 3:19.04 (199.04 sec) Binary
2417 Time Step No. = 860 Elapsed Time = 9.666332E+05 days
2418 Date: 05/18/06 Time: 10:25:31 CPU Time: 0 0: 3:25.05 (205.05 sec) Binary
2420 Time Step No. = 880 Elapsed Time = 9.777098E+05 days
2421 Date: 05/18/06 Time: 10:25:35 CPU Time: 0 0: 3:29.43 (209.43 sec) Binary
2423 Time Step No. = 900 Elapsed Time = 1.062787E+06 days
2424 Date: 05/18/06 Time: 10:25:42 CPU Time: 0 0: 3:36.11 (216.11 sec) Binary
2426 Time Step No. = 920 Elapsed Time = 1.075840E+06 days
2427 Date: 05/18/06 Time: 10:25:49 CPU Time: 0 0: 3:42.91 (222.91 sec) Binary
2429 Time Step No. = 940 Elapsed Time = 1.078336E+06 days
2430 Date: 05/18/06 Time: 10:25:54 CPU Time: 0 0: 3:47.65 (227.65 sec) Binary
2432 Time Step No. = 960 Elapsed Time = 1.145474E+06 days

2433 Date: 05/18/06 Time: 10:25:59 CPU Time: 0 0: 3:52.73 (232.73 sec) Binary
2435 Time Step No. = 980 Elapsed Time = 1.476967E+06 days
2436 Date: 05/18/06 Time: 10:26:06 CPU Time: 0 0: 3:59.86 (239.86 sec) Binary
2438 Time Step No. = 1000 Elapsed Time = 1.647571E+06 days
2439 Date: 05/18/06 Time: 10:26:13 CPU Time: 0 0: 4: 7.19 (247.19 sec) Binary
2441 Time Step No. = 1020 Elapsed Time = 1.741394E+06 days
2442 Date: 05/18/06 Time: 10:26:21 CPU Time: 0 0: 4:15.20 (255.20 sec) Binary
2444 Time Step No. = 1040 Elapsed Time = 1.760200E+06 days
2445 Date: 05/18/06 Time: 10:26:28 CPU Time: 0 0: 4:21.94 (261.94 sec) Binary
2447 Time Step No. = 1060 Elapsed Time = 1.854061E+06 days
2448 Date: 05/18/06 Time: 10:26:33 CPU Time: 0 0: 4:26.56 (266.56 sec) Binary
2450 Time Step No. = 1080 Elapsed Time = 2.147313E+06 days
2451 Date: 05/18/06 Time: 10:26:40 CPU Time: 0 0: 4:33.63 (273.63 sec) Binary
2453 Time Step No. = 1100 Elapsed Time = 2.431481E+06 days
2454 Date: 05/18/06 Time: 10:26:47 CPU Time: 0 0: 4:41.23 (281.23 sec) Binary
2456 Time Step No. = 1120 Elapsed Time = 2.490074E+06 days
2457 Date: 05/18/06 Time: 10:26:54 CPU Time: 0 0: 4:48.02 (288.02 sec) Binary
2459 Time Step No. = 1140 Elapsed Time = 2.690910E+06 days
2460 Date: 05/18/06 Time: 10:27:03 CPU Time: 0 0: 4:57.05 (297.05 sec) Binary
2462 Time Step No. = 1160 Elapsed Time = 3.089099E+06 days
2463 Date: 05/18/06 Time: 10:27:10 CPU Time: 0 0: 5: 3.82 (303.82 sec) Binary
2465 Time Step No. = 1180 Elapsed Time = 3.293784E+06 days
2466 Date: 05/18/06 Time: 10:27:21 CPU Time: 0 0: 5:14.61 (314.61 sec) Binary
2468 Time Step No. = 1200 Elapsed Time = 3.347981E+06 days
2469 Date: 05/18/06 Time: 10:27:25 CPU Time: 0 0: 5:18.96 (318.96 sec) Binary
2471 Time Step No. = 1220 Elapsed Time = 3.418348E+06 days
2472 Date: 05/18/06 Time: 10:27:32 CPU Time: 0 0: 5:26.07 (326.07 sec) Binary
2474 Time Step No. = 1240 Elapsed Time = 3.499859E+06 days
2475 Date: 05/18/06 Time: 10:27:39 CPU Time: 0 0: 5:32.88 (332.88 sec) Binary
2478 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
2640 CPU Time (this time step) = 0.34 sec = 0.00009 hr
2641 CPU Time (total for run) = 402.27 sec = 0.11174 hr
2642 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
2494 CPU Time (this time step) = 0.26 sec = 0.00007 hr
2495 CPU Time (total for run) = 336.01 sec = 0.09334 hr
2496 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
3318 Date: 02/14/07 Time: 09:45:38 CPU Time: 0 0: 6:42.29 (402.29 sec) ASCII
3320 Time Step No. = 1254 Elapsed Time = 3.652431E+06 days
3321 Date: 02/14/07 Time: 09:45:38 CPU Time: 0 0: 6:42.29 (402.29 sec) Binary
3326 *****
3327 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3328 * Completed: 02/14/07 at 09:45:38 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3329 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
3172 Date: 05/18/06 Time: 10:27:42 CPU Time: 0 0: 5:36.03 (336.03 sec) ASCII
3174 Time Step No. = 1254 Elapsed Time = 3.652431E+06 days
3175 Date: 05/18/06 Time: 10:27:42 CPU Time: 0 0: 5:36.03 (336.03 sec) Binary
3180 *****
3181 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3182 * Completed: 05/18/06 at 10:27:42 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3183 *****

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

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

BF2_QB0600_ES47_TEST7_V003_OUT.DIF

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1

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2  ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3  ** Begun on: 02/14/07 at 09:38:59 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
2  ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3  ** Begun on: 05/18/06 at 10:22:10 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;1
62 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R003]BF2_TEST7_R003_QA0500.INP;1
62 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_CLOSURE.DAT;1
67 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R003]BF2_CLOSURE.DAT;1
67 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
72 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
72 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.SUM;1
77 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R003]BF2_VMS82_V500_ES47_TEST7_R003.SUM;1
77 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.BIN;1
82 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R003]BF2_VMS82_V500_ES47_TEST7_R003.BIN;1
82 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.ROT;1
87 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
86 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R003]BF2_VMS82_V500_ES47_TEST7_R003.ROT;1
87 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
195 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
196 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
197 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
198 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
199 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
200 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
201 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
202 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
203 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
204 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
```


205 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
206 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
207 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
208 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
209 57 1 1 CONCPE(I,J,K,1) Fe concentration -- simple model kg/m^3
210 58 1 1 CONCPIO C6-H10-O5 concentration -- simple model kg/m^3
211 59 0 0 CONCPE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
212 60 0 0 CONCPE(I,J,K,3) FeS concentration -- simple model kg/m^3
213 61 0 0 CONCMPG(I,J,K,1) MgO concentration -- simple model kg/m^3
214 62 0 0 CONCMPG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
215 63 0 0 CONCMPG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
216 64 0 0 CONCST Salt concentration -- simple model kg/m^3
217 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
218 66 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
224 72 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
225 73 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
226 74 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
227 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
228 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
229 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
230 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
231 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
232 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
233 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241 89 0 0 CONCRXN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
247 95 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
248 96 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249 97 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264 112 0 0 H2OFLOWIN Water inflow rate kg/s
265 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271 119 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
272 120 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg
273 121 0 0 B_CONC(1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274 122 0 0 B_CONC(1,2) Conc of isotope 1 from Waste Region 2 kg/m^3

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275 123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
276 124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
278
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*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
195 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200 48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204 52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205 53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206 54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207 55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208 56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209 57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
216 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
217 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
218 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
224 72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
225 73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
226 74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
227 75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
228 76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
229 77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
230 78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
231 79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
232 80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
233 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
234 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
235 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
236 84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
237 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
238 86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
239 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
240 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
241 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
247 95 0 0 H2OFLOWIN Water inflow rate kg/s
248 96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
249 97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
250 98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
251 99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
252 100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
253 101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
254 102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
255 103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
256 104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
257 105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
258 106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
259 107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
261
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950 TOL = 1.0000E-02
951 SOCEFFMIN = 1.0000E-03
953 Fracture model will be used? (KFRACTURE): T
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
926 Fracture model will be used? (KFRACTURE): T
*****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
1086 Intrinsic reaction rate constants? (LINTRIN): F
1088 Reaction rate constants (RK):
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
1059 Reaction rate constants (RK):
*****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
1096 MgO hydration reaction rate constants:
1097 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100 Gas generation factors for biodegradation reaction:
1101 Waste Area # 1
1102 H2/H2S production (RXH2S) = 1.277000E+00
1103 CO2 production (RXCO2) = 0.000000E+00
1105 Gas generation factors for biodegradation reaction:
1106 Waste Area # 2
1107 H2/H2S production (RXH2S) = 1.277000E+00
1108 CO2 production (RXCO2) = 0.000000E+00
1110 Saturation cutoff value (SOCMIN): 0.000000E+00
1112 Stoichiometric coeff's for Rxn 1:
1113 H2 coefficient = 1.071700E+00
1114 H2O coefficient = -1.856600E+00
1115 Fe coefficient = -1.000000E+00
1116 Bio coefficient = 0.000000E+00
1117 Fe(OH)2 coefficient = 0.000000E+00
1118 FeS coefficient = 0.000000E+00
1119 MgO coefficient = 0.000000E+00
1120 Mg(OH)2 coefficient = 0.000000E+00
1121 MgCO3 coefficient = 0.000000E+00
1123 Stoichiometric coeff's for Rxn 2:
1124 H2 coefficient = 1.277000E+00
1125 H2O coefficient = 0.000000E+00
1126 Fe coefficient = 0.000000E+00
1127 Bio coefficient = -1.000000E+00
1128 Fe(OH)2 coefficient = 0.000000E+00
1129 FeS coefficient = 0.000000E+00
1130 MgO coefficient = 0.000000E+00
1131 Mg(OH)2 coefficient = 0.000000E+00
1132 MgCO3 coefficient = 0.000000E+00
1134 Stoichiometric coeff's for Rxn 3:
1135 H2 coefficient = 0.000000E+00
1136 H2O coefficient = 0.000000E+00
1137 Fe coefficient = 0.000000E+00
1138 Bio coefficient = 0.000000E+00
1139 Fe(OH)2 coefficient = 0.000000E+00
1140 FeS coefficient = 0.000000E+00
1141 MgO coefficient = 0.000000E+00
1142 Mg(OH)2 coefficient = 0.000000E+00
1143 MgCO3 coefficient = 0.000000E+00
1145 Stoichiometric coeff's for Rxn 4:
1146 H2 coefficient = 0.000000E+00
1147 H2O coefficient = 0.000000E+00
1148 Fe coefficient = 0.000000E+00
1149 Bio coefficient = 0.000000E+00
1150 Fe(OH)2 coefficient = 0.000000E+00
1151 FeS coefficient = 0.000000E+00
1152 MgO coefficient = 0.000000E+00
1153 Mg(OH)2 coefficient = 0.000000E+00
1154 MgCO3 coefficient = 0.000000E+00
1156 Stoichiometric coeff's for Rxn 5:
1157 H2 coefficient = 0.000000E+00
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1158 H2O coefficient = 0.000000E+00
1159 Fe coefficient = 0.000000E+00
1160 Bio coefficient = 0.000000E+00
1161 Fe(OH)2 coefficient = 0.000000E+00
1162 FeS coefficient = 0.000000E+00
1163 MgO coefficient = 0.000000E+00
1164 Mg(OH)2 coefficient = 0.000000E+00
1165 MgCO3 coefficient = 0.000000E+00
1167 Stoichiometric coeff's for Rxn 6:
1168 H2 coefficient = 0.000000E+00
1169 H2O coefficient = 0.000000E+00
1170 Fe coefficient = 0.000000E+00
1171 Bio coefficient = 0.000000E+00
1172 Fe(OH)2 coefficient = 0.000000E+00
1173 FeS coefficient = 0.000000E+00
1174 MgO coefficient = 0.000000E+00
1175 Mg(OH)2 coefficient = 0.000000E+00
1176 MgCO3 coefficient = 0.000000E+00
1178 Stoichiometric coeff's for Rxn 7:
1179 H2 coefficient = 0.000000E+00
1180 H2O coefficient = 0.000000E+00
1181 Fe coefficient = 0.000000E+00
1182 Bio coefficient = 0.000000E+00
1183 Fe(OH)2 coefficient = 0.000000E+00
1184 FeS coefficient = 0.000000E+00
1185 MgO coefficient = 0.000000E+00
1186 Mg(OH)2 coefficient = 0.000000E+00
1187 MgCO3 coefficient = 0.000000E+00
1189 Wicking term (SATWICK) = 0.000000E+00
1190 Humid rates to be smoothed? (LARKN) = T
1191 Concentration rates to be smoothed? (LARKN2) = F
1192 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1194 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
1067 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068 Gas coefficient = 1.071700E+00
1069 H2O coefficient = 1.856600E+00
1070 Fe coefficient = 1.000000E+00
1072 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073 Gas coefficient = 1.277000E+00
1074 H2O coefficient = 0.000000E+00
1075 Bio coefficient = 1.000000E+00
1077 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
1200 Molecular weights (WM):
1201 Fe(OH)2: 8.9862E-02 kg/mol
1202 FeS: 8.7900E-02 kg/mol
1203 MgO: 4.0304E-02 kg/mol
1204 Mg(OH)2: 5.8320E-02 kg/mol
1205 MgCO3: 8.4314E-02 kg/mol
1207 Densities (DEN(1-4)):
1208 Fe: 7.8700E+03 kg/m3
1209 Fe(OH)2: 3.4000E+03 kg/m3
1210 FeS: 4.7000E+03 kg/m3
1211 Bio: 1.1000E+03 kg/m3
1213 Densities (DEN(5-8)):
1214 MgO: 3.6000E+03 kg/m3
1215 Mg(OH)2: 2.3700E+03 kg/m3
1216 MgCO3: 3.0500E+03 kg/m3
1217 SALT: 2.1700E+03 kg/m3
1219 Will creep closure be used (CLOSURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
1083 Wicking term (SATWICK) = 0.000000E+00
1084 Humid rates to be smoothed? (LARKN) = T
1085 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1087 Will creep closure be used (CLOSURE): T
*****
*****
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
1233 PHIUPPER = Upper porosity limit in permeability-porosity expression
1234 PHILOWER = Lower porosity limit in permeability-porosity expression
1235 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
1236 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1237 4 1.480000E+07 3.155700E+12 1 F
1238 MODPERM Parameters
1239 Model Number (CLOSPERFACT) [m^2] (CLOSPERMEXP) [-]
1240 4 5.584700E-12 0.000000E+00
1242 Number of materials using closure (NMATCLOS) = 2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
1101 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERFACT) [m^2] (CLOSPERMEXP) [-]
1102 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1103 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105 Number of materials using closure (NMATCLOS) = 2
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
1260 *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1263 *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1266 *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1269 *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
1272 *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
1276
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
1123 *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1126 *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1130
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
1300 57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1301 58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1303 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
1154 47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1155 48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1157 CAMCON Global Variable Units Conv
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
1772 CPU Time (this time step) = 0.14 sec = 0.00004 hr
1773 CPU Time (total for run) = 23.62 sec = 0.00656 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
1626 CPU Time (this time step) = 0.12 sec = 0.00003 hr
1627 CPU Time (total for run) = 19.04 sec = 0.00529 hr
1628 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
2450 Date: 02/14/07 Time: 09:39:23 CPU Time: 0 0: 0:23.63 ( 23.63 sec) ASCII
2452 Time Step No. = 131 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:39:23 CPU Time: 0 0: 0:23.63 ( 23.63 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 1.290116E-01 days
2456 Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:25.67 ( 25.67 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 7.082940E+00 days
2459 Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:28.88 ( 28.88 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 2.340221E+02 days
2462 Date: 02/14/07 Time: 09:39:33 CPU Time: 0 0: 0:33.00 ( 33.00 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 2.227802E+03 days
2465 Date: 02/14/07 Time: 09:39:37 CPU Time: 0 0: 0:37.92 ( 37.92 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 2.172601E+04 days
2468 Date: 02/14/07 Time: 09:39:45 CPU Time: 0 0: 0:45.69 ( 45.69 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.652431E+04 days
2471 Date: 02/14/07 Time: 09:39:59 CPU Time: 0 0: 0:59.17 ( 59.17 sec) Binary
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2473 Time Step No. = 260 Elapsed Time = 3.652431E+04 days
2474 Date: 02/14/07 Time: 09:40:02 CPU Time: 0 0: 1: 2.14 (62.14 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.652436E+04 days
2477 Date: 02/14/07 Time: 09:40:05 CPU Time: 0 0: 1: 5.32 (65.32 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.652878E+04 days
2480 Date: 02/14/07 Time: 09:40:08 CPU Time: 0 0: 1: 8.54 (68.54 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.664309E+04 days
2483 Date: 02/14/07 Time: 09:40:13 CPU Time: 0 0: 1:13.49 (73.49 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 3.666734E+04 days
2486 Date: 02/14/07 Time: 09:40:15 CPU Time: 0 0: 1:15.14 (75.14 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.683266E+04 days
2489 Date: 02/14/07 Time: 09:40:18 CPU Time: 0 0: 1:18.69 (78.69 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 4.360968E+04 days
2492 Date: 02/14/07 Time: 09:40:23 CPU Time: 0 0: 1:23.08 (83.08 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 1.385826E+05 days
2495 Date: 02/14/07 Time: 09:40:32 CPU Time: 0 0: 1:32.44 (92.44 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 1.471271E+05 days
2498 Date: 02/14/07 Time: 09:40:42 CPU Time: 0 0: 1:42.55 (102.55 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 1.527317E+05 days
2501 Date: 02/14/07 Time: 09:40:49 CPU Time: 0 0: 1:49.23 (109.23 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 1.710125E+05 days
2504 Date: 02/14/07 Time: 09:40:57 CPU Time: 0 0: 1:57.52 (117.52 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 2.573034E+05 days
2507 Date: 02/14/07 Time: 09:41:08 CPU Time: 0 0: 2: 8.15 (128.15 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 2.971722E+05 days
2510 Date: 02/14/07 Time: 09:41:18 CPU Time: 0 0: 2:18.14 (138.14 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 3.652468E+05 days
2513 Date: 02/14/07 Time: 09:41:24 CPU Time: 0 0: 2:24.26 (144.26 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 3.653773E+05 days
2516 Date: 02/14/07 Time: 09:41:30 CPU Time: 0 0: 2:30.18 (150.18 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 3.659289E+05 days
2519 Date: 02/14/07 Time: 09:41:38 CPU Time: 0 0: 2:38.04 (158.04 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 3.665472E+05 days
2522 Date: 02/14/07 Time: 09:41:41 CPU Time: 0 0: 2:40.56 (160.56 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 3.666447E+05 days
2525 Date: 02/14/07 Time: 09:41:43 CPU Time: 0 0: 2:42.53 (162.53 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 3.703658E+05 days
2528 Date: 02/14/07 Time: 09:41:49 CPU Time: 0 0: 2:48.51 (168.51 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.798337E+05 days
2531 Date: 02/14/07 Time: 09:41:59 CPU Time: 0 0: 2:58.94 (178.94 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.939257E+05 days
2534 Date: 02/14/07 Time: 09:42:08 CPU Time: 0 0: 3: 7.22 (187.22 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 3.962038E+05 days
2537 Date: 02/14/07 Time: 09:42:15 CPU Time: 0 0: 3:14.65 (194.65 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 4.052779E+05 days
2540 Date: 02/14/07 Time: 09:42:21 CPU Time: 0 0: 3:20.17 (200.17 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 4.063093E+05 days
2543 Date: 02/14/07 Time: 09:42:28 CPU Time: 0 0: 3:27.30 (207.30 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 4.122326E+05 days
2546 Date: 02/14/07 Time: 09:42:36 CPU Time: 0 0: 3:35.27 (215.27 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 4.197205E+05 days
2549 Date: 02/14/07 Time: 09:42:42 CPU Time: 0 0: 3:41.21 (221.21 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 4.477240E+05 days
2552 Date: 02/14/07 Time: 09:42:50 CPU Time: 0 0: 3:49.50 (229.50 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 5.300302E+05 days
2555 Date: 02/14/07 Time: 09:42:59 CPU Time: 0 0: 3:58.42 (238.42 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 6.962797E+05 days
2558 Date: 02/14/07 Time: 09:43:08 CPU Time: 0 0: 4: 7.46 (247.46 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 6.976745E+05 days
2561 Date: 02/14/07 Time: 09:43:14 CPU Time: 0 0: 4:13.51 (253.51 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 7.510302E+05 days
2564 Date: 02/14/07 Time: 09:43:22 CPU Time: 0 0: 4:20.80 (260.80 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 1.039742E+06 days
2567 Date: 02/14/07 Time: 09:43:29 CPU Time: 0 0: 4:28.62 (268.62 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.429742E+06 days
2570 Date: 02/14/07 Time: 09:43:36 CPU Time: 0 0: 4:35.61 (275.61 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.739749E+06 days
2573 Date: 02/14/07 Time: 09:43:45 CPU Time: 0 0: 4:44.43 (284.43 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 2.139749E+06 days
2576 Date: 02/14/07 Time: 09:43:51 CPU Time: 0 0: 4:50.23 (290.23 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 2.507874E+06 days
2579 Date: 02/14/07 Time: 09:43:58 CPU Time: 0 0: 4:57.30 (297.30 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 2.775406E+06 days
2582 Date: 02/14/07 Time: 09:44:05 CPU Time: 0 0: 5: 3.90 (303.90 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 3.175406E+06 days
2585 Date: 02/14/07 Time: 09:44:11 CPU Time: 0 0: 5: 9.97 (309.97 sec) Binary

2587 Time Step No. = 1020 Elapsed Time = 3.365099E+06 days
2588 Date: 02/14/07 Time: 09:44:20 CPU Time: 0 0: 5:19.00 (319.00 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 3.632948E+06 days
2591 Date: 02/14/07 Time: 09:44:27 CPU Time: 0 0: 5:26.37 (326.37 sec) Binary
2594 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
2304 Date: 05/18/06 Time: 10:22:29 CPU Time: 0 0: 0:19.05 (19.05 sec) ASCII
2306 Time Step No. = 131 Elapsed Time = 0.000000E+00 days
2307 Date: 05/18/06 Time: 10:22:29 CPU Time: 0 0: 0:19.05 (19.05 sec) Binary
2309 Time Step No. = 140 Elapsed Time = 1.290116E-01 days
2310 Date: 05/18/06 Time: 10:22:31 CPU Time: 0 0: 0:20.68 (20.68 sec) Binary
2312 Time Step No. = 160 Elapsed Time = 7.082940E+00 days
2313 Date: 05/18/06 Time: 10:22:33 CPU Time: 0 0: 0:23.25 (23.25 sec) Binary
2315 Time Step No. = 180 Elapsed Time = 2.340221E+02 days
2316 Date: 05/18/06 Time: 10:22:36 CPU Time: 0 0: 0:26.54 (26.54 sec) Binary
2318 Time Step No. = 200 Elapsed Time = 2.227802E-03 days
2319 Date: 05/18/06 Time: 10:22:41 CPU Time: 0 0: 0:30.60 (30.60 sec) Binary
2321 Time Step No. = 220 Elapsed Time = 2.172601E+04 days
2322 Date: 05/18/06 Time: 10:22:47 CPU Time: 0 0: 0:37.20 (37.20 sec) Binary
2324 Time Step No. = 240 Elapsed Time = 3.652431E+04 days
2325 Date: 05/18/06 Time: 10:22:59 CPU Time: 0 0: 0:48.65 (48.65 sec) Binary
2327 Time Step No. = 260 Elapsed Time = 3.652431E+04 days
2328 Date: 05/18/06 Time: 10:23:01 CPU Time: 0 0: 0:51.20 (51.20 sec) Binary
2330 Time Step No. = 280 Elapsed Time = 3.652436E+04 days
2331 Date: 05/18/06 Time: 10:23:04 CPU Time: 0 0: 0:54.17 (54.17 sec) Binary
2333 Time Step No. = 300 Elapsed Time = 3.652878E+04 days
2334 Date: 05/18/06 Time: 10:23:07 CPU Time: 0 0: 0:57.18 (57.18 sec) Binary
2336 Time Step No. = 320 Elapsed Time = 3.664309E+04 days
2337 Date: 05/18/06 Time: 10:23:12 CPU Time: 0 0: 1: 1.85 (61.85 sec) Binary
2339 Time Step No. = 340 Elapsed Time = 3.666734E+04 days
2340 Date: 05/18/06 Time: 10:23:13 CPU Time: 0 0: 1: 3.40 (63.40 sec) Binary
2342 Time Step No. = 360 Elapsed Time = 3.683266E+04 days
2343 Date: 05/18/06 Time: 10:23:17 CPU Time: 0 0: 1: 6.78 (66.78 sec) Binary
2345 Time Step No. = 380 Elapsed Time = 4.360968E+04 days
2346 Date: 05/18/06 Time: 10:23:21 CPU Time: 0 0: 1:10.60 (70.60 sec) Binary
2348 Time Step No. = 400 Elapsed Time = 1.385826E+05 days
2349 Date: 05/18/06 Time: 10:23:28 CPU Time: 0 0: 1:18.31 (78.31 sec) Binary
2351 Time Step No. = 420 Elapsed Time = 1.471271E+05 days
2352 Date: 05/18/06 Time: 10:23:37 CPU Time: 0 0: 1:26.53 (86.53 sec) Binary
2354 Time Step No. = 440 Elapsed Time = 1.527317E+05 days
2355 Date: 05/18/06 Time: 10:23:42 CPU Time: 0 0: 1:31.96 (91.96 sec) Binary
2357 Time Step No. = 460 Elapsed Time = 1.710125E+05 days
2358 Date: 05/18/06 Time: 10:23:49 CPU Time: 0 0: 1:38.68 (98.68 sec) Binary
2360 Time Step No. = 480 Elapsed Time = 2.573034E+05 days
2361 Date: 05/18/06 Time: 10:23:57 CPU Time: 0 0: 1:47.27 (107.27 sec) Binary
2363 Time Step No. = 500 Elapsed Time = 2.971722E+05 days
2364 Date: 05/18/06 Time: 10:24:05 CPU Time: 0 0: 1:55.21 (115.21 sec) Binary
2366 Time Step No. = 520 Elapsed Time = 3.652468E+05 days
2367 Date: 05/18/06 Time: 10:24:10 CPU Time: 0 0: 2: 0.08 (120.08 sec) Binary
2369 Time Step No. = 540 Elapsed Time = 3.653773E+05 days
2370 Date: 05/18/06 Time: 10:24:15 CPU Time: 0 0: 2: 4.80 (124.80 sec) Binary
2372 Time Step No. = 560 Elapsed Time = 3.659289E+05 days
2373 Date: 05/18/06 Time: 10:24:21 CPU Time: 0 0: 2:11.01 (131.01 sec) Binary
2375 Time Step No. = 580 Elapsed Time = 3.665472E+05 days
2376 Date: 05/18/06 Time: 10:24:23 CPU Time: 0 0: 2:13.01 (133.01 sec) Binary
2378 Time Step No. = 600 Elapsed Time = 3.666447E+05 days
2379 Date: 05/18/06 Time: 10:24:25 CPU Time: 0 0: 2:14.58 (134.58 sec) Binary
2381 Time Step No. = 620 Elapsed Time = 3.703658E+05 days
2382 Date: 05/18/06 Time: 10:24:30 CPU Time: 0 0: 2:19.35 (139.35 sec) Binary
2384 Time Step No. = 640 Elapsed Time = 3.798337E+05 days
2385 Date: 05/18/06 Time: 10:24:38 CPU Time: 0 0: 2:27.59 (147.59 sec) Binary
2387 Time Step No. = 660 Elapsed Time = 3.939257E+05 days
2388 Date: 05/18/06 Time: 10:24:44 CPU Time: 0 0: 2:34.22 (154.22 sec) Binary
2390 Time Step No. = 680 Elapsed Time = 3.962038E+05 days
2391 Date: 05/18/06 Time: 10:24:51 CPU Time: 0 0: 2:40.20 (160.20 sec) Binary
2393 Time Step No. = 700 Elapsed Time = 4.052779E+05 days
2394 Date: 05/18/06 Time: 10:24:55 CPU Time: 0 0: 2:44.78 (164.78 sec) Binary
2396 Time Step No. = 720 Elapsed Time = 4.063093E+05 days
2397 Date: 05/18/06 Time: 10:25:01 CPU Time: 0 0: 2:50.58 (170.58 sec) Binary
2399 Time Step No. = 740 Elapsed Time = 4.122326E+05 days
2400 Date: 05/18/06 Time: 10:25:08 CPU Time: 0 0: 2:57.32 (177.32 sec) Binary
2402 Time Step No. = 760 Elapsed Time = 4.197205E+05 days
2403 Date: 05/18/06 Time: 10:25:13 CPU Time: 0 0: 3: 2.11 (182.11 sec) Binary
2405 Time Step No. = 780 Elapsed Time = 4.477240E+05 days
2406 Date: 05/18/06 Time: 10:25:19 CPU Time: 0 0: 3: 8.62 (188.62 sec) Binary


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2408 Time Step No. = 800 Elapsed Time = 5.300302E+05 days
2409 Date: 05/18/06 Time: 10:25:27 CPU Time: 0 0: 3:15.94 ( 195.94 sec) Binary
2411 Time Step No. = 820 Elapsed Time = 6.962797E+05 days
2412 Date: 05/18/06 Time: 10:25:34 CPU Time: 0 0: 3:22.66 ( 202.66 sec) Binary
2414 Time Step No. = 840 Elapsed Time = 6.976745E+05 days
2415 Date: 05/18/06 Time: 10:25:39 CPU Time: 0 0: 3:27.60 ( 207.60 sec) Binary
2417 Time Step No. = 860 Elapsed Time = 7.510302E+05 days
2418 Date: 05/18/06 Time: 10:25:44 CPU Time: 0 0: 3:33.41 ( 213.41 sec) Binary
2420 Time Step No. = 880 Elapsed Time = 1.039742E+06 days
2421 Date: 05/18/06 Time: 10:25:51 CPU Time: 0 0: 3:39.55 ( 219.55 sec) Binary
2423 Time Step No. = 900 Elapsed Time = 1.429742E+06 days
2424 Date: 05/18/06 Time: 10:25:56 CPU Time: 0 0: 3:45.28 ( 225.28 sec) Binary
2426 Time Step No. = 920 Elapsed Time = 1.739749E+06 days
2427 Date: 05/18/06 Time: 10:26:03 CPU Time: 0 0: 3:52.16 ( 232.16 sec) Binary
2429 Time Step No. = 940 Elapsed Time = 2.139749E+06 days
2430 Date: 05/18/06 Time: 10:26:08 CPU Time: 0 0: 3:56.65 ( 236.65 sec) Binary
2432 Time Step No. = 960 Elapsed Time = 2.507874E+06 days
2433 Date: 05/18/06 Time: 10:26:13 CPU Time: 0 0: 4: 2.15 ( 242.15 sec) Binary
2435 Time Step No. = 980 Elapsed Time = 2.775406E+06 days
2436 Date: 05/18/06 Time: 10:26:19 CPU Time: 0 0: 4: 7.48 ( 247.48 sec) Binary
2438 Time Step No. = 1000 Elapsed Time = 3.175406E+06 days
2439 Date: 05/18/06 Time: 10:26:24 CPU Time: 0 0: 4:12.38 ( 252.38 sec) Binary
2441 Time Step No. = 1020 Elapsed Time = 3.365099E+06 days
2442 Date: 05/18/06 Time: 10:26:31 CPU Time: 0 0: 4:19.89 ( 259.89 sec) Binary
2444 Time Step No. = 1040 Elapsed Time = 3.632948E+06 days
2445 Date: 05/18/06 Time: 10:26:37 CPU Time: 0 0: 4:26.27 ( 266.27 sec) Binary
2448 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
2610 CPU Time (this time step) = 0.20 sec = 0.00006 hr
2611 CPU Time (total for run) = 326.84 sec = 0.09079 hr
2612 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
2464 CPU Time (this time step) = 0.17 sec = 0.00005 hr
2465 CPU Time (total for run) = 266.68 sec = 0.07408 hr
2466 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
3288 Date: 02/14/07 Time: 09:44:28 CPU Time: 0 0: 5:26.85 ( 326.85 sec) ASCII
3290 Time Step No. = 1042 Elapsed Time = 3.652431E+06 days
3291 Date: 02/14/07 Time: 09:44:28 CPU Time: 0 0: 5:26.85 ( 326.85 sec) Binary
3296 *****
3297 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3298 * Completed: 02/14/07 at 09:44:28 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3299 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
3142 Date: 05/18/06 Time: 10:26:38 CPU Time: 0 0: 4:26.70 ( 266.70 sec) ASCII
3144 Time Step No. = 1042 Elapsed Time = 3.652431E+06 days
3145 Date: 05/18/06 Time: 10:26:38 CPU Time: 0 0: 4:26.70 ( 266.70 sec) Binary
3150 *****
3151 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3152 * Completed: 05/18/06 at 10:26:38 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3153 *****
*****
```

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

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

BF2_QB0600_ES47_TEST7_V004_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3 ** Begun on: 02/14/07 at 09:39:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
```

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
  2  ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
  3  ** Begun on: 05/18/06 at 10:22:15 Run on: TBB ~ ALPHA AXP OpenVMS V8.2 **
  4  ****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;2
  62 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
  61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R004]BF2_TEST7_R004_QA0500.INP;1
  62 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_CLOSURE.DAT;1
  67 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
  66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R004]BF2_CLOSURE.DAT;1
  67 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
  72 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
  71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
  72 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.SUM;1
  77 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
  76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R004]BF2_VMS82_V500_ES47_TEST7_R004.SUM;1
  77 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.BIN;1
  82 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
  81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R004]BF2_VMS82_V500_ES47_TEST7_R004.BIN;1
  82 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.ROT;1
  87 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
  86 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R004]BF2_VMS82_V500_ES47_TEST7_R004.ROT;1
  87 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
  195 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
```

207 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
208 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
209 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
210 58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
211 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
212 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
213 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
214 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
215 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
216 64 0 0 CONCST Salt concentration -- simple model kg/m^3
217 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
218 66 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
224 72 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
225 73 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
226 74 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
227 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
228 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
229 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
230 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
231 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
232 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
233 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241 89 0 0 CONCRKN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRKN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243 91 0 0 CONCRKN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244 92 0 0 CONCRKN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRKN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
246 94 0 0 CONCRKN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
247 95 0 0 CONCRKN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
248 96 0 0 CONCRKN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249 97 0 0 CONCRKN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250 98 0 0 CONCRKN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251 99 0 0 CONCRKN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252 100 0 0 CONCRKN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253 101 0 0 CONCRKN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254 102 0 0 CONCRKN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255 103 0 0 CONCRKN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256 104 0 0 CONCRKN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257 105 0 0 CONCRKN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258 106 0 0 CONCRKN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259 107 0 0 CONCRKN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260 108 0 0 CONCRKN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261 109 0 0 CONCRKN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262 110 0 0 CONCRKN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263 111 0 0 CONCRKN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264 112 0 0 H2FLOWIN Water inflow rate kg/s
265 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271 119 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
272 120 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg
273 121 0 0 B_CONC(1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274 122 0 0 B_CONC(1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275 123 0 0 S_MASS(1,1) Solid mass of isotope 1 from Waste Region 1 kg
276 124 0 0 S_MASS(1,2) Solid mass of isotope 1 from Waste Region 2 kg

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
195 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200 48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204 52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205 53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206 54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207 55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208 56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209 57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
216 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
217 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
218 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
224 72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
225 73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
226 74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
227 75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
228 76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
229 77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
230 78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
231 79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
232 80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
233 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
234 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
235 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
236 84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
237 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
238 86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
239 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
240 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
241 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
247 95 0 0 H2OFLOWIN Water inflow rate kg/s
248 96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
249 97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
250 98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
251 99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
252 100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
253 101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
254 102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
255 103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
256 104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
257 105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
258 106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
259 107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
261
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1

Information Only


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953 Fracture model will be used? (K FRACTURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
926 Fracture model will be used? (K FRACTURE): T
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
1086 Intrinsic reaction rate constants? (LINTRIN): F
1088 Reaction rate constants (RK):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
1059 Reaction rate constants (RK):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
1096 MgO hydration reaction rate constants:
1097 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100 Gas generation factors for biodegradation reaction:
1101 Waste Area # 1
1102 H2/H2S production (RXH2S) = 2.152000E-01
1103 CO2 production (RXCO2) = 0.000000E+00
1105 Gas generation factors for biodegradation reaction:
1106 Waste Area # 2
1107 H2/H2S production (RXH2S) = 2.152000E-01
1108 CO2 production (RXCO2) = 0.000000E+00
1110 Saturation cutoff value (SOCMIN): 0.000000E+00
1112 Stoichiometric coeff's for Rxn 1:
1113 H2 coefficient = 1.181400E+00
1114 H2O coefficient = -1.637200E+00
1115 Fe coefficient = -1.000000E+00
1116 Bio coefficient = 0.000000E+00
1117 Fe(OH)2 coefficient = 0.000000E+00
1118 FeS coefficient = 0.000000E+00
1119 MgO coefficient = 0.000000E+00
1120 Mg(OH)2 coefficient = 0.000000E+00
1121 MgCO3 coefficient = 0.000000E+00
1123 Stoichiometric coeff's for Rxn 2:
1124 H2 coefficient = 2.152000E-01
1125 H2O coefficient = 0.000000E+00
1126 Fe coefficient = 0.000000E+00
1127 Bio coefficient = -1.000000E+00
1128 Fe(OH)2 coefficient = 0.000000E+00
1129 FeS coefficient = 0.000000E+00
1130 MgO coefficient = 0.000000E+00
1131 Mg(OH)2 coefficient = 0.000000E+00
1132 MgCO3 coefficient = 0.000000E+00
1134 Stoichiometric coeff's for Rxn 3:
1135 H2 coefficient = 0.000000E+00
1136 H2O coefficient = 0.000000E+00
1137 Fe coefficient = 0.000000E+00
1138 Bio coefficient = 0.000000E+00
1139 Fe(OH)2 coefficient = 0.000000E+00
1140 FeS coefficient = 0.000000E+00
1141 MgO coefficient = 0.000000E+00
1142 Mg(OH)2 coefficient = 0.000000E+00
1143 MgCO3 coefficient = 0.000000E+00
1145 Stoichiometric coeff's for Rxn 4:
1146 H2 coefficient = 0.000000E+00
1147 H2O coefficient = 0.000000E+00
1148 Fe coefficient = 0.000000E+00
1149 Bio coefficient = 0.000000E+00
1150 Fe(OH)2 coefficient = 0.000000E+00
1151 FeS coefficient = 0.000000E+00
1152 MgO coefficient = 0.000000E+00
1153 Mg(OH)2 coefficient = 0.000000E+00
1154 MgCO3 coefficient = 0.000000E+00
1156 Stoichiometric coeff's for Rxn 5:
1157 H2 coefficient = 0.000000E+00
1158 H2O coefficient = 0.000000E+00
1159 Fe coefficient = 0.000000E+00
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1160 Bio coefficient = 0.000000E+00
1161 Fe(OH)2 coefficient = 0.000000E+00
1162 FeS coefficient = 0.000000E+00
1163 MgO coefficient = 0.000000E+00
1164 Mg(OH)2 coefficient = 0.000000E+00
1165 MgCO3 coefficient = 0.000000E+00
1167 Stoichiometric coeff's for Rxn 6:
1168 H2 coefficient = 0.000000E+00
1169 H2O coefficient = 0.000000E+00
1170 Fe coefficient = 0.000000E+00
1171 Bio coefficient = 0.000000E+00
1172 Fe(OH)2 coefficient = 0.000000E+00
1173 FeS coefficient = 0.000000E+00
1174 MgO coefficient = 0.000000E+00
1175 Mg(OH)2 coefficient = 0.000000E+00
1176 MgCO3 coefficient = 0.000000E+00
1178 Stoichiometric coeff's for Rxn 7:
1179 H2 coefficient = 0.000000E+00
1180 H2O coefficient = 0.000000E+00
1181 Fe coefficient = 0.000000E+00
1182 Bio coefficient = 0.000000E+00
1183 Fe(OH)2 coefficient = 0.000000E+00
1184 FeS coefficient = 0.000000E+00
1185 MgO coefficient = 0.000000E+00
1186 Mg(OH)2 coefficient = 0.000000E+00
1187 MgCO3 coefficient = 0.000000E+00
1189 Wicking term (SATWICK) = 0.000000E+00
1190 Humid rates to be smoothed? (LARXN) = T
1191 Concentration rates to be smoothed? (LARXN2) = F
1192 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1194 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
1067 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068 Gas coefficient = 1.181400E+00
1069 H2O coefficient = 1.637200E+00
1070 Fe coefficient = 1.000000E+00
1072 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073 Gas coefficient = 2.152000E-01
1074 H2O coefficient = 0.000000E+00
1075 Bio coefficient = 1.000000E+00
1077 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
1200 Molecular weights (WM):
1201 Fe(OH)2: 8.9862E-02 kg/mol
1202 FeS: 8.7900E-02 kg/mol
1203 MgO: 4.0304E-02 kg/mol
1204 Mg(OH)2: 5.8320E-02 kg/mol
1205 MgCO3: 8.4314E-02 kg/mol
1207 Densities (DEN(1-4)):
1208 Fe: 7.8700E+03 kg/m3
1209 Fe(OH)2: 3.4000E+03 kg/m3
1210 FeS: 4.7000E+03 kg/m3
1211 Bio: 1.1000E+03 kg/m3
1213 Densities (DEN(5-8)):
1214 MgO: 3.6000E+03 kg/m3
1215 Mg(OH)2: 2.3700E+03 kg/m3
1216 MgCO3: 3.0500E+03 kg/m3
1217 SALT: 2.1700E+03 kg/m3
1219 Will creep closure be used (CLOSURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
1083 Wicking term (SATWICK) = 0.000000E+00
1084 Humid rates to be smoothed? (LARXN) = T
1085 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1087 Will creep closure be used (CLOSURE): T
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
1233 PHIUPPER = Upper porosity limit in permeability-porosity expression
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1234 PHILOWER = Lower porosity limit in permeability-porosity expression
1235 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
1236 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1237 4 1.480000E+07 3.155700E+12 1 F
1238 MODPERM Parameters
1239 Model Number (CLOSPERMPACT) [m^2] (CLOSPERMEXP) [-]
1240 4 5.584700E-12 0.000000E+00
1242 Number of materials using closure (NMATCLOS) = 2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
1101 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMPACT) [m^2] (CLOSPERMEXP) [-]
1102 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1103 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105 Number of materials using closure (NMATCLOS) = 2
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
1260 *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1263 *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1266 *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1269 *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
1272 *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
1276
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
1123 *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1126 *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1130
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
1300 57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1301 58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1303 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
1154 47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1155 48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1157 CAMCON Global Variable Units Conv
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 20.44 sec = 0.00568 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
1626 CPU Time (this time step) = 0.11 sec = 0.00003 hr
1627 CPU Time (total for run) = 17.52 sec = 0.00487 hr
1628 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
2450 Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:20.46 ( 20.46 sec) ASCII
2452 Time Step No. = 126 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:20.46 ( 20.46 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 4.883945E-01 days
2456 Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:23.30 ( 23.30 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 4.387923E+01 days
2459 Date: 02/14/07 Time: 09:39:32 CPU Time: 0 0: 0:26.98 ( 26.98 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.702937E+03 days
2462 Date: 02/14/07 Time: 09:39:37 CPU Time: 0 0: 0:32.01 ( 32.01 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 2.885022E+04 days
2465 Date: 02/14/07 Time: 09:39:42 CPU Time: 0 0: 0:37.91 ( 37.91 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.655949E+04 days
2468 Date: 02/14/07 Time: 09:39:48 CPU Time: 0 0: 0:43.22 ( 43.22 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.665992E+04 days
2471 Date: 02/14/07 Time: 09:39:52 CPU Time: 0 0: 0:47.32 ( 47.32 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.668547E+04 days
2474 Date: 02/14/07 Time: 09:39:54 CPU Time: 0 0: 0:49.54 ( 49.54 sec) Binary
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2476 Time Step No. = 280 Elapsed Time = 3.890170E+04 days
2477 Date: 02/14/07 Time: 09:39:58 CPU Time: 0 0: 0:53.73 (53.73 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 7.425091E+04 days
2480 Date: 02/14/07 Time: 09:40:06 CPU Time: 0 0: 1: 1.30 (61.30 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 7.693372E+04 days
2483 Date: 02/14/07 Time: 09:40:17 CPU Time: 0 0: 1:11.97 (71.97 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 7.782328E+04 days
2486 Date: 02/14/07 Time: 09:40:20 CPU Time: 0 0: 1:15.67 (75.67 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 8.389603E+04 days
2489 Date: 02/14/07 Time: 09:40:27 CPU Time: 0 0: 1:22.09 (82.09 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 1.126327E+05 days
2492 Date: 02/14/07 Time: 09:40:35 CPU Time: 0 0: 1:30.02 (90.02 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 1.247590E+05 days
2495 Date: 02/14/07 Time: 09:40:45 CPU Time: 0 0: 1:40.18 (100.18 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 1.251232E+05 days
2498 Date: 02/14/07 Time: 09:40:51 CPU Time: 0 0: 1:45.73 (105.73 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 1.256932E+05 days
2501 Date: 02/14/07 Time: 09:40:55 CPU Time: 0 0: 1:49.83 (109.83 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 1.297175E+05 days
2504 Date: 02/14/07 Time: 09:41:02 CPU Time: 0 0: 1:57.23 (117.23 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 1.536827E+05 days
2507 Date: 02/14/07 Time: 09:41:12 CPU Time: 0 0: 2: 6.75 (126.75 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 1.675465E+05 days
2510 Date: 02/14/07 Time: 09:41:19 CPU Time: 0 0: 2:13.69 (133.69 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 1.683237E+05 days
2513 Date: 02/14/07 Time: 09:41:27 CPU Time: 0 0: 2:22.46 (142.46 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 1.684494E+05 days
2516 Date: 02/14/07 Time: 09:41:32 CPU Time: 0 0: 2:26.63 (146.63 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 1.714114E+05 days
2519 Date: 02/14/07 Time: 09:41:36 CPU Time: 0 0: 2:31.45 (151.45 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 2.172821E+05 days
2522 Date: 02/14/07 Time: 09:41:44 CPU Time: 0 0: 2:38.78 (158.78 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 2.418381E+05 days
2525 Date: 02/14/07 Time: 09:41:51 CPU Time: 0 0: 2:45.64 (165.64 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 2.946886E+05 days
2528 Date: 02/14/07 Time: 09:41:59 CPU Time: 0 0: 2:53.36 (173.36 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.455559E+05 days
2531 Date: 02/14/07 Time: 09:42:09 CPU Time: 0 0: 3: 3.15 (183.15 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.475921E+05 days
2534 Date: 02/14/07 Time: 09:42:12 CPU Time: 0 0: 3: 6.67 (186.67 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 3.652432E+05 days
2537 Date: 02/14/07 Time: 09:42:19 CPU Time: 0 0: 3:13.28 (193.28 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 3.652449E+05 days
2540 Date: 02/14/07 Time: 09:42:22 CPU Time: 0 0: 3:16.15 (196.15 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.653298E+05 days
2543 Date: 02/14/07 Time: 09:42:25 CPU Time: 0 0: 3:19.79 (199.79 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.665963E+05 days
2546 Date: 02/14/07 Time: 09:42:30 CPU Time: 0 0: 3:24.49 (204.49 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.666047E+05 days
2549 Date: 02/14/07 Time: 09:42:32 CPU Time: 0 0: 3:26.28 (206.28 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.673309E+05 days
2552 Date: 02/14/07 Time: 09:42:35 CPU Time: 0 0: 3:29.52 (209.52 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.829760E+05 days
2555 Date: 02/14/07 Time: 09:42:42 CPU Time: 0 0: 3:36.31 (216.31 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 4.527294E+05 days
2558 Date: 02/14/07 Time: 09:42:50 CPU Time: 0 0: 3:44.55 (224.55 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 5.448080E+05 days
2561 Date: 02/14/07 Time: 09:42:57 CPU Time: 0 0: 3:51.49 (231.49 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 7.104959E+05 days
2564 Date: 02/14/07 Time: 09:43:04 CPU Time: 0 0: 3:58.81 (238.81 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 7.696672E+05 days
2567 Date: 02/14/07 Time: 09:43:11 CPU Time: 0 0: 4: 5.53 (245.53 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.049399E+06 days
2570 Date: 02/14/07 Time: 09:43:18 CPU Time: 0 0: 4:12.10 (252.10 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.449399E+06 days
2573 Date: 02/14/07 Time: 09:43:24 CPU Time: 0 0: 4:18.48 (258.48 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.476205E+06 days
2576 Date: 02/14/07 Time: 09:43:33 CPU Time: 0 0: 4:27.88 (267.88 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.728036E+06 days
2579 Date: 02/14/07 Time: 09:43:40 CPU Time: 0 0: 4:33.93 (273.93 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.780697E+06 days
2582 Date: 02/14/07 Time: 09:43:46 CPU Time: 0 0: 4:40.61 (280.61 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.892708E+06 days
2585 Date: 02/14/07 Time: 09:43:55 CPU Time: 0 0: 4:49.13 (289.13 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 2.135160E+06 days
2588 Date: 02/14/07 Time: 09:44:01 CPU Time: 0 0: 4:55.44 (295.44 sec) Binary

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2590 Time Step No. = 1040 Elapsed Time = 2.460527E+06 days
2591 Date: 02/14/07 Time: 09:44:08 CPU Time: 0 0: 5: 2.26 ( 302.26 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 2.586092E+06 days
2594 Date: 02/14/07 Time: 09:44:14 CPU Time: 0 0: 5: 8.69 ( 308.69 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.799611E+06 days
2597 Date: 02/14/07 Time: 09:44:22 CPU Time: 0 0: 5:16.31 ( 316.31 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 3.059226E+06 days
2600 Date: 02/14/07 Time: 09:44:32 CPU Time: 0 0: 5:26.84 ( 326.84 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 3.185608E+06 days
2603 Date: 02/14/07 Time: 09:44:38 CPU Time: 0 0: 5:32.76 ( 332.76 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 3.288161E+06 days
2606 Date: 02/14/07 Time: 09:44:47 CPU Time: 0 0: 5:40.87 ( 340.87 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 3.615101E+06 days
2609 Date: 02/14/07 Time: 09:44:51 CPU Time: 0 0: 5:45.77 ( 345.77 sec) Binary
2612 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
2304 Date: 05/18/06 Time: 10:22:32 CPU Time: 0 0: 0:17.53 ( 17.53 sec) ASCII
2306 Time Step No. = 126 Elapsed Time = 0.000000E+00 days
2307 Date: 05/18/06 Time: 10:22:32 CPU Time: 0 0: 0:17.54 ( 17.54 sec) Binary
2309 Time Step No. = 140 Elapsed Time = 4.883945E-01 days
2310 Date: 05/18/06 Time: 10:22:35 CPU Time: 0 0: 0:19.94 ( 19.94 sec) Binary
2312 Time Step No. = 160 Elapsed Time = 4.387923E+01 days
2313 Date: 05/18/06 Time: 10:22:38 CPU Time: 0 0: 0:23.05 ( 23.05 sec) Binary
2315 Time Step No. = 180 Elapsed Time = 1.702937E+03 days
2316 Date: 05/18/06 Time: 10:22:42 CPU Time: 0 0: 0:27.19 ( 27.19 sec) Binary
2318 Time Step No. = 200 Elapsed Time = 2.885022E+04 days
2319 Date: 05/18/06 Time: 10:22:47 CPU Time: 0 0: 0:31.85 ( 31.85 sec) Binary
2321 Time Step No. = 220 Elapsed Time = 3.655949E+04 days
2322 Date: 05/18/06 Time: 10:22:51 CPU Time: 0 0: 0:36.03 ( 36.03 sec) Binary
2324 Time Step No. = 240 Elapsed Time = 3.665992E+04 days
2325 Date: 05/18/06 Time: 10:22:54 CPU Time: 0 0: 0:39.34 ( 39.34 sec) Binary
2327 Time Step No. = 260 Elapsed Time = 3.668547E+04 days
2328 Date: 05/18/06 Time: 10:22:56 CPU Time: 0 0: 0:41.24 ( 41.24 sec) Binary
2330 Time Step No. = 280 Elapsed Time = 3.890170E+04 days
2331 Date: 05/18/06 Time: 10:23:00 CPU Time: 0 0: 0:45.05 ( 45.05 sec) Binary
2333 Time Step No. = 300 Elapsed Time = 7.425091E+04 days
2334 Date: 05/18/06 Time: 10:23:07 CPU Time: 0 0: 0:51.63 ( 51.63 sec) Binary
2336 Time Step No. = 320 Elapsed Time = 7.693372E+04 days
2337 Date: 05/18/06 Time: 10:23:16 CPU Time: 0 0: 1: 0.67 ( 60.67 sec) Binary
2339 Time Step No. = 340 Elapsed Time = 7.782328E+04 days
2340 Date: 05/18/06 Time: 10:23:19 CPU Time: 0 0: 1: 3.91 ( 63.91 sec) Binary
2342 Time Step No. = 360 Elapsed Time = 8.389603E+04 days
2343 Date: 05/18/06 Time: 10:23:25 CPU Time: 0 0: 1: 9.68 ( 69.68 sec) Binary
2345 Time Step No. = 380 Elapsed Time = 1.126327E+05 days
2346 Date: 05/18/06 Time: 10:23:32 CPU Time: 0 0: 1:16.74 ( 76.74 sec) Binary
2348 Time Step No. = 400 Elapsed Time = 1.247590E+05 days
2349 Date: 05/18/06 Time: 10:23:41 CPU Time: 0 0: 1:25.60 ( 85.60 sec) Binary
2351 Time Step No. = 420 Elapsed Time = 1.251232E+05 days
2352 Date: 05/18/06 Time: 10:23:45 CPU Time: 0 0: 1:30.43 ( 90.43 sec) Binary
2354 Time Step No. = 440 Elapsed Time = 1.256932E+05 days
2355 Date: 05/18/06 Time: 10:23:49 CPU Time: 0 0: 1:34.01 ( 94.01 sec) Binary
2357 Time Step No. = 460 Elapsed Time = 1.297175E+05 days
2358 Date: 05/18/06 Time: 10:23:55 CPU Time: 0 0: 1:40.31 ( 100.31 sec) Binary
2360 Time Step No. = 480 Elapsed Time = 1.536827E+05 days
2361 Date: 05/18/06 Time: 10:24:03 CPU Time: 0 0: 1:48.35 ( 108.35 sec) Binary
2363 Time Step No. = 500 Elapsed Time = 1.675465E+05 days
2364 Date: 05/18/06 Time: 10:24:09 CPU Time: 0 0: 1:54.24 ( 114.24 sec) Binary
2366 Time Step No. = 520 Elapsed Time = 1.683237E+05 days
2367 Date: 05/18/06 Time: 10:24:17 CPU Time: 0 0: 2: 1.64 ( 121.64 sec) Binary
2369 Time Step No. = 540 Elapsed Time = 1.684494E+05 days
2370 Date: 05/18/06 Time: 10:24:20 CPU Time: 0 0: 2: 5.26 ( 125.26 sec) Binary
2372 Time Step No. = 560 Elapsed Time = 1.714114E+05 days
2373 Date: 05/18/06 Time: 10:24:25 CPU Time: 0 0: 2: 9.47 ( 129.47 sec) Binary
2375 Time Step No. = 580 Elapsed Time = 2.172821E+05 days
2376 Date: 05/18/06 Time: 10:24:31 CPU Time: 0 0: 2:15.79 ( 135.79 sec) Binary
2378 Time Step No. = 600 Elapsed Time = 2.418381E+05 days
2379 Date: 05/18/06 Time: 10:24:36 CPU Time: 0 0: 2:21.23 ( 141.23 sec) Binary
2381 Time Step No. = 620 Elapsed Time = 2.946886E+05 days
2382 Date: 05/18/06 Time: 10:24:43 CPU Time: 0 0: 2:27.79 ( 147.79 sec) Binary
2384 Time Step No. = 640 Elapsed Time = 3.455559E+05 days
2385 Date: 05/18/06 Time: 10:24:52 CPU Time: 0 0: 2:36.14 ( 156.14 sec) Binary
2387 Time Step No. = 660 Elapsed Time = 3.475921E+05 days
2388 Date: 05/18/06 Time: 10:24:54 CPU Time: 0 0: 2:39.10 ( 159.10 sec) Binary
2390 Time Step No. = 680 Elapsed Time = 3.652432E+05 days
2391 Date: 05/18/06 Time: 10:25:00 CPU Time: 0 0: 2:44.86 ( 164.86 sec) Binary
```

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2393 Time Step No. = 700 Elapsed Time = 3.652449E+05 days
2394 Date: 05/18/06 Time: 10:25:03 CPU Time: 0 0: 2:47.28 ( 167.28 sec) Binary
2396 Time Step No. = 720 Elapsed Time = 3.653298E+05 days
2397 Date: 05/18/06 Time: 10:25:06 CPU Time: 0 0: 2:50.34 ( 170.34 sec) Binary
2399 Time Step No. = 740 Elapsed Time = 3.665963E+05 days
2400 Date: 05/18/06 Time: 10:25:10 CPU Time: 0 0: 2:54.45 ( 174.45 sec) Binary
2402 Time Step No. = 760 Elapsed Time = 3.666047E+05 days
2403 Date: 05/18/06 Time: 10:25:12 CPU Time: 0 0: 2:56.00 ( 176.00 sec) Binary
2405 Time Step No. = 780 Elapsed Time = 3.673309E+05 days
2406 Date: 05/18/06 Time: 10:25:15 CPU Time: 0 0: 2:58.79 ( 178.79 sec) Binary
2408 Time Step No. = 800 Elapsed Time = 3.829760E+05 days
2409 Date: 05/18/06 Time: 10:25:20 CPU Time: 0 0: 3: 4.61 ( 184.61 sec) Binary
2411 Time Step No. = 820 Elapsed Time = 4.527294E+05 days
2412 Date: 05/18/06 Time: 10:25:27 CPU Time: 0 0: 3:11.49 ( 191.49 sec) Binary
2414 Time Step No. = 840 Elapsed Time = 5.448080E+05 days
2415 Date: 05/18/06 Time: 10:25:33 CPU Time: 0 0: 3:17.45 ( 197.45 sec) Binary
2417 Time Step No. = 860 Elapsed Time = 7.104959E+05 days
2418 Date: 05/18/06 Time: 10:25:40 CPU Time: 0 0: 3:23.78 ( 203.78 sec) Binary
2420 Time Step No. = 880 Elapsed Time = 7.696672E+05 days
2421 Date: 05/18/06 Time: 10:25:46 CPU Time: 0 0: 3:29.64 ( 209.64 sec) Binary
2423 Time Step No. = 900 Elapsed Time = 1.049399E+06 days
2424 Date: 05/18/06 Time: 10:25:51 CPU Time: 0 0: 3:35.14 ( 215.14 sec) Binary
2426 Time Step No. = 920 Elapsed Time = 1.449399E+06 days
2427 Date: 05/18/06 Time: 10:25:57 CPU Time: 0 0: 3:40.76 ( 220.76 sec) Binary
2429 Time Step No. = 940 Elapsed Time = 1.476205E+06 days
2430 Date: 05/18/06 Time: 10:26:05 CPU Time: 0 0: 3:48.77 ( 228.77 sec) Binary
2432 Time Step No. = 960 Elapsed Time = 1.728036E+06 days
2433 Date: 05/18/06 Time: 10:26:10 CPU Time: 0 0: 3:53.86 ( 233.86 sec) Binary
2435 Time Step No. = 980 Elapsed Time = 1.780697E+06 days
2436 Date: 05/18/06 Time: 10:26:16 CPU Time: 0 0: 3:59.64 ( 239.64 sec) Binary
2438 Time Step No. = 1000 Elapsed Time = 1.892708E+06 days
2439 Date: 05/18/06 Time: 10:26:23 CPU Time: 0 0: 4: 7.23 ( 247.23 sec) Binary
2441 Time Step No. = 1020 Elapsed Time = 2.135160E+06 days
2442 Date: 05/18/06 Time: 10:26:29 CPU Time: 0 0: 4:12.87 ( 252.87 sec) Binary
2444 Time Step No. = 1040 Elapsed Time = 2.460527E+06 days
2445 Date: 05/18/06 Time: 10:26:35 CPU Time: 0 0: 4:18.65 ( 258.65 sec) Binary
2447 Time Step No. = 1060 Elapsed Time = 2.586092E+06 days
2448 Date: 05/18/06 Time: 10:26:41 CPU Time: 0 0: 4:24.31 ( 264.31 sec) Binary
2450 Time Step No. = 1080 Elapsed Time = 2.799611E+06 days
2451 Date: 05/18/06 Time: 10:26:48 CPU Time: 0 0: 4:31.28 ( 271.28 sec) Binary
2453 Time Step No. = 1100 Elapsed Time = 3.059226E+06 days
2454 Date: 05/18/06 Time: 10:26:57 CPU Time: 0 0: 4:40.92 ( 280.92 sec) Binary
2456 Time Step No. = 1120 Elapsed Time = 3.185608E+06 days
2457 Date: 05/18/06 Time: 10:27:03 CPU Time: 0 0: 4:46.36 ( 286.36 sec) Binary
2459 Time Step No. = 1140 Elapsed Time = 3.288161E+06 days
2460 Date: 05/18/06 Time: 10:27:10 CPU Time: 0 0: 4:53.48 ( 293.48 sec) Binary
2462 Time Step No. = 1160 Elapsed Time = 3.615101E+06 days
2463 Date: 05/18/06 Time: 10:27:14 CPU Time: 0 0: 4:57.76 ( 297.76 sec) Binary
2466 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
2628 CPU Time (this time step) = 0.27 sec = 0.00007 hr
2629 CPU Time (total for run) = 346.30 sec = 0.09619 hr
2630 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
2482 CPU Time (this time step) = 0.23 sec = 0.00006 hr
2483 CPU Time (total for run) = 298.23 sec = 0.08284 hr
2484 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
3306 Date: 02/14/07 Time: 09:44:52 CPU Time: 0 0: 5:46.32 ( 346.32 sec) ASCII
3308 Time Step No. = 1162 Elapsed Time = 3.652431E+06 days
3309 Date: 02/14/07 Time: 09:44:52 CPU Time: 0 0: 5:46.32 ( 346.32 sec) Binary
3314 *****
3315 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3316 * Completed: 02/14/07 at 09:44:52 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3317 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
3160 Date: 05/18/06 Time: 10:27:15 CPU Time: 0 0: 4:58.25 ( 298.25 sec) ASCII
3162 Time Step No. = 1162 Elapsed Time = 3.652431E+06 days
3163 Date: 05/18/06 Time: 10:27:15 CPU Time: 0 0: 4:58.25 ( 298.25 sec) Binary
3168 *****
```

3169 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3170 * Completed: 05/18/06 at 10:27:15 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3171 *****

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

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004_OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004_OUT;1

BF2_QB0600_ES47_TEST7_V005_OUT.DIF

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005_OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3 ** Begun on: 02/14/07 at 09:44:40 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005_OUT;1
2 ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3 ** Begun on: 05/18/06 at 10:27:37 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005_OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005_INP;2
62 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005_OUT;1
61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R005]BF2_TEST7_R005_QA0500_INP;1
62 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005_OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_CLOSURE_DAT;1
67 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005_OUT;1
66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R005]BF2_CLOSURE_DAT;1
67 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005_OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005_OUT;1
72 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005_OUT;1
71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R005]BF2_VMS82_V500_ES47_TEST7_R005_OUT;1
72 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005_OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005_SUM;1
77 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005_OUT;1
76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R005]BF2_VMS82_V500_ES47_TEST7_R005_SUM;1
77 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005_OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005_BIN;1
82 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005_OUT;1
81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R005]BF2_VMS82_V500_ES47_TEST7_R005_BIN;1
82 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005_OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005_ROT;1

```
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
86 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R005]BF2_VMS82_V500_ES47_TEST7_R005.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
195 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
196 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
197 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
198 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
199 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
200 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
201 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
202 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
203 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
204 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
205 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
206 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
207 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
208 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
209 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
210 58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
211 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
212 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
213 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
214 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
215 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
216 64 0 0 CONCGT Salt concentration -- simple model kg/m^3
217 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
218 66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
224 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
225 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
226 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
227 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
228 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
229 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
230 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
231 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
232 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
233 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241 89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
247 95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
248 96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249 97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
```

```
257 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264 112 0 0 H2OFLOWIN Water inflow rate kg/s
265 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271 119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
272 120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
273 121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274 122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275 123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
276 124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
278
*****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
195 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200 48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204 52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205 53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206 54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207 55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208 56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209 57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
216 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
217 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
218 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
224 72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
225 73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
226 74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
227 75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
228 76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
229 77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
230 78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
231 79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
232 80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
233 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
234 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
235 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
236 84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
237 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
238 86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
239 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
240 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
241 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
```



```
880 Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
881 Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
883 -----
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
851 instead of Input IC's for the Waste
852 [0=No, 1=Yes] (ICWASTE) = 1
854 Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
855 Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
856 Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
857 Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
859 -----
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
949 39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
950 TOL = 1.0000E-02
951 SOCEFFMIN = 1.0000E-03
953 Fracture model will be used? (KFRACTURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
926 Fracture model will be used? (KFRACTURE): T
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
1086 Intrinsic reaction rate constants? (LINTRIN): F
1088 Reaction rate constants (RK):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
1059 Reaction rate constants (RK):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
1096 MgO hydration reaction rate constants:
1097 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100 Gas generation factors for biodegradation reaction:
1101 Waste Area # 1
1102 H2/H2S production (RXH2S) = 8.629000E-01
1103 CO2 production (RXCO2) = 0.000000E+00
1105 Gas generation factors for biodegradation reaction:
1106 Waste Area # 2
1107 H2/H2S production (RXH2S) = 8.629000E-01
1108 CO2 production (RXCO2) = 0.000000E+00
1110 Saturation cutoff value (SOCMIN): 0.000000E+00
1112 Stoichiometric coeff's for Rxn 1:
1113 H2 coefficient = 1.216300E+00
1114 H2O coefficient = -1.567300E+00
1115 Fe coefficient = -1.000000E+00
1116 Bio coefficient = 0.000000E+00
1117 Fe(OH)2 coefficient = 0.000000E+00
1118 FeS coefficient = 0.000000E+00
1119 MgO coefficient = 0.000000E+00
1120 Mg(OH)2 coefficient = 0.000000E+00
1121 MgCO3 coefficient = 0.000000E+00
1123 Stoichiometric coeff's for Rxn 2:
1124 H2 coefficient = 8.629000E-01
1125 H2O coefficient = 0.000000E+00
1126 Fe coefficient = 0.000000E+00
1127 Bio coefficient = -1.000000E+00
1128 Fe(OH)2 coefficient = 0.000000E+00
1129 FeS coefficient = 0.000000E+00
1130 MgO coefficient = 0.000000E+00
1131 Mg(OH)2 coefficient = 0.000000E+00
1132 MgCO3 coefficient = 0.000000E+00
1134 Stoichiometric coeff's for Rxn 3:
1135 H2 coefficient = 0.000000E+00
1136 H2O coefficient = 0.000000E+00
1137 Fe coefficient = 0.000000E+00
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1138 Bio coefficient = 0.000000E+00
1139 Fe(OH)2 coefficient = 0.000000E+00
1140 FeS coefficient = 0.000000E+00
1141 MgO coefficient = 0.000000E+00
1142 Mg(OH)2 coefficient = 0.000000E+00
1143 MgCO3 coefficient = 0.000000E+00
1145 Stoichiometric coeff's for Rxn 4:
1146 H2 coefficient = 0.000000E+00
1147 H2O coefficient = 0.000000E+00
1148 Fe coefficient = 0.000000E+00
1149 Bio coefficient = 0.000000E+00
1150 Fe(OH)2 coefficient = 0.000000E+00
1151 FeS coefficient = 0.000000E+00
1152 MgO coefficient = 0.000000E+00
1153 Mg(OH)2 coefficient = 0.000000E+00
1154 MgCO3 coefficient = 0.000000E+00
1156 Stoichiometric coeff's for Rxn 5:
1157 H2 coefficient = 0.000000E+00
1158 H2O coefficient = 0.000000E+00
1159 Fe coefficient = 0.000000E+00
1160 Bio coefficient = 0.000000E+00
1161 Fe(OH)2 coefficient = 0.000000E+00
1162 FeS coefficient = 0.000000E+00
1163 MgO coefficient = 0.000000E+00
1164 Mg(OH)2 coefficient = 0.000000E+00
1165 MgCO3 coefficient = 0.000000E+00
1167 Stoichiometric coeff's for Rxn 6:
1168 H2 coefficient = 0.000000E+00
1169 H2O coefficient = 0.000000E+00
1170 Fe coefficient = 0.000000E+00
1171 Bio coefficient = 0.000000E+00
1172 Fe(OH)2 coefficient = 0.000000E+00
1173 FeS coefficient = 0.000000E+00
1174 MgO coefficient = 0.000000E+00
1175 Mg(OH)2 coefficient = 0.000000E+00
1176 MgCO3 coefficient = 0.000000E+00
1178 Stoichiometric coeff's for Rxn 7:
1179 H2 coefficient = 0.000000E+00
1180 H2O coefficient = 0.000000E+00
1181 Fe coefficient = 0.000000E+00
1182 Bio coefficient = 0.000000E+00
1183 Fe(OH)2 coefficient = 0.000000E+00
1184 FeS coefficient = 0.000000E+00
1185 MgO coefficient = 0.000000E+00
1186 Mg(OH)2 coefficient = 0.000000E+00
1187 MgCO3 coefficient = 0.000000E+00
1189 Wicking term (SATWICK) = 0.000000E+00
1190 Humid rates to be smoothed? (LARXN) = T
1191 Concentration rates to be smoothed? (LARXN2) = F
1192 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1194 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
1067 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068 Gas coefficient = 1.216300E+00
1069 H2O coefficient = 1.567300E+00
1070 Fe coefficient = 1.000000E+00
1072 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073 Gas coefficient = 8.629000E-01
1074 H2O coefficient = 0.000000E+00
1075 Bio coefficient = 1.000000E+00
1077 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
1200 Molecular weights (WM):
1201 Fe(OH)2: 8.9862E-02 kg/mol
1202 FeS: 8.7900E-02 kg/mol
1203 MgO: 4.0304E-02 kg/mol
1204 Mg(OH)2: 5.8320E-02 kg/mol
1205 MgCO3: 8.4314E-02 kg/mol
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1207 Densities (DEN(1-4)):
1208 Fe: 7.8700E+03 kg/m3
1209 Fe(OH)2: 3.4000E+03 kg/m3
1210 FeS: 4.7000E+03 kg/m3
1211 Bio: 1.1000E+03 kg/m3
1213 Densities (DEN(5-8)):
1214 MgO: 3.6000E+03 kg/m3
1215 Mg(OH)2: 2.3700E+03 kg/m3
1216 MgCO3: 3.0500E+03 kg/m3
1217 SALT: 2.1700E+03 kg/m3
1219 Will creep closure be used (CLOSURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
1083 Wicking term (SATWICK) = 0.000000E+00
1084 Humid rates to be smoothed? (LARXN) = T
1085 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1087 Will creep closure be used (CLOSURE): T
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
1233 PHIUPPER = Upper porosity limit in permeability-porosity expression
1234 PHILOWER = Lower porosity limit in permeability-porosity expression
1235 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
1236 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1237 4 1.480000E+07 3.155700E+12 1 F
1238 MODPERM Parameters
1239 Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
1240 4 5.584700E-12 0.000000E+00
1242 Number of materials using closure (NMATCLOS) = 2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
1101 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
1102 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1103 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105 Number of materials using closure (NMATCLOS) = 2
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
1260 *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1263 *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1266 *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1269 *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
1272 *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
1276
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
1123 *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1126 *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1130
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
1300 57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1301 58 CELLCNC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1303 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
1154 47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1155 48 CELLCNC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1157 CAMCON Global Variable Units Conv
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
1772 CPU Time (this time step) = 0.14 sec = 0.00004 hr
1773 CPU Time (total for run) = 25.47 sec = 0.00707 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
1626 CPU Time (this time step) = 0.10 sec = 0.00003 hr
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1627 CPU Time (total for run) = 20.66 sec = 0.00574 hr
1628 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
2450 Date: 02/14/07 Time: 09:45:06 CPU Time: 0 0: 0:25.49 (25.49 sec) ASCII
2452 Time Step No. = 155 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:45:06 CPU Time: 0 0: 0:25.50 (25.50 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 1.602936E-04 days
2456 Date: 02/14/07 Time: 09:45:07 CPU Time: 0 0: 0:27.35 (27.35 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 2.060139E-02 days
2459 Date: 02/14/07 Time: 09:45:11 CPU Time: 0 0: 0:30.48 (30.48 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 1.665882E+00 days
2462 Date: 02/14/07 Time: 09:45:14 CPU Time: 0 0: 0:33.96 (33.96 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 6.830542E+01 days
2465 Date: 02/14/07 Time: 09:45:18 CPU Time: 0 0: 0:37.78 (37.78 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 9.026859E+02 days
2468 Date: 02/14/07 Time: 09:45:23 CPU Time: 0 0: 0:43.13 (43.13 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 5.565489E+03 days
2471 Date: 02/14/07 Time: 09:45:30 CPU Time: 0 0: 0:49.76 (49.76 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 1.541474E+04 days
2474 Date: 02/14/07 Time: 09:45:39 CPU Time: 0 0: 0:58.84 (58.84 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 2.464433E+04 days
2477 Date: 02/14/07 Time: 09:45:47 CPU Time: 0 0: 1: 6.56 (66.56 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 2.540653E+04 days
2480 Date: 02/14/07 Time: 09:45:54 CPU Time: 0 0: 1:13.95 (73.95 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 2.583713E+04 days
2483 Date: 02/14/07 Time: 09:45:58 CPU Time: 0 0: 1:17.79 (77.79 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 3.095805E+04 days
2486 Date: 02/14/07 Time: 09:46:06 CPU Time: 0 0: 1:25.40 (85.40 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 3.652922E+04 days
2489 Date: 02/14/07 Time: 09:46:15 CPU Time: 0 0: 1:34.85 (94.85 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 3.666828E+04 days
2492 Date: 02/14/07 Time: 09:46:19 CPU Time: 0 0: 1:39.07 (99.07 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 3.667257E+04 days
2495 Date: 02/14/07 Time: 09:46:21 CPU Time: 0 0: 1:40.93 (100.93 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 3.689196E+04 days
2498 Date: 02/14/07 Time: 09:46:25 CPU Time: 0 0: 1:45.02 (105.02 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 3.751198E+04 days
2501 Date: 02/14/07 Time: 09:46:31 CPU Time: 0 0: 1:50.87 (110.87 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 3.782453E+04 days
2504 Date: 02/14/07 Time: 09:46:35 CPU Time: 0 0: 1:54.50 (114.50 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 4.141513E+04 days
2507 Date: 02/14/07 Time: 09:46:42 CPU Time: 0 0: 2: 1.30 (121.30 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 5.494758E+04 days
2510 Date: 02/14/07 Time: 09:46:51 CPU Time: 0 0: 2:10.13 (130.13 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 5.880383E+04 days
2513 Date: 02/14/07 Time: 09:46:58 CPU Time: 0 0: 2:17.84 (137.84 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 6.677868E+04 days
2516 Date: 02/14/07 Time: 09:47:07 CPU Time: 0 0: 2:26.79 (146.79 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 7.749503E+04 days
2519 Date: 02/14/07 Time: 09:47:14 CPU Time: 0 0: 2:33.96 (153.96 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 8.560082E+04 days
2522 Date: 02/14/07 Time: 09:47:25 CPU Time: 0 0: 2:44.64 (164.64 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 8.561748E+04 days
2525 Date: 02/14/07 Time: 09:47:29 CPU Time: 0 0: 2:48.16 (168.16 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 8.706305E+04 days
2528 Date: 02/14/07 Time: 09:47:33 CPU Time: 0 0: 2:52.72 (172.72 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 8.948916E+04 days
2531 Date: 02/14/07 Time: 09:47:40 CPU Time: 0 0: 2:58.99 (178.99 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 1.244434E+05 days
2534 Date: 02/14/07 Time: 09:47:49 CPU Time: 0 0: 3: 8.21 (188.21 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 1.293962E+05 days
2537 Date: 02/14/07 Time: 09:47:58 CPU Time: 0 0: 3:17.38 (197.38 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 2.352116E+05 days
2540 Date: 02/14/07 Time: 09:48:06 CPU Time: 0 0: 3:25.58 (205.58 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 2.631586E+05 days
2543 Date: 02/14/07 Time: 09:48:17 CPU Time: 0 0: 3:36.36 (216.36 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 2.692618E+05 days
2546 Date: 02/14/07 Time: 09:48:24 CPU Time: 0 0: 3:43.24 (223.24 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.652431E+05 days
2549 Date: 02/14/07 Time: 09:48:34 CPU Time: 0 0: 3:53.23 (233.23 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.652437E+05 days
2552 Date: 02/14/07 Time: 09:48:37 CPU Time: 0 0: 3:56.50 (236.50 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 3.652474E+05 days
2555 Date: 02/14/07 Time: 09:48:43 CPU Time: 0 0: 4: 2.16 (242.16 sec) Binary

2557 Time Step No. = 840 Elapsed Time = 3.654644E+05 days
2558 Date: 02/14/07 Time: 09:48:49 CPU Time: 0 0: 4: 8.40 (248.40 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 3.661978E+05 days
2561 Date: 02/14/07 Time: 09:48:58 CPU Time: 0 0: 4:17.21 (257.21 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 3.665118E+05 days
2564 Date: 02/14/07 Time: 09:49:04 CPU Time: 0 0: 4:22.90 (262.90 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 3.665161E+05 days
2567 Date: 02/14/07 Time: 09:49:06 CPU Time: 0 0: 4:25.15 (265.15 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 3.666517E+05 days
2570 Date: 02/14/07 Time: 09:49:12 CPU Time: 0 0: 4:30.82 (270.82 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 3.669134E+05 days
2573 Date: 02/14/07 Time: 09:49:19 CPU Time: 0 0: 4:38.50 (278.50 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 3.696042E+05 days
2576 Date: 02/14/07 Time: 09:49:28 CPU Time: 0 0: 4:47.16 (287.16 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 3.704084E+05 days
2579 Date: 02/14/07 Time: 09:49:36 CPU Time: 0 0: 4:54.86 (294.86 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 3.707712E+05 days
2582 Date: 02/14/07 Time: 09:49:43 CPU Time: 0 0: 5: 2.35 (302.35 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 3.722262E+05 days
2585 Date: 02/14/07 Time: 09:49:50 CPU Time: 0 0: 5: 9.10 (309.10 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 3.909424E+05 days
2588 Date: 02/14/07 Time: 09:50:00 CPU Time: 0 0: 5:18.53 (318.53 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 4.040932E+05 days
2591 Date: 02/14/07 Time: 09:50:05 CPU Time: 0 0: 5:23.87 (323.87 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 4.163997E+05 days
2594 Date: 02/14/07 Time: 09:50:14 CPU Time: 0 0: 5:33.29 (333.29 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 4.437624E+05 days
2597 Date: 02/14/07 Time: 09:50:20 CPU Time: 0 0: 5:38.85 (338.85 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 5.658621E+05 days
2600 Date: 02/14/07 Time: 09:50:28 CPU Time: 0 0: 5:47.25 (347.25 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 7.046705E+05 days
2603 Date: 02/14/07 Time: 09:50:36 CPU Time: 0 0: 5:55.37 (355.37 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 7.381612E+05 days
2606 Date: 02/14/07 Time: 09:50:42 CPU Time: 0 0: 6: 0.84 (360.84 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 9.116476E+05 days
2609 Date: 02/14/07 Time: 09:50:52 CPU Time: 0 0: 6:10.55 (370.55 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 9.684741E+05 days
2612 Date: 02/14/07 Time: 09:51:01 CPU Time: 0 0: 6:19.69 (379.69 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 1.022758E+06 days
2615 Date: 02/14/07 Time: 09:51:09 CPU Time: 0 0: 6:27.75 (387.75 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 1.304477E+06 days
2618 Date: 02/14/07 Time: 09:51:18 CPU Time: 0 0: 6:36.54 (396.54 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 1.335824E+06 days
2621 Date: 02/14/07 Time: 09:51:26 CPU Time: 0 0: 6:44.37 (404.37 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 1.393919E+06 days
2624 Date: 02/14/07 Time: 09:51:35 CPU Time: 0 0: 6:54.16 (414.16 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 1.425600E+06 days
2627 Date: 02/14/07 Time: 09:51:45 CPU Time: 0 0: 7: 3.87 (423.87 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 1.580399E+06 days
2630 Date: 02/14/07 Time: 09:51:54 CPU Time: 0 0: 7:12.96 (432.96 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 1.602750E+06 days
2633 Date: 02/14/07 Time: 09:52:02 CPU Time: 0 0: 7:20.92 (440.92 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 1.806216E+06 days
2636 Date: 02/14/07 Time: 09:52:11 CPU Time: 0 0: 7:29.74 (449.74 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 1.891443E+06 days
2639 Date: 02/14/07 Time: 09:52:18 CPU Time: 0 0: 7:37.11 (457.11 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 2.031879E+06 days
2642 Date: 02/14/07 Time: 09:52:29 CPU Time: 0 0: 7:47.71 (467.71 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 2.100194E+06 days
2645 Date: 02/14/07 Time: 09:52:34 CPU Time: 0 0: 7:53.12 (473.12 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 2.116698E+06 days
2648 Date: 02/14/07 Time: 09:52:44 CPU Time: 0 0: 8: 3.02 (483.02 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 2.134148E+06 days
2651 Date: 02/14/07 Time: 09:52:54 CPU Time: 0 0: 8:12.59 (492.59 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 2.145128E+06 days
2654 Date: 02/14/07 Time: 09:53:03 CPU Time: 0 0: 8:21.75 (501.75 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 2.174866E+06 days
2657 Date: 02/14/07 Time: 09:53:11 CPU Time: 0 0: 8:29.74 (509.74 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 2.195982E+06 days
2660 Date: 02/14/07 Time: 09:53:19 CPU Time: 0 0: 8:37.16 (517.16 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 2.260984E+06 days
2663 Date: 02/14/07 Time: 09:53:27 CPU Time: 0 0: 8:46.04 (526.04 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 2.301705E+06 days
2666 Date: 02/14/07 Time: 09:53:34 CPU Time: 0 0: 8:53.11 (533.11 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 2.432519E+06 days
2669 Date: 02/14/07 Time: 09:53:42 CPU Time: 0 0: 9: 0.50 (540.50 sec) Binary

2671 Time Step No. = 1600 Elapsed Time = 2.435587E+06 days
2672 Date: 02/14/07 Time: 09:53:51 CPU Time: 0 0: 9: 9.17 (549.17 sec) Binary
2674 Time Step No. = 1620 Elapsed Time = 2.463476E+06 days
2675 Date: 02/14/07 Time: 09:53:55 CPU Time: 0 0: 9:13.49 (553.49 sec) Binary
2677 Time Step No. = 1640 Elapsed Time = 2.821366E+06 days
2678 Date: 02/14/07 Time: 09:54:01 CPU Time: 0 0: 9:19.25 (559.25 sec) Binary
2680 Time Step No. = 1660 Elapsed Time = 2.999402E+06 days
2681 Date: 02/14/07 Time: 09:54:09 CPU Time: 0 0: 9:27.97 (567.97 sec) Binary
2683 Time Step No. = 1680 Elapsed Time = 3.399402E+06 days
2684 Date: 02/14/07 Time: 09:54:15 CPU Time: 0 0: 9:33.22 (573.22 sec) Binary
2686 Time Step No. = 1700 Elapsed Time = 3.449911E+06 days
2687 Date: 02/14/07 Time: 09:54:28 CPU Time: 0 0: 9:46.68 (586.68 sec) Binary
2689 Time Step No. = 1720 Elapsed Time = 3.453010E+06 days
2690 Date: 02/14/07 Time: 09:54:38 CPU Time: 0 0: 9:56.65 (596.65 sec) Binary
2692 Time Step No. = 1740 Elapsed Time = 3.454154E+06 days
2693 Date: 02/14/07 Time: 09:54:44 CPU Time: 0 0:10: 2.16 (602.16 sec) Binary
2695 Time Step No. = 1760 Elapsed Time = 3.456469E+06 days
2696 Date: 02/14/07 Time: 09:54:52 CPU Time: 0 0:10:10.52 (610.52 sec) Binary
2698 Time Step No. = 1780 Elapsed Time = 3.459213E+06 days
2699 Date: 02/14/07 Time: 09:55:00 CPU Time: 0 0:10:18.75 (618.75 sec) Binary
2701 Time Step No. = 1800 Elapsed Time = 3.461847E+06 days
2702 Date: 02/14/07 Time: 09:55:08 CPU Time: 0 0:10:26.21 (626.21 sec) Binary
2704 Time Step No. = 1820 Elapsed Time = 3.465426E+06 days
2705 Date: 02/14/07 Time: 09:55:16 CPU Time: 0 0:10:34.59 (634.59 sec) Binary
2707 Time Step No. = 1840 Elapsed Time = 3.468037E+06 days
2708 Date: 02/14/07 Time: 09:55:26 CPU Time: 0 0:10:44.40 (644.40 sec) Binary
2710 Time Step No. = 1860 Elapsed Time = 3.471327E+06 days
2711 Date: 02/14/07 Time: 09:55:35 CPU Time: 0 0:10:53.66 (653.66 sec) Binary
2713 Time Step No. = 1880 Elapsed Time = 3.473863E+06 days
2714 Date: 02/14/07 Time: 09:55:44 CPU Time: 0 0:11: 2.79 (662.79 sec) Binary
2716 Time Step No. = 1900 Elapsed Time = 3.477561E+06 days
2717 Date: 02/14/07 Time: 09:55:55 CPU Time: 0 0:11:12.94 (672.94 sec) Binary
2719 Time Step No. = 1920 Elapsed Time = 3.480469E+06 days
2720 Date: 02/14/07 Time: 09:56:04 CPU Time: 0 0:11:22.75 (682.75 sec) Binary
2722 Time Step No. = 1940 Elapsed Time = 3.484165E+06 days
2723 Date: 02/14/07 Time: 09:56:13 CPU Time: 0 0:11:31.45 (691.45 sec) Binary
2725 Time Step No. = 1960 Elapsed Time = 3.553867E+06 days
2726 Date: 02/14/07 Time: 09:56:18 CPU Time: 0 0:11:36.25 (696.25 sec) Binary
2729 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
2304 Date: 05/18/06 Time: 10:27:57 CPU Time: 0 0: 0:20.68 (20.68 sec) ASCII
2306 Time Step No. = 155 Elapsed Time = 0.000000E+00 days
2307 Date: 05/18/06 Time: 10:27:57 CPU Time: 0 0: 0:20.68 (20.68 sec) Binary
2309 Time Step No. = 160 Elapsed Time = 1.602936E-04 days
2310 Date: 05/18/06 Time: 10:27:59 CPU Time: 0 0: 0:22.10 (22.10 sec) Binary
2312 Time Step No. = 180 Elapsed Time = 2.050139E-02 days
2313 Date: 05/18/06 Time: 10:28:01 CPU Time: 0 0: 0:24.46 (24.46 sec) Binary
2315 Time Step No. = 200 Elapsed Time = 1.665882E+00 days
2316 Date: 05/18/06 Time: 10:28:04 CPU Time: 0 0: 0:27.32 (27.32 sec) Binary
2318 Time Step No. = 220 Elapsed Time = 6.830542E+01 days
2319 Date: 05/18/06 Time: 10:28:07 CPU Time: 0 0: 0:30.34 (30.34 sec) Binary
2321 Time Step No. = 240 Elapsed Time = 9.026859E+02 days
2322 Date: 05/18/06 Time: 10:28:11 CPU Time: 0 0: 0:34.61 (34.61 sec) Binary
2324 Time Step No. = 260 Elapsed Time = 5.565489E+03 days
2325 Date: 05/18/06 Time: 10:28:17 CPU Time: 0 0: 0:40.17 (40.17 sec) Binary
2327 Time Step No. = 280 Elapsed Time = 1.541474E+04 days
2328 Date: 05/18/06 Time: 10:28:25 CPU Time: 0 0: 0:47.85 (47.85 sec) Binary
2330 Time Step No. = 300 Elapsed Time = 2.464433E+04 days
2331 Date: 05/18/06 Time: 10:28:31 CPU Time: 0 0: 0:54.20 (54.20 sec) Binary
2333 Time Step No. = 320 Elapsed Time = 2.540653E+04 days
2334 Date: 05/18/06 Time: 10:28:37 CPU Time: 0 0: 1: 0.17 (60.17 sec) Binary
2336 Time Step No. = 340 Elapsed Time = 2.583713E+04 days
2337 Date: 05/18/06 Time: 10:28:40 CPU Time: 0 0: 1: 3.34 (63.34 sec) Binary
2339 Time Step No. = 360 Elapsed Time = 3.095805E+04 days
2340 Date: 05/18/06 Time: 10:28:46 CPU Time: 0 0: 1: 9.39 (69.39 sec) Binary
2342 Time Step No. = 380 Elapsed Time = 3.652922E+04 days
2343 Date: 05/18/06 Time: 10:28:54 CPU Time: 0 0: 1:17.23 (77.23 sec) Binary
2345 Time Step No. = 400 Elapsed Time = 3.666828E+04 days
2346 Date: 05/18/06 Time: 10:28:58 CPU Time: 0 0: 1:20.79 (80.79 sec) Binary
2348 Time Step No. = 420 Elapsed Time = 3.667257E+04 days
2349 Date: 05/18/06 Time: 10:28:59 CPU Time: 0 0: 1:22.42 (82.42 sec) Binary
2351 Time Step No. = 440 Elapsed Time = 3.689196E+04 days
2352 Date: 05/18/06 Time: 10:29:03 CPU Time: 0 0: 1:25.91 (85.91 sec) Binary
2354 Time Step No. = 460 Elapsed Time = 3.751198E+04 days
2355 Date: 05/18/06 Time: 10:29:08 CPU Time: 0 0: 1:30.98 (90.98 sec) Binary

2357 Time Step No. = 480 Elapsed Time = 3.782453E+04 days
2358 Date: 05/18/06 Time: 10:29:11 CPU Time: 0 0: 1:34.15 (94.15 sec) Binary
2360 Time Step No. = 500 Elapsed Time = 4.141513E+04 days
2361 Date: 05/18/06 Time: 10:29:17 CPU Time: 0 0: 1:40.06 (100.06 sec) Binary
2363 Time Step No. = 520 Elapsed Time = 5.494758E+04 days
2364 Date: 05/18/06 Time: 10:29:25 CPU Time: 0 0: 1:47.70 (107.70 sec) Binary
2366 Time Step No. = 540 Elapsed Time = 5.880383E+04 days
2367 Date: 05/18/06 Time: 10:29:31 CPU Time: 0 0: 1:54.38 (114.38 sec) Binary
2369 Time Step No. = 560 Elapsed Time = 6.677868E+04 days
2370 Date: 05/18/06 Time: 10:29:39 CPU Time: 0 0: 2: 2.22 (122.22 sec) Binary
2372 Time Step No. = 580 Elapsed Time = 7.749503E+04 days
2373 Date: 05/18/06 Time: 10:29:45 CPU Time: 0 0: 2: 8.48 (128.48 sec) Binary
2375 Time Step No. = 600 Elapsed Time = 8.560082E+04 days
2376 Date: 05/18/06 Time: 10:29:55 CPU Time: 0 0: 2:17.82 (137.82 sec) Binary
2378 Time Step No. = 620 Elapsed Time = 8.561748E+04 days
2379 Date: 05/18/06 Time: 10:29:58 CPU Time: 0 0: 2:20.99 (140.99 sec) Binary
2381 Time Step No. = 640 Elapsed Time = 8.706305E+04 days
2382 Date: 05/18/06 Time: 10:30:02 CPU Time: 0 0: 2:25.06 (145.06 sec) Binary
2384 Time Step No. = 660 Elapsed Time = 8.948916E+04 days
2385 Date: 05/18/06 Time: 10:30:08 CPU Time: 0 0: 2:30.87 (150.87 sec) Binary
2387 Time Step No. = 680 Elapsed Time = 1.244434E+05 days
2388 Date: 05/18/06 Time: 10:30:16 CPU Time: 0 0: 2:39.18 (159.18 sec) Binary
2390 Time Step No. = 700 Elapsed Time = 1.293962E+05 days
2391 Date: 05/18/06 Time: 10:30:24 CPU Time: 0 0: 2:47.23 (167.23 sec) Binary
2393 Time Step No. = 720 Elapsed Time = 2.352116E+05 days
2394 Date: 05/18/06 Time: 10:30:31 CPU Time: 0 0: 2:54.46 (174.46 sec) Binary
2396 Time Step No. = 740 Elapsed Time = 2.631586E+05 days
2397 Date: 05/18/06 Time: 10:30:41 CPU Time: 0 0: 3: 3.99 (183.99 sec) Binary
2399 Time Step No. = 760 Elapsed Time = 2.692618E+05 days
2400 Date: 05/18/06 Time: 10:30:47 CPU Time: 0 0: 3: 9.97 (189.97 sec) Binary
2402 Time Step No. = 780 Elapsed Time = 3.652431E+05 days
2403 Date: 05/18/06 Time: 10:30:56 CPU Time: 0 0: 3:18.61 (198.61 sec) Binary
2405 Time Step No. = 800 Elapsed Time = 3.652437E+05 days
2406 Date: 05/18/06 Time: 10:30:58 CPU Time: 0 0: 3:21.38 (201.38 sec) Binary
2408 Time Step No. = 820 Elapsed Time = 3.652474E+05 days
2409 Date: 05/18/06 Time: 10:31:03 CPU Time: 0 0: 3:26.42 (206.42 sec) Binary
2411 Time Step No. = 840 Elapsed Time = 3.654644E+05 days
2412 Date: 05/18/06 Time: 10:31:09 CPU Time: 0 0: 3:32.06 (212.06 sec) Binary
2414 Time Step No. = 860 Elapsed Time = 3.661978E+05 days
2415 Date: 05/18/06 Time: 10:31:17 CPU Time: 0 0: 3:40.11 (220.11 sec) Binary
2417 Time Step No. = 880 Elapsed Time = 3.665118E+05 days
2418 Date: 05/18/06 Time: 10:31:22 CPU Time: 0 0: 3:45.04 (225.04 sec) Binary
2420 Time Step No. = 900 Elapsed Time = 3.665161E+05 days
2421 Date: 05/18/06 Time: 10:31:24 CPU Time: 0 0: 3:46.88 (226.88 sec) Binary
2423 Time Step No. = 920 Elapsed Time = 3.666517E+05 days
2424 Date: 05/18/06 Time: 10:31:29 CPU Time: 0 0: 3:51.60 (231.60 sec) Binary
2426 Time Step No. = 940 Elapsed Time = 3.669134E+05 days
2427 Date: 05/18/06 Time: 10:31:35 CPU Time: 0 0: 3:58.00 (238.00 sec) Binary
2429 Time Step No. = 960 Elapsed Time = 3.696042E+05 days
2430 Date: 05/18/06 Time: 10:31:42 CPU Time: 0 0: 4: 4.99 (244.99 sec) Binary
2432 Time Step No. = 980 Elapsed Time = 3.704084E+05 days
2433 Date: 05/18/06 Time: 10:31:48 CPU Time: 0 0: 4:11.11 (251.11 sec) Binary
2435 Time Step No. = 1000 Elapsed Time = 3.707712E+05 days
2436 Date: 05/18/06 Time: 10:31:54 CPU Time: 0 0: 4:17.19 (257.19 sec) Binary
2438 Time Step No. = 1020 Elapsed Time = 3.722262E+05 days
2439 Date: 05/18/06 Time: 10:32:00 CPU Time: 0 0: 4:22.67 (262.67 sec) Binary
2441 Time Step No. = 1040 Elapsed Time = 3.909424E+05 days
2442 Date: 05/18/06 Time: 10:32:07 CPU Time: 0 0: 4:30.29 (270.29 sec) Binary
2444 Time Step No. = 1060 Elapsed Time = 4.040932E+05 days
2445 Date: 05/18/06 Time: 10:32:12 CPU Time: 0 0: 4:34.62 (274.62 sec) Binary
2447 Time Step No. = 1080 Elapsed Time = 4.163997E+05 days
2448 Date: 05/18/06 Time: 10:32:19 CPU Time: 0 0: 4:42.27 (282.27 sec) Binary
2450 Time Step No. = 1100 Elapsed Time = 4.437624E+05 days
2451 Date: 05/18/06 Time: 10:32:24 CPU Time: 0 0: 4:46.76 (286.76 sec) Binary
2453 Time Step No. = 1120 Elapsed Time = 5.658621E+05 days
2454 Date: 05/18/06 Time: 10:32:31 CPU Time: 0 0: 4:53.34 (293.34 sec) Binary
2456 Time Step No. = 1140 Elapsed Time = 7.046705E+05 days
2457 Date: 05/18/06 Time: 10:32:37 CPU Time: 0 0: 4:59.87 (299.87 sec) Binary
2459 Time Step No. = 1160 Elapsed Time = 7.381612E+05 days
2460 Date: 05/18/06 Time: 10:32:42 CPU Time: 0 0: 5: 4.30 (304.30 sec) Binary
2462 Time Step No. = 1180 Elapsed Time = 9.116476E+05 days
2463 Date: 05/18/06 Time: 10:32:49 CPU Time: 0 0: 5:12.15 (312.15 sec) Binary
2465 Time Step No. = 1200 Elapsed Time = 9.684741E+05 days
2466 Date: 05/18/06 Time: 10:32:57 CPU Time: 0 0: 5:19.57 (319.57 sec) Binary
2468 Time Step No. = 1220 Elapsed Time = 1.022758E+06 days
2469 Date: 05/18/06 Time: 10:33:03 CPU Time: 0 0: 5:26.11 (326.11 sec) Binary

2471 Time Step No. = 1240 Elapsed Time = 1.304477E+06 days
2472 Date: 05/18/06 Time: 10:33:11 CPU Time: 0 0: 5:33.67 (333.67 sec) Binary
2474 Time Step No. = 1260 Elapsed Time = 1.335824E+06 days
2475 Date: 05/18/06 Time: 10:33:17 CPU Time: 0 0: 5:40.00 (340.00 sec) Binary
2477 Time Step No. = 1280 Elapsed Time = 1.393919E+06 days
2478 Date: 05/18/06 Time: 10:33:25 CPU Time: 0 0: 5:47.93 (347.93 sec) Binary
2480 Time Step No. = 1300 Elapsed Time = 1.425600E+06 days
2481 Date: 05/18/06 Time: 10:33:33 CPU Time: 0 0: 5:55.82 (355.82 sec) Binary
2483 Time Step No. = 1320 Elapsed Time = 1.580399E+06 days
2484 Date: 05/18/06 Time: 10:33:41 CPU Time: 0 0: 6: 3.19 (363.19 sec) Binary
2486 Time Step No. = 1340 Elapsed Time = 1.602750E+06 days
2487 Date: 05/18/06 Time: 10:33:48 CPU Time: 0 0: 6: 9.97 (369.97 sec) Binary
2489 Time Step No. = 1360 Elapsed Time = 1.806216E+06 days
2490 Date: 05/18/06 Time: 10:33:55 CPU Time: 0 0: 6:17.23 (377.23 sec) Binary
2492 Time Step No. = 1380 Elapsed Time = 1.891443E+06 days
2493 Date: 05/18/06 Time: 10:34:01 CPU Time: 0 0: 6:23.04 (383.04 sec) Binary
2495 Time Step No. = 1400 Elapsed Time = 2.031879E+06 days
2496 Date: 05/18/06 Time: 10:34:10 CPU Time: 0 0: 6:31.98 (391.98 sec) Binary
2498 Time Step No. = 1420 Elapsed Time = 2.100194E+06 days
2499 Date: 05/18/06 Time: 10:34:14 CPU Time: 0 0: 6:36.41 (396.41 sec) Binary
2501 Time Step No. = 1440 Elapsed Time = 2.116698E+06 days
2502 Date: 05/18/06 Time: 10:34:23 CPU Time: 0 0: 6:44.72 (404.72 sec) Binary
2504 Time Step No. = 1460 Elapsed Time = 2.134148E+06 days
2505 Date: 05/18/06 Time: 10:34:31 CPU Time: 0 0: 6:52.90 (412.90 sec) Binary
2507 Time Step No. = 1480 Elapsed Time = 2.145128E+06 days
2508 Date: 05/18/06 Time: 10:34:38 CPU Time: 0 0: 7: 0.26 (420.26 sec) Binary
2510 Time Step No. = 1500 Elapsed Time = 2.174866E+06 days
2511 Date: 05/18/06 Time: 10:34:45 CPU Time: 0 0: 7: 6.66 (426.66 sec) Binary
2513 Time Step No. = 1520 Elapsed Time = 2.195982E+06 days
2514 Date: 05/18/06 Time: 10:34:51 CPU Time: 0 0: 7:12.65 (432.65 sec) Binary
2516 Time Step No. = 1540 Elapsed Time = 2.260984E+06 days
2517 Date: 05/18/06 Time: 10:34:58 CPU Time: 0 0: 7:19.94 (439.94 sec) Binary
2519 Time Step No. = 1560 Elapsed Time = 2.301705E+06 days
2520 Date: 05/18/06 Time: 10:35:04 CPU Time: 0 0: 7:26.00 (446.00 sec) Binary
2522 Time Step No. = 1580 Elapsed Time = 2.432519E+06 days
2523 Date: 05/18/06 Time: 10:35:10 CPU Time: 0 0: 7:32.34 (452.34 sec) Binary
2525 Time Step No. = 1600 Elapsed Time = 2.435587E+06 days
2526 Date: 05/18/06 Time: 10:35:18 CPU Time: 0 0: 7:39.80 (459.80 sec) Binary
2528 Time Step No. = 1620 Elapsed Time = 2.463476E+06 days
2529 Date: 05/18/06 Time: 10:35:22 CPU Time: 0 0: 7:43.66 (463.66 sec) Binary
2531 Time Step No. = 1640 Elapsed Time = 2.821366E+06 days
2532 Date: 05/18/06 Time: 10:35:27 CPU Time: 0 0: 7:48.63 (468.63 sec) Binary
2534 Time Step No. = 1660 Elapsed Time = 2.999402E+06 days
2535 Date: 05/18/06 Time: 10:35:34 CPU Time: 0 0: 7:56.04 (476.04 sec) Binary
2537 Time Step No. = 1680 Elapsed Time = 3.399402E+06 days
2538 Date: 05/18/06 Time: 10:35:39 CPU Time: 0 0: 8: 0.81 (480.81 sec) Binary
2540 Time Step No. = 1700 Elapsed Time = 3.449911E+06 days
2541 Date: 05/18/06 Time: 10:35:51 CPU Time: 0 0: 8:13.01 (493.01 sec) Binary
2543 Time Step No. = 1720 Elapsed Time = 3.453010E+06 days
2544 Date: 05/18/06 Time: 10:36:00 CPU Time: 0 0: 8:21.57 (501.57 sec) Binary
2546 Time Step No. = 1740 Elapsed Time = 3.454154E+06 days
2547 Date: 05/18/06 Time: 10:36:05 CPU Time: 0 0: 8:26.62 (506.62 sec) Binary
2549 Time Step No. = 1760 Elapsed Time = 3.456469E+06 days
2550 Date: 05/18/06 Time: 10:36:13 CPU Time: 0 0: 8:34.23 (514.23 sec) Binary
2552 Time Step No. = 1780 Elapsed Time = 3.459213E+06 days
2553 Date: 05/18/06 Time: 10:36:20 CPU Time: 0 0: 8:41.61 (521.61 sec) Binary
2555 Time Step No. = 1800 Elapsed Time = 3.461847E+06 days
2556 Date: 05/18/06 Time: 10:36:27 CPU Time: 0 0: 8:48.25 (528.25 sec) Binary
2558 Time Step No. = 1820 Elapsed Time = 3.465426E+06 days
2559 Date: 05/18/06 Time: 10:36:34 CPU Time: 0 0: 8:55.58 (535.58 sec) Binary
2561 Time Step No. = 1840 Elapsed Time = 3.468037E+06 days
2562 Date: 05/18/06 Time: 10:36:42 CPU Time: 0 0: 9: 3.75 (543.75 sec) Binary
2564 Time Step No. = 1860 Elapsed Time = 3.471327E+06 days
2565 Date: 05/18/06 Time: 10:36:50 CPU Time: 0 0: 9:11.69 (551.69 sec) Binary
2567 Time Step No. = 1880 Elapsed Time = 3.473863E+06 days
2568 Date: 05/18/06 Time: 10:36:58 CPU Time: 0 0: 9:19.42 (559.42 sec) Binary
2570 Time Step No. = 1900 Elapsed Time = 3.477561E+06 days
2571 Date: 05/18/06 Time: 10:37:06 CPU Time: 0 0: 9:27.80 (567.80 sec) Binary
2573 Time Step No. = 1920 Elapsed Time = 3.480469E+06 days
2574 Date: 05/18/06 Time: 10:37:14 CPU Time: 0 0: 9:35.87 (575.87 sec) Binary
2576 Time Step No. = 1940 Elapsed Time = 3.484165E+06 days
2577 Date: 05/18/06 Time: 10:37:22 CPU Time: 0 0: 9:43.27 (583.27 sec) Binary
2579 Time Step No. = 1960 Elapsed Time = 3.553867E+06 days
2580 Date: 05/18/06 Time: 10:37:26 CPU Time: 0 0: 9:47.26 (587.26 sec) Binary
2583 Restart information has been written to I/O unit 2 in DISKW, file name:

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
2745 CPU Time (this time step) = 0.13 sec = 0.00004 hr
2746 CPU Time (total for run) = 697.37 sec = 0.19371 hr
2747 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
2599 CPU Time (this time step) = 0.11 sec = 0.00003 hr
2600 CPU Time (total for run) = 588.20 sec = 0.16339 hr
2601 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
3423 Date: 02/14/07 Time: 09:56:19 CPU Time: 0 0:11:37.39 ( 697.39 sec) ASCII
3425 Time Step No. = 1966 Elapsed Time = 3.652431E+06 days
3426 Date: 02/14/07 Time: 09:56:19 CPU Time: 0 0:11:37.39 ( 697.39 sec) Binary
3431 *****
3432 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3433 * Completed: 02/14/07 at 09:56:19 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3434 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
3277 Date: 05/18/06 Time: 10:37:27 CPU Time: 0 0: 9:48.21 ( 588.21 sec) ASCII
3279 Time Step No. = 1966 Elapsed Time = 3.652431E+06 days
3280 Date: 05/18/06 Time: 10:37:27 CPU Time: 0 0: 9:48.21 ( 588.21 sec) Binary
3285 *****
3286 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3287 * Completed: 05/18/06 at 10:37:27 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3288 *****
*****
```

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

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

BF2_QB0600_ES47_TEST7_V006_OUT.DIF

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*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3 ** Begun on: 02/14/07 at 09:45:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
2 ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3 ** Begun on: 05/18/06 at 10:27:58 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R006]BF2_TEST7_R006_QA0500.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R006]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
72 *****
```



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*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
  71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
  76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R006]BF2_VMS82_V500_ES47_TEST7_R006.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
  81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R006]BF2_VMS82_V500_ES47_TEST7_R006.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
  86 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R006]BF2_VMS82_V500_ES47_TEST7_R006.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
  195 43 0 0 RKNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196 44 0 0 RKNR(I,J,K,6) Fe sulfidation rate mol/s
  197 45 0 0 RKNR(I,J,K,7) MgO hydration rate mol/s
  198 46 0 0 RKNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199 47 0 0 RKNR(I,J,K,9) MgO carbonation rate mol/s
  200 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  207 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  208 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  209 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  210 58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  211 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  212 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  213 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  214 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  215 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  216 64 0 0 CONCST Salt concentration -- simple model kg/m^3
  217 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  218 66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  219 67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  220 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  221 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  222 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  223 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  224 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  225 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  226 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  227 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  228 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  229 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  230 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  231 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  232 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
```

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233 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241 89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
247 95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
248 96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249 97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250 98 0 0 CONCRXN(10,I,J,K) C6-H10-05 concentration -- reaction path model kg/m^3
251 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264 112 0 0 H2OFLOWIN Water inflow rate kg/s
265 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271 119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
272 120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
273 121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274 122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275 123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
276 124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
278
*****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
195 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198 46 0 0 QR(I,J,K,4) C6-H10-05 consumption rate -- simple model kg/(s*m^3)
199 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200 48 1 1 CONCBIO C6-H10-05 concentration -- simple model kg/m^3
201 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204 52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205 53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206 54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207 55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208 56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209 57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210 58 0 0 GENRAT(10,I,J,K) C6-H10-05 consumption rate -- reaction path model kg/(s*m^3)
211 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
216 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
217 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
```

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
860 where IC's will be reset (NMATRESET) = 5
861 Material type indexes of material regions
862 where IC's will be reset (MATRESET) = 7 8 9 10 39
864 Borehole matl index number (MAT_BOREHOLE) = 0

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
842 where IC's will be reset (NMATRESET) = 4
843 Material type indexes of material regions
844 where IC's will be reset (MATRESET) = 7 8 9 10
846 Borehole matl index number (MAT_BOREHOLE) = 0

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
869 instead of Input IC's for the Cavities
870 [0=No, 1=Yes] (ICWASTE) = 1
872 Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
873 Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
874 Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
875 Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
876 Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
877 Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
878 Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
879 Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
880 Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
881 Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
883

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
851 instead of Input IC's for the Waste
852 [0=No, 1=Yes] (ICWASTE) = 1
854 Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
855 Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
856 Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
857 Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
859

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
949 39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
950 TOL = 1.0000E-02
951 SOCEFFMIN = 1.0000E-03
953 Fracture model will be used? (KFRACTURE): T

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
926 Fracture model will be used? (KFRACTURE): T

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
1086 Intrinsic reaction rate constants? (LINTRIN): F
1088 Reaction rate constants (RK):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
1059 Reaction rate constants (RK):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
1096 MgO hydration reaction rate constants:
1097 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100 Gas generation factors for biodegradation reaction:
1101 Waste Area # 1
1102 H2/H2S production (RXH2S) = 1.002000E+00
1103 CO2 production (RXCO2) = 0.000000E+00
1105 Gas generation factors for biodegradation reaction:
1106 Waste Area # 2
1107 H2/H2S production (RXH2S) = 1.002000E+00
1108 CO2 production (RXCO2) = 0.000000E+00
1110 Saturation cutoff value (SOCMIN): 0.000000E+00

1112 Stoichiometric coeff's for Rxn 1:
1113 H2 coefficient = 1.014400E+00
1114 H2O coefficient = -1.971300E+00
1115 Fe coefficient = -1.000000E+00
1116 Bio coefficient = 0.000000E+00
1117 Fe(OH)2 coefficient = 0.000000E+00
1118 FeS coefficient = 0.000000E+00
1119 MgO coefficient = 0.000000E+00
1120 Mg(OH)2 coefficient = 0.000000E+00
1121 MgCO3 coefficient = 0.000000E+00
1123 Stoichiometric coeff's for Rxn 2:
1124 H2 coefficient = 1.002000E+00
1125 H2O coefficient = 0.000000E+00
1126 Fe coefficient = 0.000000E+00
1127 Bio coefficient = -1.000000E+00
1128 Fe(OH)2 coefficient = 0.000000E+00
1129 FeS coefficient = 0.000000E+00
1130 MgO coefficient = 0.000000E+00
1131 Mg(OH)2 coefficient = 0.000000E+00
1132 MgCO3 coefficient = 0.000000E+00
1134 Stoichiometric coeff's for Rxn 3:
1135 H2 coefficient = 0.000000E+00
1136 H2O coefficient = 0.000000E+00
1137 Fe coefficient = 0.000000E+00
1138 Bio coefficient = 0.000000E+00
1139 Fe(OH)2 coefficient = 0.000000E+00
1140 FeS coefficient = 0.000000E+00
1141 MgO coefficient = 0.000000E+00
1142 Mg(OH)2 coefficient = 0.000000E+00
1143 MgCO3 coefficient = 0.000000E+00
1145 Stoichiometric coeff's for Rxn 4:
1146 H2 coefficient = 0.000000E+00
1147 H2O coefficient = 0.000000E+00
1148 Fe coefficient = 0.000000E+00
1149 Bio coefficient = 0.000000E+00
1150 Fe(OH)2 coefficient = 0.000000E+00
1151 FeS coefficient = 0.000000E+00
1152 MgO coefficient = 0.000000E+00
1153 Mg(OH)2 coefficient = 0.000000E+00
1154 MgCO3 coefficient = 0.000000E+00
1156 Stoichiometric coeff's for Rxn 5:
1157 H2 coefficient = 0.000000E+00
1158 H2O coefficient = 0.000000E+00
1159 Fe coefficient = 0.000000E+00
1160 Bio coefficient = 0.000000E+00
1161 Fe(OH)2 coefficient = 0.000000E+00
1162 FeS coefficient = 0.000000E+00
1163 MgO coefficient = 0.000000E+00
1164 Mg(OH)2 coefficient = 0.000000E+00
1165 MgCO3 coefficient = 0.000000E+00
1167 Stoichiometric coeff's for Rxn 6:
1168 H2 coefficient = 0.000000E+00
1169 H2O coefficient = 0.000000E+00
1170 Fe coefficient = 0.000000E+00
1171 Bio coefficient = 0.000000E+00
1172 Fe(OH)2 coefficient = 0.000000E+00
1173 FeS coefficient = 0.000000E+00
1174 MgO coefficient = 0.000000E+00
1175 Mg(OH)2 coefficient = 0.000000E+00
1176 MgCO3 coefficient = 0.000000E+00
1178 Stoichiometric coeff's for Rxn 7:
1179 H2 coefficient = 0.000000E+00
1180 H2O coefficient = 0.000000E+00
1181 Fe coefficient = 0.000000E+00
1182 Bio coefficient = 0.000000E+00
1183 Fe(OH)2 coefficient = 0.000000E+00
1184 FeS coefficient = 0.000000E+00
1185 MgO coefficient = 0.000000E+00
1186 Mg(OH)2 coefficient = 0.000000E+00
1187 MgCO3 coefficient = 0.000000E+00

1189 **Wicking term (SATWICK) = 0.000000E+00**
1190 **Humid rates to be smoothed? (LARXN) = T**
1191 **Concentration rates to be smoothed? (LARXN2) = F**
1192 **Humid rate smoothing factor (ALPHARXN) = 1.000000E+03**
1194 Molecular weights (WM):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
1067 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068 Gas coefficient = 1.014400E+00
1069 H2O coefficient = 1.971300E+00
1070 Fe coefficient = 1.000000E+00
1072 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073 Gas coefficient = 1.002000E+00
1074 H2O coefficient = 0.000000E+00
1075 Bio coefficient = 1.000000E+00
1077 Molecular weights (WM):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
1200 **Molecular weights (WM):**
1201 **Fe(OH)2: 8.9862E-02 kg/mol**
1202 **FeS: 8.7900E-02 kg/mol**
1203 **MgO: 4.0304E-02 kg/mol**
1204 **Mg(OH)2: 5.8320E-02 kg/mol**
1205 **MgCO3: 8.4314E-02 kg/mol**
1207 **Densities (DEN(1-4)):**
1208 **Fe: 7.8700E+03 kg/m3**
1209 **Fe(OH)2: 3.4000E+03 kg/m3**
1210 **FeS: 4.7000E+03 kg/m3**
1211 **Bio: 1.1000E+03 kg/m3**
1213 **Densities (DEN(5-8)):**
1214 **MgO: 3.6000E+03 kg/m3**
1215 **Mg(OH)2: 2.3700E+03 kg/m3**
1216 **MgCO3: 3.0500E+03 kg/m3**
1217 **SALT: 2.1700E+03 kg/m3**
1219 Will creep closure be used (CLOSURE): T

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
1083 Wicking term (SATWICK) = 0.000000E+00
1084 Humid rates to be smoothed? (LARXN) = T
1085 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1087 Will creep closure be used (CLOSURE): T

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
1233 **PHIUPPER = Upper porosity limit in permeability-porosity expression**
1234 **PHILOWER = Lower porosity limit in permeability-porosity expression**
1235 **Model Number (PLITHO) [Pa] (TIME_CLOSOF) [s] (MODPERM) [-]**
1236 **Refer to the Closure LOOK-UP TABLE DATA FILE for values**
1237 **4 1.480000E+07 3.155700E+12 1 F**
1238 **MODPERM Parameters**
1239 **Model Number (CLOSPERFACT) [m^2] (CLOSPERMEXP) [-]**
1240 **4 5.584700E-12 0.000000E+00**
1242 Number of materials using closure (NMATCLOS) = 2

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
1101 Model Number (PLITHO) [Pa] (TIME_CLOSOF) [s] (CLOSPERFACT) [m^2] (CLOSPERMEXP) [-]
1102 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1103 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105 Number of materials using closure (NMATCLOS) = 2

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
1260 ***** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00**
1263 ***** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00**
1266 ***** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00**
1269 ***** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01**
1272 ***** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01**
1276

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1

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1123 *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1126 *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1130
*****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
 1300 57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301 58 CELLCNC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1303 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
 1154 47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1155 48 CELLCNC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
 1772 CPU Time (this time step) = 0.14 sec = 0.00004 hr
 1773 CPU Time (total for run) = 28.24 sec = 0.00784 hr
 1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
 1626 CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1627 CPU Time (total for run) = 23.20 sec = 0.00644 hr
 1628 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
 2450 Date: 02/14/07 Time: 09:45:32 CPU Time: 0 0: 0:28.26 ( 28.26 sec) ASCII
 2452 Time Step No. = 148 Elapsed Time = 0.000000E+00 days
 2453 Date: 02/14/07 Time: 09:45:32 CPU Time: 0 0: 0:28.26 ( 28.26 sec) Binary
 2455 Time Step No. = 160 Elapsed Time = 1.693989E-02 days
 2456 Date: 02/14/07 Time: 09:45:37 CPU Time: 0 0: 0:33.21 ( 33.21 sec) Binary
 2458 Time Step No. = 180 Elapsed Time = 1.499754E+00 days
 2459 Date: 02/14/07 Time: 09:45:41 CPU Time: 0 0: 0:36.96 ( 36.96 sec) Binary
 2461 Time Step No. = 200 Elapsed Time = 6.033075E+01 days
 2462 Date: 02/14/07 Time: 09:45:45 CPU Time: 0 0: 0:40.92 ( 40.92 sec) Binary
 2464 Time Step No. = 220 Elapsed Time = 2.893437E+02 days
 2465 Date: 02/14/07 Time: 09:45:50 CPU Time: 0 0: 0:45.59 ( 45.59 sec) Binary
 2467 Time Step No. = 240 Elapsed Time = 1.396859E+03 days
 2468 Date: 02/14/07 Time: 09:45:55 CPU Time: 0 0: 0:50.76 ( 50.76 sec) Binary
 2470 Time Step No. = 260 Elapsed Time = 8.613100E+03 days
 2471 Date: 02/14/07 Time: 09:46:02 CPU Time: 0 0: 0:57.35 ( 57.35 sec) Binary
 2473 Time Step No. = 280 Elapsed Time = 1.102377E+04 days
 2474 Date: 02/14/07 Time: 09:46:06 CPU Time: 0 0: 1: 1.27 ( 61.27 sec) Binary
 2476 Time Step No. = 300 Elapsed Time = 2.378052E+04 days
 2477 Date: 02/14/07 Time: 09:46:13 CPU Time: 0 0: 1: 8.51 ( 68.51 sec) Binary
 2479 Time Step No. = 320 Elapsed Time = 2.835195E+04 days
 2480 Date: 02/14/07 Time: 09:46:18 CPU Time: 0 0: 1:13.81 ( 73.81 sec) Binary
 2482 Time Step No. = 340 Elapsed Time = 3.652431E+04 days
 2483 Date: 02/14/07 Time: 09:46:30 CPU Time: 0 0: 1:25.19 ( 85.19 sec) Binary
 2485 Time Step No. = 360 Elapsed Time = 3.652432E+04 days
 2486 Date: 02/14/07 Time: 09:46:33 CPU Time: 0 0: 1:28.54 ( 88.54 sec) Binary
 2488 Time Step No. = 380 Elapsed Time = 3.652571E+04 days
 2489 Date: 02/14/07 Time: 09:46:36 CPU Time: 0 0: 1:31.48 ( 91.48 sec) Binary
 2491 Time Step No. = 400 Elapsed Time = 3.660922E+04 days
 2492 Date: 02/14/07 Time: 09:46:41 CPU Time: 0 0: 1:36.46 ( 96.46 sec) Binary
 2494 Time Step No. = 420 Elapsed Time = 3.666204E+04 days
 2495 Date: 02/14/07 Time: 09:46:43 CPU Time: 0 0: 1:38.36 ( 98.36 sec) Binary
 2497 Time Step No. = 440 Elapsed Time = 3.681434E+04 days
 2498 Date: 02/14/07 Time: 09:46:46 CPU Time: 0 0: 1:41.65 ( 101.65 sec) Binary
 2500 Time Step No. = 460 Elapsed Time = 4.034225E+04 days
 2501 Date: 02/14/07 Time: 09:46:51 CPU Time: 0 0: 1:46.55 ( 106.55 sec) Binary
 2503 Time Step No. = 480 Elapsed Time = 1.114354E+05 days
 2504 Date: 02/14/07 Time: 09:46:58 CPU Time: 0 0: 1:53.67 ( 113.67 sec) Binary
 2506 Time Step No. = 500 Elapsed Time = 1.517026E+05 days
 2507 Date: 02/14/07 Time: 09:47:10 CPU Time: 0 0: 2: 5.27 ( 125.27 sec) Binary
 2509 Time Step No. = 520 Elapsed Time = 1.887778E+05 days
 2510 Date: 02/14/07 Time: 09:47:19 CPU Time: 0 0: 2:13.77 ( 133.77 sec) Binary
 2512 Time Step No. = 540 Elapsed Time = 2.709363E+05 days
 2513 Date: 02/14/07 Time: 09:47:29 CPU Time: 0 0: 2:23.77 ( 143.77 sec) Binary
 2515 Time Step No. = 560 Elapsed Time = 3.652431E+05 days
 2516 Date: 02/14/07 Time: 09:47:39 CPU Time: 0 0: 2:33.83 ( 153.83 sec) Binary
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2518 Time Step No. = 580 Elapsed Time = 3.657082E+05 days
2519 Date: 02/14/07 Time: 09:47:43 CPU Time: 0 0: 2:38.11 (158.11 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 3.665648E+05 days
2522 Date: 02/14/07 Time: 09:47:46 CPU Time: 0 0: 2:41.37 (161.37 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 3.666428E+05 days
2525 Date: 02/14/07 Time: 09:47:48 CPU Time: 0 0: 2:43.69 (163.69 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 3.734062E+05 days
2528 Date: 02/14/07 Time: 09:47:53 CPU Time: 0 0: 2:48.61 (168.61 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 4.270734E+05 days
2531 Date: 02/14/07 Time: 09:48:02 CPU Time: 0 0: 2:57.35 (177.35 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 4.797087E+05 days
2534 Date: 02/14/07 Time: 09:48:13 CPU Time: 0 0: 3: 8.33 (188.33 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 4.872588E+05 days
2537 Date: 02/14/07 Time: 09:48:18 CPU Time: 0 0: 3:12.77 (192.77 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 5.487048E+05 days
2540 Date: 02/14/07 Time: 09:48:26 CPU Time: 0 0: 3:20.90 (200.90 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 6.367867E+05 days
2543 Date: 02/14/07 Time: 09:48:34 CPU Time: 0 0: 3:29.25 (209.25 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 7.447857E+05 days
2546 Date: 02/14/07 Time: 09:48:43 CPU Time: 0 0: 3:38.49 (218.49 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 9.573700E+05 days
2549 Date: 02/14/07 Time: 09:48:52 CPU Time: 0 0: 3:46.91 (226.91 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 1.131770E+06 days
2552 Date: 02/14/07 Time: 09:48:59 CPU Time: 0 0: 3:54.11 (234.11 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 1.215464E+06 days
2555 Date: 02/14/07 Time: 09:49:08 CPU Time: 0 0: 4: 3.22 (243.22 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 1.307642E+06 days
2558 Date: 02/14/07 Time: 09:49:16 CPU Time: 0 0: 4:11.03 (251.03 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 1.331147E+06 days
2561 Date: 02/14/07 Time: 09:49:23 CPU Time: 0 0: 4:18.01 (258.01 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 1.340543E+06 days
2564 Date: 02/14/07 Time: 09:49:29 CPU Time: 0 0: 4:24.36 (264.36 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 1.361885E+06 days
2567 Date: 02/14/07 Time: 09:49:35 CPU Time: 0 0: 4:29.62 (269.62 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 1.389921E+06 days
2570 Date: 02/14/07 Time: 09:49:45 CPU Time: 0 0: 4:39.62 (279.62 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 1.395803E+06 days
2573 Date: 02/14/07 Time: 09:49:50 CPU Time: 0 0: 4:44.64 (284.64 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 1.396248E+06 days
2576 Date: 02/14/07 Time: 09:49:58 CPU Time: 0 0: 4:52.67 (292.67 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 1.400907E+06 days
2579 Date: 02/14/07 Time: 09:50:06 CPU Time: 0 0: 5: 0.51 (300.51 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 1.401669E+06 days
2582 Date: 02/14/07 Time: 09:50:10 CPU Time: 0 0: 5: 4.31 (304.31 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 1.452402E+06 days
2585 Date: 02/14/07 Time: 09:50:16 CPU Time: 0 0: 5:11.00 (311.00 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 1.481180E+06 days
2588 Date: 02/14/07 Time: 09:50:23 CPU Time: 0 0: 5:17.36 (317.36 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 1.516157E+06 days
2591 Date: 02/14/07 Time: 09:50:30 CPU Time: 0 0: 5:24.66 (324.66 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 1.536729E+06 days
2594 Date: 02/14/07 Time: 09:50:35 CPU Time: 0 0: 5:29.45 (329.45 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 1.558583E+06 days
2597 Date: 02/14/07 Time: 09:50:44 CPU Time: 0 0: 5:38.71 (338.71 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 1.568030E+06 days
2600 Date: 02/14/07 Time: 09:50:49 CPU Time: 0 0: 5:43.11 (343.11 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 1.569625E+06 days
2603 Date: 02/14/07 Time: 09:50:55 CPU Time: 0 0: 5:49.27 (349.27 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 1.586975E+06 days
2606 Date: 02/14/07 Time: 09:50:59 CPU Time: 0 0: 5:54.01 (354.01 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 1.778016E+06 days
2609 Date: 02/14/07 Time: 09:51:08 CPU Time: 0 0: 6: 2.78 (362.78 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 1.851752E+06 days
2612 Date: 02/14/07 Time: 09:51:19 CPU Time: 0 0: 6:13.04 (373.04 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 1.872533E+06 days
2615 Date: 02/14/07 Time: 09:51:24 CPU Time: 0 0: 6:18.86 (378.86 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 2.047943E+06 days
2618 Date: 02/14/07 Time: 09:51:34 CPU Time: 0 0: 6:28.80 (388.80 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 2.192064E+06 days
2621 Date: 02/14/07 Time: 09:51:43 CPU Time: 0 0: 6:37.73 (397.73 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 2.209031E+06 days
2624 Date: 02/14/07 Time: 09:51:50 CPU Time: 0 0: 6:44.90 (404.90 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 2.228198E+06 days
2627 Date: 02/14/07 Time: 09:51:58 CPU Time: 0 0: 6:51.87 (411.87 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 2.477165E+06 days
2630 Date: 02/14/07 Time: 09:52:07 CPU Time: 0 0: 7: 0.86 (420.86 sec) Binary

2632 Time Step No. = 1340 Elapsed Time = 2.582796E+06 days
2633 Date: 02/14/07 Time: 09:52:19 CPU Time: 0 0: 7:13.36 (433.36 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 2.658805E+06 days
2636 Date: 02/14/07 Time: 09:52:24 CPU Time: 0 0: 7:18.55 (438.55 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 2.660777E+06 days
2639 Date: 02/14/07 Time: 09:52:30 CPU Time: 0 0: 7:24.70 (444.70 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 2.694236E+06 days
2642 Date: 02/14/07 Time: 09:52:37 CPU Time: 0 0: 7:30.78 (450.78 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 2.897354E+06 days
2645 Date: 02/14/07 Time: 09:52:46 CPU Time: 0 0: 7:39.90 (459.90 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 3.068770E+06 days
2648 Date: 02/14/07 Time: 09:52:54 CPU Time: 0 0: 7:48.13 (468.13 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 3.070972E+06 days
2651 Date: 02/14/07 Time: 09:53:01 CPU Time: 0 0: 7:54.59 (474.59 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 3.092364E+06 days
2654 Date: 02/14/07 Time: 09:53:06 CPU Time: 0 0: 7:59.91 (479.91 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 3.321015E+06 days
2657 Date: 02/14/07 Time: 09:53:14 CPU Time: 0 0: 8: 8.13 (488.13 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 3.330337E+06 days
2660 Date: 02/14/07 Time: 09:53:23 CPU Time: 0 0: 8:16.71 (496.71 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 3.331762E+06 days
2663 Date: 02/14/07 Time: 09:53:29 CPU Time: 0 0: 8:22.53 (502.53 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 3.334405E+06 days
2666 Date: 02/14/07 Time: 09:53:34 CPU Time: 0 0: 8:28.18 (508.18 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 3.374435E+06 days
2669 Date: 02/14/07 Time: 09:53:43 CPU Time: 0 0: 8:36.62 (516.62 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 3.552011E+06 days
2672 Date: 02/14/07 Time: 09:53:48 CPU Time: 0 0: 8:42.29 (522.29 sec) Binary
2675 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
2304 Date: 05/18/06 Time: 10:28:21 CPU Time: 0 0: 0:23.22 (23.22 sec) ASCII
2306 Time Step No. = 148 Elapsed Time = 0.000000E+00 days
2307 Date: 05/18/06 Time: 10:28:21 CPU Time: 0 0: 0:23.22 (23.22 sec) Binary
2309 Time Step No. = 160 Elapsed Time = 1.693989E-02 days
2310 Date: 05/18/06 Time: 10:28:25 CPU Time: 0 0: 0:27.02 (27.02 sec) Binary
2312 Time Step No. = 180 Elapsed Time = 1.499754E+00 days
2313 Date: 05/18/06 Time: 10:28:28 CPU Time: 0 0: 0:29.91 (29.91 sec) Binary
2315 Time Step No. = 200 Elapsed Time = 6.033075E+01 days
2316 Date: 05/18/06 Time: 10:28:31 CPU Time: 0 0: 0:33.24 (33.24 sec) Binary
2318 Time Step No. = 220 Elapsed Time = 2.893437E+02 days
2319 Date: 05/18/06 Time: 10:28:35 CPU Time: 0 0: 0:37.22 (37.22 sec) Binary
2321 Time Step No. = 240 Elapsed Time = 1.396859E+03 days
2322 Date: 05/18/06 Time: 10:28:40 CPU Time: 0 0: 0:41.55 (41.55 sec) Binary
2324 Time Step No. = 260 Elapsed Time = 8.613100E+03 days
2325 Date: 05/18/06 Time: 10:28:45 CPU Time: 0 0: 0:46.87 (46.87 sec) Binary
2327 Time Step No. = 280 Elapsed Time = 1.102377E+04 days
2328 Date: 05/18/06 Time: 10:28:48 CPU Time: 0 0: 0:49.99 (49.99 sec) Binary
2330 Time Step No. = 300 Elapsed Time = 2.378052E+04 days
2331 Date: 05/18/06 Time: 10:28:54 CPU Time: 0 0: 0:55.69 (55.69 sec) Binary
2333 Time Step No. = 320 Elapsed Time = 2.835195E+04 days
2334 Date: 05/18/06 Time: 10:28:58 CPU Time: 0 0: 1: 0.01 (60.01 sec) Binary
2336 Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2337 Date: 05/18/06 Time: 10:29:08 CPU Time: 0 0: 1: 9.14 (69.14 sec) Binary
2339 Time Step No. = 360 Elapsed Time = 3.652432E+04 days
2340 Date: 05/18/06 Time: 10:29:10 CPU Time: 0 0: 1:11.83 (71.83 sec) Binary
2342 Time Step No. = 380 Elapsed Time = 3.652571E+04 days
2343 Date: 05/18/06 Time: 10:29:13 CPU Time: 0 0: 1:14.19 (74.19 sec) Binary
2345 Time Step No. = 400 Elapsed Time = 3.660922E+04 days
2346 Date: 05/18/06 Time: 10:29:17 CPU Time: 0 0: 1:18.21 (78.21 sec) Binary
2348 Time Step No. = 420 Elapsed Time = 3.666204E+04 days
2349 Date: 05/18/06 Time: 10:29:18 CPU Time: 0 0: 1:19.75 (79.75 sec) Binary
2351 Time Step No. = 440 Elapsed Time = 3.681434E+04 days
2352 Date: 05/18/06 Time: 10:29:21 CPU Time: 0 0: 1:22.39 (82.39 sec) Binary
2354 Time Step No. = 460 Elapsed Time = 4.034225E+04 days
2355 Date: 05/18/06 Time: 10:29:25 CPU Time: 0 0: 1:26.35 (86.35 sec) Binary
2357 Time Step No. = 480 Elapsed Time = 1.114354E+05 days
2358 Date: 05/18/06 Time: 10:29:31 CPU Time: 0 0: 1:32.09 (92.09 sec) Binary
2360 Time Step No. = 500 Elapsed Time = 1.517026E+05 days
2361 Date: 05/18/06 Time: 10:29:40 CPU Time: 0 0: 1:41.46 (101.46 sec) Binary
2363 Time Step No. = 520 Elapsed Time = 1.887778E+05 days
2364 Date: 05/18/06 Time: 10:29:47 CPU Time: 0 0: 1:48.34 (108.34 sec) Binary
2366 Time Step No. = 540 Elapsed Time = 2.709363E+05 days
2367 Date: 05/18/06 Time: 10:29:55 CPU Time: 0 0: 1:56.43 (116.43 sec) Binary
2369 Time Step No. = 560 Elapsed Time = 3.652431E+05 days
2370 Date: 05/18/06 Time: 10:30:03 CPU Time: 0 0: 2: 4.60 (124.60 sec) Binary

2372 Time Step No. = 580 Elapsed Time = 3.657082E+05 days
2373 Date: 05/18/06 Time: 10:30:07 CPU Time: 0 0: 2: 7.99 (127.99 sec) Binary
2375 Time Step No. = 600 Elapsed Time = 3.665648E+05 days
2376 Date: 05/18/06 Time: 10:30:09 CPU Time: 0 0: 2:10.60 (130.60 sec) Binary
2378 Time Step No. = 620 Elapsed Time = 3.666428E+05 days
2379 Date: 05/18/06 Time: 10:30:11 CPU Time: 0 0: 2:12.47 (132.47 sec) Binary
2381 Time Step No. = 640 Elapsed Time = 3.734062E+05 days
2382 Date: 05/18/06 Time: 10:30:15 CPU Time: 0 0: 2:16.48 (136.48 sec) Binary
2384 Time Step No. = 660 Elapsed Time = 4.270734E+05 days
2385 Date: 05/18/06 Time: 10:30:22 CPU Time: 0 0: 2:23.61 (143.61 sec) Binary
2387 Time Step No. = 680 Elapsed Time = 4.797087E+05 days
2388 Date: 05/18/06 Time: 10:30:31 CPU Time: 0 0: 2:32.60 (152.60 sec) Binary
2390 Time Step No. = 700 Elapsed Time = 4.872588E+05 days
2391 Date: 05/18/06 Time: 10:30:35 CPU Time: 0 0: 2:36.24 (156.24 sec) Binary
2393 Time Step No. = 720 Elapsed Time = 5.487048E+05 days
2394 Date: 05/18/06 Time: 10:30:42 CPU Time: 0 0: 2:42.86 (162.86 sec) Binary
2396 Time Step No. = 740 Elapsed Time = 6.367867E+05 days
2397 Date: 05/18/06 Time: 10:30:48 CPU Time: 0 0: 2:49.39 (169.39 sec) Binary
2399 Time Step No. = 760 Elapsed Time = 7.447857E+05 days
2400 Date: 05/18/06 Time: 10:30:55 CPU Time: 0 0: 2:56.59 (176.59 sec) Binary
2402 Time Step No. = 780 Elapsed Time = 9.573700E+05 days
2403 Date: 05/18/06 Time: 10:31:02 CPU Time: 0 0: 3: 3.15 (183.15 sec) Binary
2405 Time Step No. = 800 Elapsed Time = 1.131770E+06 days
2406 Date: 05/18/06 Time: 10:31:08 CPU Time: 0 0: 3: 8.81 (188.81 sec) Binary
2408 Time Step No. = 820 Elapsed Time = 1.215464E+06 days
2409 Date: 05/18/06 Time: 10:31:15 CPU Time: 0 0: 3:16.09 (196.09 sec) Binary
2411 Time Step No. = 840 Elapsed Time = 1.307642E+06 days
2412 Date: 05/18/06 Time: 10:31:21 CPU Time: 0 0: 3:22.39 (202.39 sec) Binary
2414 Time Step No. = 860 Elapsed Time = 1.331147E+06 days
2415 Date: 05/18/06 Time: 10:31:27 CPU Time: 0 0: 3:28.27 (208.27 sec) Binary
2417 Time Step No. = 880 Elapsed Time = 1.340543E+06 days
2418 Date: 05/18/06 Time: 10:31:32 CPU Time: 0 0: 3:33.69 (213.69 sec) Binary
2420 Time Step No. = 900 Elapsed Time = 1.361885E+06 days
2421 Date: 05/18/06 Time: 10:31:37 CPU Time: 0 0: 3:38.21 (218.21 sec) Binary
2423 Time Step No. = 920 Elapsed Time = 1.389921E+06 days
2424 Date: 05/18/06 Time: 10:31:46 CPU Time: 0 0: 3:46.72 (226.72 sec) Binary
2426 Time Step No. = 940 Elapsed Time = 1.395803E+06 days
2427 Date: 05/18/06 Time: 10:31:50 CPU Time: 0 0: 3:51.00 (231.00 sec) Binary
2429 Time Step No. = 960 Elapsed Time = 1.396248E+06 days
2430 Date: 05/18/06 Time: 10:31:57 CPU Time: 0 0: 3:57.87 (237.87 sec) Binary
2432 Time Step No. = 980 Elapsed Time = 1.400907E+06 days
2433 Date: 05/18/06 Time: 10:32:03 CPU Time: 0 0: 4: 4.55 (244.55 sec) Binary
2435 Time Step No. = 1000 Elapsed Time = 1.401669E+06 days
2436 Date: 05/18/06 Time: 10:32:07 CPU Time: 0 0: 4: 7.79 (247.79 sec) Binary
2438 Time Step No. = 1020 Elapsed Time = 1.452402E+06 days
2439 Date: 05/18/06 Time: 10:32:12 CPU Time: 0 0: 4:13.50 (253.50 sec) Binary
2441 Time Step No. = 1040 Elapsed Time = 1.481180E+06 days
2442 Date: 05/18/06 Time: 10:32:18 CPU Time: 0 0: 4:18.94 (258.94 sec) Binary
2444 Time Step No. = 1060 Elapsed Time = 1.516157E+06 days
2445 Date: 05/18/06 Time: 10:32:24 CPU Time: 0 0: 4:25.19 (265.19 sec) Binary
2447 Time Step No. = 1080 Elapsed Time = 1.536729E+06 days
2448 Date: 05/18/06 Time: 10:32:28 CPU Time: 0 0: 4:29.30 (269.30 sec) Binary
2450 Time Step No. = 1100 Elapsed Time = 1.558583E+06 days
2451 Date: 05/18/06 Time: 10:32:36 CPU Time: 0 0: 4:37.18 (277.18 sec) Binary
2453 Time Step No. = 1120 Elapsed Time = 1.568030E+06 days
2454 Date: 05/18/06 Time: 10:32:40 CPU Time: 0 0: 4:40.94 (280.94 sec) Binary
2456 Time Step No. = 1140 Elapsed Time = 1.569625E+06 days
2457 Date: 05/18/06 Time: 10:32:45 CPU Time: 0 0: 4:46.22 (286.22 sec) Binary
2459 Time Step No. = 1160 Elapsed Time = 1.586975E+06 days
2460 Date: 05/18/06 Time: 10:32:49 CPU Time: 0 0: 4:50.27 (290.27 sec) Binary
2462 Time Step No. = 1180 Elapsed Time = 1.778016E+06 days
2463 Date: 05/18/06 Time: 10:32:57 CPU Time: 0 0: 4:57.79 (297.79 sec) Binary
2465 Time Step No. = 1200 Elapsed Time = 1.851752E+06 days
2466 Date: 05/18/06 Time: 10:33:05 CPU Time: 0 0: 5: 6.53 (306.53 sec) Binary
2468 Time Step No. = 1220 Elapsed Time = 1.872533E+06 days
2469 Date: 05/18/06 Time: 10:33:10 CPU Time: 0 0: 5:11.30 (311.30 sec) Binary
2471 Time Step No. = 1240 Elapsed Time = 2.047943E+06 days
2472 Date: 05/18/06 Time: 10:33:19 CPU Time: 0 0: 5:19.71 (319.71 sec) Binary
2474 Time Step No. = 1260 Elapsed Time = 2.192064E+06 days
2475 Date: 05/18/06 Time: 10:33:26 CPU Time: 0 0: 5:27.32 (327.32 sec) Binary
2477 Time Step No. = 1280 Elapsed Time = 2.209031E+06 days
2478 Date: 05/18/06 Time: 10:33:33 CPU Time: 0 0: 5:33.48 (333.48 sec) Binary
2480 Time Step No. = 1300 Elapsed Time = 2.228198E+06 days
2481 Date: 05/18/06 Time: 10:33:39 CPU Time: 0 0: 5:39.34 (339.34 sec) Binary
2483 Time Step No. = 1320 Elapsed Time = 2.477165E+06 days
2484 Date: 05/18/06 Time: 10:33:46 CPU Time: 0 0: 5:46.51 (346.51 sec) Binary

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2486 Time Step No. = 1340 Elapsed Time = 2.582796E+06 days
2487 Date: 05/18/06 Time: 10:33:57 CPU Time: 0 0: 5:57.34 ( 357.34 sec) Binary
2489 Time Step No. = 1360 Elapsed Time = 2.658805E+06 days
2490 Date: 05/18/06 Time: 10:34:01 CPU Time: 0 0: 6: 1.79 ( 361.79 sec) Binary
2492 Time Step No. = 1380 Elapsed Time = 2.660777E+06 days
2493 Date: 05/18/06 Time: 10:34:06 CPU Time: 0 0: 6: 6.83 ( 366.83 sec) Binary
2495 Time Step No. = 1400 Elapsed Time = 2.694236E+06 days
2496 Date: 05/18/06 Time: 10:34:11 CPU Time: 0 0: 6:11.64 ( 371.64 sec) Binary
2498 Time Step No. = 1420 Elapsed Time = 2.897354E+06 days
2499 Date: 05/18/06 Time: 10:34:18 CPU Time: 0 0: 6:18.74 ( 378.74 sec) Binary
2501 Time Step No. = 1440 Elapsed Time = 3.068770E+06 days
2502 Date: 05/18/06 Time: 10:34:25 CPU Time: 0 0: 6:25.34 ( 385.34 sec) Binary
2504 Time Step No. = 1460 Elapsed Time = 3.070972E+06 days
2505 Date: 05/18/06 Time: 10:34:30 CPU Time: 0 0: 6:30.67 ( 390.67 sec) Binary
2507 Time Step No. = 1480 Elapsed Time = 3.092364E+06 days
2508 Date: 05/18/06 Time: 10:34:35 CPU Time: 0 0: 6:35.09 ( 395.09 sec) Binary
2510 Time Step No. = 1500 Elapsed Time = 3.321015E+06 days
2511 Date: 05/18/06 Time: 10:34:42 CPU Time: 0 0: 6:41.89 ( 401.89 sec) Binary
2513 Time Step No. = 1520 Elapsed Time = 3.330337E+06 days
2514 Date: 05/18/06 Time: 10:34:49 CPU Time: 0 0: 6:48.99 ( 408.99 sec) Binary
2516 Time Step No. = 1540 Elapsed Time = 3.331762E+06 days
2517 Date: 05/18/06 Time: 10:34:53 CPU Time: 0 0: 6:53.78 ( 413.78 sec) Binary
2519 Time Step No. = 1560 Elapsed Time = 3.334405E+06 days
2520 Date: 05/18/06 Time: 10:34:58 CPU Time: 0 0: 6:58.50 ( 418.50 sec) Binary
2522 Time Step No. = 1580 Elapsed Time = 3.374435E+06 days
2523 Date: 05/18/06 Time: 10:35:05 CPU Time: 0 0: 7: 5.50 ( 425.50 sec) Binary
2525 Time Step No. = 1600 Elapsed Time = 3.552011E+06 days
2526 Date: 05/18/06 Time: 10:35:10 CPU Time: 0 0: 7:10.17 ( 430.17 sec) Binary
2529 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
2691 CPU Time (this time step) = 0.22 sec = 0.00006 hr
2692 CPU Time (total for run) = 524.22 sec = 0.14562 hr
2693 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
2545 CPU Time (this time step) = 0.17 sec = 0.00005 hr
2546 CPU Time (total for run) = 431.75 sec = 0.11993 hr
2547 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
3369 Date: 02/14/07 Time: 09:53:50 CPU Time: 0 0: 8:44.24 ( 524.24 sec) ASCII
3371 Time Step No. = 1606 Elapsed Time = 3.652431E+06 days
3372 Date: 02/14/07 Time: 09:53:50 CPU Time: 0 0: 8:44.24 ( 524.24 sec) Binary
3377 *****
3378 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3379 * Completed: 02/14/07 at 09:53:50 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3380 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
3223 Date: 05/18/06 Time: 10:35:12 CPU Time: 0 0: 7:11.76 ( 431.76 sec) ASCII
3225 Time Step No. = 1606 Elapsed Time = 3.652431E+06 days
3226 Date: 05/18/06 Time: 10:35:12 CPU Time: 0 0: 7:11.77 ( 431.77 sec) Binary
3231 *****
3232 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3233 * Completed: 05/18/06 at 10:35:12 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3234 *****
*****
```

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

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

BF2_QB0600_ES47_TEST7_V007_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
```

Information Only

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3  ** Begun on: 02/14/07 at 09:45:44 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
2  ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3  ** Begun on: 05/18/06 at 10:28:08 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;2
62 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R007]BF2_TEST7_R007_QA0500.INP;1
62 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_CLOSURE.DAT;1
67 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R007]BF2_CLOSURE.DAT;1
67 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
72 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
72 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.SUM;1
77 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R007]BF2_VMS82_V500_ES47_TEST7_R007.SUM;1
77 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.BIN;1
82 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R007]BF2_VMS82_V500_ES47_TEST7_R007.BIN;1
82 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.ROT;1
87 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
86 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R007]BF2_VMS82_V500_ES47_TEST7_R007.ROT;1
87 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
195 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
196 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
197 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
198 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
199 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
200 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
201 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
202 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
203 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
204 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
205 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
```

206 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
207 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
208 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
209 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
210 58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
211 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
212 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
213 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
214 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
215 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
216 64 0 0 CONCST Salt concentration -- simple model kg/m^3
217 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
218 66 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
224 72 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
225 73 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
226 74 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
227 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
228 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
229 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
230 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
231 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
232 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
233 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241 89 0 0 CONCRXN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
247 95 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
248 96 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249 97 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264 112 0 0 H2OFLOWIN Water inflow rate kg/s
265 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271 119 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
272 120 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg
273 121 0 0 B_CONC(1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274 122 0 0 B_CONC(1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275 123 0 0 S_MASS(1,1) Solid mass of isotope 1 from Waste Region 1 kg

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276 124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
278
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
195 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200 48 1 1 CONC BIO C6-H10-O5 concentration -- simple model kg/m^3
201 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204 52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205 53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206 54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207 55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208 56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209 57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
216 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
217 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
218 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT(19,I,J,K) FeS concentration -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
224 72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
225 73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
226 74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
227 75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
228 76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
229 77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
230 78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
231 79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
232 80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
233 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
234 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
235 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
236 84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
237 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
238 86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
239 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
240 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
241 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
247 95 0 0 H2OFLOWIN Water inflow rate kg/s
248 96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
249 97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
250 98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
251 99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
252 100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
253 101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
254 102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
255 103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
256 104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
257 105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
258 106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
259 107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
261
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950 TOL = 1.0000E-02
951 SOCEFFMIN = 1.0000E-03
953 Fracture model will be used? (KFRACTURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
926 Fracture model will be used? (KFRACTURE): T
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
1086 Intrinsic reaction rate constants? (LINTRIN): F
1088 Reaction rate constants (RK):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
1059 Reaction rate constants (RK):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
1096 MgO hydration reaction rate constants:
1097 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100 Gas generation factors for biodegradation reaction:
1101 Waste Area # 1
1102 H2/H2S production (RXH2S) = 1.110000E+00
1103 CO2 production (RXCO2) = 0.000000E+00
1105 Gas generation factors for biodegradation reaction:
1106 Waste Area # 2
1107 H2/H2S production (RXH2S) = 1.110000E+00
1108 CO2 production (RXCO2) = 0.000000E+00
1110 Saturation cutoff value (SOCMIN): 0.000000E+00
1112 Stoichiometric coeff's for Rxn 1:
1113 H2 coefficient = 1.308100E+00
1114 H2O coefficient = -1.383800E+00
1115 Fe coefficient = -1.000000E+00
1116 Bio coefficient = 0.000000E+00
1117 Fe(OH)2 coefficient = 0.000000E+00
1118 FeS coefficient = 0.000000E+00
1119 MgO coefficient = 0.000000E+00
1120 Mg(OH)2 coefficient = 0.000000E+00
1121 MgCO3 coefficient = 0.000000E+00
1123 Stoichiometric coeff's for Rxn 2:
1124 H2 coefficient = 1.110000E+00
1125 H2O coefficient = 0.000000E+00
1126 Fe coefficient = 0.000000E+00
1127 Bio coefficient = -1.000000E+00
1128 Fe(OH)2 coefficient = 0.000000E+00
1129 FeS coefficient = 0.000000E+00
1130 MgO coefficient = 0.000000E+00
1131 Mg(OH)2 coefficient = 0.000000E+00
1132 MgCO3 coefficient = 0.000000E+00
1134 Stoichiometric coeff's for Rxn 3:
1135 H2 coefficient = 0.000000E+00
1136 H2O coefficient = 0.000000E+00
1137 Fe coefficient = 0.000000E+00
1138 Bio coefficient = 0.000000E+00
1139 Fe(OH)2 coefficient = 0.000000E+00
1140 FeS coefficient = 0.000000E+00
1141 MgO coefficient = 0.000000E+00
1142 Mg(OH)2 coefficient = 0.000000E+00
1143 MgCO3 coefficient = 0.000000E+00
1145 Stoichiometric coeff's for Rxn 4:
1146 H2 coefficient = 0.000000E+00
1147 H2O coefficient = 0.000000E+00
1148 Fe coefficient = 0.000000E+00
1149 Bio coefficient = 0.000000E+00
1150 Fe(OH)2 coefficient = 0.000000E+00
1151 FeS coefficient = 0.000000E+00
1152 MgO coefficient = 0.000000E+00
1153 Mg(OH)2 coefficient = 0.000000E+00
1154 MgCO3 coefficient = 0.000000E+00
1156 Stoichiometric coeff's for Rxn 5:
1157 H2 coefficient = 0.000000E+00
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1158 H2O coefficient = 0.000000E+00
1159 Fe coefficient = 0.000000E+00
1160 Bio coefficient = 0.000000E+00
1161 Fe(OH)2 coefficient = 0.000000E+00
1162 FeS coefficient = 0.000000E+00
1163 MgO coefficient = 0.000000E+00
1164 Mg(OH)2 coefficient = 0.000000E+00
1165 MgCO3 coefficient = 0.000000E+00
1167 Stoichiometric coeff's for Rxn 6:
1168 H2 coefficient = 0.000000E+00
1169 H2O coefficient = 0.000000E+00
1170 Fe coefficient = 0.000000E+00
1171 Bio coefficient = 0.000000E+00
1172 Fe(OH)2 coefficient = 0.000000E+00
1173 FeS coefficient = 0.000000E+00
1174 MgO coefficient = 0.000000E+00
1175 Mg(OH)2 coefficient = 0.000000E+00
1176 MgCO3 coefficient = 0.000000E+00
1178 Stoichiometric coeff's for Rxn 7:
1179 H2 coefficient = 0.000000E+00
1180 H2O coefficient = 0.000000E+00
1181 Fe coefficient = 0.000000E+00
1182 Bio coefficient = 0.000000E+00
1183 Fe(OH)2 coefficient = 0.000000E+00
1184 FeS coefficient = 0.000000E+00
1185 MgO coefficient = 0.000000E+00
1186 Mg(OH)2 coefficient = 0.000000E+00
1187 MgCO3 coefficient = 0.000000E+00
1189 Wicking term (SATWICK) = 0.000000E+00
1190 Humid rates to be smoothed? (LARXN) = T
1191 Concentration rates to be smoothed? (LARXN2) = F
1192 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1194 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
1067 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068 Gas coefficient = 1.308100E+00
1069 H2O coefficient = 1.383800E+00
1070 Fe coefficient = 1.000000E+00
1072 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073 Gas coefficient = 1.110000E+00
1074 H2O coefficient = 0.000000E+00
1075 Bio coefficient = 1.000000E+00
1077 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
1200 Molecular weights (WM):
1201 Fe(OH)2: 8.9862E-02 kg/mol
1202 FeS: 8.7900E-02 kg/mol
1203 MgO: 4.0304E-02 kg/mol
1204 Mg(OH)2: 5.8320E-02 kg/mol
1205 MgCO3: 8.4314E-02 kg/mol
1207 Densities (DEN(1-4)):
1208 Fe: 7.8700E+03 kg/m3
1209 Fe(OH)2: 3.4000E+03 kg/m3
1210 FeS: 4.7000E+03 kg/m3
1211 Bio: 1.1000E+03 kg/m3
1213 Densities (DEN(5-8)):
1214 MgO: 3.6000E+03 kg/m3
1215 Mg(OH)2: 2.3700E+03 kg/m3
1216 MgCO3: 3.0500E+03 kg/m3
1217 SALT: 2.1700E+03 kg/m3
1219 Will creep closure be used (CLOSURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
1083 Wicking term (SATWICK) = 0.000000E+00
1084 Humid rates to be smoothed? (LARXN) = T
1085 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1087 Will creep closure be used (CLOSURE): T
*****
*****
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
1233 PHIUPPER = Upper porosity limit in permeability-porosity expression
1234 PHILOWER = Lower porosity limit in permeability-porosity expression
1235 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
1236 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1237 4 1.480000E+07 3.155700E+12 1 F
1238 MODPERM Parameters
1239 Model Number (CLOSPERMFAC) [m^2] (CLOSPERMEXP) [-]
1240 4 5.584700E-12 0.000000E+00
1242 Number of materials using closure (NMATCLOS) = 2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
1101 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFAC) [m^2] (CLOSPERMEXP) [-]
1102 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1103 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105 Number of materials using closure (NMATCLOS) = 2
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
1260 *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1263 *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1266 *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1269 *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
1272 *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
1276
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
1123 *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1126 *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1130
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
1300 57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1301 58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1303 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
1154 47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1155 48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1157 CAMCON Global Variable Units Conv
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 22.28 sec = 0.00619 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
1626 CPU Time (this time step) = 0.10 sec = 0.00003 hr
1627 CPU Time (total for run) = 20.38 sec = 0.00566 hr
1628 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
2450 Date: 02/14/07 Time: 09:46:07 CPU Time: 0 0: 0:22.29 ( 22.29 sec) ASCII
2452 Time Step No. = 135 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:46:07 CPU Time: 0 0: 0:22.30 ( 22.30 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 8.207031E-02 days
2456 Date: 02/14/07 Time: 09:46:08 CPU Time: 0 0: 0:23.32 ( 23.32 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 6.773075E+00 days
2459 Date: 02/14/07 Time: 09:46:11 CPU Time: 0 0: 0:26.72 ( 26.72 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.856436E+02 days
2462 Date: 02/14/07 Time: 09:46:15 CPU Time: 0 0: 0:30.53 ( 30.53 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 1.266587E+03 days
2465 Date: 02/14/07 Time: 09:46:21 CPU Time: 0 0: 0:36.63 ( 36.63 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 1.223245E+04 days
2468 Date: 02/14/07 Time: 09:46:28 CPU Time: 0 0: 0:43.00 ( 43.00 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.652431E+04 days
2471 Date: 02/14/07 Time: 09:46:42 CPU Time: 0 0: 0:57.56 ( 57.56 sec) Binary
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2473 Time Step No. = 260 Elapsed Time = 3.652431E+04 days
2474 Date: 02/14/07 Time: 09:46:45 CPU Time: 0 0: 1: 0.49 (60.49 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.652431E+04 days
2477 Date: 02/14/07 Time: 09:46:48 CPU Time: 0 0: 1: 3.56 (63.56 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.652448E+04 days
2480 Date: 02/14/07 Time: 09:46:52 CPU Time: 0 0: 1: 7.05 (67.05 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.653947E+04 days
2483 Date: 02/14/07 Time: 09:46:55 CPU Time: 0 0: 1:10.48 (70.48 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 3.666343E+04 days
2486 Date: 02/14/07 Time: 09:46:58 CPU Time: 0 0: 1:13.55 (73.55 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.669537E+04 days
2489 Date: 02/14/07 Time: 09:47:01 CPU Time: 0 0: 1:16.20 (76.20 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 3.742515E+04 days
2492 Date: 02/14/07 Time: 09:47:06 CPU Time: 0 0: 1:21.20 (81.20 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.822089E+04 days
2495 Date: 02/14/07 Time: 09:47:15 CPU Time: 0 0: 1:29.92 (89.92 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 8.862956E+04 days
2498 Date: 02/14/07 Time: 09:47:21 CPU Time: 0 0: 1:36.35 (96.35 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.455379E+05 days
2501 Date: 02/14/07 Time: 09:47:31 CPU Time: 0 0: 1:46.27 (106.27 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 3.652522E+05 days
2504 Date: 02/14/07 Time: 09:47:36 CPU Time: 0 0: 1:50.87 (110.87 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 3.654410E+05 days
2507 Date: 02/14/07 Time: 09:47:41 CPU Time: 0 0: 1:55.75 (115.75 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 3.666131E+05 days
2510 Date: 02/14/07 Time: 09:47:45 CPU Time: 0 0: 2: 0.01 (120.01 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 3.666386E+05 days
2513 Date: 02/14/07 Time: 09:47:47 CPU Time: 0 0: 2: 1.83 (121.83 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 3.688548E+05 days
2516 Date: 02/14/07 Time: 09:47:51 CPU Time: 0 0: 2: 5.81 (125.81 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 4.082584E+05 days
2519 Date: 02/14/07 Time: 09:48:00 CPU Time: 0 0: 2:14.35 (134.35 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 4.458639E+05 days
2522 Date: 02/14/07 Time: 09:48:10 CPU Time: 0 0: 2:24.44 (144.44 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 4.463537E+05 days
2525 Date: 02/14/07 Time: 09:48:16 CPU Time: 0 0: 2:30.28 (150.28 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 4.480015E+05 days
2528 Date: 02/14/07 Time: 09:48:20 CPU Time: 0 0: 2:34.67 (154.67 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 4.604332E+05 days
2531 Date: 02/14/07 Time: 09:48:27 CPU Time: 0 0: 2:41.58 (161.58 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 4.725391E+05 days
2534 Date: 02/14/07 Time: 09:48:32 CPU Time: 0 0: 2:46.68 (166.68 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 6.319950E+05 days
2537 Date: 02/14/07 Time: 09:48:41 CPU Time: 0 0: 2:55.64 (175.64 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 6.358626E+05 days
2540 Date: 02/14/07 Time: 09:48:47 CPU Time: 0 0: 3: 1.65 (181.65 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 6.368313E+05 days
2543 Date: 02/14/07 Time: 09:48:53 CPU Time: 0 0: 3: 7.61 (187.61 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 6.464683E+05 days
2546 Date: 02/14/07 Time: 09:48:58 CPU Time: 0 0: 3:12.92 (192.92 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 7.290303E+05 days
2549 Date: 02/14/07 Time: 09:49:05 CPU Time: 0 0: 3:19.95 (199.95 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 7.323189E+05 days
2552 Date: 02/14/07 Time: 09:49:12 CPU Time: 0 0: 3:25.94 (205.94 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 7.329267E+05 days
2555 Date: 02/14/07 Time: 09:49:16 CPU Time: 0 0: 3:29.84 (209.84 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 7.803047E+05 days
2558 Date: 02/14/07 Time: 09:49:21 CPU Time: 0 0: 3:35.71 (215.71 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 7.839760E+05 days
2561 Date: 02/14/07 Time: 09:49:27 CPU Time: 0 0: 3:41.70 (221.70 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 8.012233E+05 days
2564 Date: 02/14/07 Time: 09:49:36 CPU Time: 0 0: 3:49.87 (229.87 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 8.034431E+05 days
2567 Date: 02/14/07 Time: 09:49:43 CPU Time: 0 0: 3:57.52 (237.52 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 8.062402E+05 days
2570 Date: 02/14/07 Time: 09:49:49 CPU Time: 0 0: 4: 3.44 (243.44 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 8.139864E+05 days
2573 Date: 02/14/07 Time: 09:49:57 CPU Time: 0 0: 4:11.24 (251.24 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 8.431727E+05 days
2576 Date: 02/14/07 Time: 09:50:06 CPU Time: 0 0: 4:19.95 (259.95 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 8.666810E+05 days
2579 Date: 02/14/07 Time: 09:50:16 CPU Time: 0 0: 4:29.98 (269.98 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 8.821825E+05 days
2582 Date: 02/14/07 Time: 09:50:22 CPU Time: 0 0: 4:35.57 (275.57 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 9.002182E+05 days
2585 Date: 02/14/07 Time: 09:50:29 CPU Time: 0 0: 4:42.92 (282.92 sec) Binary

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2587 Time Step No. = 1020 Elapsed Time = 9.481091E+05 days
2588 Date: 02/14/07 Time: 09:50:36 CPU Time: 0 0: 4:49.87 ( 289.87 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.057089E+06 days
2591 Date: 02/14/07 Time: 09:50:45 CPU Time: 0 0: 4:58.48 ( 298.48 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.124317E+06 days
2594 Date: 02/14/07 Time: 09:50:50 CPU Time: 0 0: 5: 3.74 ( 303.74 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 1.392966E+06 days
2597 Date: 02/14/07 Time: 09:50:58 CPU Time: 0 0: 5:11.91 ( 311.91 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 1.621571E+06 days
2600 Date: 02/14/07 Time: 09:51:05 CPU Time: 0 0: 5:18.52 ( 318.52 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 1.784068E+06 days
2603 Date: 02/14/07 Time: 09:51:17 CPU Time: 0 0: 5:30.45 ( 330.45 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 1.895820E+06 days
2606 Date: 02/14/07 Time: 09:51:25 CPU Time: 0 0: 5:38.36 ( 338.36 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 1.978849E+06 days
2609 Date: 02/14/07 Time: 09:51:35 CPU Time: 0 0: 5:48.86 ( 348.86 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 2.136165E+06 days
2612 Date: 02/14/07 Time: 09:51:45 CPU Time: 0 0: 5:58.18 ( 358.18 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 2.233567E+06 days
2615 Date: 02/14/07 Time: 09:51:55 CPU Time: 0 0: 6: 8.59 ( 368.59 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 2.507403E+06 days
2618 Date: 02/14/07 Time: 09:52:01 CPU Time: 0 0: 6:14.28 ( 374.28 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 2.907403E+06 days
2621 Date: 02/14/07 Time: 09:52:07 CPU Time: 0 0: 6:20.35 ( 380.35 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 3.307403E+06 days
2624 Date: 02/14/07 Time: 09:52:13 CPU Time: 0 0: 6:26.82 ( 386.82 sec) Binary
2627 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
2304 Date: 05/18/06 Time: 10:28:29 CPU Time: 0 0: 0:20.40 ( 20.40 sec) ASCII
2306 Time Step No. = 135 Elapsed Time = 0.000000E+00 days
2307 Date: 05/18/06 Time: 10:28:29 CPU Time: 0 0: 0:20.41 ( 20.41 sec) Binary
2309 Time Step No. = 140 Elapsed Time = 8.207031E-02 days
2310 Date: 05/18/06 Time: 10:28:29 CPU Time: 0 0: 0:21.27 ( 21.27 sec) Binary
2312 Time Step No. = 160 Elapsed Time = 6.773075E+00 days
2313 Date: 05/18/06 Time: 10:28:32 CPU Time: 0 0: 0:24.18 ( 24.18 sec) Binary
2315 Time Step No. = 180 Elapsed Time = 1.856436E+02 days
2316 Date: 05/18/06 Time: 10:28:35 CPU Time: 0 0: 0:27.18 ( 27.18 sec) Binary
2318 Time Step No. = 200 Elapsed Time = 1.266587E+03 days
2319 Date: 05/18/06 Time: 10:28:40 CPU Time: 0 0: 0:31.84 ( 31.84 sec) Binary
2321 Time Step No. = 220 Elapsed Time = 1.223245E+04 days
2322 Date: 05/18/06 Time: 10:28:45 CPU Time: 0 0: 0:36.93 ( 36.93 sec) Binary
2324 Time Step No. = 240 Elapsed Time = 3.652431E+04 days
2325 Date: 05/18/06 Time: 10:28:57 CPU Time: 0 0: 0:48.44 ( 48.44 sec) Binary
2327 Time Step No. = 260 Elapsed Time = 3.652431E+04 days
2328 Date: 05/18/06 Time: 10:28:59 CPU Time: 0 0: 0:50.69 ( 50.69 sec) Binary
2330 Time Step No. = 280 Elapsed Time = 3.652431E+04 days
2331 Date: 05/18/06 Time: 10:29:01 CPU Time: 0 0: 0:53.05 ( 53.05 sec) Binary
2333 Time Step No. = 300 Elapsed Time = 3.652448E+04 days
2334 Date: 05/18/06 Time: 10:29:04 CPU Time: 0 0: 0:55.71 ( 55.71 sec) Binary
2336 Time Step No. = 320 Elapsed Time = 3.653947E+04 days
2337 Date: 05/18/06 Time: 10:29:07 CPU Time: 0 0: 0:58.33 ( 58.33 sec) Binary
2339 Time Step No. = 340 Elapsed Time = 3.666343E+04 days
2340 Date: 05/18/06 Time: 10:29:09 CPU Time: 0 0: 1: 0.69 ( 60.69 sec) Binary
2342 Time Step No. = 360 Elapsed Time = 3.669537E+04 days
2343 Date: 05/18/06 Time: 10:29:11 CPU Time: 0 0: 1: 2.73 ( 62.73 sec) Binary
2345 Time Step No. = 380 Elapsed Time = 3.742515E+04 days
2346 Date: 05/18/06 Time: 10:29:15 CPU Time: 0 0: 1: 6.58 ( 66.58 sec) Binary
2348 Time Step No. = 400 Elapsed Time = 3.822089E+04 days
2349 Date: 05/18/06 Time: 10:29:22 CPU Time: 0 0: 1:13.29 ( 73.29 sec) Binary
2351 Time Step No. = 420 Elapsed Time = 8.862956E+04 days
2352 Date: 05/18/06 Time: 10:29:27 CPU Time: 0 0: 1:18.28 ( 78.28 sec) Binary
2354 Time Step No. = 440 Elapsed Time = 3.455379E+05 days
2355 Date: 05/18/06 Time: 10:29:34 CPU Time: 0 0: 1:26.13 ( 86.13 sec) Binary
2357 Time Step No. = 460 Elapsed Time = 3.652522E+05 days
2358 Date: 05/18/06 Time: 10:29:38 CPU Time: 0 0: 1:29.66 ( 89.66 sec) Binary
2360 Time Step No. = 480 Elapsed Time = 3.654410E+05 days
2361 Date: 05/18/06 Time: 10:29:42 CPU Time: 0 0: 1:33.39 ( 93.39 sec) Binary
2363 Time Step No. = 500 Elapsed Time = 3.666131E+05 days
2364 Date: 05/18/06 Time: 10:29:45 CPU Time: 0 0: 1:36.66 ( 96.66 sec) Binary
2366 Time Step No. = 520 Elapsed Time = 3.666386E+05 days
2367 Date: 05/18/06 Time: 10:29:46 CPU Time: 0 0: 1:38.07 ( 98.07 sec) Binary
2369 Time Step No. = 540 Elapsed Time = 3.688548E+05 days
2370 Date: 05/18/06 Time: 10:29:50 CPU Time: 0 0: 1:41.14 ( 101.14 sec) Binary
2372 Time Step No. = 560 Elapsed Time = 4.082584E+05 days
2373 Date: 05/18/06 Time: 10:29:56 CPU Time: 0 0: 1:47.72 ( 107.72 sec) Binary
```

2375 Time Step No. = 580 Elapsed Time = 4.458639E+05 days
2376 Date: 05/18/06 Time: 10:30:04 CPU Time: 0 0: 1:55.51 (115.51 sec) Binary
2378 Time Step No. = 600 Elapsed Time = 4.463537E+05 days
2379 Date: 05/18/06 Time: 10:30:08 CPU Time: 0 0: 2: 0.05 (120.05 sec) Binary
2381 Time Step No. = 620 Elapsed Time = 4.480015E+05 days
2382 Date: 05/18/06 Time: 10:30:12 CPU Time: 0 0: 2: 3.46 (123.46 sec) Binary
2384 Time Step No. = 640 Elapsed Time = 4.604332E+05 days
2385 Date: 05/18/06 Time: 10:30:17 CPU Time: 0 0: 2: 8.79 (128.79 sec) Binary
2387 Time Step No. = 660 Elapsed Time = 4.725391E+05 days
2388 Date: 05/18/06 Time: 10:30:21 CPU Time: 0 0: 2:12.75 (132.75 sec) Binary
2390 Time Step No. = 680 Elapsed Time = 6.319950E+05 days
2391 Date: 05/18/06 Time: 10:30:28 CPU Time: 0 0: 2:19.71 (139.71 sec) Binary
2393 Time Step No. = 700 Elapsed Time = 6.358626E+05 days
2394 Date: 05/18/06 Time: 10:30:33 CPU Time: 0 0: 2:24.36 (144.36 sec) Binary
2396 Time Step No. = 720 Elapsed Time = 6.368313E+05 days
2397 Date: 05/18/06 Time: 10:30:37 CPU Time: 0 0: 2:29.00 (149.00 sec) Binary
2399 Time Step No. = 740 Elapsed Time = 6.464683E+05 days
2400 Date: 05/18/06 Time: 10:30:42 CPU Time: 0 0: 2:33.17 (153.17 sec) Binary
2402 Time Step No. = 760 Elapsed Time = 7.290303E+05 days
2403 Date: 05/18/06 Time: 10:30:47 CPU Time: 0 0: 2:38.90 (158.90 sec) Binary
2405 Time Step No. = 780 Elapsed Time = 7.323189E+05 days
2406 Date: 05/18/06 Time: 10:30:52 CPU Time: 0 0: 2:43.80 (163.80 sec) Binary
2408 Time Step No. = 800 Elapsed Time = 7.329267E+05 days
2409 Date: 05/18/06 Time: 10:30:56 CPU Time: 0 0: 2:46.98 (166.98 sec) Binary
2411 Time Step No. = 820 Elapsed Time = 7.803047E+05 days
2412 Date: 05/18/06 Time: 10:31:00 CPU Time: 0 0: 2:51.82 (171.82 sec) Binary
2414 Time Step No. = 840 Elapsed Time = 7.839760E+05 days
2415 Date: 05/18/06 Time: 10:31:05 CPU Time: 0 0: 2:56.73 (176.73 sec) Binary
2417 Time Step No. = 860 Elapsed Time = 8.012233E+05 days
2418 Date: 05/18/06 Time: 10:31:12 CPU Time: 0 0: 3: 3.42 (183.42 sec) Binary
2420 Time Step No. = 880 Elapsed Time = 8.034431E+05 days
2421 Date: 05/18/06 Time: 10:31:18 CPU Time: 0 0: 3: 9.70 (189.70 sec) Binary
2423 Time Step No. = 900 Elapsed Time = 8.062402E+05 days
2424 Date: 05/18/06 Time: 10:31:23 CPU Time: 0 0: 3:14.56 (194.56 sec) Binary
2426 Time Step No. = 920 Elapsed Time = 8.139864E+05 days
2427 Date: 05/18/06 Time: 10:31:30 CPU Time: 0 0: 3:20.95 (200.95 sec) Binary
2429 Time Step No. = 940 Elapsed Time = 8.431727E+05 days
2430 Date: 05/18/06 Time: 10:31:37 CPU Time: 0 0: 3:28.04 (208.04 sec) Binary
2432 Time Step No. = 960 Elapsed Time = 8.666810E+05 days
2433 Date: 05/18/06 Time: 10:31:45 CPU Time: 0 0: 3:36.21 (216.21 sec) Binary
2435 Time Step No. = 980 Elapsed Time = 8.821825E+05 days
2436 Date: 05/18/06 Time: 10:31:49 CPU Time: 0 0: 3:40.78 (220.78 sec) Binary
2438 Time Step No. = 1000 Elapsed Time = 9.002182E+05 days
2439 Date: 05/18/06 Time: 10:31:55 CPU Time: 0 0: 3:46.80 (226.80 sec) Binary
2441 Time Step No. = 1020 Elapsed Time = 9.481091E+05 days
2442 Date: 05/18/06 Time: 10:32:01 CPU Time: 0 0: 3:52.48 (232.48 sec) Binary
2444 Time Step No. = 1040 Elapsed Time = 1.057089E+06 days
2445 Date: 05/18/06 Time: 10:32:08 CPU Time: 0 0: 3:59.51 (239.51 sec) Binary
2447 Time Step No. = 1060 Elapsed Time = 1.124317E+06 days
2448 Date: 05/18/06 Time: 10:32:13 CPU Time: 0 0: 4: 3.84 (243.84 sec) Binary
2450 Time Step No. = 1080 Elapsed Time = 1.392966E+06 days
2451 Date: 05/18/06 Time: 10:32:19 CPU Time: 0 0: 4:10.57 (250.57 sec) Binary
2453 Time Step No. = 1100 Elapsed Time = 1.621571E+06 days
2454 Date: 05/18/06 Time: 10:32:25 CPU Time: 0 0: 4:16.01 (256.01 sec) Binary
2456 Time Step No. = 1120 Elapsed Time = 1.784068E+06 days
2457 Date: 05/18/06 Time: 10:32:34 CPU Time: 0 0: 4:25.36 (265.36 sec) Binary
2459 Time Step No. = 1140 Elapsed Time = 1.895820E+06 days
2460 Date: 05/18/06 Time: 10:32:40 CPU Time: 0 0: 4:31.33 (271.33 sec) Binary
2462 Time Step No. = 1160 Elapsed Time = 1.978849E+06 days
2463 Date: 05/18/06 Time: 10:32:48 CPU Time: 0 0: 4:39.29 (279.29 sec) Binary
2465 Time Step No. = 1180 Elapsed Time = 2.136165E+06 days
2466 Date: 05/18/06 Time: 10:32:55 CPU Time: 0 0: 4:46.39 (286.39 sec) Binary
2468 Time Step No. = 1200 Elapsed Time = 2.233567E+06 days
2469 Date: 05/18/06 Time: 10:33:03 CPU Time: 0 0: 4:54.25 (294.25 sec) Binary
2471 Time Step No. = 1220 Elapsed Time = 2.507403E+06 days
2472 Date: 05/18/06 Time: 10:33:08 CPU Time: 0 0: 4:58.72 (298.72 sec) Binary
2474 Time Step No. = 1240 Elapsed Time = 2.907403E+06 days
2475 Date: 05/18/06 Time: 10:33:13 CPU Time: 0 0: 5: 3.73 (303.73 sec) Binary
2477 Time Step No. = 1260 Elapsed Time = 3.307403E+06 days
2478 Date: 05/18/06 Time: 10:33:18 CPU Time: 0 0: 5: 9.12 (309.12 sec) Binary
2481 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1

2643 CPU Time (this time step) = 0.28 sec = 0.00008 hr
2644 CPU Time (total for run) = 392.16 sec = 0.10893 hr

Information Only

```
2645 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
2497 CPU Time (this time step) = 0.20 sec = 0.00006 hr
2498 CPU Time (total for run) = 313.54 sec = 0.08709 hr
2499 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
3321 Date: 02/14/07 Time: 09:52:19 CPU Time: 0 0: 6:32.18 ( 392.18 sec) ASCII
3323 Time Step No. = 1278 Elapsed Time = 3.652431E+06 days
3324 Date: 02/14/07 Time: 09:52:19 CPU Time: 0 0: 6:32.19 ( 392.19 sec) Binary
3329 *****
3330 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3331 * Completed: 02/14/07 at 09:52:19 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3332 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
3175 Date: 05/18/06 Time: 10:33:23 CPU Time: 0 0: 5:13.57 ( 313.57 sec) ASCII
3177 Time Step No. = 1278 Elapsed Time = 3.652431E+06 days
3178 Date: 05/18/06 Time: 10:33:23 CPU Time: 0 0: 5:13.57 ( 313.57 sec) Binary
3183 *****
3184 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3185 * Completed: 05/18/06 at 10:33:23 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3186 *****
*****
```

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

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

BF2_QB0600_ES47_TEST7_V008_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3 ** Begun on: 02/14/07 at 09:46:14 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
2 ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3 ** Begun on: 05/18/06 at 10:28:56 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R008]BF2_TEST7_R008_QA0500.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R008]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
72 *****
```

```
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R008]BF2_VMS82_V500_ES47_TEST7_R008.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R008]BF2_VMS82_V500_ES47_TEST7_R008.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
86 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R008]BF2_VMS82_V500_ES47_TEST7_R008.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
195 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
196 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
197 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
198 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
199 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
200 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
201 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
202 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
203 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
204 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
205 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
206 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
207 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
208 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
209 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
210 58 1 1 CONCBO C6-H10-O5 concentration -- simple model kg/m^3
211 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
212 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
213 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
214 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
215 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
216 64 0 0 CONCST Salt concentration -- simple model kg/m^3
217 65 0 0 PORSLID Volume fraction of generated solids dimensionless
218 66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
224 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
225 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
226 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
227 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
228 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
229 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
230 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
231 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
232 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
233 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
```

237 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241 89 0 0 CONCRXN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
247 95 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
248 96 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249 97 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264 112 0 0 H2OFLOWIN Water inflow rate kg/s
265 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271 119 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
272 120 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg
273 121 0 0 B_CONC(1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274 122 0 0 B_CONC(1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275 123 0 0 S_MASS(1,1) Solid mass of isotope 1 from Waste Region 1 kg
276 124 0 0 S_MASS(1,2) Solid mass of isotope 1 from Waste Region 2 kg
278

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
195 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200 48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201 49 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 50 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 51 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204 52 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205 53 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206 54 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207 55 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208 56 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209 57 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
216 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
217 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
218 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)


```
862 where IC's will be reset (MATRESET) = 7 8 9 10 39
864 Borehole matl index number (MAT_BOREHOLE) = 0
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
842 where IC's will be reset (NMATRESET) = 4
843 Material type indexes of material regions
844 where IC's will be reset (MATRESET) = 7 8 9 10
846 Borehole matl index number (MAT_BOREHOLE) = 0
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
869 instead of Input IC's for the Cavities
870 [0=No, 1=Yes] (ICWASTE) = 1
872 Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
873 Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
874 Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
875 Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
876 Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
877 Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
878 Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
879 Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
880 Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
881 Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
883
-----
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
851 instead of Input IC's for the Waste
852 [0=No, 1=Yes] (ICWASTE) = 1
854 Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
855 Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
856 Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
857 Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
859
-----
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
949 39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
950 TOL = 1.0000E-02
951 SOCEFFMIN = 1.0000E-03
953 Fracture model will be used? (KRACTURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
926 Fracture model will be used? (KRACTURE): T
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
1086 Intrinsic reaction rate constants? (LINTRIN): F
1088 Reaction rate constants (RK):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
1059 Reaction rate constants (RK):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
1096 MgO hydration reaction rate constants:
1097 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100 Gas generation factors for biodegradation reaction:
1101 Waste Area # 1
1102 H2/H2S production (RXH2S) = 1.545000E+00
1103 CO2 production (RXCO2) = 0.000000E+00
1105 Gas generation factors for biodegradation reaction:
1106 Waste Area # 2
1107 H2/H2S production (RXH2S) = 1.545000E+00
1108 CO2 production (RXCO2) = 0.000000E+00
1110 Saturation cutoff value (SOCMIN): 0.000000E+00
1112 Stoichiometric coeff's for Rxn 1:
1113 H2 coefficient = 1.092400E+00
1114 H2O coefficient = -1.815200E+00
1115 Fe coefficient = -1.000000E+00
```

1116 Bio coefficient = 0.000000E+00
1117 Fe(OH)2 coefficient = 0.000000E+00
1118 FeS coefficient = 0.000000E+00
1119 MgO coefficient = 0.000000E+00
1120 Mg(OH)2 coefficient = 0.000000E+00
1121 MgCO3 coefficient = 0.000000E+00
1123 Stoichiometric coeff's for Rxn 2:
1124 H2 coefficient = 1.545000E+00
1125 H2O coefficient = 0.000000E+00
1126 Fe coefficient = 0.000000E+00
1127 Bio coefficient = -1.000000E+00
1128 Fe(OH)2 coefficient = 0.000000E+00
1129 FeS coefficient = 0.000000E+00
1130 MgO coefficient = 0.000000E+00
1131 Mg(OH)2 coefficient = 0.000000E+00
1132 MgCO3 coefficient = 0.000000E+00
1134 Stoichiometric coeff's for Rxn 3:
1135 H2 coefficient = 0.000000E+00
1136 H2O coefficient = 0.000000E+00
1137 Fe coefficient = 0.000000E+00
1138 Bio coefficient = 0.000000E+00
1139 Fe(OH)2 coefficient = 0.000000E+00
1140 FeS coefficient = 0.000000E+00
1141 MgO coefficient = 0.000000E+00
1142 Mg(OH)2 coefficient = 0.000000E+00
1143 MgCO3 coefficient = 0.000000E+00
1145 Stoichiometric coeff's for Rxn 4:
1146 H2 coefficient = 0.000000E+00
1147 H2O coefficient = 0.000000E+00
1148 Fe coefficient = 0.000000E+00
1149 Bio coefficient = 0.000000E+00
1150 Fe(OH)2 coefficient = 0.000000E+00
1151 FeS coefficient = 0.000000E+00
1152 MgO coefficient = 0.000000E+00
1153 Mg(OH)2 coefficient = 0.000000E+00
1154 MgCO3 coefficient = 0.000000E+00
1156 Stoichiometric coeff's for Rxn 5:
1157 H2 coefficient = 0.000000E+00
1158 H2O coefficient = 0.000000E+00
1159 Fe coefficient = 0.000000E+00
1160 Bio coefficient = 0.000000E+00
1161 Fe(OH)2 coefficient = 0.000000E+00
1162 FeS coefficient = 0.000000E+00
1163 MgO coefficient = 0.000000E+00
1164 Mg(OH)2 coefficient = 0.000000E+00
1165 MgCO3 coefficient = 0.000000E+00
1167 Stoichiometric coeff's for Rxn 6:
1168 H2 coefficient = 0.000000E+00
1169 H2O coefficient = 0.000000E+00
1170 Fe coefficient = 0.000000E+00
1171 Bio coefficient = 0.000000E+00
1172 Fe(OH)2 coefficient = 0.000000E+00
1173 FeS coefficient = 0.000000E+00
1174 MgO coefficient = 0.000000E+00
1175 Mg(OH)2 coefficient = 0.000000E+00
1176 MgCO3 coefficient = 0.000000E+00
1178 Stoichiometric coeff's for Rxn 7:
1179 H2 coefficient = 0.000000E+00
1180 H2O coefficient = 0.000000E+00
1181 Fe coefficient = 0.000000E+00
1182 Bio coefficient = 0.000000E+00
1183 Fe(OH)2 coefficient = 0.000000E+00
1184 FeS coefficient = 0.000000E+00
1185 MgO coefficient = 0.000000E+00
1186 Mg(OH)2 coefficient = 0.000000E+00
1187 MgCO3 coefficient = 0.000000E+00
1189 Wicking term (SATWICK) = 0.000000E+00
1190 Humid rates to be smoothed? (LARXN) = T
1191 Concentration rates to be smoothed? (LARXN2) = F
1192 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03

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1194 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
1067 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068 Gas coefficient = 1.092400E+00
1069 H2O coefficient = 1.815200E+00
1070 Fe coefficient = 1.000000E+00
1072 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073 Gas coefficient = 1.545000E+00
1074 H2O coefficient = 0.000000E+00
1075 Bio coefficient = 1.000000E+00
1077 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
1200 Molecular weights (WM):
1201 Fe(OH)2: 8.9862E-02 kg/mol
1202 FeS: 8.7900E-02 kg/mol
1203 MgO: 4.0304E-02 kg/mol
1204 Mg(OH)2: 5.8320E-02 kg/mol
1205 MgCO3: 8.4314E-02 kg/mol
1207 Densities (DEN(1-4)):
1208 Fe: 7.8700E+03 kg/m3
1209 Fe(OH)2: 3.4000E+03 kg/m3
1210 FeS: 4.7000E+03 kg/m3
1211 Bio: 1.1000E+03 kg/m3
1213 Densities (DEN(5-8)):
1214 MgO: 3.6000E+03 kg/m3
1215 Mg(OH)2: 2.3700E+03 kg/m3
1216 MgCO3: 3.0500E+03 kg/m3
1217 SALT: 2.1700E+03 kg/m3
1219 Will creep closure be used (CLOSURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
1083 Wicking term (SATWICK) = 0.000000E+00
1084 Humid rates to be smoothed? (LARKN) = T
1085 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1087 Will creep closure be used (CLOSURE): T
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
1233 PHIUPPER = Upper porosity limit in permeability-porosity expression
1234 PHILOWER = Lower porosity limit in permeability-porosity expression
1235 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
1236 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1237 4 1.480000E+07 3.155700E+12 1 F
1238 MODPERM Parameters
1239 Model Number (CLOSPERMFAC) [m^2] (CLOSPERMEXP) [-]
1240 4 5.584700E-12 0.000000E+00
1242 Number of materials using closure (NMATCLOS) = 2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
1101 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFAC) [m^2] (CLOSPERMEXP) [-]
1102 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1103 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105 Number of materials using closure (NMATCLOS) = 2
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
1260 *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1263 *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1266 *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1269 *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
1272 *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
1276
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
1123 *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1126 *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
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1130
*****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
 1300 57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301 58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1303 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
 1154 47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1155 48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157 CAMCON Global Variable Units Conv
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
 1772 CPU Time (this time step) = 0.19 sec = 0.00005 hr
 1773 CPU Time (total for run) = 32.61 sec = 0.00906 hr
 1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
 1626 CPU Time (this time step) = 0.18 sec = 0.00005 hr
 1627 CPU Time (total for run) = 29.80 sec = 0.00828 hr
 1628 *****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
 2450 Date: 02/14/07 Time: 09:46:47 CPU Time: 0 0: 0:32.62 ( 32.62 sec) ASCII
 2452 Time Step No. = 176 Elapsed Time = 0.000000E+00 days
 2453 Date: 02/14/07 Time: 09:46:47 CPU Time: 0 0: 0:32.62 ( 32.62 sec) Binary
 2455 Time Step No. = 180 Elapsed Time = 7.207031E-03 days
 2456 Date: 02/14/07 Time: 09:46:49 CPU Time: 0 0: 0:34.70 ( 34.70 sec) Binary
 2458 Time Step No. = 200 Elapsed Time = 1.053791E+00 days
 2459 Date: 02/14/07 Time: 09:46:52 CPU Time: 0 0: 0:38.00 ( 38.00 sec) Binary
 2461 Time Step No. = 220 Elapsed Time = 9.183050E+01 days
 2462 Date: 02/14/07 Time: 09:46:57 CPU Time: 0 0: 0:42.45 ( 42.45 sec) Binary
 2464 Time Step No. = 240 Elapsed Time = 2.153105E+03 days
 2465 Date: 02/14/07 Time: 09:47:02 CPU Time: 0 0: 0:48.11 ( 48.11 sec) Binary
 2467 Time Step No. = 260 Elapsed Time = 5.087922E+03 days
 2468 Date: 02/14/07 Time: 09:47:08 CPU Time: 0 0: 0:53.27 ( 53.27 sec) Binary
 2470 Time Step No. = 280 Elapsed Time = 1.243792E+04 days
 2471 Date: 02/14/07 Time: 09:47:14 CPU Time: 0 0: 0:59.94 ( 59.94 sec) Binary
 2473 Time Step No. = 300 Elapsed Time = 1.314808E+04 days
 2474 Date: 02/14/07 Time: 09:47:18 CPU Time: 0 0: 1: 3.51 ( 63.51 sec) Binary
 2476 Time Step No. = 320 Elapsed Time = 1.875956E+04 days
 2477 Date: 02/14/07 Time: 09:47:24 CPU Time: 0 0: 1: 9.66 ( 69.66 sec) Binary
 2479 Time Step No. = 340 Elapsed Time = 3.652769E+04 days
 2480 Date: 02/14/07 Time: 09:47:29 CPU Time: 0 0: 1:15.10 ( 75.10 sec) Binary
 2482 Time Step No. = 360 Elapsed Time = 3.666039E+04 days
 2483 Date: 02/14/07 Time: 09:47:34 CPU Time: 0 0: 1:19.71 ( 79.71 sec) Binary
 2485 Time Step No. = 380 Elapsed Time = 3.666877E+04 days
 2486 Date: 02/14/07 Time: 09:47:36 CPU Time: 0 0: 1:21.59 ( 81.59 sec) Binary
 2488 Time Step No. = 400 Elapsed Time = 3.739498E+04 days
 2489 Date: 02/14/07 Time: 09:47:40 CPU Time: 0 0: 1:25.10 ( 85.10 sec) Binary
 2491 Time Step No. = 420 Elapsed Time = 5.109122E+04 days
 2492 Date: 02/14/07 Time: 09:47:47 CPU Time: 0 0: 1:32.48 ( 92.48 sec) Binary
 2494 Time Step No. = 440 Elapsed Time = 5.170121E+04 days
 2495 Date: 02/14/07 Time: 09:47:56 CPU Time: 0 0: 1:41.94 ( 101.94 sec) Binary
 2497 Time Step No. = 460 Elapsed Time = 5.298682E+04 days
 2498 Date: 02/14/07 Time: 09:48:02 CPU Time: 0 0: 1:47.90 ( 107.90 sec) Binary
 2500 Time Step No. = 480 Elapsed Time = 7.084490E+04 days
 2501 Date: 02/14/07 Time: 09:48:07 CPU Time: 0 0: 1:52.56 ( 112.56 sec) Binary
 2503 Time Step No. = 500 Elapsed Time = 8.094102E+04 days
 2504 Date: 02/14/07 Time: 09:48:15 CPU Time: 0 0: 2: 0.20 ( 120.20 sec) Binary
 2506 Time Step No. = 520 Elapsed Time = 8.631599E+04 days
 2507 Date: 02/14/07 Time: 09:48:21 CPU Time: 0 0: 2: 6.55 ( 126.55 sec) Binary
 2509 Time Step No. = 540 Elapsed Time = 8.786148E+04 days
 2510 Date: 02/14/07 Time: 09:48:25 CPU Time: 0 0: 2: 9.99 ( 129.99 sec) Binary
 2512 Time Step No. = 560 Elapsed Time = 1.041757E+05 days
 2513 Date: 02/14/07 Time: 09:48:31 CPU Time: 0 0: 2:16.66 ( 136.66 sec) Binary
 2515 Time Step No. = 580 Elapsed Time = 1.043219E+05 days
 2516 Date: 02/14/07 Time: 09:48:39 CPU Time: 0 0: 2:24.39 ( 144.39 sec) Binary
 2518 Time Step No. = 600 Elapsed Time = 1.044755E+05 days
 2519 Date: 02/14/07 Time: 09:48:43 CPU Time: 0 0: 2:28.08 ( 148.08 sec) Binary
```

2521 Time Step No. = 620 Elapsed Time = 1.065997E+05 days
2522 Date: 02/14/07 Time: 09:48:50 CPU Time: 0 0: 2:35.09 (155.09 sec) Binary
2524 Time Step No. = 640 Elapsed Time = 1.295978E+05 days
2525 Date: 02/14/07 Time: 09:48:58 CPU Time: 0 0: 2:43.67 (163.67 sec) Binary
2527 Time Step No. = 660 Elapsed Time = 1.484872E+05 days
2528 Date: 02/14/07 Time: 09:49:06 CPU Time: 0 0: 2:51.84 (171.84 sec) Binary
2530 Time Step No. = 680 Elapsed Time = 1.485303E+05 days
2531 Date: 02/14/07 Time: 09:49:12 CPU Time: 0 0: 2:57.41 (177.41 sec) Binary
2533 Time Step No. = 700 Elapsed Time = 1.493933E+05 days
2534 Date: 02/14/07 Time: 09:49:16 CPU Time: 0 0: 3: 1.41 (181.41 sec) Binary
2536 Time Step No. = 720 Elapsed Time = 1.593167E+05 days
2537 Date: 02/14/07 Time: 09:49:22 CPU Time: 0 0: 3: 7.32 (187.32 sec) Binary
2539 Time Step No. = 740 Elapsed Time = 2.099806E+05 days
2540 Date: 02/14/07 Time: 09:49:31 CPU Time: 0 0: 3:16.43 (196.43 sec) Binary
2542 Time Step No. = 760 Elapsed Time = 2.105719E+05 days
2543 Date: 02/14/07 Time: 09:49:37 CPU Time: 0 0: 3:22.20 (202.20 sec) Binary
2545 Time Step No. = 780 Elapsed Time = 2.202234E+05 days
2546 Date: 02/14/07 Time: 09:49:41 CPU Time: 0 0: 3:26.39 (206.39 sec) Binary
2548 Time Step No. = 800 Elapsed Time = 3.150363E+05 days
2549 Date: 02/14/07 Time: 09:49:48 CPU Time: 0 0: 3:32.85 (212.85 sec) Binary
2551 Time Step No. = 820 Elapsed Time = 3.629194E+05 days
2552 Date: 02/14/07 Time: 09:49:57 CPU Time: 0 0: 3:42.09 (222.09 sec) Binary
2554 Time Step No. = 840 Elapsed Time = 3.652535E+05 days
2555 Date: 02/14/07 Time: 09:50:04 CPU Time: 0 0: 3:49.64 (229.64 sec) Binary
2557 Time Step No. = 860 Elapsed Time = 3.653114E+05 days
2558 Date: 02/14/07 Time: 09:50:10 CPU Time: 0 0: 3:55.16 (235.16 sec) Binary
2560 Time Step No. = 880 Elapsed Time = 3.653632E+05 days
2561 Date: 02/14/07 Time: 09:50:17 CPU Time: 0 0: 4: 2.23 (242.23 sec) Binary
2563 Time Step No. = 900 Elapsed Time = 3.658270E+05 days
2564 Date: 02/14/07 Time: 09:50:21 CPU Time: 0 0: 4: 6.46 (246.46 sec) Binary
2566 Time Step No. = 920 Elapsed Time = 3.666406E+05 days
2567 Date: 02/14/07 Time: 09:50:24 CPU Time: 0 0: 4: 9.04 (249.04 sec) Binary
2569 Time Step No. = 940 Elapsed Time = 3.666905E+05 days
2570 Date: 02/14/07 Time: 09:50:26 CPU Time: 0 0: 4:10.71 (250.71 sec) Binary
2572 Time Step No. = 960 Elapsed Time = 3.710191E+05 days
2573 Date: 02/14/07 Time: 09:50:30 CPU Time: 0 0: 4:14.70 (254.70 sec) Binary
2575 Time Step No. = 980 Elapsed Time = 3.996908E+05 days
2576 Date: 02/14/07 Time: 09:50:37 CPU Time: 0 0: 4:22.52 (262.52 sec) Binary
2578 Time Step No. = 1000 Elapsed Time = 4.303223E+05 days
2579 Date: 02/14/07 Time: 09:50:42 CPU Time: 0 0: 4:27.53 (267.53 sec) Binary
2581 Time Step No. = 1020 Elapsed Time = 4.969452E+05 days
2582 Date: 02/14/07 Time: 09:50:51 CPU Time: 0 0: 4:36.26 (276.26 sec) Binary
2584 Time Step No. = 1040 Elapsed Time = 5.110604E+05 days
2585 Date: 02/14/07 Time: 09:50:59 CPU Time: 0 0: 4:44.48 (284.48 sec) Binary
2587 Time Step No. = 1060 Elapsed Time = 7.111569E+05 days
2588 Date: 02/14/07 Time: 09:51:10 CPU Time: 0 0: 4:54.62 (294.62 sec) Binary
2590 Time Step No. = 1080 Elapsed Time = 7.246704E+05 days
2591 Date: 02/14/07 Time: 09:51:15 CPU Time: 0 0: 4:59.77 (299.77 sec) Binary
2593 Time Step No. = 1100 Elapsed Time = 7.854601E+05 days
2594 Date: 02/14/07 Time: 09:51:23 CPU Time: 0 0: 5: 7.80 (307.80 sec) Binary
2596 Time Step No. = 1120 Elapsed Time = 7.901528E+05 days
2597 Date: 02/14/07 Time: 09:51:30 CPU Time: 0 0: 5:14.48 (314.48 sec) Binary
2599 Time Step No. = 1140 Elapsed Time = 8.541211E+05 days
2600 Date: 02/14/07 Time: 09:51:37 CPU Time: 0 0: 5:21.81 (321.81 sec) Binary
2602 Time Step No. = 1160 Elapsed Time = 8.709685E+05 days
2603 Date: 02/14/07 Time: 09:51:43 CPU Time: 0 0: 5:28.16 (328.16 sec) Binary
2605 Time Step No. = 1180 Elapsed Time = 9.290932E+05 days
2606 Date: 02/14/07 Time: 09:51:52 CPU Time: 0 0: 5:36.94 (336.94 sec) Binary
2608 Time Step No. = 1200 Elapsed Time = 9.435530E+05 days
2609 Date: 02/14/07 Time: 09:52:01 CPU Time: 0 0: 5:46.00 (346.00 sec) Binary
2611 Time Step No. = 1220 Elapsed Time = 9.561082E+05 days
2612 Date: 02/14/07 Time: 09:52:08 CPU Time: 0 0: 5:53.21 (353.21 sec) Binary
2614 Time Step No. = 1240 Elapsed Time = 9.627294E+05 days
2615 Date: 02/14/07 Time: 09:52:16 CPU Time: 0 0: 6: 0.55 (360.55 sec) Binary
2617 Time Step No. = 1260 Elapsed Time = 9.692275E+05 days
2618 Date: 02/14/07 Time: 09:52:25 CPU Time: 0 0: 6:10.21 (370.21 sec) Binary
2620 Time Step No. = 1280 Elapsed Time = 9.817318E+05 days
2621 Date: 02/14/07 Time: 09:52:31 CPU Time: 0 0: 6:15.94 (375.94 sec) Binary
2623 Time Step No. = 1300 Elapsed Time = 1.000743E+06 days
2624 Date: 02/14/07 Time: 09:52:39 CPU Time: 0 0: 6:23.60 (383.60 sec) Binary
2626 Time Step No. = 1320 Elapsed Time = 1.009513E+06 days
2627 Date: 02/14/07 Time: 09:52:48 CPU Time: 0 0: 6:32.43 (392.43 sec) Binary
2629 Time Step No. = 1340 Elapsed Time = 1.018276E+06 days
2630 Date: 02/14/07 Time: 09:52:54 CPU Time: 0 0: 6:39.16 (399.16 sec) Binary
2632 Time Step No. = 1360 Elapsed Time = 1.025094E+06 days
2633 Date: 02/14/07 Time: 09:52:58 CPU Time: 0 0: 6:42.55 (402.55 sec) Binary

2635 Time Step No. = 1380 Elapsed Time = 1.066575E+06 days
2636 Date: 02/14/07 Time: 09:53:06 CPU Time: 0 0: 6:50.59 (410.59 sec) Binary
2638 Time Step No. = 1400 Elapsed Time = 1.078881E+06 days
2639 Date: 02/14/07 Time: 09:53:10 CPU Time: 0 0: 6:54.29 (414.29 sec) Binary
2641 Time Step No. = 1420 Elapsed Time = 1.161020E+06 days
2642 Date: 02/14/07 Time: 09:53:18 CPU Time: 0 0: 7: 2.22 (422.22 sec) Binary
2644 Time Step No. = 1440 Elapsed Time = 1.265422E+06 days
2645 Date: 02/14/07 Time: 09:53:24 CPU Time: 0 0: 7: 8.96 (428.96 sec) Binary
2647 Time Step No. = 1460 Elapsed Time = 1.472580E+06 days
2648 Date: 02/14/07 Time: 09:53:28 CPU Time: 0 0: 7:13.09 (433.09 sec) Binary
2650 Time Step No. = 1480 Elapsed Time = 1.872580E+06 days
2651 Date: 02/14/07 Time: 09:53:34 CPU Time: 0 0: 7:18.70 (438.70 sec) Binary
2653 Time Step No. = 1500 Elapsed Time = 2.099689E+06 days
2654 Date: 02/14/07 Time: 09:53:41 CPU Time: 0 0: 7:25.83 (445.83 sec) Binary
2656 Time Step No. = 1520 Elapsed Time = 2.499689E+06 days
2657 Date: 02/14/07 Time: 09:53:47 CPU Time: 0 0: 7:31.23 (451.23 sec) Binary
2659 Time Step No. = 1540 Elapsed Time = 2.899689E+06 days
2660 Date: 02/14/07 Time: 09:53:51 CPU Time: 0 0: 7:35.99 (455.99 sec) Binary
2662 Time Step No. = 1560 Elapsed Time = 3.299689E+06 days
2663 Date: 02/14/07 Time: 09:53:56 CPU Time: 0 0: 7:40.13 (460.13 sec) Binary
2666 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
2304 Date: 05/18/06 Time: 10:29:26 CPU Time: 0 0: 0:29.82 (29.82 sec) ASCII
2306 Time Step No. = 176 Elapsed Time = 0.000000E+00 days
2307 Date: 05/18/06 Time: 10:29:26 CPU Time: 0 0: 0:29.82 (29.82 sec) Binary
2309 Time Step No. = 180 Elapsed Time = 7.207031E-03 days
2310 Date: 05/18/06 Time: 10:29:28 CPU Time: 0 0: 0:31.60 (31.60 sec) Binary
2312 Time Step No. = 200 Elapsed Time = 1.053791E+00 days
2313 Date: 05/18/06 Time: 10:29:30 CPU Time: 0 0: 0:34.39 (34.39 sec) Binary
2315 Time Step No. = 220 Elapsed Time = 9.183050E+01 days
2316 Date: 05/18/06 Time: 10:29:34 CPU Time: 0 0: 0:38.25 (38.25 sec) Binary
2318 Time Step No. = 240 Elapsed Time = 2.153105E+03 days
2319 Date: 05/18/06 Time: 10:29:39 CPU Time: 0 0: 0:43.34 (43.34 sec) Binary
2321 Time Step No. = 260 Elapsed Time = 5.087922E+03 days
2322 Date: 05/18/06 Time: 10:29:44 CPU Time: 0 0: 0:47.97 (47.97 sec) Binary
2324 Time Step No. = 280 Elapsed Time = 1.243792E+04 days
2325 Date: 05/18/06 Time: 10:29:50 CPU Time: 0 0: 0:53.94 (53.94 sec) Binary
2327 Time Step No. = 300 Elapsed Time = 1.314808E+04 days
2328 Date: 05/18/06 Time: 10:29:53 CPU Time: 0 0: 0:57.13 (57.13 sec) Binary
2330 Time Step No. = 320 Elapsed Time = 1.875956E+04 days
2331 Date: 05/18/06 Time: 10:29:59 CPU Time: 0 0: 1: 2.63 (62.63 sec) Binary
2333 Time Step No. = 340 Elapsed Time = 3.652769E+04 days
2334 Date: 05/18/06 Time: 10:30:04 CPU Time: 0 0: 1: 7.49 (67.49 sec) Binary
2336 Time Step No. = 360 Elapsed Time = 3.666039E+04 days
2337 Date: 05/18/06 Time: 10:30:08 CPU Time: 0 0: 1:11.59 (71.59 sec) Binary
2339 Time Step No. = 380 Elapsed Time = 3.666877E+04 days
2340 Date: 05/18/06 Time: 10:30:09 CPU Time: 0 0: 1:13.32 (73.32 sec) Binary
2342 Time Step No. = 400 Elapsed Time = 3.739498E+04 days
2343 Date: 05/18/06 Time: 10:30:13 CPU Time: 0 0: 1:16.47 (76.47 sec) Binary
2345 Time Step No. = 420 Elapsed Time = 5.109122E+04 days
2346 Date: 05/18/06 Time: 10:30:19 CPU Time: 0 0: 1:23.10 (83.10 sec) Binary
2348 Time Step No. = 440 Elapsed Time = 5.170121E+04 days
2349 Date: 05/18/06 Time: 10:30:28 CPU Time: 0 0: 1:31.56 (91.56 sec) Binary
2351 Time Step No. = 460 Elapsed Time = 5.298682E+04 days
2352 Date: 05/18/06 Time: 10:30:33 CPU Time: 0 0: 1:36.93 (96.93 sec) Binary
2354 Time Step No. = 480 Elapsed Time = 7.084490E+04 days
2355 Date: 05/18/06 Time: 10:30:37 CPU Time: 0 0: 1:41.16 (101.16 sec) Binary
2357 Time Step No. = 500 Elapsed Time = 8.094102E+04 days
2358 Date: 05/18/06 Time: 10:30:44 CPU Time: 0 0: 1:47.76 (107.76 sec) Binary
2360 Time Step No. = 520 Elapsed Time = 8.631599E+04 days
2361 Date: 05/18/06 Time: 10:30:49 CPU Time: 0 0: 1:53.07 (113.07 sec) Binary
2363 Time Step No. = 540 Elapsed Time = 8.786148E+04 days
2364 Date: 05/18/06 Time: 10:30:52 CPU Time: 0 0: 1:55.93 (115.93 sec) Binary
2366 Time Step No. = 560 Elapsed Time = 1.041757E+05 days
2367 Date: 05/18/06 Time: 10:30:58 CPU Time: 0 0: 2: 1.53 (121.53 sec) Binary
2369 Time Step No. = 580 Elapsed Time = 1.042219E+05 days
2370 Date: 05/18/06 Time: 10:31:04 CPU Time: 0 0: 2: 7.95 (127.95 sec) Binary
2372 Time Step No. = 600 Elapsed Time = 1.044755E+05 days
2373 Date: 05/18/06 Time: 10:31:07 CPU Time: 0 0: 2:10.80 (130.80 sec) Binary
2375 Time Step No. = 620 Elapsed Time = 1.065997E+05 days
2376 Date: 05/18/06 Time: 10:31:13 CPU Time: 0 0: 2:16.28 (136.28 sec) Binary
2378 Time Step No. = 640 Elapsed Time = 1.295978E+05 days
2379 Date: 05/18/06 Time: 10:31:19 CPU Time: 0 0: 2:22.92 (142.92 sec) Binary
2381 Time Step No. = 660 Elapsed Time = 1.484872E+05 days
2382 Date: 05/18/06 Time: 10:31:26 CPU Time: 0 0: 2:29.22 (149.22 sec) Binary

2384 Time Step No. = 680 Elapsed Time = 1.485303E+05 days
2385 Date: 05/18/06 Time: 10:31:30 CPU Time: 0 0: 2:33.77 (153.77 sec) Binary
2387 Time Step No. = 700 Elapsed Time = 1.493933E+05 days
2388 Date: 05/18/06 Time: 10:31:33 CPU Time: 0 0: 2:37.12 (157.12 sec) Binary
2390 Time Step No. = 720 Elapsed Time = 1.593167E+05 days
2391 Date: 05/18/06 Time: 10:31:38 CPU Time: 0 0: 2:42.11 (162.11 sec) Binary
2393 Time Step No. = 740 Elapsed Time = 2.099806E+05 days
2394 Date: 05/18/06 Time: 10:31:46 CPU Time: 0 0: 2:49.81 (169.81 sec) Binary
2396 Time Step No. = 760 Elapsed Time = 2.105719E+05 days
2397 Date: 05/18/06 Time: 10:31:51 CPU Time: 0 0: 2:54.63 (174.63 sec) Binary
2399 Time Step No. = 780 Elapsed Time = 2.202234E+05 days
2400 Date: 05/18/06 Time: 10:31:55 CPU Time: 0 0: 2:58.11 (178.11 sec) Binary
2402 Time Step No. = 800 Elapsed Time = 3.150363E+05 days
2403 Date: 05/18/06 Time: 10:32:00 CPU Time: 0 0: 3: 3.57 (183.57 sec) Binary
2405 Time Step No. = 820 Elapsed Time = 3.629194E+05 days
2406 Date: 05/18/06 Time: 10:32:08 CPU Time: 0 0: 3:11.35 (191.35 sec) Binary
2408 Time Step No. = 840 Elapsed Time = 3.652535E+05 days
2409 Date: 05/18/06 Time: 10:32:14 CPU Time: 0 0: 3:17.64 (197.64 sec) Binary
2411 Time Step No. = 860 Elapsed Time = 3.653114E+05 days
2412 Date: 05/18/06 Time: 10:32:19 CPU Time: 0 0: 3:22.23 (202.23 sec) Binary
2414 Time Step No. = 880 Elapsed Time = 3.653632E+05 days
2415 Date: 05/18/06 Time: 10:32:25 CPU Time: 0 0: 3:28.14 (208.14 sec) Binary
2417 Time Step No. = 900 Elapsed Time = 3.658270E+05 days
2418 Date: 05/18/06 Time: 10:32:28 CPU Time: 0 0: 3:31.85 (211.85 sec) Binary
2420 Time Step No. = 920 Elapsed Time = 3.666406E+05 days
2421 Date: 05/18/06 Time: 10:32:31 CPU Time: 0 0: 3:34.23 (214.23 sec) Binary
2423 Time Step No. = 940 Elapsed Time = 3.666905E+05 days
2424 Date: 05/18/06 Time: 10:32:32 CPU Time: 0 0: 3:35.79 (215.79 sec) Binary
2426 Time Step No. = 960 Elapsed Time = 3.710191E+05 days
2427 Date: 05/18/06 Time: 10:32:36 CPU Time: 0 0: 3:39.47 (219.47 sec) Binary
2429 Time Step No. = 980 Elapsed Time = 3.996908E+05 days
2430 Date: 05/18/06 Time: 10:32:43 CPU Time: 0 0: 3:46.65 (226.65 sec) Binary
2432 Time Step No. = 1000 Elapsed Time = 4.303223E+05 days
2433 Date: 05/18/06 Time: 10:32:48 CPU Time: 0 0: 3:51.23 (231.23 sec) Binary
2435 Time Step No. = 1020 Elapsed Time = 4.969452E+05 days
2436 Date: 05/18/06 Time: 10:32:56 CPU Time: 0 0: 3:59.29 (239.29 sec) Binary
2438 Time Step No. = 1040 Elapsed Time = 5.110604E+05 days
2439 Date: 05/18/06 Time: 10:33:03 CPU Time: 0 0: 4: 6.82 (246.82 sec) Binary
2441 Time Step No. = 1060 Elapsed Time = 7.111569E+05 days
2442 Date: 05/18/06 Time: 10:33:12 CPU Time: 0 0: 4:15.71 (255.71 sec) Binary
2444 Time Step No. = 1080 Elapsed Time = 7.246704E+05 days
2445 Date: 05/18/06 Time: 10:33:17 CPU Time: 0 0: 4:20.04 (260.04 sec) Binary
2447 Time Step No. = 1100 Elapsed Time = 7.854601E+05 days
2448 Date: 05/18/06 Time: 10:33:24 CPU Time: 0 0: 4:26.99 (266.99 sec) Binary
2450 Time Step No. = 1120 Elapsed Time = 7.901528E+05 days
2451 Date: 05/18/06 Time: 10:33:30 CPU Time: 0 0: 4:33.29 (273.29 sec) Binary
2453 Time Step No. = 1140 Elapsed Time = 8.541211E+05 days
2454 Date: 05/18/06 Time: 10:33:37 CPU Time: 0 0: 4:40.04 (280.04 sec) Binary
2456 Time Step No. = 1160 Elapsed Time = 8.709685E+05 days
2457 Date: 05/18/06 Time: 10:33:42 CPU Time: 0 0: 4:45.60 (285.60 sec) Binary
2459 Time Step No. = 1180 Elapsed Time = 9.290932E+05 days
2460 Date: 05/18/06 Time: 10:33:50 CPU Time: 0 0: 4:53.29 (293.29 sec) Binary
2462 Time Step No. = 1200 Elapsed Time = 9.435530E+05 days
2463 Date: 05/18/06 Time: 10:33:58 CPU Time: 0 0: 5: 1.61 (301.61 sec) Binary
2465 Time Step No. = 1220 Elapsed Time = 9.561082E+05 days
2466 Date: 05/18/06 Time: 10:34:05 CPU Time: 0 0: 5: 8.16 (308.16 sec) Binary
2468 Time Step No. = 1240 Elapsed Time = 9.627294E+05 days
2469 Date: 05/18/06 Time: 10:34:12 CPU Time: 0 0: 5:14.82 (314.82 sec) Binary
2471 Time Step No. = 1260 Elapsed Time = 9.692275E+05 days
2472 Date: 05/18/06 Time: 10:34:21 CPU Time: 0 0: 5:23.70 (323.70 sec) Binary
2474 Time Step No. = 1280 Elapsed Time = 9.817318E+05 days
2475 Date: 05/18/06 Time: 10:34:26 CPU Time: 0 0: 5:28.70 (328.70 sec) Binary
2477 Time Step No. = 1300 Elapsed Time = 1.000743E+06 days
2478 Date: 05/18/06 Time: 10:34:32 CPU Time: 0 0: 5:35.32 (335.32 sec) Binary
2480 Time Step No. = 1320 Elapsed Time = 1.009513E+06 days
2481 Date: 05/18/06 Time: 10:34:39 CPU Time: 0 0: 5:42.39 (342.39 sec) Binary
2483 Time Step No. = 1340 Elapsed Time = 1.018276E+06 days
2484 Date: 05/18/06 Time: 10:34:45 CPU Time: 0 0: 5:47.81 (347.81 sec) Binary
2486 Time Step No. = 1360 Elapsed Time = 1.025094E+06 days
2487 Date: 05/18/06 Time: 10:34:47 CPU Time: 0 0: 5:50.50 (350.50 sec) Binary
2489 Time Step No. = 1380 Elapsed Time = 1.066575E+06 days
2490 Date: 05/18/06 Time: 10:34:54 CPU Time: 0 0: 5:56.88 (356.88 sec) Binary
2492 Time Step No. = 1400 Elapsed Time = 1.078881E+06 days
2493 Date: 05/18/06 Time: 10:34:57 CPU Time: 0 0: 5:59.87 (359.87 sec) Binary
2495 Time Step No. = 1420 Elapsed Time = 1.161020E+06 days
2496 Date: 05/18/06 Time: 10:35:03 CPU Time: 0 0: 6: 6.25 (366.25 sec) Binary


```
2498 Time Step No. = 1440 Elapsed Time = 1.265422E+06 days
2499 Date: 05/18/06 Time: 10:35:09 CPU Time: 0 0: 6:11.67 ( 371.67 sec) Binary
2501 Time Step No. = 1460 Elapsed Time = 1.472580E+06 days
2502 Date: 05/18/06 Time: 10:35:12 CPU Time: 0 0: 6:14.95 ( 374.95 sec) Binary
2504 Time Step No. = 1480 Elapsed Time = 1.872580E+06 days
2505 Date: 05/18/06 Time: 10:35:17 CPU Time: 0 0: 6:19.45 ( 379.45 sec) Binary
2507 Time Step No. = 1500 Elapsed Time = 2.099689E+06 days
2508 Date: 05/18/06 Time: 10:35:22 CPU Time: 0 0: 6:25.21 ( 385.21 sec) Binary
2510 Time Step No. = 1520 Elapsed Time = 2.499689E+06 days
2511 Date: 05/18/06 Time: 10:35:27 CPU Time: 0 0: 6:29.64 ( 389.64 sec) Binary
2513 Time Step No. = 1540 Elapsed Time = 2.899689E+06 days
2514 Date: 05/18/06 Time: 10:35:31 CPU Time: 0 0: 6:33.75 ( 393.75 sec) Binary
2516 Time Step No. = 1560 Elapsed Time = 3.299689E+06 days
2517 Date: 05/18/06 Time: 10:35:34 CPU Time: 0 0: 6:37.02 ( 397.02 sec) Binary
2520 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
2682 CPU Time (this time step) = 0.21 sec = 0.00006 hr
2683 CPU Time (total for run) = 463.86 sec = 0.12885 hr
2684 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
2536 CPU Time (this time step) = 0.16 sec = 0.00004 hr
2537 CPU Time (total for run) = 399.97 sec = 0.11110 hr
2538 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
3360 Date: 02/14/07 Time: 09:53:59 CPU Time: 0 0: 7:43.88 ( 463.88 sec) ASCII
3362 Time Step No. = 1578 Elapsed Time = 3.652431E+06 days
3363 Date: 02/14/07 Time: 09:53:59 CPU Time: 0 0: 7:43.89 ( 463.89 sec) Binary
3368 *****
3369 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3370 * Completed: 02/14/07 at 09:53:59 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3371 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
3214 Date: 05/18/06 Time: 10:35:37 CPU Time: 0 0: 6:39.99 ( 399.99 sec) ASCII
3216 Time Step No. = 1578 Elapsed Time = 3.652431E+06 days
3217 Date: 05/18/06 Time: 10:35:37 CPU Time: 0 0: 6:39.99 ( 399.99 sec) Binary
3222 *****
3223 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3224 * Completed: 05/18/06 at 10:35:37 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3225 *****
*****
```

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

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

BF2_QB0600_ES47_TEST7_V009_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3 ** Begun on: 02/14/07 at 09:52:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
2 ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3 ** Begun on: 05/18/06 at 10:33:40 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
```

```
61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R009]BF2_TEST7_R009_QA0500.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R009]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R009]BF2_VMS82_V500_ES47_TEST7_R009.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R009]BF2_VMS82_V500_ES47_TEST7_R009.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
86 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R009]BF2_VMS82_V500_ES47_TEST7_R009.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
195 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
196 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
197 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
198 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
199 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
200 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
201 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
202 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
203 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
204 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
205 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
206 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
207 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
208 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
209 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
210 58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
211 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
212 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
213 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
214 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
215 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
216 64 0 0 CONCSG Salt concentration -- simple model kg/m^3
217 65 0 0 POROLID Volume fraction of generated solids dimensionless
218 66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
```

```
219 67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
224 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
225 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
226 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
227 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
228 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
229 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
230 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
231 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
232 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
233 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241 89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
247 95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
248 96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249 97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264 112 0 0 H2OFLOWIN Water inflow rate kg/s
265 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271 119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
272 120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
273 121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274 122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275 123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
276 124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
278
```


File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1

```
195 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200 48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
```

File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1

1096 MgO hydration reaction rate constants:
1097 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100 Gas generation factors for biodegradation reaction:
1101 Waste Area # 1
1102 H2/H2S production (RXH2S) = 1.612000E+00
1103 CO2 production (RXCO2) = 0.000000E+00
1105 Gas generation factors for biodegradation reaction:
1106 Waste Area # 2
1107 H2/H2S production (RXH2S) = 1.612000E+00
1108 CO2 production (RXCO2) = 0.000000E+00
1110 Saturation cutoff value (SOCMIN): 0.000000E+00
1112 Stoichiometric coeff's for Rxn 1:
1113 H2 coefficient = 1.031300E+00
1114 H2O coefficient = -1.937500E+00
1115 Fe coefficient = -1.000000E+00
1116 Bio coefficient = 0.000000E+00
1117 Fe(OH)2 coefficient = 0.000000E+00
1118 FeS coefficient = 0.000000E+00
1119 MgO coefficient = 0.000000E+00
1120 Mg(OH)2 coefficient = 0.000000E+00
1121 MgCO3 coefficient = 0.000000E+00
1123 Stoichiometric coeff's for Rxn 2:
1124 H2 coefficient = 1.612000E+00
1125 H2O coefficient = 0.000000E+00
1126 Fe coefficient = 0.000000E+00
1127 Bio coefficient = -1.000000E+00
1128 Fe(OH)2 coefficient = 0.000000E+00
1129 FeS coefficient = 0.000000E+00
1130 MgO coefficient = 0.000000E+00
1131 Mg(OH)2 coefficient = 0.000000E+00
1132 MgCO3 coefficient = 0.000000E+00
1134 Stoichiometric coeff's for Rxn 3:
1135 H2 coefficient = 0.000000E+00
1136 H2O coefficient = 0.000000E+00
1137 Fe coefficient = 0.000000E+00
1138 Bio coefficient = 0.000000E+00
1139 Fe(OH)2 coefficient = 0.000000E+00
1140 FeS coefficient = 0.000000E+00
1141 MgO coefficient = 0.000000E+00
1142 Mg(OH)2 coefficient = 0.000000E+00
1143 MgCO3 coefficient = 0.000000E+00
1145 Stoichiometric coeff's for Rxn 4:
1146 H2 coefficient = 0.000000E+00
1147 H2O coefficient = 0.000000E+00
1148 Fe coefficient = 0.000000E+00
1149 Bio coefficient = 0.000000E+00
1150 Fe(OH)2 coefficient = 0.000000E+00
1151 FeS coefficient = 0.000000E+00
1152 MgO coefficient = 0.000000E+00
1153 Mg(OH)2 coefficient = 0.000000E+00
1154 MgCO3 coefficient = 0.000000E+00
1156 Stoichiometric coeff's for Rxn 5:
1157 H2 coefficient = 0.000000E+00
1158 H2O coefficient = 0.000000E+00
1159 Fe coefficient = 0.000000E+00
1160 Bio coefficient = 0.000000E+00
1161 Fe(OH)2 coefficient = 0.000000E+00
1162 FeS coefficient = 0.000000E+00
1163 MgO coefficient = 0.000000E+00
1164 Mg(OH)2 coefficient = 0.000000E+00
1165 MgCO3 coefficient = 0.000000E+00
1167 Stoichiometric coeff's for Rxn 6:
1168 H2 coefficient = 0.000000E+00
1169 H2O coefficient = 0.000000E+00
1170 Fe coefficient = 0.000000E+00
1171 Bio coefficient = 0.000000E+00
1172 Fe(OH)2 coefficient = 0.000000E+00

```
1173 FeS coefficient = 0.000000E+00
1174 MgO coefficient = 0.000000E+00
1175 Mg(OH)2 coefficient = 0.000000E+00
1176 MgCO3 coefficient = 0.000000E+00
1178 Stoichiometric coeff's for Rxn 7:
1179 H2 coefficient = 0.000000E+00
1180 H2O coefficient = 0.000000E+00
1181 Fe coefficient = 0.000000E+00
1182 Bio coefficient = 0.000000E+00
1183 Fe(OH)2 coefficient = 0.000000E+00
1184 FeS coefficient = 0.000000E+00
1185 MgO coefficient = 0.000000E+00
1186 Mg(OH)2 coefficient = 0.000000E+00
1187 MgCO3 coefficient = 0.000000E+00
1189 Wicking term (SATWICK) = 0.000000E+00
1190 Humid rates to be smoothed? (LARKN) = T
1191 Concentration rates to be smoothed? (LARKN2) = F
1192 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1194 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
1067 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068 Gas coefficient = 1.031300E+00
1069 H2O coefficient = 1.937500E+00
1070 Fe coefficient = 1.000000E+00
1072 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073 Gas coefficient = 1.612000E+00
1074 H2O coefficient = 0.000000E+00
1075 Bio coefficient = 1.000000E+00
1077 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
1200 Molecular weights (WM):
1201 Fe(OH)2: 8.9862E-02 kg/mol
1202 FeS: 8.7900E-02 kg/mol
1203 MgO: 4.0304E-02 kg/mol
1204 Mg(OH)2: 5.8320E-02 kg/mol
1205 MgCO3: 8.4314E-02 kg/mol
1207 Densities (DEN(1-4)):
1208 Fe: 7.8700E+03 kg/m3
1209 Fe(OH)2: 3.4000E+03 kg/m3
1210 FeS: 4.7000E+03 kg/m3
1211 Bio: 1.1000E+03 kg/m3
1213 Densities (DEN(5-8)):
1214 MgO: 3.6000E+03 kg/m3
1215 Mg(OH)2: 2.3700E+03 kg/m3
1216 MgCO3: 3.0500E+03 kg/m3
1217 SALT: 2.1700E+03 kg/m3
1219 Will creep closure be used (CLOSURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
1083 Wicking term (SATWICK) = 0.000000E+00
1084 Humid rates to be smoothed? (LARKN) = T
1085 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1087 Will creep closure be used (CLOSURE): T
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
1233 PHIUPPER = Upper porosity limit in permeability-porosity expression
1234 PHILOWER = Lower porosity limit in permeability-porosity expression
1235 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
1236 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1237 4 1.480000E+07 3.155700E+12 1 F
1238 MODPERM Parameters
1239 Model Number (CLOSPERFACT) [m^2] (CLOSPERMEXP) [-]
1240 4 5.584700E-12 0.000000E+00
1242 Number of materials using closure (NMATCLOS) = 2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
1101 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERFACT) [m^2] (CLOSPERMEXP) [-]
1102 Refer to the Closure LOOK-UP TABLE DATA FILE for values
```

```
1103 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105 Number of materials using closure (NMACLOS) = 2
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
1260 *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1263 *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1266 *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1269 *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
1272 *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
1276
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
1123 *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1126 *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1130
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
1300 57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1301 58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1303 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
1154 47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1155 48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1157 CAMCON Global Variable Units Conv
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 59.73 sec = 0.01659 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
1626 CPU Time (this time step) = 0.11 sec = 0.00003 hr
1627 CPU Time (total for run) = 52.29 sec = 0.01453 hr
1628 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
2450 Date: 02/14/07 Time: 09:53:25 CPU Time: 0 0: 0:59.74 ( 59.74 sec) ASCII
2452 Time Step No. = 266 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:53:25 CPU Time: 0 0: 0:59.75 ( 59.75 sec) Binary
2455 Time Step No. = 280 Elapsed Time = 1.358585E-02 days
2456 Date: 02/14/07 Time: 09:53:30 CPU Time: 0 0: 1: 5.15 ( 65.15 sec) Binary
2458 Time Step No. = 300 Elapsed Time = 8.176210E-01 days
2459 Date: 02/14/07 Time: 09:53:35 CPU Time: 0 0: 1: 9.55 ( 69.55 sec) Binary
2461 Time Step No. = 320 Elapsed Time = 2.056227E+01 days
2462 Date: 02/14/07 Time: 09:53:38 CPU Time: 0 0: 1:12.89 ( 72.89 sec) Binary
2464 Time Step No. = 340 Elapsed Time = 3.883849E+02 days
2465 Date: 02/14/07 Time: 09:53:42 CPU Time: 0 0: 1:17.15 ( 77.15 sec) Binary
2467 Time Step No. = 360 Elapsed Time = 2.773294E+03 days
2468 Date: 02/14/07 Time: 09:53:49 CPU Time: 0 0: 1:23.42 ( 83.42 sec) Binary
2470 Time Step No. = 380 Elapsed Time = 6.744221E+03 days
2471 Date: 02/14/07 Time: 09:54:02 CPU Time: 0 0: 1:37.17 ( 97.17 sec) Binary
2473 Time Step No. = 400 Elapsed Time = 6.767595E+03 days
2474 Date: 02/14/07 Time: 09:54:05 CPU Time: 0 0: 1:39.45 ( 99.45 sec) Binary
2476 Time Step No. = 420 Elapsed Time = 6.921045E+03 days
2477 Date: 02/14/07 Time: 09:54:13 CPU Time: 0 0: 1:47.65 ( 107.65 sec) Binary
2479 Time Step No. = 440 Elapsed Time = 7.006907E+03 days
2480 Date: 02/14/07 Time: 09:54:16 CPU Time: 0 0: 1:50.59 ( 110.59 sec) Binary
2482 Time Step No. = 460 Elapsed Time = 7.220026E+03 days
2483 Date: 02/14/07 Time: 09:54:25 CPU Time: 0 0: 1:59.64 ( 119.64 sec) Binary
2485 Time Step No. = 480 Elapsed Time = 7.377731E+03 days
2486 Date: 02/14/07 Time: 09:54:28 CPU Time: 0 0: 2: 2.92 ( 122.92 sec) Binary
2488 Time Step No. = 500 Elapsed Time = 8.413059E+03 days
2489 Date: 02/14/07 Time: 09:54:36 CPU Time: 0 0: 2:10.47 ( 130.47 sec) Binary
2491 Time Step No. = 520 Elapsed Time = 8.706621E+03 days
2492 Date: 02/14/07 Time: 09:54:45 CPU Time: 0 0: 2:19.54 ( 139.54 sec) Binary
2494 Time Step No. = 540 Elapsed Time = 8.731156E+03 days
```


2495 Date: 02/14/07 Time: 09:54:47 CPU Time: 0 0: 2:21.99 (141.99 sec) Binary
2497 Time Step No. = 560 Elapsed Time = 8.783097E+03 days
2498 Date: 02/14/07 Time: 09:54:56 CPU Time: 0 0: 2:30.13 (150.13 sec) Binary
2500 Time Step No. = 580 Elapsed Time = 8.873224E+03 days
2501 Date: 02/14/07 Time: 09:54:59 CPU Time: 0 0: 2:33.21 (153.21 sec) Binary
2503 Time Step No. = 600 Elapsed Time = 8.967808E+03 days
2504 Date: 02/14/07 Time: 09:55:07 CPU Time: 0 0: 2:41.33 (161.33 sec) Binary
2506 Time Step No. = 620 Elapsed Time = 9.629958E+03 days
2507 Date: 02/14/07 Time: 09:55:11 CPU Time: 0 0: 2:45.19 (165.19 sec) Binary
2509 Time Step No. = 640 Elapsed Time = 9.720759E+03 days
2510 Date: 02/14/07 Time: 09:55:20 CPU Time: 0 0: 2:54.09 (174.09 sec) Binary
2512 Time Step No. = 660 Elapsed Time = 9.817097E+03 days
2513 Date: 02/14/07 Time: 09:55:29 CPU Time: 0 0: 3: 3.42 (183.42 sec) Binary
2515 Time Step No. = 680 Elapsed Time = 9.829974E+03 days
2516 Date: 02/14/07 Time: 09:55:31 CPU Time: 0 0: 3: 5.70 (185.70 sec) Binary
2518 Time Step No. = 700 Elapsed Time = 9.879586E+03 days
2519 Date: 02/14/07 Time: 09:55:39 CPU Time: 0 0: 3:13.56 (193.56 sec) Binary
2521 Time Step No. = 720 Elapsed Time = 9.926888E+03 days
2522 Date: 02/14/07 Time: 09:55:42 CPU Time: 0 0: 3:16.22 (196.22 sec) Binary
2524 Time Step No. = 740 Elapsed Time = 9.955795E+03 days
2525 Date: 02/14/07 Time: 09:55:50 CPU Time: 0 0: 3:24.20 (204.20 sec) Binary
2527 Time Step No. = 760 Elapsed Time = 1.004381E+04 days
2528 Date: 02/14/07 Time: 09:55:59 CPU Time: 0 0: 3:33.37 (213.37 sec) Binary
2530 Time Step No. = 780 Elapsed Time = 1.005117E+04 days
2531 Date: 02/14/07 Time: 09:56:01 CPU Time: 0 0: 3:35.40 (215.40 sec) Binary
2533 Time Step No. = 800 Elapsed Time = 1.011334E+04 days
2534 Date: 02/14/07 Time: 09:56:10 CPU Time: 0 0: 3:43.80 (223.80 sec) Binary
2536 Time Step No. = 820 Elapsed Time = 1.014038E+04 days
2537 Date: 02/14/07 Time: 09:56:12 CPU Time: 0 0: 3:46.20 (226.20 sec) Binary
2539 Time Step No. = 840 Elapsed Time = 1.021957E+04 days
2540 Date: 02/14/07 Time: 09:56:20 CPU Time: 0 0: 3:53.85 (233.85 sec) Binary
2542 Time Step No. = 860 Elapsed Time = 1.041817E+04 days
2543 Date: 02/14/07 Time: 09:56:23 CPU Time: 0 0: 3:57.18 (237.18 sec) Binary
2545 Time Step No. = 880 Elapsed Time = 1.365675E+04 days
2546 Date: 02/14/07 Time: 09:56:29 CPU Time: 0 0: 4: 2.87 (242.87 sec) Binary
2548 Time Step No. = 900 Elapsed Time = 1.556649E+04 days
2549 Date: 02/14/07 Time: 09:56:41 CPU Time: 0 0: 4:14.94 (254.94 sec) Binary
2551 Time Step No. = 920 Elapsed Time = 1.562828E+04 days
2552 Date: 02/14/07 Time: 09:56:44 CPU Time: 0 0: 4:18.01 (258.01 sec) Binary
2554 Time Step No. = 940 Elapsed Time = 1.939403E+04 days
2555 Date: 02/14/07 Time: 09:56:51 CPU Time: 0 0: 4:24.20 (264.20 sec) Binary
2557 Time Step No. = 960 Elapsed Time = 2.123309E+04 days
2558 Date: 02/14/07 Time: 09:57:03 CPU Time: 0 0: 4:36.67 (276.67 sec) Binary
2560 Time Step No. = 980 Elapsed Time = 2.131000E+04 days
2561 Date: 02/14/07 Time: 09:57:06 CPU Time: 0 0: 4:40.02 (280.02 sec) Binary
2563 Time Step No. = 1000 Elapsed Time = 2.294013E+04 days
2564 Date: 02/14/07 Time: 09:57:20 CPU Time: 0 0: 4:53.40 (293.40 sec) Binary
2566 Time Step No. = 1020 Elapsed Time = 2.294896E+04 days
2567 Date: 02/14/07 Time: 09:57:22 CPU Time: 0 0: 4:55.43 (295.43 sec) Binary
2569 Time Step No. = 1040 Elapsed Time = 2.371476E+04 days
2570 Date: 02/14/07 Time: 09:57:26 CPU Time: 0 0: 4:59.39 (299.39 sec) Binary
2572 Time Step No. = 1060 Elapsed Time = 2.412100E+04 days
2573 Date: 02/14/07 Time: 09:57:37 CPU Time: 0 0: 5:10.13 (310.13 sec) Binary
2575 Time Step No. = 1080 Elapsed Time = 2.417691E+04 days
2576 Date: 02/14/07 Time: 09:57:46 CPU Time: 0 0: 5:19.31 (319.31 sec) Binary
2578 Time Step No. = 1100 Elapsed Time = 2.418063E+04 days
2579 Date: 02/14/07 Time: 09:57:48 CPU Time: 0 0: 5:21.22 (321.22 sec) Binary
2581 Time Step No. = 1120 Elapsed Time = 2.450356E+04 days
2582 Date: 02/14/07 Time: 09:57:51 CPU Time: 0 0: 5:24.98 (324.98 sec) Binary
2584 Time Step No. = 1140 Elapsed Time = 2.827711E+04 days
2585 Date: 02/14/07 Time: 09:58:01 CPU Time: 0 0: 5:34.23 (334.23 sec) Binary
2587 Time Step No. = 1160 Elapsed Time = 2.828638E+04 days
2588 Date: 02/14/07 Time: 09:58:09 CPU Time: 0 0: 5:42.19 (342.19 sec) Binary
2590 Time Step No. = 1180 Elapsed Time = 2.909021E+04 days
2591 Date: 02/14/07 Time: 09:58:13 CPU Time: 0 0: 5:46.52 (346.52 sec) Binary
2593 Time Step No. = 1200 Elapsed Time = 3.111835E+04 days
2594 Date: 02/14/07 Time: 09:58:26 CPU Time: 0 0: 5:59.27 (359.27 sec) Binary
2596 Time Step No. = 1220 Elapsed Time = 3.116449E+04 days
2597 Date: 02/14/07 Time: 09:58:29 CPU Time: 0 0: 6: 2.34 (362.34 sec) Binary
2599 Time Step No. = 1240 Elapsed Time = 3.417846E+04 days
2600 Date: 02/14/07 Time: 09:58:35 CPU Time: 0 0: 6: 7.83 (367.83 sec) Binary
2602 Time Step No. = 1260 Elapsed Time = 3.574682E+04 days
2603 Date: 02/14/07 Time: 09:58:47 CPU Time: 0 0: 6:20.42 (380.42 sec) Binary
2605 Time Step No. = 1280 Elapsed Time = 3.586166E+04 days
2606 Date: 02/14/07 Time: 09:58:51 CPU Time: 0 0: 6:23.93 (383.93 sec) Binary
2608 Time Step No. = 1300 Elapsed Time = 3.593185E+04 days

2609 Date: 02/14/07 Time: 09:58:59 CPU Time: 0 0: 6:32.02 (392.02 sec) Binary
2611 Time Step No. = 1320 Elapsed Time = 3.595645E+04 days
2612 Date: 02/14/07 Time: 09:59:07 CPU Time: 0 0: 6:40.37 (400.37 sec) Binary
2614 Time Step No. = 1340 Elapsed Time = 3.597432E+04 days
2615 Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 6:42.90 (402.90 sec) Binary
2617 Time Step No. = 1360 Elapsed Time = 3.641887E+04 days
2618 Date: 02/14/07 Time: 09:59:19 CPU Time: 0 0: 6:52.29 (412.29 sec) Binary
2620 Time Step No. = 1380 Elapsed Time = 3.645168E+04 days
2621 Date: 02/14/07 Time: 09:59:22 CPU Time: 0 0: 6:55.23 (415.23 sec) Binary
2623 Time Step No. = 1400 Elapsed Time = 3.652004E+04 days
2624 Date: 02/14/07 Time: 09:59:30 CPU Time: 0 0: 7: 3.54 (423.54 sec) Binary
2626 Time Step No. = 1420 Elapsed Time = 3.652431E+04 days
2627 Date: 02/14/07 Time: 09:59:39 CPU Time: 0 0: 7:12.52 (432.52 sec) Binary
2629 Time Step No. = 1440 Elapsed Time = 3.652431E+04 days
2630 Date: 02/14/07 Time: 09:59:42 CPU Time: 0 0: 7:15.51 (435.51 sec) Binary
2632 Time Step No. = 1460 Elapsed Time = 3.652431E+04 days
2633 Date: 02/14/07 Time: 09:59:45 CPU Time: 0 0: 7:18.52 (438.52 sec) Binary
2635 Time Step No. = 1480 Elapsed Time = 3.652431E+04 days
2636 Date: 02/14/07 Time: 09:59:49 CPU Time: 0 0: 7:21.89 (441.89 sec) Binary
2638 Time Step No. = 1500 Elapsed Time = 3.652442E+04 days
2639 Date: 02/14/07 Time: 09:59:52 CPU Time: 0 0: 7:25.40 (445.40 sec) Binary
2641 Time Step No. = 1520 Elapsed Time = 3.653418E+04 days
2642 Date: 02/14/07 Time: 09:59:56 CPU Time: 0 0: 7:28.98 (448.98 sec) Binary
2644 Time Step No. = 1540 Elapsed Time = 3.666627E+04 days
2645 Date: 02/14/07 Time: 09:59:59 CPU Time: 0 0: 7:32.25 (452.25 sec) Binary
2647 Time Step No. = 1560 Elapsed Time = 3.668671E+04 days
2648 Date: 02/14/07 Time: 10:00:02 CPU Time: 0 0: 7:35.05 (455.05 sec) Binary
2650 Time Step No. = 1580 Elapsed Time = 3.670728E+04 days
2651 Date: 02/14/07 Time: 10:00:11 CPU Time: 0 0: 7:43.51 (463.51 sec) Binary
2653 Time Step No. = 1600 Elapsed Time = 3.678237E+04 days
2654 Date: 02/14/07 Time: 10:00:14 CPU Time: 0 0: 7:47.02 (467.02 sec) Binary
2656 Time Step No. = 1620 Elapsed Time = 3.716779E+04 days
2657 Date: 02/14/07 Time: 10:00:25 CPU Time: 0 0: 7:57.83 (477.83 sec) Binary
2659 Time Step No. = 1640 Elapsed Time = 3.718347E+04 days
2660 Date: 02/14/07 Time: 10:00:27 CPU Time: 0 0: 8: 0.40 (480.40 sec) Binary
2662 Time Step No. = 1660 Elapsed Time = 3.724390E+04 days
2663 Date: 02/14/07 Time: 10:00:36 CPU Time: 0 0: 8: 9.12 (489.12 sec) Binary
2665 Time Step No. = 1680 Elapsed Time = 3.730151E+04 days
2666 Date: 02/14/07 Time: 10:00:40 CPU Time: 0 0: 8:12.54 (492.54 sec) Binary
2668 Time Step No. = 1700 Elapsed Time = 3.752349E+04 days
2669 Date: 02/14/07 Time: 10:00:48 CPU Time: 0 0: 8:21.25 (501.25 sec) Binary
2671 Time Step No. = 1720 Elapsed Time = 3.773513E+04 days
2672 Date: 02/14/07 Time: 10:00:52 CPU Time: 0 0: 8:24.96 (504.96 sec) Binary
2674 Time Step No. = 1740 Elapsed Time = 3.794042E+04 days
2675 Date: 02/14/07 Time: 10:01:01 CPU Time: 0 0: 8:33.96 (513.96 sec) Binary
2677 Time Step No. = 1760 Elapsed Time = 3.803760E+04 days
2678 Date: 02/14/07 Time: 10:01:05 CPU Time: 0 0: 8:37.46 (517.46 sec) Binary
2680 Time Step No. = 1780 Elapsed Time = 3.956208E+04 days
2681 Date: 02/14/07 Time: 10:01:14 CPU Time: 0 0: 8:46.92 (526.92 sec) Binary
2683 Time Step No. = 1800 Elapsed Time = 4.088771E+04 days
2684 Date: 02/14/07 Time: 10:01:29 CPU Time: 0 0: 9: 2.11 (542.11 sec) Binary
2686 Time Step No. = 1820 Elapsed Time = 4.089527E+04 days
2687 Date: 02/14/07 Time: 10:01:31 CPU Time: 0 0: 9: 4.35 (544.35 sec) Binary
2689 Time Step No. = 1840 Elapsed Time = 4.155094E+04 days
2690 Date: 02/14/07 Time: 10:01:36 CPU Time: 0 0: 9: 8.61 (548.61 sec) Binary
2692 Time Step No. = 1860 Elapsed Time = 4.294061E+04 days
2693 Date: 02/14/07 Time: 10:01:47 CPU Time: 0 0: 9:20.17 (560.17 sec) Binary
2695 Time Step No. = 1880 Elapsed Time = 4.301587E+04 days
2696 Date: 02/14/07 Time: 10:01:51 CPU Time: 0 0: 9:23.59 (563.59 sec) Binary
2698 Time Step No. = 1900 Elapsed Time = 4.760255E+04 days
2699 Date: 02/14/07 Time: 10:01:57 CPU Time: 0 0: 9:29.87 (569.87 sec) Binary
2701 Time Step No. = 1920 Elapsed Time = 4.987005E+04 days
2702 Date: 02/14/07 Time: 10:02:10 CPU Time: 0 0: 9:42.61 (582.61 sec) Binary
2704 Time Step No. = 1940 Elapsed Time = 4.996373E+04 days
2705 Date: 02/14/07 Time: 10:02:13 CPU Time: 0 0: 9:46.10 (586.10 sec) Binary
2707 Time Step No. = 1960 Elapsed Time = 5.010423E+04 days
2708 Date: 02/14/07 Time: 10:02:22 CPU Time: 0 0: 9:54.39 (594.39 sec) Binary
2710 Time Step No. = 1980 Elapsed Time = 5.037876E+04 days
2711 Date: 02/14/07 Time: 10:02:31 CPU Time: 0 0:10: 3.37 (603.37 sec) Binary
2713 Time Step No. = 2000 Elapsed Time = 5.039333E+04 days
2714 Date: 02/14/07 Time: 10:02:33 CPU Time: 0 0:10: 5.81 (605.81 sec) Binary
2716 Time Step No. = 2020 Elapsed Time = 5.152954E+04 days
2717 Date: 02/14/07 Time: 10:02:38 CPU Time: 0 0:10:10.98 (610.98 sec) Binary
2719 Time Step No. = 2040 Elapsed Time = 5.170355E+04 days
2720 Date: 02/14/07 Time: 10:02:49 CPU Time: 0 0:10:21.44 (621.44 sec) Binary
2722 Time Step No. = 2060 Elapsed Time = 5.179583E+04 days

2723	Date: 02/14/07	Time: 10:02:58	CPU Time: 0 0:10:30.92 (630.92 sec)	Binary
2725	Time Step No. = 2080	Elapsed Time = 5.180198E+04 days		
2726	Date: 02/14/07	Time: 10:03:00	CPU Time: 0 0:10:33.09 (633.09 sec)	Binary
2728	Time Step No. = 2100	Elapsed Time = 5.184257E+04 days		
2729	Date: 02/14/07	Time: 10:03:08	CPU Time: 0 0:10:40.75 (640.75 sec)	Binary
2731	Time Step No. = 2120	Elapsed Time = 5.188772E+04 days		
2732	Date: 02/14/07	Time: 10:03:11	CPU Time: 0 0:10:43.90 (643.90 sec)	Binary
2734	Time Step No. = 2140	Elapsed Time = 5.191531E+04 days		
2735	Date: 02/14/07	Time: 10:03:19	CPU Time: 0 0:10:52.07 (652.07 sec)	Binary
2737	Time Step No. = 2160	Elapsed Time = 5.208117E+04 days		
2738	Date: 02/14/07	Time: 10:03:23	CPU Time: 0 0:10:55.69 (655.69 sec)	Binary
2740	Time Step No. = 2180	Elapsed Time = 5.738239E+04 days		
2741	Date: 02/14/07	Time: 10:03:30	CPU Time: 0 0:11: 2.72 (662.72 sec)	Binary
2743	Time Step No. = 2200	Elapsed Time = 5.874693E+04 days		
2744	Date: 02/14/07	Time: 10:03:44	CPU Time: 0 0:11:16.72 (676.72 sec)	Binary
2746	Time Step No. = 2220	Elapsed Time = 5.877274E+04 days		
2747	Date: 02/14/07	Time: 10:03:47	CPU Time: 0 0:11:19.53 (679.53 sec)	Binary
2749	Time Step No. = 2240	Elapsed Time = 6.101085E+04 days		
2750	Date: 02/14/07	Time: 10:03:52	CPU Time: 0 0:11:24.32 (684.32 sec)	Binary
2752	Time Step No. = 2260	Elapsed Time = 6.281765E+04 days		
2753	Date: 02/14/07	Time: 10:04:05	CPU Time: 0 0:11:37.13 (697.13 sec)	Binary
2755	Time Step No. = 2280	Elapsed Time = 6.294611E+04 days		
2756	Date: 02/14/07	Time: 10:04:09	CPU Time: 0 0:11:40.77 (700.77 sec)	Binary
2758	Time Step No. = 2300	Elapsed Time = 6.313878E+04 days		
2759	Date: 02/14/07	Time: 10:04:17	CPU Time: 0 0:11:48.74 (708.74 sec)	Binary
2761	Time Step No. = 2320	Elapsed Time = 6.361068E+04 days		
2762	Date: 02/14/07	Time: 10:04:21	CPU Time: 0 0:11:52.88 (712.88 sec)	Binary
2764	Time Step No. = 2340	Elapsed Time = 6.737769E+04 days		
2765	Date: 02/14/07	Time: 10:04:35	CPU Time: 0 0:12: 7.53 (727.53 sec)	Binary
2767	Time Step No. = 2360	Elapsed Time = 6.740478E+04 days		
2768	Date: 02/14/07	Time: 10:04:38	CPU Time: 0 0:12:10.40 (730.40 sec)	Binary
2770	Time Step No. = 2380	Elapsed Time = 6.741391E+04 days		
2771	Date: 02/14/07	Time: 10:04:46	CPU Time: 0 0:12:18.11 (738.11 sec)	Binary
2773	Time Step No. = 2400	Elapsed Time = 6.761291E+04 days		
2774	Date: 02/14/07	Time: 10:04:50	CPU Time: 0 0:12:21.91 (741.91 sec)	Binary
2776	Time Step No. = 2420	Elapsed Time = 6.773452E+04 days		
2777	Date: 02/14/07	Time: 10:04:59	CPU Time: 0 0:12:30.71 (750.71 sec)	Binary
2779	Time Step No. = 2440	Elapsed Time = 6.776699E+04 days		
2780	Date: 02/14/07	Time: 10:05:07	CPU Time: 0 0:12:39.15 (759.15 sec)	Binary
2782	Time Step No. = 2460	Elapsed Time = 6.779795E+04 days		
2783	Date: 02/14/07	Time: 10:05:10	CPU Time: 0 0:12:42.10 (762.10 sec)	Binary
2785	Time Step No. = 2480	Elapsed Time = 7.048314E+04 days		
2786	Date: 02/14/07	Time: 10:05:15	CPU Time: 0 0:12:46.90 (766.90 sec)	Binary
2788	Time Step No. = 2500	Elapsed Time = 8.118433E+04 days		
2789	Date: 02/14/07	Time: 10:05:25	CPU Time: 0 0:12:56.52 (776.52 sec)	Binary
2791	Time Step No. = 2520	Elapsed Time = 8.428954E+04 days		
2792	Date: 02/14/07	Time: 10:05:37	CPU Time: 0 0:13: 8.96 (788.96 sec)	Binary
2794	Time Step No. = 2540	Elapsed Time = 8.439398E+04 days		
2795	Date: 02/14/07	Time: 10:05:41	CPU Time: 0 0:13:12.55 (792.55 sec)	Binary
2797	Time Step No. = 2560	Elapsed Time = 8.992246E+04 days		
2798	Date: 02/14/07	Time: 10:05:47	CPU Time: 0 0:13:19.01 (799.01 sec)	Binary
2800	Time Step No. = 2580	Elapsed Time = 9.139559E+04 days		
2801	Date: 02/14/07	Time: 10:05:59	CPU Time: 0 0:13:30.78 (810.78 sec)	Binary
2803	Time Step No. = 2600	Elapsed Time = 9.153888E+04 days		
2804	Date: 02/14/07	Time: 10:06:06	CPU Time: 0 0:13:37.89 (817.89 sec)	Binary
2806	Time Step No. = 2620	Elapsed Time = 9.175238E+04 days		
2807	Date: 02/14/07	Time: 10:06:14	CPU Time: 0 0:13:45.32 (825.32 sec)	Binary
2809	Time Step No. = 2640	Elapsed Time = 9.184598E+04 days		
2810	Date: 02/14/07	Time: 10:06:22	CPU Time: 0 0:13:53.65 (833.65 sec)	Binary
2812	Time Step No. = 2660	Elapsed Time = 9.190019E+04 days		
2813	Date: 02/14/07	Time: 10:06:32	CPU Time: 0 0:14: 4.08 (844.08 sec)	Binary
2815	Time Step No. = 2680	Elapsed Time = 9.194215E+04 days		
2816	Date: 02/14/07	Time: 10:06:40	CPU Time: 0 0:14:11.21 (851.21 sec)	Binary
2818	Time Step No. = 2700	Elapsed Time = 9.204832E+04 days		
2819	Date: 02/14/07	Time: 10:06:48	CPU Time: 0 0:14:19.76 (859.76 sec)	Binary
2821	Time Step No. = 2720	Elapsed Time = 9.208378E+04 days		
2822	Date: 02/14/07	Time: 10:06:59	CPU Time: 0 0:14:30.59 (870.59 sec)	Binary
2824	Time Step No. = 2740	Elapsed Time = 9.211140E+04 days		
2825	Date: 02/14/07	Time: 10:07:09	CPU Time: 0 0:14:40.74 (880.74 sec)	Binary
2827	Time Step No. = 2760	Elapsed Time = 9.214645E+04 days		
2828	Date: 02/14/07	Time: 10:07:21	CPU Time: 0 0:14:52.32 (892.32 sec)	Binary
2830	Time Step No. = 2780	Elapsed Time = 9.216828E+04 days		
2831	Date: 02/14/07	Time: 10:07:31	CPU Time: 0 0:15: 2.56 (902.56 sec)	Binary
2833	Time Step No. = 2800	Elapsed Time = 9.218932E+04 days		
2834	Date: 02/14/07	Time: 10:07:41	CPU Time: 0 0:15:11.69 (911.69 sec)	Binary
2836	Time Step No. = 2820	Elapsed Time = 9.220924E+04 days		

2837 Date: 02/14/07 Time: 10:07:50 CPU Time: 0 0:15:21.53 (921.53 sec) Binary
2839 Time Step No. = 2840 Elapsed Time = 9.222973E+04 days
2840 Date: 02/14/07 Time: 10:08:00 CPU Time: 0 0:15:31.06 (931.06 sec) Binary
2842 Time Step No. = 2860 Elapsed Time = 9.225032E+04 days
2843 Date: 02/14/07 Time: 10:08:09 CPU Time: 0 0:15:40.31 (940.31 sec) Binary
2845 Time Step No. = 2880 Elapsed Time = 9.227070E+04 days
2846 Date: 02/14/07 Time: 10:08:21 CPU Time: 0 0:15:51.78 (951.78 sec) Binary
2848 Time Step No. = 2900 Elapsed Time = 9.229232E+04 days
2849 Date: 02/14/07 Time: 10:08:32 CPU Time: 0 0:16: 2.69 (962.69 sec) Binary
2851 Time Step No. = 2920 Elapsed Time = 9.231037E+04 days
2852 Date: 02/14/07 Time: 10:08:41 CPU Time: 0 0:16:11.94 (971.94 sec) Binary
2854 Time Step No. = 2940 Elapsed Time = 9.232895E+04 days
2855 Date: 02/14/07 Time: 10:08:50 CPU Time: 0 0:16:20.61 (980.61 sec) Binary
2857 Time Step No. = 2960 Elapsed Time = 9.234552E+04 days
2858 Date: 02/14/07 Time: 10:08:58 CPU Time: 0 0:16:28.50 (988.50 sec) Binary
2860 Time Step No. = 2980 Elapsed Time = 9.236376E+04 days
2861 Date: 02/14/07 Time: 10:09:06 CPU Time: 0 0:16:36.64 (996.64 sec) Binary
2863 Time Step No. = 3000 Elapsed Time = 9.238011E+04 days
2864 Date: 02/14/07 Time: 10:09:14 CPU Time: 0 0:16:44.37 (1004.37 sec) Binary
2866 Time Step No. = 3020 Elapsed Time = 9.239686E+04 days
2867 Date: 02/14/07 Time: 10:09:21 CPU Time: 0 0:16:51.55 (1011.55 sec) Binary
2869 Time Step No. = 3040 Elapsed Time = 9.241242E+04 days
2870 Date: 02/14/07 Time: 10:09:29 CPU Time: 0 0:16:59.27 (1019.27 sec) Binary
2872 Time Step No. = 3060 Elapsed Time = 9.242781E+04 days
2873 Date: 02/14/07 Time: 10:09:36 CPU Time: 0 0:17: 6.44 (1026.44 sec) Binary
2875 Time Step No. = 3080 Elapsed Time = 9.244312E+04 days
2876 Date: 02/14/07 Time: 10:09:43 CPU Time: 0 0:17:14.18 (1034.18 sec) Binary
2878 Time Step No. = 3100 Elapsed Time = 9.245725E+04 days
2879 Date: 02/14/07 Time: 10:09:51 CPU Time: 0 0:17:21.35 (1041.35 sec) Binary
2881 Time Step No. = 3120 Elapsed Time = 9.247181E+04 days
2882 Date: 02/14/07 Time: 10:09:58 CPU Time: 0 0:17:28.80 (1048.80 sec) Binary
2884 Time Step No. = 3140 Elapsed Time = 9.248478E+04 days
2885 Date: 02/14/07 Time: 10:10:05 CPU Time: 0 0:17:35.29 (1055.29 sec) Binary
2887 Time Step No. = 3160 Elapsed Time = 9.249861E+04 days
2888 Date: 02/14/07 Time: 10:10:12 CPU Time: 0 0:17:42.01 (1062.01 sec) Binary
2890 Time Step No. = 3180 Elapsed Time = 9.251140E+04 days
2891 Date: 02/14/07 Time: 10:10:17 CPU Time: 0 0:17:47.89 (1067.89 sec) Binary
2893 Time Step No. = 3200 Elapsed Time = 9.252410E+04 days
2894 Date: 02/14/07 Time: 10:10:24 CPU Time: 0 0:17:54.18 (1074.18 sec) Binary
2896 Time Step No. = 3220 Elapsed Time = 9.253757E+04 days
2897 Date: 02/14/07 Time: 10:10:30 CPU Time: 0 0:17:59.95 (1079.95 sec) Binary
2899 Time Step No. = 3240 Elapsed Time = 9.255098E+04 days
2900 Date: 02/14/07 Time: 10:10:35 CPU Time: 0 0:18: 5.71 (1085.71 sec) Binary
2902 Time Step No. = 3260 Elapsed Time = 9.256381E+04 days
2903 Date: 02/14/07 Time: 10:10:42 CPU Time: 0 0:18:11.99 (1091.99 sec) Binary
2905 Time Step No. = 3280 Elapsed Time = 9.257743E+04 days
2906 Date: 02/14/07 Time: 10:10:47 CPU Time: 0 0:18:17.75 (1097.75 sec) Binary
2908 Time Step No. = 3300 Elapsed Time = 9.259099E+04 days
2909 Date: 02/14/07 Time: 10:10:54 CPU Time: 0 0:18:24.04 (1104.04 sec) Binary
2911 Time Step No. = 3320 Elapsed Time = 9.260441E+04 days
2912 Date: 02/14/07 Time: 10:10:59 CPU Time: 0 0:18:29.81 (1109.81 sec) Binary
2914 Time Step No. = 3340 Elapsed Time = 9.261774E+04 days
2915 Date: 02/14/07 Time: 10:11:06 CPU Time: 0 0:18:36.11 (1116.11 sec) Binary
2917 Time Step No. = 3360 Elapsed Time = 9.263189E+04 days
2918 Date: 02/14/07 Time: 10:11:12 CPU Time: 0 0:18:41.88 (1121.88 sec) Binary
2920 Time Step No. = 3380 Elapsed Time = 9.264596E+04 days
2921 Date: 02/14/07 Time: 10:11:17 CPU Time: 0 0:18:47.65 (1127.65 sec) Binary
2923 Time Step No. = 3400 Elapsed Time = 9.265943E+04 days
2924 Date: 02/14/07 Time: 10:11:24 CPU Time: 0 0:18:53.93 (1133.93 sec) Binary
2926 Time Step No. = 3420 Elapsed Time = 9.267372E+04 days
2927 Date: 02/14/07 Time: 10:11:29 CPU Time: 0 0:18:59.70 (1139.70 sec) Binary
2929 Time Step No. = 3440 Elapsed Time = 9.268795E+04 days
2930 Date: 02/14/07 Time: 10:11:36 CPU Time: 0 0:19: 5.98 (1145.98 sec) Binary
2932 Time Step No. = 3460 Elapsed Time = 9.270205E+04 days
2933 Date: 02/14/07 Time: 10:11:41 CPU Time: 0 0:19:11.76 (1151.76 sec) Binary
2935 Time Step No. = 3480 Elapsed Time = 9.271604E+04 days
2936 Date: 02/14/07 Time: 10:11:48 CPU Time: 0 0:19:18.05 (1158.05 sec) Binary
2938 Time Step No. = 3500 Elapsed Time = 9.273088E+04 days
2939 Date: 02/14/07 Time: 10:11:54 CPU Time: 0 0:19:24.26 (1164.26 sec) Binary
2941 Time Step No. = 3520 Elapsed Time = 9.274566E+04 days
2942 Date: 02/14/07 Time: 10:12:00 CPU Time: 0 0:19:30.48 (1170.48 sec) Binary
2944 Time Step No. = 3540 Elapsed Time = 9.275979E+04 days
2945 Date: 02/14/07 Time: 10:12:07 CPU Time: 0 0:19:37.23 (1177.23 sec) Binary
2947 Time Step No. = 3560 Elapsed Time = 9.277479E+04 days
2948 Date: 02/14/07 Time: 10:12:13 CPU Time: 0 0:19:43.43 (1183.43 sec) Binary
2950 Time Step No. = 3580 Elapsed Time = 9.278974E+04 days

2951 Date: 02/14/07 Time: 10:12:20 CPU Time: 0 0:19:50.19 (1190.19 sec) Binary
2953 Time Step No. = 3600 Elapsed Time = 9.280453E+04 days
2954 Date: 02/14/07 Time: 10:12:26 CPU Time: 0 0:19:56.38 (1196.38 sec) Binary
2956 Time Step No. = 3620 Elapsed Time = 9.281975E+04 days
2957 Date: 02/14/07 Time: 10:12:32 CPU Time: 0 0:20: 2.59 (1202.59 sec) Binary
2959 Time Step No. = 3640 Elapsed Time = 9.283533E+04 days
2960 Date: 02/14/07 Time: 10:12:39 CPU Time: 0 0:20: 9.36 (1209.36 sec) Binary
2962 Time Step No. = 3660 Elapsed Time = 9.285137E+04 days
2963 Date: 02/14/07 Time: 10:12:45 CPU Time: 0 0:20:15.56 (1215.56 sec) Binary
2965 Time Step No. = 3680 Elapsed Time = 9.286675E+04 days
2966 Date: 02/14/07 Time: 10:12:52 CPU Time: 0 0:20:22.31 (1222.31 sec) Binary
2968 Time Step No. = 3700 Elapsed Time = 9.288250E+04 days
2969 Date: 02/14/07 Time: 10:12:58 CPU Time: 0 0:20:28.51 (1228.51 sec) Binary
2971 Time Step No. = 3720 Elapsed Time = 9.289928E+04 days
2972 Date: 02/14/07 Time: 10:13:05 CPU Time: 0 0:20:35.27 (1235.27 sec) Binary
2974 Time Step No. = 3740 Elapsed Time = 9.291592E+04 days
2975 Date: 02/14/07 Time: 10:13:11 CPU Time: 0 0:20:41.48 (1241.48 sec) Binary
2977 Time Step No. = 3760 Elapsed Time = 9.293247E+04 days
2978 Date: 02/14/07 Time: 10:13:17 CPU Time: 0 0:20:47.36 (1247.36 sec) Binary
2980 Time Step No. = 3780 Elapsed Time = 9.294882E+04 days
2981 Date: 02/14/07 Time: 10:13:23 CPU Time: 0 0:20:53.65 (1253.65 sec) Binary
2983 Time Step No. = 3800 Elapsed Time = 9.296682E+04 days
2984 Date: 02/14/07 Time: 10:13:29 CPU Time: 0 0:20:59.43 (1259.43 sec) Binary
2986 Time Step No. = 3820 Elapsed Time = 9.298414E+04 days
2987 Date: 02/14/07 Time: 10:13:36 CPU Time: 0 0:21: 5.74 (1265.74 sec) Binary
2989 Time Step No. = 3840 Elapsed Time = 9.300189E+04 days
2990 Date: 02/14/07 Time: 10:13:41 CPU Time: 0 0:21:11.53 (1271.53 sec) Binary
2992 Time Step No. = 3860 Elapsed Time = 9.302014E+04 days
2993 Date: 02/14/07 Time: 10:13:47 CPU Time: 0 0:21:17.32 (1277.32 sec) Binary
2995 Time Step No. = 3880 Elapsed Time = 9.303884E+04 days
2996 Date: 02/14/07 Time: 10:13:53 CPU Time: 0 0:21:23.61 (1283.61 sec) Binary
2998 Time Step No. = 3900 Elapsed Time = 9.305808E+04 days
2999 Date: 02/14/07 Time: 10:13:59 CPU Time: 0 0:21:29.41 (1289.41 sec) Binary
3001 Time Step No. = 3920 Elapsed Time = 9.307720E+04 days
3002 Date: 02/14/07 Time: 10:14:06 CPU Time: 0 0:21:35.98 (1295.98 sec) Binary
3004 Time Step No. = 3940 Elapsed Time = 9.309678E+04 days
3005 Date: 02/14/07 Time: 10:14:12 CPU Time: 0 0:21:42.19 (1302.19 sec) Binary
3007 Time Step No. = 3960 Elapsed Time = 9.311692E+04 days
3008 Date: 02/14/07 Time: 10:14:19 CPU Time: 0 0:21:48.91 (1308.91 sec) Binary
3010 Time Step No. = 3980 Elapsed Time = 9.313829E+04 days
3011 Date: 02/14/07 Time: 10:14:25 CPU Time: 0 0:21:55.11 (1315.11 sec) Binary
3013 Time Step No. = 4000 Elapsed Time = 9.316104E+04 days
3014 Date: 02/14/07 Time: 10:14:31 CPU Time: 0 0:22: 1.47 (1321.47 sec) Binary
3016 Time Step No. = 4020 Elapsed Time = 9.318366E+04 days
3017 Date: 02/14/07 Time: 10:14:38 CPU Time: 0 0:22: 8.23 (1328.23 sec) Binary
3019 Time Step No. = 4040 Elapsed Time = 9.320767E+04 days
3020 Date: 02/14/07 Time: 10:14:44 CPU Time: 0 0:22:14.39 (1334.39 sec) Binary
3022 Time Step No. = 4060 Elapsed Time = 9.323324E+04 days
3023 Date: 02/14/07 Time: 10:14:51 CPU Time: 0 0:22:20.62 (1340.62 sec) Binary
3025 Time Step No. = 4080 Elapsed Time = 9.325948E+04 days
3026 Date: 02/14/07 Time: 10:14:57 CPU Time: 0 0:22:27.46 (1347.46 sec) Binary
3028 Time Step No. = 4100 Elapsed Time = 9.328834E+04 days
3029 Date: 02/14/07 Time: 10:15:04 CPU Time: 0 0:22:33.82 (1353.82 sec) Binary
3031 Time Step No. = 4120 Elapsed Time = 9.332128E+04 days
3032 Date: 02/14/07 Time: 10:15:10 CPU Time: 0 0:22:40.33 (1360.33 sec) Binary
3034 Time Step No. = 4140 Elapsed Time = 9.336491E+04 days
3035 Date: 02/14/07 Time: 10:15:18 CPU Time: 0 0:22:47.50 (1367.50 sec) Binary
3037 Time Step No. = 4160 Elapsed Time = 9.361676E+04 days
3038 Date: 02/14/07 Time: 10:15:25 CPU Time: 0 0:22:54.75 (1374.75 sec) Binary
3040 Time Step No. = 4180 Elapsed Time = 9.422795E+04 days
3041 Date: 02/14/07 Time: 10:15:34 CPU Time: 0 0:23: 4.12 (1384.12 sec) Binary
3043 Time Step No. = 4200 Elapsed Time = 9.893912E+04 days
3044 Date: 02/14/07 Time: 10:15:42 CPU Time: 0 0:23:12.17 (1392.17 sec) Binary
3046 Time Step No. = 4220 Elapsed Time = 1.009195E+05 days
3047 Date: 02/14/07 Time: 10:15:56 CPU Time: 0 0:23:26.30 (1406.30 sec) Binary
3049 Time Step No. = 4240 Elapsed Time = 1.009222E+05 days
3050 Date: 02/14/07 Time: 10:16:03 CPU Time: 0 0:23:32.98 (1412.98 sec) Binary
3052 Time Step No. = 4260 Elapsed Time = 1.009250E+05 days
3053 Date: 02/14/07 Time: 10:16:10 CPU Time: 0 0:23:39.31 (1419.31 sec) Binary
3055 Time Step No. = 4280 Elapsed Time = 1.009279E+05 days
3056 Date: 02/14/07 Time: 10:16:16 CPU Time: 0 0:23:45.65 (1425.65 sec) Binary
3058 Time Step No. = 4300 Elapsed Time = 1.009308E+05 days
3059 Date: 02/14/07 Time: 10:16:23 CPU Time: 0 0:23:52.56 (1432.56 sec) Binary
3061 Time Step No. = 4320 Elapsed Time = 1.009339E+05 days
3062 Date: 02/14/07 Time: 10:16:29 CPU Time: 0 0:23:58.88 (1438.88 sec) Binary
3064 Time Step No. = 4340 Elapsed Time = 1.009372E+05 days

3065 Date: 02/14/07 Time: 10:16:36 CPU Time: 0 0:24: 5.23 (1445.23 sec) Binary
3067 Time Step No. = 4360 Elapsed Time = 1.009405E+05 days
3068 Date: 02/14/07 Time: 10:16:43 CPU Time: 0 0:24:12.13 (1452.13 sec) Binary
3070 Time Step No. = 4380 Elapsed Time = 1.009440E+05 days
3071 Date: 02/14/07 Time: 10:16:52 CPU Time: 0 0:24:21.23 (1461.23 sec) Binary
3073 Time Step No. = 4400 Elapsed Time = 1.009468E+05 days
3074 Date: 02/14/07 Time: 10:16:54 CPU Time: 0 0:24:23.19 (1463.19 sec) Binary
3076 Time Step No. = 4420 Elapsed Time = 1.011909E+05 days
3077 Date: 02/14/07 Time: 10:16:58 CPU Time: 0 0:24:27.03 (1467.03 sec) Binary
3079 Time Step No. = 4440 Elapsed Time = 1.024529E+05 days
3080 Date: 02/14/07 Time: 10:17:11 CPU Time: 0 0:24:39.78 (1479.78 sec) Binary
3082 Time Step No. = 4460 Elapsed Time = 1.026770E+05 days
3083 Date: 02/14/07 Time: 10:17:14 CPU Time: 0 0:24:43.55 (1483.55 sec) Binary
3085 Time Step No. = 4480 Elapsed Time = 1.041130E+05 days
3086 Date: 02/14/07 Time: 10:17:28 CPU Time: 0 0:24:56.86 (1496.86 sec) Binary
3088 Time Step No. = 4500 Elapsed Time = 1.041673E+05 days
3089 Date: 02/14/07 Time: 10:17:33 CPU Time: 0 0:25: 1.82 (1501.82 sec) Binary
3091 Time Step No. = 4520 Elapsed Time = 1.049488E+05 days
3092 Date: 02/14/07 Time: 10:17:42 CPU Time: 0 0:25:11.13 (1511.13 sec) Binary
3094 Time Step No. = 4540 Elapsed Time = 1.066226E+05 days
3095 Date: 02/14/07 Time: 10:17:52 CPU Time: 0 0:25:21.22 (1521.22 sec) Binary
3097 Time Step No. = 4560 Elapsed Time = 1.087496E+05 days
3098 Date: 02/14/07 Time: 10:18:01 CPU Time: 0 0:25:29.93 (1529.93 sec) Binary
3100 Time Step No. = 4580 Elapsed Time = 1.143056E+05 days
3101 Date: 02/14/07 Time: 10:18:06 CPU Time: 0 0:25:35.01 (1535.01 sec) Binary
3103 Time Step No. = 4600 Elapsed Time = 1.395547E+05 days
3104 Date: 02/14/07 Time: 10:18:15 CPU Time: 0 0:25:43.98 (1543.98 sec) Binary
3106 Time Step No. = 4620 Elapsed Time = 1.524241E+05 days
3107 Date: 02/14/07 Time: 10:18:26 CPU Time: 0 0:25:54.92 (1554.92 sec) Binary
3109 Time Step No. = 4640 Elapsed Time = 1.553196E+05 days
3110 Date: 02/14/07 Time: 10:18:35 CPU Time: 0 0:26: 4.08 (1564.08 sec) Binary
3112 Time Step No. = 4660 Elapsed Time = 1.591320E+05 days
3113 Date: 02/14/07 Time: 10:18:44 CPU Time: 0 0:26:12.77 (1572.77 sec) Binary
3115 Time Step No. = 4680 Elapsed Time = 1.721310E+05 days
3116 Date: 02/14/07 Time: 10:18:53 CPU Time: 0 0:26:22.15 (1582.15 sec) Binary
3118 Time Step No. = 4700 Elapsed Time = 1.944112E+05 days
3119 Date: 02/14/07 Time: 10:19:02 CPU Time: 0 0:26:30.77 (1590.77 sec) Binary
3121 Time Step No. = 4720 Elapsed Time = 1.986996E+05 days
3122 Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0:26:40.02 (1600.02 sec) Binary
3124 Time Step No. = 4740 Elapsed Time = 2.057306E+05 days
3125 Date: 02/14/07 Time: 10:19:19 CPU Time: 0 0:26:47.82 (1607.82 sec) Binary
3127 Time Step No. = 4760 Elapsed Time = 2.132912E+05 days
3128 Date: 02/14/07 Time: 10:19:26 CPU Time: 0 0:26:55.61 (1615.61 sec) Binary
3130 Time Step No. = 4780 Elapsed Time = 2.193162E+05 days
3131 Date: 02/14/07 Time: 10:19:35 CPU Time: 0 0:27: 4.02 (1624.02 sec) Binary
3133 Time Step No. = 4800 Elapsed Time = 2.226687E+05 days
3134 Date: 02/14/07 Time: 10:19:45 CPU Time: 0 0:27:13.81 (1633.81 sec) Binary
3136 Time Step No. = 4820 Elapsed Time = 2.259834E+05 days
3137 Date: 02/14/07 Time: 10:19:52 CPU Time: 0 0:27:20.63 (1640.63 sec) Binary
3139 Time Step No. = 4840 Elapsed Time = 2.712249E+05 days
3140 Date: 02/14/07 Time: 10:19:58 CPU Time: 0 0:27:26.68 (1646.68 sec) Binary
3142 Time Step No. = 4860 Elapsed Time = 3.652431E+05 days
3143 Date: 02/14/07 Time: 10:20:06 CPU Time: 0 0:27:34.69 (1654.69 sec) Binary
3145 Time Step No. = 4880 Elapsed Time = 3.652444E+05 days
3146 Date: 02/14/07 Time: 10:20:08 CPU Time: 0 0:27:37.49 (1657.49 sec) Binary
3148 Time Step No. = 4900 Elapsed Time = 3.653026E+05 days
3149 Date: 02/14/07 Time: 10:20:12 CPU Time: 0 0:27:40.63 (1660.63 sec) Binary
3151 Time Step No. = 4920 Elapsed Time = 3.655257E+05 days
3152 Date: 02/14/07 Time: 10:20:18 CPU Time: 0 0:27:47.05 (1667.05 sec) Binary
3154 Time Step No. = 4940 Elapsed Time = 3.664875E+05 days
3155 Date: 02/14/07 Time: 10:20:25 CPU Time: 0 0:27:54.29 (1674.29 sec) Binary
3157 Time Step No. = 4960 Elapsed Time = 3.665925E+05 days
3158 Date: 02/14/07 Time: 10:20:27 CPU Time: 0 0:27:55.94 (1675.94 sec) Binary
3160 Time Step No. = 4980 Elapsed Time = 3.668305E+05 days
3161 Date: 02/14/07 Time: 10:20:30 CPU Time: 0 0:27:59.13 (1679.13 sec) Binary
3163 Time Step No. = 5000 Elapsed Time = 3.681194E+05 days
3164 Date: 02/14/07 Time: 10:20:38 CPU Time: 0 0:28: 6.47 (1686.47 sec) Binary
3166 Time Step No. = 5020 Elapsed Time = 3.709195E+05 days
3167 Date: 02/14/07 Time: 10:20:44 CPU Time: 0 0:28:13.19 (1693.19 sec) Binary
3169 Time Step No. = 5040 Elapsed Time = 4.282789E+05 days
3170 Date: 02/14/07 Time: 10:20:52 CPU Time: 0 0:28:20.55 (1700.55 sec) Binary
3172 Time Step No. = 5060 Elapsed Time = 4.653183E+05 days
3173 Date: 02/14/07 Time: 10:21:00 CPU Time: 0 0:28:28.25 (1708.25 sec) Binary
3175 Time Step No. = 5080 Elapsed Time = 4.900809E+05 days
3176 Date: 02/14/07 Time: 10:21:06 CPU Time: 0 0:28:35.17 (1715.17 sec) Binary
3178 Time Step No. = 5100 Elapsed Time = 5.157774E+05 days

3179 Date: 02/14/07 Time: 10:21:12 CPU Time: 0 0:28:41.18 (1721.18 sec) Binary
3181 Time Step No. = 5120 Elapsed Time = 5.494751E+05 days
3182 Date: 02/14/07 Time: 10:21:19 CPU Time: 0 0:28:47.85 (1727.85 sec) Binary
3184 Time Step No. = 5140 Elapsed Time = 5.579649E+05 days
3185 Date: 02/14/07 Time: 10:21:29 CPU Time: 0 0:28:58.11 (1738.11 sec) Binary
3187 Time Step No. = 5160 Elapsed Time = 5.584439E+05 days
3188 Date: 02/14/07 Time: 10:21:33 CPU Time: 0 0:29: 1.74 (1741.74 sec) Binary
3190 Time Step No. = 5180 Elapsed Time = 5.690395E+05 days
3191 Date: 02/14/07 Time: 10:21:39 CPU Time: 0 0:29: 7.97 (1747.97 sec) Binary
3193 Time Step No. = 5200 Elapsed Time = 5.825788E+05 days
3194 Date: 02/14/07 Time: 10:21:48 CPU Time: 0 0:29:17.13 (1757.13 sec) Binary
3196 Time Step No. = 5220 Elapsed Time = 5.945658E+05 days
3197 Date: 02/14/07 Time: 10:21:55 CPU Time: 0 0:29:23.17 (1763.17 sec) Binary
3199 Time Step No. = 5240 Elapsed Time = 6.257360E+05 days
3200 Date: 02/14/07 Time: 10:22:01 CPU Time: 0 0:29:29.47 (1769.47 sec) Binary
3202 Time Step No. = 5260 Elapsed Time = 6.705437E+05 days
3203 Date: 02/14/07 Time: 10:22:10 CPU Time: 0 0:29:38.51 (1778.51 sec) Binary
3205 Time Step No. = 5280 Elapsed Time = 7.337650E+05 days
3206 Date: 02/14/07 Time: 10:22:19 CPU Time: 0 0:29:47.88 (1787.88 sec) Binary
3208 Time Step No. = 5300 Elapsed Time = 7.882779E+05 days
3209 Date: 02/14/07 Time: 10:22:28 CPU Time: 0 0:29:56.92 (1796.92 sec) Binary
3211 Time Step No. = 5320 Elapsed Time = 9.160867E+05 days
3212 Date: 02/14/07 Time: 10:22:38 CPU Time: 0 0:30: 6.98 (1806.98 sec) Binary
3214 Time Step No. = 5340 Elapsed Time = 9.335625E+05 days
3215 Date: 02/14/07 Time: 10:22:48 CPU Time: 0 0:30:16.46 (1816.46 sec) Binary
3217 Time Step No. = 5360 Elapsed Time = 9.974253E+05 days
3218 Date: 02/14/07 Time: 10:22:57 CPU Time: 0 0:30:25.13 (1825.13 sec) Binary
3220 Time Step No. = 5380 Elapsed Time = 1.042229E+06 days
3221 Date: 02/14/07 Time: 10:23:03 CPU Time: 0 0:30:31.16 (1831.16 sec) Binary
3223 Time Step No. = 5400 Elapsed Time = 1.260820E+06 days
3224 Date: 02/14/07 Time: 10:23:11 CPU Time: 0 0:30:39.28 (1839.28 sec) Binary
3226 Time Step No. = 5420 Elapsed Time = 1.334337E+06 days
3227 Date: 02/14/07 Time: 10:23:19 CPU Time: 0 0:30:47.75 (1847.75 sec) Binary
3229 Time Step No. = 5440 Elapsed Time = 1.345331E+06 days
3230 Date: 02/14/07 Time: 10:23:24 CPU Time: 0 0:30:52.06 (1852.06 sec) Binary
3232 Time Step No. = 5460 Elapsed Time = 1.427559E+06 days
3233 Date: 02/14/07 Time: 10:23:34 CPU Time: 0 0:31: 2.34 (1862.34 sec) Binary
3235 Time Step No. = 5480 Elapsed Time = 1.441381E+06 days
3236 Date: 02/14/07 Time: 10:23:41 CPU Time: 0 0:31: 9.28 (1869.28 sec) Binary
3238 Time Step No. = 5500 Elapsed Time = 1.579545E+06 days
3239 Date: 02/14/07 Time: 10:23:49 CPU Time: 0 0:31:17.25 (1877.25 sec) Binary
3241 Time Step No. = 5520 Elapsed Time = 1.722127E+06 days
3242 Date: 02/14/07 Time: 10:23:58 CPU Time: 0 0:31:26.76 (1886.76 sec) Binary
3244 Time Step No. = 5540 Elapsed Time = 1.729742E+06 days
3245 Date: 02/14/07 Time: 10:24:02 CPU Time: 0 0:31:30.25 (1890.25 sec) Binary
3247 Time Step No. = 5560 Elapsed Time = 1.756478E+06 days
3248 Date: 02/14/07 Time: 10:24:09 CPU Time: 0 0:31:37.26 (1897.26 sec) Binary
3250 Time Step No. = 5580 Elapsed Time = 1.769620E+06 days
3251 Date: 02/14/07 Time: 10:24:17 CPU Time: 0 0:31:45.78 (1905.78 sec) Binary
3253 Time Step No. = 5600 Elapsed Time = 1.839288E+06 days
3254 Date: 02/14/07 Time: 10:24:25 CPU Time: 0 0:31:53.40 (1913.40 sec) Binary
3256 Time Step No. = 5620 Elapsed Time = 2.169142E+06 days
3257 Date: 02/14/07 Time: 10:24:33 CPU Time: 0 0:32: 1.39 (1921.39 sec) Binary
3259 Time Step No. = 5640 Elapsed Time = 2.272625E+06 days
3260 Date: 02/14/07 Time: 10:24:39 CPU Time: 0 0:32: 6.85 (1926.85 sec) Binary
3262 Time Step No. = 5660 Elapsed Time = 2.337198E+06 days
3263 Date: 02/14/07 Time: 10:24:46 CPU Time: 0 0:32:14.32 (1934.32 sec) Binary
3265 Time Step No. = 5680 Elapsed Time = 2.341430E+06 days
3266 Date: 02/14/07 Time: 10:24:54 CPU Time: 0 0:32:21.87 (1941.87 sec) Binary
3268 Time Step No. = 5700 Elapsed Time = 2.377641E+06 days
3269 Date: 02/14/07 Time: 10:24:59 CPU Time: 0 0:32:27.06 (1947.06 sec) Binary
3271 Time Step No. = 5720 Elapsed Time = 2.750209E+06 days
3272 Date: 02/14/07 Time: 10:25:05 CPU Time: 0 0:32:33.63 (1953.63 sec) Binary
3274 Time Step No. = 5740 Elapsed Time = 2.753701E+06 days
3275 Date: 02/14/07 Time: 10:25:14 CPU Time: 0 0:32:41.92 (1961.92 sec) Binary
3277 Time Step No. = 5760 Elapsed Time = 2.765715E+06 days
3278 Date: 02/14/07 Time: 10:25:20 CPU Time: 0 0:32:47.88 (1967.88 sec) Binary
3280 Time Step No. = 5780 Elapsed Time = 2.912561E+06 days
3281 Date: 02/14/07 Time: 10:25:27 CPU Time: 0 0:32:55.64 (1975.64 sec) Binary
3283 Time Step No. = 5800 Elapsed Time = 3.153612E+06 days
3284 Date: 02/14/07 Time: 10:25:36 CPU Time: 0 0:33: 3.99 (1983.99 sec) Binary
3286 Time Step No. = 5820 Elapsed Time = 3.155082E+06 days
3287 Date: 02/14/07 Time: 10:25:44 CPU Time: 0 0:33:11.82 (1991.82 sec) Binary
3289 Time Step No. = 5840 Elapsed Time = 3.160573E+06 days
3290 Date: 02/14/07 Time: 10:25:48 CPU Time: 0 0:33:16.26 (1996.26 sec) Binary
3292 Time Step No. = 5860 Elapsed Time = 3.171708E+06 days

3293 Date: 02/14/07 Time: 10:25:54 CPU Time: 0 0:33:21.65 (2001.65 sec) Binary
3295 Time Step No. = 5880 Elapsed Time = 3.314482E+06 days
3296 Date: 02/14/07 Time: 10:26:00 CPU Time: 0 0:33:27.88 (2007.88 sec) Binary
3298 Time Step No. = 5900 Elapsed Time = 3.592771E+06 days
3299 Date: 02/14/07 Time: 10:26:06 CPU Time: 0 0:33:34.32 (2014.32 sec) Binary
3302 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
2304 Date: 05/18/06 Time: 10:34:33 CPU Time: 0 0: 0:52.30 (52.30 sec) ASCII
2306 Time Step No. = 266 Elapsed Time = 0.000000E+00 days
2307 Date: 05/18/06 Time: 10:34:33 CPU Time: 0 0: 0:52.30 (52.30 sec) Binary
2309 Time Step No. = 280 Elapsed Time = 1.358585E-02 days
2310 Date: 05/18/06 Time: 10:34:37 CPU Time: 0 0: 0:56.76 (56.76 sec) Binary
2312 Time Step No. = 300 Elapsed Time = 8.176210E-01 days
2313 Date: 05/18/06 Time: 10:34:41 CPU Time: 0 0: 1: 0.39 (60.39 sec) Binary
2315 Time Step No. = 320 Elapsed Time = 2.056227E+01 days
2316 Date: 05/18/06 Time: 10:34:44 CPU Time: 0 0: 1: 3.16 (63.16 sec) Binary
2318 Time Step No. = 340 Elapsed Time = 3.883849E+02 days
2319 Date: 05/18/06 Time: 10:34:47 CPU Time: 0 0: 1: 6.67 (66.67 sec) Binary
2321 Time Step No. = 360 Elapsed Time = 2.773294E+03 days
2322 Date: 05/18/06 Time: 10:34:53 CPU Time: 0 0: 1:11.85 (71.85 sec) Binary
2324 Time Step No. = 380 Elapsed Time = 6.744221E+03 days
2325 Date: 05/18/06 Time: 10:35:04 CPU Time: 0 0: 1:23.20 (83.20 sec) Binary
2327 Time Step No. = 400 Elapsed Time = 6.767595E+03 days
2328 Date: 05/18/06 Time: 10:35:06 CPU Time: 0 0: 1:25.07 (85.07 sec) Binary
2330 Time Step No. = 420 Elapsed Time = 6.921045E+03 days
2331 Date: 05/18/06 Time: 10:35:12 CPU Time: 0 0: 1:31.74 (91.74 sec) Binary
2333 Time Step No. = 440 Elapsed Time = 7.006907E+03 days
2334 Date: 05/18/06 Time: 10:35:15 CPU Time: 0 0: 1:34.10 (94.10 sec) Binary
2336 Time Step No. = 460 Elapsed Time = 7.220026E+03 days
2337 Date: 05/18/06 Time: 10:35:22 CPU Time: 0 0: 1:41.36 (101.36 sec) Binary
2339 Time Step No. = 480 Elapsed Time = 7.377731E+03 days
2340 Date: 05/18/06 Time: 10:35:25 CPU Time: 0 0: 1:44.02 (104.02 sec) Binary
2342 Time Step No. = 500 Elapsed Time = 8.413059E+03 days
2343 Date: 05/18/06 Time: 10:35:31 CPU Time: 0 0: 1:49.92 (109.92 sec) Binary
2345 Time Step No. = 520 Elapsed Time = 8.706621E+03 days
2346 Date: 05/18/06 Time: 10:35:37 CPU Time: 0 0: 1:56.70 (116.70 sec) Binary
2348 Time Step No. = 540 Elapsed Time = 8.731156E+03 days
2349 Date: 05/18/06 Time: 10:35:39 CPU Time: 0 0: 1:58.51 (118.51 sec) Binary
2351 Time Step No. = 560 Elapsed Time = 8.783097E+03 days
2352 Date: 05/18/06 Time: 10:35:45 CPU Time: 0 0: 2: 4.56 (124.56 sec) Binary
2354 Time Step No. = 580 Elapsed Time = 8.873224E+03 days
2355 Date: 05/18/06 Time: 10:35:48 CPU Time: 0 0: 2: 6.85 (126.85 sec) Binary
2357 Time Step No. = 600 Elapsed Time = 8.967808E+03 days
2358 Date: 05/18/06 Time: 10:35:54 CPU Time: 0 0: 2:12.91 (132.91 sec) Binary
2360 Time Step No. = 620 Elapsed Time = 9.629958E+03 days
2361 Date: 05/18/06 Time: 10:35:57 CPU Time: 0 0: 2:15.93 (135.93 sec) Binary
2363 Time Step No. = 640 Elapsed Time = 9.720759E+03 days
2364 Date: 05/18/06 Time: 10:36:04 CPU Time: 0 0: 2:22.62 (142.62 sec) Binary
2366 Time Step No. = 660 Elapsed Time = 9.817097E+03 days
2367 Date: 05/18/06 Time: 10:36:10 CPU Time: 0 0: 2:29.55 (149.55 sec) Binary
2369 Time Step No. = 680 Elapsed Time = 9.829974E+03 days
2370 Date: 05/18/06 Time: 10:36:12 CPU Time: 0 0: 2:31.26 (151.26 sec) Binary
2372 Time Step No. = 700 Elapsed Time = 9.879586E+03 days
2373 Date: 05/18/06 Time: 10:36:18 CPU Time: 0 0: 2:37.12 (157.12 sec) Binary
2375 Time Step No. = 720 Elapsed Time = 9.926888E+03 days
2376 Date: 05/18/06 Time: 10:36:20 CPU Time: 0 0: 2:39.19 (159.19 sec) Binary
2378 Time Step No. = 740 Elapsed Time = 9.955795E+03 days
2379 Date: 05/18/06 Time: 10:36:27 CPU Time: 0 0: 2:45.58 (165.58 sec) Binary
2381 Time Step No. = 760 Elapsed Time = 1.004381E+04 days
2382 Date: 05/18/06 Time: 10:36:34 CPU Time: 0 0: 2:52.63 (172.63 sec) Binary
2384 Time Step No. = 780 Elapsed Time = 1.005117E+04 days
2385 Date: 05/18/06 Time: 10:36:35 CPU Time: 0 0: 2:54.23 (174.23 sec) Binary
2387 Time Step No. = 800 Elapsed Time = 1.011334E+04 days
2388 Date: 05/18/06 Time: 10:36:42 CPU Time: 0 0: 3: 0.51 (180.51 sec) Binary
2390 Time Step No. = 820 Elapsed Time = 1.014038E+04 days
2391 Date: 05/18/06 Time: 10:36:43 CPU Time: 0 0: 3: 2.32 (182.32 sec) Binary
2393 Time Step No. = 840 Elapsed Time = 1.021957E+04 days
2394 Date: 05/18/06 Time: 10:36:50 CPU Time: 0 0: 3: 8.58 (188.58 sec) Binary
2396 Time Step No. = 860 Elapsed Time = 1.041817E+04 days
2397 Date: 05/18/06 Time: 10:36:52 CPU Time: 0 0: 3:11.34 (191.34 sec) Binary
2399 Time Step No. = 880 Elapsed Time = 1.365675E+04 days
2400 Date: 05/18/06 Time: 10:36:57 CPU Time: 0 0: 3:15.91 (195.91 sec) Binary
2402 Time Step No. = 900 Elapsed Time = 1.556649E+04 days
2403 Date: 05/18/06 Time: 10:37:06 CPU Time: 0 0: 3:24.91 (204.91 sec) Binary
2405 Time Step No. = 920 Elapsed Time = 1.562828E+04 days

2406 Date: 05/18/06 Time: 10:37:08 CPU Time: 0 0: 3:27.21 (207.21 sec) Binary
2408 Time Step No. = 940 Elapsed Time = 1.939403E+04 days
2409 Date: 05/18/06 Time: 10:37:13 CPU Time: 0 0: 3:31.80 (211.80 sec) Binary
2411 Time Step No. = 960 Elapsed Time = 2.123309E+04 days
2412 Date: 05/18/06 Time: 10:37:22 CPU Time: 0 0: 3:41.09 (221.09 sec) Binary
2414 Time Step No. = 980 Elapsed Time = 2.131000E+04 days
2415 Date: 05/18/06 Time: 10:37:25 CPU Time: 0 0: 3:43.59 (223.59 sec) Binary
2417 Time Step No. = 1000 Elapsed Time = 2.294013E+04 days
2418 Date: 05/18/06 Time: 10:37:35 CPU Time: 0 0: 3:53.58 (233.58 sec) Binary
2420 Time Step No. = 1020 Elapsed Time = 2.294896E+04 days
2421 Date: 05/18/06 Time: 10:37:37 CPU Time: 0 0: 3:55.24 (235.24 sec) Binary
2423 Time Step No. = 1040 Elapsed Time = 2.371476E+04 days
2424 Date: 05/18/06 Time: 10:37:40 CPU Time: 0 0: 3:58.49 (238.49 sec) Binary
2426 Time Step No. = 1060 Elapsed Time = 2.412100E+04 days
2427 Date: 05/18/06 Time: 10:37:49 CPU Time: 0 0: 4: 7.49 (247.49 sec) Binary
2429 Time Step No. = 1080 Elapsed Time = 2.417691E+04 days
2430 Date: 05/18/06 Time: 10:37:56 CPU Time: 0 0: 4:14.49 (254.49 sec) Binary
2432 Time Step No. = 1100 Elapsed Time = 2.418063E+04 days
2433 Date: 05/18/06 Time: 10:37:57 CPU Time: 0 0: 4:15.94 (255.94 sec) Binary
2435 Time Step No. = 1120 Elapsed Time = 2.450356E+04 days
2436 Date: 05/18/06 Time: 10:38:00 CPU Time: 0 0: 4:18.81 (258.81 sec) Binary
2438 Time Step No. = 1140 Elapsed Time = 2.827711E+04 days
2439 Date: 05/18/06 Time: 10:38:07 CPU Time: 0 0: 4:25.87 (265.87 sec) Binary
2441 Time Step No. = 1160 Elapsed Time = 2.828638E+04 days
2442 Date: 05/18/06 Time: 10:38:14 CPU Time: 0 0: 4:32.29 (272.29 sec) Binary
2444 Time Step No. = 1180 Elapsed Time = 2.909021E+04 days
2445 Date: 05/18/06 Time: 10:38:17 CPU Time: 0 0: 4:35.87 (275.87 sec) Binary
2447 Time Step No. = 1200 Elapsed Time = 3.111835E+04 days
2448 Date: 05/18/06 Time: 10:38:28 CPU Time: 0 0: 4:46.43 (286.43 sec) Binary
2450 Time Step No. = 1220 Elapsed Time = 3.116449E+04 days
2451 Date: 05/18/06 Time: 10:38:30 CPU Time: 0 0: 4:48.99 (288.99 sec) Binary
2453 Time Step No. = 1240 Elapsed Time = 3.417846E+04 days
2454 Date: 05/18/06 Time: 10:38:35 CPU Time: 0 0: 4:53.55 (293.55 sec) Binary
2456 Time Step No. = 1260 Elapsed Time = 3.574682E+04 days
2457 Date: 05/18/06 Time: 10:38:45 CPU Time: 0 0: 5: 4.01 (304.01 sec) Binary
2459 Time Step No. = 1280 Elapsed Time = 3.586166E+04 days
2460 Date: 05/18/06 Time: 10:38:48 CPU Time: 0 0: 5: 6.89 (306.89 sec) Binary
2462 Time Step No. = 1300 Elapsed Time = 3.593185E+04 days
2463 Date: 05/18/06 Time: 10:38:55 CPU Time: 0 0: 5:13.59 (313.59 sec) Binary
2465 Time Step No. = 1320 Elapsed Time = 3.595645E+04 days
2466 Date: 05/18/06 Time: 10:39:02 CPU Time: 0 0: 5:20.53 (320.53 sec) Binary
2468 Time Step No. = 1340 Elapsed Time = 3.597432E+04 days
2469 Date: 05/18/06 Time: 10:39:04 CPU Time: 0 0: 5:22.63 (322.63 sec) Binary
2471 Time Step No. = 1360 Elapsed Time = 3.641887E+04 days
2472 Date: 05/18/06 Time: 10:39:12 CPU Time: 0 0: 5:30.46 (330.46 sec) Binary
2474 Time Step No. = 1380 Elapsed Time = 3.645168E+04 days
2475 Date: 05/18/06 Time: 10:39:14 CPU Time: 0 0: 5:32.92 (332.92 sec) Binary
2477 Time Step No. = 1400 Elapsed Time = 3.652004E+04 days
2478 Date: 05/18/06 Time: 10:39:21 CPU Time: 0 0: 5:39.82 (339.82 sec) Binary
2480 Time Step No. = 1420 Elapsed Time = 3.652431E+04 days
2481 Date: 05/18/06 Time: 10:39:29 CPU Time: 0 0: 5:47.32 (347.32 sec) Binary
2483 Time Step No. = 1440 Elapsed Time = 3.652431E+04 days
2484 Date: 05/18/06 Time: 10:39:31 CPU Time: 0 0: 5:49.76 (349.76 sec) Binary
2486 Time Step No. = 1460 Elapsed Time = 3.652431E+04 days
2487 Date: 05/18/06 Time: 10:39:34 CPU Time: 0 0: 5:52.22 (352.22 sec) Binary
2489 Time Step No. = 1480 Elapsed Time = 3.652431E+04 days
2490 Date: 05/18/06 Time: 10:39:37 CPU Time: 0 0: 5:54.97 (354.97 sec) Binary
2492 Time Step No. = 1500 Elapsed Time = 3.652442E+04 days
2493 Date: 05/18/06 Time: 10:39:39 CPU Time: 0 0: 5:57.80 (357.80 sec) Binary
2495 Time Step No. = 1520 Elapsed Time = 3.653418E+04 days
2496 Date: 05/18/06 Time: 10:39:42 CPU Time: 0 0: 6: 0.72 (360.72 sec) Binary
2498 Time Step No. = 1540 Elapsed Time = 3.666627E+04 days
2499 Date: 05/18/06 Time: 10:39:45 CPU Time: 0 0: 6: 3.28 (363.28 sec) Binary
2501 Time Step No. = 1560 Elapsed Time = 3.668671E+04 days
2502 Date: 05/18/06 Time: 10:39:47 CPU Time: 0 0: 6: 5.38 (365.38 sec) Binary
2504 Time Step No. = 1580 Elapsed Time = 3.670728E+04 days
2505 Date: 05/18/06 Time: 10:39:53 CPU Time: 0 0: 6:11.74 (371.74 sec) Binary
2507 Time Step No. = 1600 Elapsed Time = 3.678237E+04 days
2508 Date: 05/18/06 Time: 10:39:56 CPU Time: 0 0: 6:14.53 (374.53 sec) Binary
2510 Time Step No. = 1620 Elapsed Time = 3.716779E+04 days
2511 Date: 05/18/06 Time: 10:40:05 CPU Time: 0 0: 6:23.24 (383.24 sec) Binary
2513 Time Step No. = 1640 Elapsed Time = 3.718347E+04 days
2514 Date: 05/18/06 Time: 10:40:07 CPU Time: 0 0: 6:25.33 (385.33 sec) Binary
2516 Time Step No. = 1660 Elapsed Time = 3.724390E+04 days
2517 Date: 05/18/06 Time: 10:40:14 CPU Time: 0 0: 6:32.55 (392.55 sec) Binary
2519 Time Step No. = 1680 Elapsed Time = 3.730151E+04 days

2520	Date: 05/18/06	Time: 10:40:17	CPU Time: 0 0: 6:35.38 (395.38 sec)	Binary
2522	Time Step No. = 1700	Elapsed Time = 3.752349E+04 days		
2523	Date: 05/18/06	Time: 10:40:24	CPU Time: 0 0: 6:42.54 (402.54 sec)	Binary
2525	Time Step No. = 1720	Elapsed Time = 3.773513E+04 days		
2526	Date: 05/18/06	Time: 10:40:27	CPU Time: 0 0: 6:45.62 (405.62 sec)	Binary
2528	Time Step No. = 1740	Elapsed Time = 3.794042E+04 days		
2529	Date: 05/18/06	Time: 10:40:34	CPU Time: 0 0: 6:52.68 (412.68 sec)	Binary
2531	Time Step No. = 1760	Elapsed Time = 3.803760E+04 days		
2532	Date: 05/18/06	Time: 10:40:37	CPU Time: 0 0: 6:55.33 (415.33 sec)	Binary
2534	Time Step No. = 1780	Elapsed Time = 3.956208E+04 days		
2535	Date: 05/18/06	Time: 10:40:44	CPU Time: 0 0: 7: 2.52 (422.52 sec)	Binary
2537	Time Step No. = 1800	Elapsed Time = 4.088771E+04 days		
2538	Date: 05/18/06	Time: 10:40:56	CPU Time: 0 0: 7:14.06 (434.06 sec)	Binary
2540	Time Step No. = 1820	Elapsed Time = 4.089527E+04 days		
2541	Date: 05/18/06	Time: 10:40:58	CPU Time: 0 0: 7:15.79 (435.79 sec)	Binary
2543	Time Step No. = 1840	Elapsed Time = 4.155094E+04 days		
2544	Date: 05/18/06	Time: 10:41:01	CPU Time: 0 0: 7:19.04 (439.04 sec)	Binary
2546	Time Step No. = 1860	Elapsed Time = 4.294061E+04 days		
2547	Date: 05/18/06	Time: 10:41:10	CPU Time: 0 0: 7:27.88 (447.88 sec)	Binary
2549	Time Step No. = 1880	Elapsed Time = 4.301587E+04 days		
2550	Date: 05/18/06	Time: 10:41:12	CPU Time: 0 0: 7:30.50 (450.50 sec)	Binary
2552	Time Step No. = 1900	Elapsed Time = 4.760255E+04 days		
2553	Date: 05/18/06	Time: 10:41:17	CPU Time: 0 0: 7:35.27 (455.27 sec)	Binary
2555	Time Step No. = 1920	Elapsed Time = 4.987005E+04 days		
2556	Date: 05/18/06	Time: 10:41:27	CPU Time: 0 0: 7:44.99 (464.99 sec)	Binary
2558	Time Step No. = 1940	Elapsed Time = 4.996373E+04 days		
2559	Date: 05/18/06	Time: 10:41:30	CPU Time: 0 0: 7:47.66 (467.66 sec)	Binary
2561	Time Step No. = 1960	Elapsed Time = 5.010423E+04 days		
2562	Date: 05/18/06	Time: 10:41:36	CPU Time: 0 0: 7:54.02 (474.02 sec)	Binary
2564	Time Step No. = 1980	Elapsed Time = 5.037876E+04 days		
2565	Date: 05/18/06	Time: 10:41:43	CPU Time: 0 0: 8: 0.90 (480.90 sec)	Binary
2567	Time Step No. = 2000	Elapsed Time = 5.039333E+04 days		
2568	Date: 05/18/06	Time: 10:41:45	CPU Time: 0 0: 8: 2.78 (482.78 sec)	Binary
2570	Time Step No. = 2020	Elapsed Time = 5.152954E+04 days		
2571	Date: 05/18/06	Time: 10:41:49	CPU Time: 0 0: 8: 6.74 (486.74 sec)	Binary
2573	Time Step No. = 2040	Elapsed Time = 5.170355E+04 days		
2574	Date: 05/18/06	Time: 10:41:57	CPU Time: 0 0: 8:14.73 (494.73 sec)	Binary
2576	Time Step No. = 2060	Elapsed Time = 5.179583E+04 days		
2577	Date: 05/18/06	Time: 10:42:04	CPU Time: 0 0: 8:22.18 (502.18 sec)	Binary
2579	Time Step No. = 2080	Elapsed Time = 5.180198E+04 days		
2580	Date: 05/18/06	Time: 10:42:06	CPU Time: 0 0: 8:23.99 (503.99 sec)	Binary
2582	Time Step No. = 2100	Elapsed Time = 5.184257E+04 days		
2583	Date: 05/18/06	Time: 10:42:12	CPU Time: 0 0: 8:29.85 (509.85 sec)	Binary
2585	Time Step No. = 2120	Elapsed Time = 5.188772E+04 days		
2586	Date: 05/18/06	Time: 10:42:14	CPU Time: 0 0: 8:32.26 (512.26 sec)	Binary
2588	Time Step No. = 2140	Elapsed Time = 5.191531E+04 days		
2589	Date: 05/18/06	Time: 10:42:21	CPU Time: 0 0: 8:38.82 (518.82 sec)	Binary
2591	Time Step No. = 2160	Elapsed Time = 5.208117E+04 days		
2592	Date: 05/18/06	Time: 10:42:24	CPU Time: 0 0: 8:41.60 (521.60 sec)	Binary
2594	Time Step No. = 2180	Elapsed Time = 5.738239E+04 days		
2595	Date: 05/18/06	Time: 10:42:29	CPU Time: 0 0: 8:46.98 (526.98 sec)	Binary
2597	Time Step No. = 2200	Elapsed Time = 5.874693E+04 days		
2598	Date: 05/18/06	Time: 10:42:40	CPU Time: 0 0: 8:58.03 (538.03 sec)	Binary
2600	Time Step No. = 2220	Elapsed Time = 5.877274E+04 days		
2601	Date: 05/18/06	Time: 10:42:42	CPU Time: 0 0: 9: 0.35 (540.35 sec)	Binary
2603	Time Step No. = 2240	Elapsed Time = 6.101085E+04 days		
2604	Date: 05/18/06	Time: 10:42:46	CPU Time: 0 0: 9: 4.34 (544.34 sec)	Binary
2606	Time Step No. = 2260	Elapsed Time = 6.281765E+04 days		
2607	Date: 05/18/06	Time: 10:42:57	CPU Time: 0 0: 9:14.69 (554.69 sec)	Binary
2609	Time Step No. = 2280	Elapsed Time = 6.294611E+04 days		
2610	Date: 05/18/06	Time: 10:43:00	CPU Time: 0 0: 9:17.65 (557.65 sec)	Binary
2612	Time Step No. = 2300	Elapsed Time = 6.313878E+04 days		
2613	Date: 05/18/06	Time: 10:43:06	CPU Time: 0 0: 9:24.09 (564.09 sec)	Binary
2615	Time Step No. = 2320	Elapsed Time = 6.361068E+04 days		
2616	Date: 05/18/06	Time: 10:43:10	CPU Time: 0 0: 9:27.45 (567.45 sec)	Binary
2618	Time Step No. = 2340	Elapsed Time = 6.737769E+04 days		
2619	Date: 05/18/06	Time: 10:43:22	CPU Time: 0 0: 9:39.36 (579.36 sec)	Binary
2621	Time Step No. = 2360	Elapsed Time = 6.740478E+04 days		
2622	Date: 05/18/06	Time: 10:43:24	CPU Time: 0 0: 9:41.52 (581.52 sec)	Binary
2624	Time Step No. = 2380	Elapsed Time = 6.741391E+04 days		
2625	Date: 05/18/06	Time: 10:43:29	CPU Time: 0 0: 9:47.27 (587.27 sec)	Binary
2627	Time Step No. = 2400	Elapsed Time = 6.761291E+04 days		
2628	Date: 05/18/06	Time: 10:43:32	CPU Time: 0 0: 9:50.11 (590.11 sec)	Binary
2630	Time Step No. = 2420	Elapsed Time = 6.773452E+04 days		
2631	Date: 05/18/06	Time: 10:43:39	CPU Time: 0 0: 9:56.70 (596.70 sec)	Binary
2633	Time Step No. = 2440	Elapsed Time = 6.776699E+04 days		

2634 Date: 05/18/06 Time: 10:43:45 CPU Time: 0 0:10: 3.13 (603.13 sec) Binary
2636 Time Step No. = 2460 Elapsed Time = 6.779795E+04 days
2637 Date: 05/18/06 Time: 10:43:48 CPU Time: 0 0:10: 5.37 (605.37 sec) Binary
2639 Time Step No. = 2480 Elapsed Time = 7.048314E+04 days
2640 Date: 05/18/06 Time: 10:43:51 CPU Time: 0 0:10: 9.09 (609.09 sec) Binary
2642 Time Step No. = 2500 Elapsed Time = 8.118433E+04 days
2643 Date: 05/18/06 Time: 10:43:59 CPU Time: 0 0:10:16.60 (616.60 sec) Binary
2645 Time Step No. = 2520 Elapsed Time = 8.428954E+04 days
2646 Date: 05/18/06 Time: 10:44:09 CPU Time: 0 0:10:26.45 (626.45 sec) Binary
2648 Time Step No. = 2540 Elapsed Time = 8.439398E+04 days
2649 Date: 05/18/06 Time: 10:44:12 CPU Time: 0 0:10:29.35 (629.35 sec) Binary
2651 Time Step No. = 2560 Elapsed Time = 8.992246E+04 days
2652 Date: 05/18/06 Time: 10:44:17 CPU Time: 0 0:10:34.63 (634.63 sec) Binary
2654 Time Step No. = 2580 Elapsed Time = 9.139559E+04 days
2655 Date: 05/18/06 Time: 10:44:26 CPU Time: 0 0:10:44.20 (644.20 sec) Binary
2657 Time Step No. = 2600 Elapsed Time = 9.153888E+04 days
2658 Date: 05/18/06 Time: 10:44:32 CPU Time: 0 0:10:49.99 (649.99 sec) Binary
2660 Time Step No. = 2620 Elapsed Time = 9.175238E+04 days
2661 Date: 05/18/06 Time: 10:44:38 CPU Time: 0 0:10:55.92 (655.92 sec) Binary
2663 Time Step No. = 2640 Elapsed Time = 9.184598E+04 days
2664 Date: 05/18/06 Time: 10:44:45 CPU Time: 0 0:11: 2.24 (662.24 sec) Binary
2666 Time Step No. = 2660 Elapsed Time = 9.190019E+04 days
2667 Date: 05/18/06 Time: 10:44:53 CPU Time: 0 0:11:10.14 (670.14 sec) Binary
2669 Time Step No. = 2680 Elapsed Time = 9.194215E+04 days
2670 Date: 05/18/06 Time: 10:44:58 CPU Time: 0 0:11:15.53 (675.53 sec) Binary
2672 Time Step No. = 2700 Elapsed Time = 9.204832E+04 days
2673 Date: 05/18/06 Time: 10:45:04 CPU Time: 0 0:11:21.96 (681.96 sec) Binary
2675 Time Step No. = 2720 Elapsed Time = 9.208378E+04 days
2676 Date: 05/18/06 Time: 10:45:12 CPU Time: 0 0:11:30.03 (690.03 sec) Binary
2678 Time Step No. = 2740 Elapsed Time = 9.211140E+04 days
2679 Date: 05/18/06 Time: 10:45:20 CPU Time: 0 0:11:37.64 (697.64 sec) Binary
2681 Time Step No. = 2760 Elapsed Time = 9.214645E+04 days
2682 Date: 05/18/06 Time: 10:45:29 CPU Time: 0 0:11:46.41 (706.41 sec) Binary
2684 Time Step No. = 2780 Elapsed Time = 9.216828E+04 days
2685 Date: 05/18/06 Time: 10:45:37 CPU Time: 0 0:11:54.49 (714.49 sec) Binary
2687 Time Step No. = 2800 Elapsed Time = 9.218932E+04 days
2688 Date: 05/18/06 Time: 10:45:44 CPU Time: 0 0:12: 1.87 (721.87 sec) Binary
2690 Time Step No. = 2820 Elapsed Time = 9.220924E+04 days
2691 Date: 05/18/06 Time: 10:45:53 CPU Time: 0 0:12:10.04 (730.04 sec) Binary
2693 Time Step No. = 2840 Elapsed Time = 9.222973E+04 days
2694 Date: 05/18/06 Time: 10:46:01 CPU Time: 0 0:12:18.19 (738.19 sec) Binary
2696 Time Step No. = 2860 Elapsed Time = 9.225032E+04 days
2697 Date: 05/18/06 Time: 10:46:08 CPU Time: 0 0:12:25.89 (745.89 sec) Binary
2699 Time Step No. = 2880 Elapsed Time = 9.227070E+04 days
2700 Date: 05/18/06 Time: 10:46:18 CPU Time: 0 0:12:35.41 (755.41 sec) Binary
2702 Time Step No. = 2900 Elapsed Time = 9.229232E+04 days
2703 Date: 05/18/06 Time: 10:46:27 CPU Time: 0 0:12:44.45 (764.45 sec) Binary
2705 Time Step No. = 2920 Elapsed Time = 9.231037E+04 days
2706 Date: 05/18/06 Time: 10:46:35 CPU Time: 0 0:12:52.14 (772.14 sec) Binary
2708 Time Step No. = 2940 Elapsed Time = 9.232895E+04 days
2709 Date: 05/18/06 Time: 10:46:42 CPU Time: 0 0:12:59.38 (779.38 sec) Binary
2711 Time Step No. = 2960 Elapsed Time = 9.234552E+04 days
2712 Date: 05/18/06 Time: 10:46:49 CPU Time: 0 0:13: 5.90 (785.90 sec) Binary
2714 Time Step No. = 2980 Elapsed Time = 9.236376E+04 days
2715 Date: 05/18/06 Time: 10:46:55 CPU Time: 0 0:13:12.66 (792.66 sec) Binary
2717 Time Step No. = 3000 Elapsed Time = 9.238011E+04 days
2718 Date: 05/18/06 Time: 10:47:02 CPU Time: 0 0:13:19.07 (799.07 sec) Binary
2720 Time Step No. = 3020 Elapsed Time = 9.239686E+04 days
2721 Date: 05/18/06 Time: 10:47:08 CPU Time: 0 0:13:25.00 (805.00 sec) Binary
2723 Time Step No. = 3040 Elapsed Time = 9.241242E+04 days
2724 Date: 05/18/06 Time: 10:47:14 CPU Time: 0 0:13:31.43 (811.43 sec) Binary
2726 Time Step No. = 3060 Elapsed Time = 9.242781E+04 days
2727 Date: 05/18/06 Time: 10:47:20 CPU Time: 0 0:13:37.37 (817.37 sec) Binary
2729 Time Step No. = 3080 Elapsed Time = 9.244312E+04 days
2730 Date: 05/18/06 Time: 10:47:26 CPU Time: 0 0:13:43.45 (823.45 sec) Binary
2732 Time Step No. = 3100 Elapsed Time = 9.245725E+04 days
2733 Date: 05/18/06 Time: 10:47:32 CPU Time: 0 0:13:49.02 (829.02 sec) Binary
2735 Time Step No. = 3120 Elapsed Time = 9.247181E+04 days
2736 Date: 05/18/06 Time: 10:47:38 CPU Time: 0 0:13:54.81 (834.81 sec) Binary
2738 Time Step No. = 3140 Elapsed Time = 9.248478E+04 days
2739 Date: 05/18/06 Time: 10:47:43 CPU Time: 0 0:13:59.81 (839.81 sec) Binary
2741 Time Step No. = 3160 Elapsed Time = 9.249861E+04 days
2742 Date: 05/18/06 Time: 10:47:48 CPU Time: 0 0:14: 5.36 (845.36 sec) Binary
2744 Time Step No. = 3180 Elapsed Time = 9.251140E+04 days
2745 Date: 05/18/06 Time: 10:47:53 CPU Time: 0 0:14:10.27 (850.27 sec) Binary
2747 Time Step No. = 3200 Elapsed Time = 9.252410E+04 days

2748 Date: 05/18/06 Time: 10:47:58 CPU Time: 0 0:14:15.52 (855.52 sec) Binary
2750 Time Step No. = 3220 Elapsed Time = 9.253757E+04 days
2751 Date: 05/18/06 Time: 10:48:03 CPU Time: 0 0:14:20.31 (860.31 sec) Binary
2753 Time Step No. = 3240 Elapsed Time = 9.255098E+04 days
2754 Date: 05/18/06 Time: 10:48:08 CPU Time: 0 0:14:25.11 (865.11 sec) Binary
2756 Time Step No. = 3260 Elapsed Time = 9.256381E+04 days
2757 Date: 05/18/06 Time: 10:48:13 CPU Time: 0 0:14:30.33 (870.33 sec) Binary
2759 Time Step No. = 3280 Elapsed Time = 9.257743E+04 days
2760 Date: 05/18/06 Time: 10:48:18 CPU Time: 0 0:14:35.17 (875.17 sec) Binary
2762 Time Step No. = 3300 Elapsed Time = 9.259099E+04 days
2763 Date: 05/18/06 Time: 10:48:24 CPU Time: 0 0:14:40.79 (880.79 sec) Binary
2765 Time Step No. = 3320 Elapsed Time = 9.260441E+04 days
2766 Date: 05/18/06 Time: 10:48:29 CPU Time: 0 0:14:45.99 (885.99 sec) Binary
2768 Time Step No. = 3340 Elapsed Time = 9.261774E+04 days
2769 Date: 05/18/06 Time: 10:48:35 CPU Time: 0 0:14:51.63 (891.63 sec) Binary
2771 Time Step No. = 3360 Elapsed Time = 9.263189E+04 days
2772 Date: 05/18/06 Time: 10:48:40 CPU Time: 0 0:14:56.83 (896.83 sec) Binary
2774 Time Step No. = 3380 Elapsed Time = 9.264596E+04 days
2775 Date: 05/18/06 Time: 10:48:45 CPU Time: 0 0:15: 2.01 (902.01 sec) Binary
2777 Time Step No. = 3400 Elapsed Time = 9.265943E+04 days
2778 Date: 05/18/06 Time: 10:48:51 CPU Time: 0 0:15: 7.67 (907.67 sec) Binary
2780 Time Step No. = 3420 Elapsed Time = 9.267372E+04 days
2781 Date: 05/18/06 Time: 10:48:56 CPU Time: 0 0:15:12.84 (912.84 sec) Binary
2783 Time Step No. = 3440 Elapsed Time = 9.268795E+04 days
2784 Date: 05/18/06 Time: 10:49:01 CPU Time: 0 0:15:18.46 (918.46 sec) Binary
2786 Time Step No. = 3460 Elapsed Time = 9.270205E+04 days
2787 Date: 05/18/06 Time: 10:49:07 CPU Time: 0 0:15:23.65 (923.65 sec) Binary
2789 Time Step No. = 3480 Elapsed Time = 9.271604E+04 days
2790 Date: 05/18/06 Time: 10:49:12 CPU Time: 0 0:15:29.30 (929.30 sec) Binary
2792 Time Step No. = 3500 Elapsed Time = 9.273088E+04 days
2793 Date: 05/18/06 Time: 10:49:18 CPU Time: 0 0:15:34.51 (934.51 sec) Binary
2795 Time Step No. = 3520 Elapsed Time = 9.274566E+04 days
2796 Date: 05/18/06 Time: 10:49:23 CPU Time: 0 0:15:39.69 (939.69 sec) Binary
2798 Time Step No. = 3540 Elapsed Time = 9.275979E+04 days
2799 Date: 05/18/06 Time: 10:49:28 CPU Time: 0 0:15:45.37 (945.37 sec) Binary
2801 Time Step No. = 3560 Elapsed Time = 9.277479E+04 days
2802 Date: 05/18/06 Time: 10:49:33 CPU Time: 0 0:15:50.42 (950.42 sec) Binary
2804 Time Step No. = 3580 Elapsed Time = 9.278974E+04 days
2805 Date: 05/18/06 Time: 10:49:39 CPU Time: 0 0:15:55.81 (955.81 sec) Binary
2807 Time Step No. = 3600 Elapsed Time = 9.280453E+04 days
2808 Date: 05/18/06 Time: 10:49:44 CPU Time: 0 0:16: 0.83 (960.83 sec) Binary
2810 Time Step No. = 3620 Elapsed Time = 9.281975E+04 days
2811 Date: 05/18/06 Time: 10:49:49 CPU Time: 0 0:16: 6.00 (966.00 sec) Binary
2813 Time Step No. = 3640 Elapsed Time = 9.283533E+04 days
2814 Date: 05/18/06 Time: 10:49:55 CPU Time: 0 0:16:11.49 (971.49 sec) Binary
2816 Time Step No. = 3660 Elapsed Time = 9.285137E+04 days
2817 Date: 05/18/06 Time: 10:50:00 CPU Time: 0 0:16:16.67 (976.67 sec) Binary
2819 Time Step No. = 3680 Elapsed Time = 9.286675E+04 days
2820 Date: 05/18/06 Time: 10:50:06 CPU Time: 0 0:16:22.23 (982.23 sec) Binary
2822 Time Step No. = 3700 Elapsed Time = 9.288250E+04 days
2823 Date: 05/18/06 Time: 10:50:11 CPU Time: 0 0:16:27.42 (987.42 sec) Binary
2825 Time Step No. = 3720 Elapsed Time = 9.289928E+04 days
2826 Date: 05/18/06 Time: 10:50:16 CPU Time: 0 0:16:33.08 (993.08 sec) Binary
2828 Time Step No. = 3740 Elapsed Time = 9.291592E+04 days
2829 Date: 05/18/06 Time: 10:50:22 CPU Time: 0 0:16:38.27 (998.27 sec) Binary
2831 Time Step No. = 3760 Elapsed Time = 9.293247E+04 days
2832 Date: 05/18/06 Time: 10:50:27 CPU Time: 0 0:16:43.45 (1003.45 sec) Binary
2834 Time Step No. = 3780 Elapsed Time = 9.294882E+04 days
2835 Date: 05/18/06 Time: 10:50:33 CPU Time: 0 0:16:49.11 (1009.11 sec) Binary
2837 Time Step No. = 3800 Elapsed Time = 9.296682E+04 days
2838 Date: 05/18/06 Time: 10:50:38 CPU Time: 0 0:16:54.31 (1014.31 sec) Binary
2840 Time Step No. = 3820 Elapsed Time = 9.298414E+04 days
2841 Date: 05/18/06 Time: 10:50:43 CPU Time: 0 0:16:59.93 (1019.93 sec) Binary
2843 Time Step No. = 3840 Elapsed Time = 9.300189E+04 days
2844 Date: 05/18/06 Time: 10:50:49 CPU Time: 0 0:17: 5.12 (1025.12 sec) Binary
2846 Time Step No. = 3860 Elapsed Time = 9.302014E+04 days
2847 Date: 05/18/06 Time: 10:50:54 CPU Time: 0 0:17:10.32 (1030.32 sec) Binary
2849 Time Step No. = 3880 Elapsed Time = 9.303884E+04 days
2850 Date: 05/18/06 Time: 10:50:59 CPU Time: 0 0:17:15.97 (1035.97 sec) Binary
2852 Time Step No. = 3900 Elapsed Time = 9.305808E+04 days
2853 Date: 05/18/06 Time: 10:51:05 CPU Time: 0 0:17:21.15 (1041.15 sec) Binary
2855 Time Step No. = 3920 Elapsed Time = 9.307720E+04 days
2856 Date: 05/18/06 Time: 10:51:10 CPU Time: 0 0:17:26.78 (1046.78 sec) Binary
2858 Time Step No. = 3940 Elapsed Time = 9.309678E+04 days
2859 Date: 05/18/06 Time: 10:51:15 CPU Time: 0 0:17:31.91 (1051.91 sec) Binary
2861 Time Step No. = 3960 Elapsed Time = 9.311692E+04 days

2862 Date: 05/18/06 Time: 10:51:21 CPU Time: 0 0:17:37.16 (1057.16 sec) Binary
2864 Time Step No. = 3980 Elapsed Time = 9.313829E+04 days
2865 Date: 05/18/06 Time: 10:51:26 CPU Time: 0 0:17:41.99 (1061.99 sec) Binary
2867 Time Step No. = 4000 Elapsed Time = 9.316104E+04 days
2868 Date: 05/18/06 Time: 10:51:31 CPU Time: 0 0:17:46.92 (1066.92 sec) Binary
2870 Time Step No. = 4020 Elapsed Time = 9.318366E+04 days
2871 Date: 05/18/06 Time: 10:51:36 CPU Time: 0 0:17:52.15 (1072.15 sec) Binary
2873 Time Step No. = 4040 Elapsed Time = 9.320767E+04 days
2874 Date: 05/18/06 Time: 10:51:41 CPU Time: 0 0:17:56.94 (1076.94 sec) Binary
2876 Time Step No. = 4060 Elapsed Time = 9.323324E+04 days
2877 Date: 05/18/06 Time: 10:51:45 CPU Time: 0 0:18: 1.74 (1081.74 sec) Binary
2879 Time Step No. = 4080 Elapsed Time = 9.325948E+04 days
2880 Date: 05/18/06 Time: 10:51:51 CPU Time: 0 0:18: 7.00 (1087.00 sec) Binary
2882 Time Step No. = 4100 Elapsed Time = 9.328834E+04 days
2883 Date: 05/18/06 Time: 10:51:55 CPU Time: 0 0:18:11.84 (1091.84 sec) Binary
2885 Time Step No. = 4120 Elapsed Time = 9.332128E+04 days
2886 Date: 05/18/06 Time: 10:52:01 CPU Time: 0 0:18:17.12 (1097.12 sec) Binary
2888 Time Step No. = 4140 Elapsed Time = 9.336491E+04 days
2889 Date: 05/18/06 Time: 10:52:06 CPU Time: 0 0:18:22.73 (1102.73 sec) Binary
2891 Time Step No. = 4160 Elapsed Time = 9.361676E+04 days
2892 Date: 05/18/06 Time: 10:52:12 CPU Time: 0 0:18:28.40 (1108.40 sec) Binary
2894 Time Step No. = 4180 Elapsed Time = 9.422795E+04 days
2895 Date: 05/18/06 Time: 10:52:19 CPU Time: 0 0:18:35.39 (1115.39 sec) Binary
2897 Time Step No. = 4200 Elapsed Time = 9.893912E+04 days
2898 Date: 05/18/06 Time: 10:52:25 CPU Time: 0 0:18:41.56 (1121.56 sec) Binary
2900 Time Step No. = 4220 Elapsed Time = 1.009195E+05 days
2901 Date: 05/18/06 Time: 10:52:37 CPU Time: 0 0:18:52.70 (1132.70 sec) Binary
2903 Time Step No. = 4240 Elapsed Time = 1.009222E+05 days
2904 Date: 05/18/06 Time: 10:52:42 CPU Time: 0 0:18:57.87 (1137.87 sec) Binary
2906 Time Step No. = 4260 Elapsed Time = 1.009250E+05 days
2907 Date: 05/18/06 Time: 10:52:47 CPU Time: 0 0:19: 2.62 (1142.62 sec) Binary
2909 Time Step No. = 4280 Elapsed Time = 1.009279E+05 days
2910 Date: 05/18/06 Time: 10:52:51 CPU Time: 0 0:19: 7.36 (1147.36 sec) Binary
2912 Time Step No. = 4300 Elapsed Time = 1.009308E+05 days
2913 Date: 05/18/06 Time: 10:52:57 CPU Time: 0 0:19:12.55 (1152.55 sec) Binary
2915 Time Step No. = 4320 Elapsed Time = 1.009339E+05 days
2916 Date: 05/18/06 Time: 10:53:01 CPU Time: 0 0:19:17.27 (1157.27 sec) Binary
2918 Time Step No. = 4340 Elapsed Time = 1.009372E+05 days
2919 Date: 05/18/06 Time: 10:53:06 CPU Time: 0 0:19:21.98 (1161.98 sec) Binary
2921 Time Step No. = 4360 Elapsed Time = 1.009405E+05 days
2922 Date: 05/18/06 Time: 10:53:11 CPU Time: 0 0:19:27.19 (1167.19 sec) Binary
2924 Time Step No. = 4380 Elapsed Time = 1.009440E+05 days
2925 Date: 05/18/06 Time: 10:53:18 CPU Time: 0 0:19:34.01 (1174.01 sec) Binary
2927 Time Step No. = 4400 Elapsed Time = 1.009468E+05 days
2928 Date: 05/18/06 Time: 10:53:20 CPU Time: 0 0:19:35.49 (1175.49 sec) Binary
2930 Time Step No. = 4420 Elapsed Time = 1.011909E+05 days
2931 Date: 05/18/06 Time: 10:53:23 CPU Time: 0 0:19:38.40 (1178.40 sec) Binary
2933 Time Step No. = 4440 Elapsed Time = 1.024529E+05 days
2934 Date: 05/18/06 Time: 10:53:32 CPU Time: 0 0:19:47.96 (1187.96 sec) Binary
2936 Time Step No. = 4460 Elapsed Time = 1.026770E+05 days
2937 Date: 05/18/06 Time: 10:53:35 CPU Time: 0 0:19:50.88 (1190.88 sec) Binary
2939 Time Step No. = 4480 Elapsed Time = 1.041130E+05 days
2940 Date: 05/18/06 Time: 10:53:46 CPU Time: 0 0:20: 1.71 (1201.71 sec) Binary
2942 Time Step No. = 4500 Elapsed Time = 1.041673E+05 days
2943 Date: 05/18/06 Time: 10:53:50 CPU Time: 0 0:20: 5.81 (1205.81 sec) Binary
2945 Time Step No. = 4520 Elapsed Time = 1.049488E+05 days
2946 Date: 05/18/06 Time: 10:53:57 CPU Time: 0 0:20:13.13 (1213.13 sec) Binary
2948 Time Step No. = 4540 Elapsed Time = 1.066226E+05 days
2949 Date: 05/18/06 Time: 10:54:05 CPU Time: 0 0:20:20.94 (1220.94 sec) Binary
2951 Time Step No. = 4560 Elapsed Time = 1.087496E+05 days
2952 Date: 05/18/06 Time: 10:54:12 CPU Time: 0 0:20:27.79 (1227.79 sec) Binary
2954 Time Step No. = 4580 Elapsed Time = 1.143056E+05 days
2955 Date: 05/18/06 Time: 10:54:16 CPU Time: 0 0:20:32.03 (1232.03 sec) Binary
2957 Time Step No. = 4600 Elapsed Time = 1.395547E+05 days
2958 Date: 05/18/06 Time: 10:54:24 CPU Time: 0 0:20:39.54 (1239.54 sec) Binary
2960 Time Step No. = 4620 Elapsed Time = 1.524241E+05 days
2961 Date: 05/18/06 Time: 10:54:33 CPU Time: 0 0:20:48.62 (1248.62 sec) Binary
2963 Time Step No. = 4640 Elapsed Time = 1.553196E+05 days
2964 Date: 05/18/06 Time: 10:54:41 CPU Time: 0 0:20:56.32 (1256.32 sec) Binary
2966 Time Step No. = 4660 Elapsed Time = 1.591320E+05 days
2967 Date: 05/18/06 Time: 10:54:48 CPU Time: 0 0:21: 3.75 (1263.75 sec) Binary
2969 Time Step No. = 4680 Elapsed Time = 1.721310E+05 days
2970 Date: 05/18/06 Time: 10:54:56 CPU Time: 0 0:21:11.49 (1271.49 sec) Binary
2972 Time Step No. = 4700 Elapsed Time = 1.944112E+05 days
2973 Date: 05/18/06 Time: 10:55:03 CPU Time: 0 0:21:18.29 (1278.29 sec) Binary
2975 Time Step No. = 4720 Elapsed Time = 1.986996E+05 days

2976	Date: 05/18/06	Time: 10:55:10	CPU Time: 0 0:21:25.48 (1285.48 sec)	Binary
2978	Time Step No. = 4740	Elapsed Time = 2.057306E+05 days		
2979	Date: 05/18/06	Time: 10:55:16	CPU Time: 0 0:21:31.51 (1291.51 sec)	Binary
2981	Time Step No. = 4760	Elapsed Time = 2.132912E+05 days		
2982	Date: 05/18/06	Time: 10:55:23	CPU Time: 0 0:21:38.18 (1298.18 sec)	Binary
2984	Time Step No. = 4780	Elapsed Time = 2.193162E+05 days		
2985	Date: 05/18/06	Time: 10:55:30	CPU Time: 0 0:21:45.02 (1305.02 sec)	Binary
2987	Time Step No. = 4800	Elapsed Time = 2.226687E+05 days		
2988	Date: 05/18/06	Time: 10:55:37	CPU Time: 0 0:21:52.75 (1312.75 sec)	Binary
2990	Time Step No. = 4820	Elapsed Time = 2.259834E+05 days		
2991	Date: 05/18/06	Time: 10:55:43	CPU Time: 0 0:21:58.13 (1318.13 sec)	Binary
2993	Time Step No. = 4840	Elapsed Time = 2.712249E+05 days		
2994	Date: 05/18/06	Time: 10:55:48	CPU Time: 0 0:22: 2.90 (1322.90 sec)	Binary
2996	Time Step No. = 4860	Elapsed Time = 3.652431E+05 days		
2997	Date: 05/18/06	Time: 10:55:54	CPU Time: 0 0:22: 9.22 (1329.22 sec)	Binary
2999	Time Step No. = 4880	Elapsed Time = 3.652444E+05 days		
3000	Date: 05/18/06	Time: 10:55:56	CPU Time: 0 0:22:11.42 (1331.42 sec)	Binary
3002	Time Step No. = 4900	Elapsed Time = 3.653026E+05 days		
3003	Date: 05/18/06	Time: 10:55:59	CPU Time: 0 0:22:13.87 (1333.87 sec)	Binary
3005	Time Step No. = 4920	Elapsed Time = 3.655257E+05 days		
3006	Date: 05/18/06	Time: 10:56:04	CPU Time: 0 0:22:18.93 (1338.93 sec)	Binary
3008	Time Step No. = 4940	Elapsed Time = 3.664875E+05 days		
3009	Date: 05/18/06	Time: 10:56:09	CPU Time: 0 0:22:24.66 (1344.66 sec)	Binary
3011	Time Step No. = 4960	Elapsed Time = 3.665925E+05 days		
3012	Date: 05/18/06	Time: 10:56:11	CPU Time: 0 0:22:25.97 (1345.97 sec)	Binary
3014	Time Step No. = 4980	Elapsed Time = 3.668305E+05 days		
3015	Date: 05/18/06	Time: 10:56:13	CPU Time: 0 0:22:28.50 (1348.50 sec)	Binary
3017	Time Step No. = 5000	Elapsed Time = 3.681194E+05 days		
3018	Date: 05/18/06	Time: 10:56:19	CPU Time: 0 0:22:34.35 (1354.35 sec)	Binary
3020	Time Step No. = 5020	Elapsed Time = 3.709195E+05 days		
3021	Date: 05/18/06	Time: 10:56:25	CPU Time: 0 0:22:39.88 (1359.88 sec)	Binary
3023	Time Step No. = 5040	Elapsed Time = 4.282789E+05 days		
3024	Date: 05/18/06	Time: 10:56:31	CPU Time: 0 0:22:45.91 (1365.91 sec)	Binary
3026	Time Step No. = 5060	Elapsed Time = 4.653183E+05 days		
3027	Date: 05/18/06	Time: 10:56:37	CPU Time: 0 0:22:52.23 (1372.23 sec)	Binary
3029	Time Step No. = 5080	Elapsed Time = 4.900809E+05 days		
3030	Date: 05/18/06	Time: 10:56:43	CPU Time: 0 0:22:57.95 (1377.95 sec)	Binary
3032	Time Step No. = 5100	Elapsed Time = 5.157774E+05 days		
3033	Date: 05/18/06	Time: 10:56:48	CPU Time: 0 0:23: 2.89 (1382.89 sec)	Binary
3035	Time Step No. = 5120	Elapsed Time = 5.494751E+05 days		
3036	Date: 05/18/06	Time: 10:56:53	CPU Time: 0 0:23: 8.35 (1388.35 sec)	Binary
3038	Time Step No. = 5140	Elapsed Time = 5.579649E+05 days		
3039	Date: 05/18/06	Time: 10:57:02	CPU Time: 0 0:23:16.96 (1396.96 sec)	Binary
3041	Time Step No. = 5160	Elapsed Time = 5.584439E+05 days		
3042	Date: 05/18/06	Time: 10:57:05	CPU Time: 0 0:23:20.19 (1400.19 sec)	Binary
3044	Time Step No. = 5180	Elapsed Time = 5.690395E+05 days		
3045	Date: 05/18/06	Time: 10:57:10	CPU Time: 0 0:23:25.52 (1405.52 sec)	Binary
3047	Time Step No. = 5200	Elapsed Time = 5.825788E+05 days		
3048	Date: 05/18/06	Time: 10:57:18	CPU Time: 0 0:23:33.26 (1413.26 sec)	Binary
3050	Time Step No. = 5220	Elapsed Time = 5.945658E+05 days		
3051	Date: 05/18/06	Time: 10:57:23	CPU Time: 0 0:23:38.38 (1418.38 sec)	Binary
3053	Time Step No. = 5240	Elapsed Time = 6.257360E+05 days		
3054	Date: 05/18/06	Time: 10:57:29	CPU Time: 0 0:23:43.72 (1423.72 sec)	Binary
3056	Time Step No. = 5260	Elapsed Time = 6.705437E+05 days		
3057	Date: 05/18/06	Time: 10:57:36	CPU Time: 0 0:23:51.06 (1431.06 sec)	Binary
3059	Time Step No. = 5280	Elapsed Time = 7.337650E+05 days		
3060	Date: 05/18/06	Time: 10:57:43	CPU Time: 0 0:23:58.63 (1438.63 sec)	Binary
3062	Time Step No. = 5300	Elapsed Time = 7.882779E+05 days		
3063	Date: 05/18/06	Time: 10:57:51	CPU Time: 0 0:24: 6.08 (1446.08 sec)	Binary
3065	Time Step No. = 5320	Elapsed Time = 9.160867E+05 days		
3066	Date: 05/18/06	Time: 10:57:59	CPU Time: 0 0:24:14.39 (1454.39 sec)	Binary
3068	Time Step No. = 5340	Elapsed Time = 9.335625E+05 days		
3069	Date: 05/18/06	Time: 10:58:07	CPU Time: 0 0:24:22.26 (1462.26 sec)	Binary
3071	Time Step No. = 5360	Elapsed Time = 9.974253E+05 days		
3072	Date: 05/18/06	Time: 10:58:14	CPU Time: 0 0:24:29.48 (1469.48 sec)	Binary
3074	Time Step No. = 5380	Elapsed Time = 1.042229E+06 days		
3075	Date: 05/18/06	Time: 10:58:19	CPU Time: 0 0:24:34.49 (1474.49 sec)	Binary
3077	Time Step No. = 5400	Elapsed Time = 1.260820E+06 days		
3078	Date: 05/18/06	Time: 10:58:26	CPU Time: 0 0:24:41.28 (1481.28 sec)	Binary
3080	Time Step No. = 5420	Elapsed Time = 1.334337E+06 days		
3081	Date: 05/18/06	Time: 10:58:33	CPU Time: 0 0:24:48.32 (1488.32 sec)	Binary
3083	Time Step No. = 5440	Elapsed Time = 1.345331E+06 days		
3084	Date: 05/18/06	Time: 10:58:37	CPU Time: 0 0:24:51.93 (1491.93 sec)	Binary
3086	Time Step No. = 5460	Elapsed Time = 1.427559E+06 days		
3087	Date: 05/18/06	Time: 10:58:46	CPU Time: 0 0:25: 0.49 (1500.49 sec)	Binary
3089	Time Step No. = 5480	Elapsed Time = 1.441381E+06 days		

```
3090 Date: 05/18/06 Time: 10:58:51 CPU Time: 0 0:25: 6.00 ( 1506.00 sec) Binary
3092 Time Step No. = 5500 Elapsed Time = 1.579545E+06 days
3093 Date: 05/18/06 Time: 10:58:57 CPU Time: 0 0:25:12.14 ( 1512.14 sec) Binary
3095 Time Step No. = 5520 Elapsed Time = 1.722127E+06 days
3096 Date: 05/18/06 Time: 10:59:04 CPU Time: 0 0:25:19.39 ( 1519.39 sec) Binary
3098 Time Step No. = 5540 Elapsed Time = 1.729742E+06 days
3099 Date: 05/18/06 Time: 10:59:07 CPU Time: 0 0:25:22.06 ( 1522.06 sec) Binary
3101 Time Step No. = 5560 Elapsed Time = 1.756478E+06 days
3102 Date: 05/18/06 Time: 10:59:13 CPU Time: 0 0:25:27.58 ( 1527.58 sec) Binary
3104 Time Step No. = 5580 Elapsed Time = 1.769620E+06 days
3105 Date: 05/18/06 Time: 10:59:20 CPU Time: 0 0:25:34.41 ( 1534.41 sec) Binary
3107 Time Step No. = 5600 Elapsed Time = 1.839288E+06 days
3108 Date: 05/18/06 Time: 10:59:26 CPU Time: 0 0:25:40.35 ( 1540.35 sec) Binary
3110 Time Step No. = 5620 Elapsed Time = 2.169142E+06 days
3111 Date: 05/18/06 Time: 10:59:32 CPU Time: 0 0:25:46.51 ( 1546.51 sec) Binary
3113 Time Step No. = 5640 Elapsed Time = 2.272625E+06 days
3114 Date: 05/18/06 Time: 10:59:36 CPU Time: 0 0:25:51.15 ( 1551.15 sec) Binary
3116 Time Step No. = 5660 Elapsed Time = 2.337198E+06 days
3117 Date: 05/18/06 Time: 10:59:43 CPU Time: 0 0:25:57.48 ( 1557.48 sec) Binary
3119 Time Step No. = 5680 Elapsed Time = 2.341430E+06 days
3120 Date: 05/18/06 Time: 10:59:49 CPU Time: 0 0:26: 3.90 ( 1563.90 sec) Binary
3122 Time Step No. = 5700 Elapsed Time = 2.377641E+06 days
3123 Date: 05/18/06 Time: 10:59:54 CPU Time: 0 0:26: 8.34 ( 1568.34 sec) Binary
3125 Time Step No. = 5720 Elapsed Time = 2.750209E+06 days
3126 Date: 05/18/06 Time: 10:59:59 CPU Time: 0 0:26:13.95 ( 1573.95 sec) Binary
3128 Time Step No. = 5740 Elapsed Time = 2.753701E+06 days
3129 Date: 05/18/06 Time: 11:00:06 CPU Time: 0 0:26:20.91 ( 1580.91 sec) Binary
3131 Time Step No. = 5760 Elapsed Time = 2.765715E+06 days
3132 Date: 05/18/06 Time: 11:00:11 CPU Time: 0 0:26:25.90 ( 1585.90 sec) Binary
3134 Time Step No. = 5780 Elapsed Time = 2.912561E+06 days
3135 Date: 05/18/06 Time: 11:00:18 CPU Time: 0 0:26:32.45 ( 1592.45 sec) Binary
3137 Time Step No. = 5800 Elapsed Time = 3.153612E+06 days
3138 Date: 05/18/06 Time: 11:00:25 CPU Time: 0 0:26:39.49 ( 1599.49 sec) Binary
3140 Time Step No. = 5820 Elapsed Time = 3.155082E+06 days
3141 Date: 05/18/06 Time: 11:00:32 CPU Time: 0 0:26:46.08 ( 1606.08 sec) Binary
3143 Time Step No. = 5840 Elapsed Time = 3.160573E+06 days
3144 Date: 05/18/06 Time: 11:00:35 CPU Time: 0 0:26:49.81 ( 1609.81 sec) Binary
3146 Time Step No. = 5860 Elapsed Time = 3.171708E+06 days
3147 Date: 05/18/06 Time: 11:00:40 CPU Time: 0 0:26:54.30 ( 1614.30 sec) Binary
3149 Time Step No. = 5880 Elapsed Time = 3.314482E+06 days
3150 Date: 05/18/06 Time: 11:00:45 CPU Time: 0 0:26:59.58 ( 1619.58 sec) Binary
3152 Time Step No. = 5900 Elapsed Time = 3.592771E+06 days
3153 Date: 05/18/06 Time: 11:00:51 CPU Time: 0 0:27: 5.08 ( 1625.08 sec) Binary
3156 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
3318 CPU Time (this time step) = 0.30 sec = 0.00008 hr
3319 CPU Time (total for run) = 2015.18 sec = 0.55977 hr
3320 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
3172 CPU Time (this time step) = 0.23 sec = 0.00006 hr
3173 CPU Time (total for run) = 1625.78 sec = 0.45161 hr
3174 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
3996 Date: 02/14/07 Time: 10:26:07 CPU Time: 0 0:33:35.20 ( 2015.20 sec) ASCII
3998 Time Step No. = 5903 Elapsed Time = 3.652431E+06 days
3999 Date: 02/14/07 Time: 10:26:07 CPU Time: 0 0:33:35.20 ( 2015.20 sec) Binary
4004 *****
4005 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
4006 * Completed: 02/14/07 at 10:26:07 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
4007 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
3850 Date: 05/18/06 Time: 11:00:51 CPU Time: 0 0:27: 5.79 ( 1625.79 sec) ASCII
3852 Time Step No. = 5903 Elapsed Time = 3.652431E+06 days
3853 Date: 05/18/06 Time: 11:00:51 CPU Time: 0 0:27: 5.80 ( 1625.80 sec) Binary
3858 *****
3859 * End of BRAGFLO Version: 6.0 Revised: 01/22/03 *
3860 * Completed: 05/18/06 at 11:00:51 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3861 *****
*****
```

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

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009_OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009_OUT;1
```

BF2_QB0600_ES47_TEST7_V010_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010_OUT;1
 2  ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
 3  ** Begun on: 02/14/07 at 09:53:57 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
 4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010_OUT;1
 2  ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
 3  ** Begun on: 05/18/06 at 10:35:31 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
 4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010_OUT;1
 61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010_INP;2
 62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010_OUT;1
 61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R010]BF2_TEST7_R010_QA0500_INP;1
 62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010_OUT;1
 66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_CLOSURE.DAT;1
 67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010_OUT;1
 66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R010]BF2_CLOSURE.DAT;1
 67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010_OUT;1
 71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010_OUT;1
 72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010_OUT;1
 71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R010]BF2_VMS82_V500_ES47_TEST7_R010_OUT;1
 72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010_OUT;1
 76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010_SUM;1
 77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010_OUT;1
 76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R010]BF2_VMS82_V500_ES47_TEST7_R010_SUM;1
 77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010_OUT;1
 81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010_BIN;1
 82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010_OUT;1
 81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R010]BF2_VMS82_V500_ES47_TEST7_R010_BIN;1
 82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010_OUT;1
 86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010_ROT;1
 87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010_OUT;1
 86 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R010]BF2_VMS82_V500_ES47_TEST7_R010_ROT;1
 87 *****
```


File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1

195 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
196 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
197 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
198 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
199 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
200 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
201 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
202 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
203 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
204 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
205 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
206 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
207 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
208 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
209 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
210 58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
211 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
212 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
213 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
214 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
215 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
216 64 0 0 CONCST Salt concentration -- simple model kg/m^3
217 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
218 66 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
224 72 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
225 73 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
226 74 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
227 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
228 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
229 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
230 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
231 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
232 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
233 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241 89 0 0 CONCRXN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
247 95 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
248 96 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249 97 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3

```
262 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264 112 0 0 H2OFLOWIN Water inflow rate kg/s
265 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271 119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
272 120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
273 121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274 122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275 123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
276 124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
278
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
195 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200 48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204 52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205 53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206 54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207 55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208 56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209 57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
216 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
217 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
218 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
224 72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
225 73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
226 74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
227 75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
228 76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
229 77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
230 78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
231 79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
232 80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
233 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
234 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
235 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
236 84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
237 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
238 86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
239 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
240 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
241 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
247 95 0 0 H2OFLOWIN Water inflow rate kg/s
248 96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
```



```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
851  instead of Input IC's for the Waste
852  [0=No, 1=Yes] (ICWASTE) = 1
854  Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
855  Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
856  Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
857  Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
859  -----
```


```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
949  39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
950  TOL = 1.0000E-02
951  SOCEFFMIN = 1.0000E-03
953  Fracture model will be used? (KFRACTURE): T
```

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
926  Fracture model will be used? (KFRACTURE): T
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
1086  Intrinsic reaction rate constants? (LINTRIN): F
1088  Reaction rate constants (RK):
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
1059  Reaction rate constants (RK):
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
```

```
1096  MgO hydration reaction rate constants:
1097  Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098  Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100  Gas generation factors for biodegradation reaction:
1101  Waste Area # 1
1102  H2/H2S production (RXH2S) = 1.230000E+00
1103  CO2 production (RXCO2) = 0.000000E+00
1105  Gas generation factors for biodegradation reaction:
1106  Waste Area # 2
1107  H2/H2S production (RXH2S) = 1.230000E+00
1108  CO2 production (RXCO2) = 0.000000E+00
1110  Saturation cutoff value (SOCMIN): 0.000000E+00
1112  Stoichiometric coeff's for Rxn 1:
1113  H2 coefficient = 1.186400E+00
1114  H2O coefficient = -1.627100E+00
1115  Fe coefficient = -1.000000E+00
1116  Bio coefficient = 0.000000E+00
1117  Fe(OH)2 coefficient = 0.000000E+00
1118  FeS coefficient = 0.000000E+00
1119  MgO coefficient = 0.000000E+00
1120  Mg(OH)2 coefficient = 0.000000E+00
1121  MgCO3 coefficient = 0.000000E+00
1123  Stoichiometric coeff's for Rxn 2:
1124  H2 coefficient = 1.230000E+00
1125  H2O coefficient = 0.000000E+00
1126  Fe coefficient = 0.000000E+00
1127  Bio coefficient = -1.000000E+00
1128  Fe(OH)2 coefficient = 0.000000E+00
1129  FeS coefficient = 0.000000E+00
1130  MgO coefficient = 0.000000E+00
1131  Mg(OH)2 coefficient = 0.000000E+00
1132  MgCO3 coefficient = 0.000000E+00
1134  Stoichiometric coeff's for Rxn 3:
1135  H2 coefficient = 0.000000E+00
1136  H2O coefficient = 0.000000E+00
1137  Fe coefficient = 0.000000E+00
1138  Bio coefficient = 0.000000E+00
1139  Fe(OH)2 coefficient = 0.000000E+00
1140  FeS coefficient = 0.000000E+00
1141  MgO coefficient = 0.000000E+00
1142  Mg(OH)2 coefficient = 0.000000E+00
```

```
1143 MgCO3 coefficient = 0.000000E+00
1145 Stoichiometric coeff's for Rxn 4:
1146 H2 coefficient = 0.000000E+00
1147 H2O coefficient = 0.000000E+00
1148 Fe coefficient = 0.000000E+00
1149 Bio coefficient = 0.000000E+00
1150 Fe(OH)2 coefficient = 0.000000E+00
1151 FeS coefficient = 0.000000E+00
1152 MgO coefficient = 0.000000E+00
1153 Mg(OH)2 coefficient = 0.000000E+00
1154 MgCO3 coefficient = 0.000000E+00
1156 Stoichiometric coeff's for Rxn 5:
1157 H2 coefficient = 0.000000E+00
1158 H2O coefficient = 0.000000E+00
1159 Fe coefficient = 0.000000E+00
1160 Bio coefficient = 0.000000E+00
1161 Fe(OH)2 coefficient = 0.000000E+00
1162 FeS coefficient = 0.000000E+00
1163 MgO coefficient = 0.000000E+00
1164 Mg(OH)2 coefficient = 0.000000E+00
1165 MgCO3 coefficient = 0.000000E+00
1167 Stoichiometric coeff's for Rxn 6:
1168 H2 coefficient = 0.000000E+00
1169 H2O coefficient = 0.000000E+00
1170 Fe coefficient = 0.000000E+00
1171 Bio coefficient = 0.000000E+00
1172 Fe(OH)2 coefficient = 0.000000E+00
1173 FeS coefficient = 0.000000E+00
1174 MgO coefficient = 0.000000E+00
1175 Mg(OH)2 coefficient = 0.000000E+00
1176 MgCO3 coefficient = 0.000000E+00
1178 Stoichiometric coeff's for Rxn 7:
1179 H2 coefficient = 0.000000E+00
1180 H2O coefficient = 0.000000E+00
1181 Fe coefficient = 0.000000E+00
1182 Bio coefficient = 0.000000E+00
1183 Fe(OH)2 coefficient = 0.000000E+00
1184 FeS coefficient = 0.000000E+00
1185 MgO coefficient = 0.000000E+00
1186 Mg(OH)2 coefficient = 0.000000E+00
1187 MgCO3 coefficient = 0.000000E+00
1189 Wicking term (SATWICK) = 0.000000E+00
1190 Humid rates to be smoothed? (LARKN) = T
1191 Concentration rates to be smoothed? (LARKN2) = F
1192 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1194 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
1067 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068 Gas coefficient = 1.186400E+00
1069 H2O coefficient = 1.627100E+00
1070 Fe coefficient = 1.000000E+00
1072 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073 Gas coefficient = 1.230000E+00
1074 H2O coefficient = 0.000000E+00
1075 Bio coefficient = 1.000000E+00
1077 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
1200 Molecular weights (WM):
1201 Fe(OH)2: 8.9862E-02 kg/mol
1202 FeS: 8.7900E-02 kg/mol
1203 MgO: 4.0304E-02 kg/mol
1204 Mg(OH)2: 5.8320E-02 kg/mol
1205 MgCO3: 8.4314E-02 kg/mol
1207 Densities (DEN(1-4)):
1208 Fe: 7.8700E+03 kg/m3
1209 Fe(OH)2: 3.4000E+03 kg/m3
1210 FeS: 4.7000E+03 kg/m3
1211 Bio: 1.1000E+03 kg/m3
```

```
1213 Densities (DEN(5-8)):
1214 MgO: 3.6000E+03 kg/m3
1215 Mg(OH)2: 2.3700E+03 kg/m3
1216 MgCO3: 3.0500E+03 kg/m3
1217 SALT: 2.1700E+03 kg/m3
1219 Will creep closure be used (CLOSURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
1083 Wicking term (SATWICK) = 0.000000E+00
1084 Humid rates to be smoothed? (LARKN) = T
1085 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1087 Will creep closure be used (CLOSURE): T
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
1233 PHIUPPER = Upper porosity limit in permeability-porosity expression
1234 PHILOWER = Lower porosity limit in permeability-porosity expression
1235 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
1236 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1237 4 1.480000E+07 3.155700E+12 1 F
1238 MODPERM Parameters
1239 Model Number (CLOSPERFACT) [m^2] (CLOSPERMEXP) [-]
1240 4 5.584700E-12 0.000000E+00
1242 Number of materials using closure (NMATCLOS) = 2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
1101 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERFACT) [m^2] (CLOSPERMEXP) [-]
1102 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1103 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105 Number of materials using closure (NMATCLOS) = 2
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
1260 *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1263 *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1266 *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1269 *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
1272 *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
1276
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
1123 *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1126 *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1130
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
1300 57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1301 58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1303 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
1154 47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1155 48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1157 CAMCON Global Variable Units Conv
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 23.38 sec = 0.00649 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
1626 CPU Time (this time step) = 0.11 sec = 0.00003 hr
1627 CPU Time (total for run) = 20.57 sec = 0.00571 hr
1628 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
2450 Date: 02/14/07 Time: 09:54:21 CPU Time: 0 0: 0:23.39 ( 23.39 sec) ASCII
```

2452 Time Step No. = 138 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:54:21 CPU Time: 0 0: 0:23.40 (23.40 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 1.927161E-02 days
2456 Date: 02/14/07 Time: 09:54:21 CPU Time: 0 0: 0:23.87 (23.87 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 3.062646E+00 days
2459 Date: 02/14/07 Time: 09:54:25 CPU Time: 0 0: 0:27.65 (27.65 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.478092E+02 days
2462 Date: 02/14/07 Time: 09:54:29 CPU Time: 0 0: 0:31.69 (31.69 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 2.616479E+03 days
2465 Date: 02/14/07 Time: 09:54:35 CPU Time: 0 0: 0:37.25 (37.25 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 1.564322E+04 days
2468 Date: 02/14/07 Time: 09:54:43 CPU Time: 0 0: 0:45.86 (45.86 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 1.570228E+04 days
2471 Date: 02/14/07 Time: 09:54:50 CPU Time: 0 0: 0:52.16 (52.16 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 1.636574E+04 days
2474 Date: 02/14/07 Time: 09:54:54 CPU Time: 0 0: 0:56.68 (56.68 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 2.627969E+04 days
2477 Date: 02/14/07 Time: 09:54:59 CPU Time: 0 0: 1: 1.80 (61.80 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.052605E+04 days
2480 Date: 02/14/07 Time: 09:55:08 CPU Time: 0 0: 1:10.47 (70.47 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.082160E+04 days
2483 Date: 02/14/07 Time: 09:55:14 CPU Time: 0 0: 1:16.74 (76.74 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 3.098990E+04 days
2486 Date: 02/14/07 Time: 09:55:17 CPU Time: 0 0: 1:19.98 (79.98 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.652480E+04 days
2489 Date: 02/14/07 Time: 09:55:26 CPU Time: 0 0: 1:28.15 (88.15 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 3.654799E+04 days
2492 Date: 02/14/07 Time: 09:55:29 CPU Time: 0 0: 1:31.69 (91.69 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.665586E+04 days
2495 Date: 02/14/07 Time: 09:55:33 CPU Time: 0 0: 1:35.44 (95.44 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 3.668780E+04 days
2498 Date: 02/14/07 Time: 09:55:35 CPU Time: 0 0: 1:37.97 (97.97 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.849288E+04 days
2501 Date: 02/14/07 Time: 09:55:40 CPU Time: 0 0: 1:42.81 (102.81 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 4.259472E+04 days
2504 Date: 02/14/07 Time: 09:55:45 CPU Time: 0 0: 1:47.90 (107.90 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 4.286084E+04 days
2507 Date: 02/14/07 Time: 09:55:52 CPU Time: 0 0: 1:54.02 (114.02 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 4.373619E+04 days
2510 Date: 02/14/07 Time: 09:55:56 CPU Time: 0 0: 1:58.30 (118.30 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 6.235496E+04 days
2513 Date: 02/14/07 Time: 09:56:03 CPU Time: 0 0: 2: 4.96 (124.96 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 7.292165E+04 days
2516 Date: 02/14/07 Time: 09:56:10 CPU Time: 0 0: 2:12.94 (132.94 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 7.898391E+04 days
2519 Date: 02/14/07 Time: 09:56:18 CPU Time: 0 0: 2:20.64 (140.64 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 9.913502E+04 days
2522 Date: 02/14/07 Time: 09:56:26 CPU Time: 0 0: 2:28.07 (148.07 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 1.286357E+05 days
2525 Date: 02/14/07 Time: 09:56:33 CPU Time: 0 0: 2:35.50 (155.50 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 1.645239E+05 days
2528 Date: 02/14/07 Time: 09:56:40 CPU Time: 0 0: 2:41.94 (161.94 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 1.856670E+05 days
2531 Date: 02/14/07 Time: 09:56:49 CPU Time: 0 0: 2:51.42 (171.42 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 2.030085E+05 days
2534 Date: 02/14/07 Time: 09:56:57 CPU Time: 0 0: 2:59.53 (179.53 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 2.179414E+05 days
2537 Date: 02/14/07 Time: 09:57:07 CPU Time: 0 0: 3: 9.09 (189.09 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 2.337832E+05 days
2540 Date: 02/14/07 Time: 09:57:15 CPU Time: 0 0: 3:17.84 (197.84 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 2.687785E+05 days
2543 Date: 02/14/07 Time: 09:57:22 CPU Time: 0 0: 3:24.76 (204.76 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.009523E+05 days
2546 Date: 02/14/07 Time: 09:57:31 CPU Time: 0 0: 3:33.78 (213.78 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.218089E+05 days
2549 Date: 02/14/07 Time: 09:57:40 CPU Time: 0 0: 3:42.74 (222.74 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.391516E+05 days
2552 Date: 02/14/07 Time: 09:57:48 CPU Time: 0 0: 3:49.95 (229.95 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.652438E+05 days
2555 Date: 02/14/07 Time: 09:57:53 CPU Time: 0 0: 3:55.62 (235.62 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 3.652885E+05 days
2558 Date: 02/14/07 Time: 09:57:56 CPU Time: 0 0: 3:58.15 (238.15 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 3.665818E+05 days
2561 Date: 02/14/07 Time: 09:57:59 CPU Time: 0 0: 4: 0.84 (240.84 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 3.665902E+05 days
2564 Date: 02/14/07 Time: 09:58:00 CPU Time: 0 0: 4: 2.17 (242.17 sec) Binary

2566 Time Step No. = 880 Elapsed Time = 3.673164E+05 days
2567 Date: 02/14/07 Time: 09:58:03 CPU Time: 0 0: 4: 4.70 (244.70 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 3.787894E+05 days
2570 Date: 02/14/07 Time: 09:58:08 CPU Time: 0 0: 4:10.23 (250.23 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 3.981376E+05 days
2573 Date: 02/14/07 Time: 09:58:16 CPU Time: 0 0: 4:17.91 (257.91 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 4.776050E+05 days
2576 Date: 02/14/07 Time: 09:58:23 CPU Time: 0 0: 4:25.08 (265.08 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 6.163774E+05 days
2579 Date: 02/14/07 Time: 09:58:31 CPU Time: 0 0: 4:32.12 (272.12 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 8.538495E+05 days
2582 Date: 02/14/07 Time: 09:58:39 CPU Time: 0 0: 4:40.41 (280.41 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.041013E+06 days
2585 Date: 02/14/07 Time: 09:58:47 CPU Time: 0 0: 4:48.64 (288.64 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 1.426013E+06 days
2588 Date: 02/14/07 Time: 09:58:54 CPU Time: 0 0: 4:55.14 (295.14 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.569664E+06 days
2591 Date: 02/14/07 Time: 09:59:02 CPU Time: 0 0: 5: 3.12 (303.12 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.838319E+06 days
2594 Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 5:11.14 (311.14 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.081785E+06 days
2597 Date: 02/14/07 Time: 09:59:15 CPU Time: 0 0: 5:16.21 (316.21 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 2.372417E+06 days
2600 Date: 02/14/07 Time: 09:59:22 CPU Time: 0 0: 5:22.67 (322.67 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 2.772417E+06 days
2603 Date: 02/14/07 Time: 09:59:26 CPU Time: 0 0: 5:27.13 (327.13 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 3.172417E+06 days
2606 Date: 02/14/07 Time: 09:59:31 CPU Time: 0 0: 5:31.46 (331.46 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 3.572417E+06 days
2609 Date: 02/14/07 Time: 09:59:35 CPU Time: 0 0: 5:35.70 (335.70 sec) Binary
2612 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
2304 Date: 05/18/06 Time: 10:35:51 CPU Time: 0 0: 0:20.58 (20.58 sec) ASCII
2306 Time Step No. = 138 Elapsed Time = 0.000000E+00 days
2307 Date: 05/18/06 Time: 10:35:52 CPU Time: 0 0: 0:20.58 (20.58 sec) Binary
2309 Time Step No. = 140 Elapsed Time = 1.927161E-02 days
2310 Date: 05/18/06 Time: 10:35:52 CPU Time: 0 0: 0:20.98 (20.98 sec) Binary
2312 Time Step No. = 160 Elapsed Time = 3.062646E+00 days
2313 Date: 05/18/06 Time: 10:35:55 CPU Time: 0 0: 0:24.16 (24.16 sec) Binary
2315 Time Step No. = 180 Elapsed Time = 1.478092E+02 days
2316 Date: 05/18/06 Time: 10:35:59 CPU Time: 0 0: 0:27.56 (27.56 sec) Binary
2318 Time Step No. = 200 Elapsed Time = 2.616479E+03 days
2319 Date: 05/18/06 Time: 10:36:03 CPU Time: 0 0: 0:31.87 (31.87 sec) Binary
2321 Time Step No. = 220 Elapsed Time = 1.564322E+04 days
2322 Date: 05/18/06 Time: 10:36:10 CPU Time: 0 0: 0:38.55 (38.55 sec) Binary
2324 Time Step No. = 240 Elapsed Time = 1.570228E+04 days
2325 Date: 05/18/06 Time: 10:36:14 CPU Time: 0 0: 0:43.45 (43.45 sec) Binary
2327 Time Step No. = 260 Elapsed Time = 1.636574E+04 days
2328 Date: 05/18/06 Time: 10:36:18 CPU Time: 0 0: 0:47.02 (47.02 sec) Binary
2330 Time Step No. = 280 Elapsed Time = 2.627969E+04 days
2331 Date: 05/18/06 Time: 10:36:22 CPU Time: 0 0: 0:51.28 (51.28 sec) Binary
2333 Time Step No. = 300 Elapsed Time = 3.052605E+04 days
2334 Date: 05/18/06 Time: 10:36:29 CPU Time: 0 0: 0:58.43 (58.43 sec) Binary
2336 Time Step No. = 320 Elapsed Time = 3.082160E+04 days
2337 Date: 05/18/06 Time: 10:36:35 CPU Time: 0 0: 1: 3.98 (63.98 sec) Binary
2339 Time Step No. = 340 Elapsed Time = 3.098990E+04 days
2340 Date: 05/18/06 Time: 10:36:38 CPU Time: 0 0: 1: 6.87 (66.87 sec) Binary
2342 Time Step No. = 360 Elapsed Time = 3.652480E+04 days
2343 Date: 05/18/06 Time: 10:36:45 CPU Time: 0 0: 1:13.78 (73.78 sec) Binary
2345 Time Step No. = 380 Elapsed Time = 3.654799E+04 days
2346 Date: 05/18/06 Time: 10:36:48 CPU Time: 0 0: 1:16.73 (76.73 sec) Binary
2348 Time Step No. = 400 Elapsed Time = 3.665586E+04 days
2349 Date: 05/18/06 Time: 10:36:51 CPU Time: 0 0: 1:19.87 (79.87 sec) Binary
2351 Time Step No. = 420 Elapsed Time = 3.668780E+04 days
2352 Date: 05/18/06 Time: 10:36:53 CPU Time: 0 0: 1:21.97 (81.97 sec) Binary
2354 Time Step No. = 440 Elapsed Time = 3.849288E+04 days
2355 Date: 05/18/06 Time: 10:36:57 CPU Time: 0 0: 1:26.05 (86.05 sec) Binary
2357 Time Step No. = 460 Elapsed Time = 4.259472E+04 days
2358 Date: 05/18/06 Time: 10:37:02 CPU Time: 0 0: 1:30.34 (90.34 sec) Binary
2360 Time Step No. = 480 Elapsed Time = 4.286084E+04 days
2361 Date: 05/18/06 Time: 10:37:07 CPU Time: 0 0: 1:35.52 (95.52 sec) Binary
2363 Time Step No. = 500 Elapsed Time = 4.373619E+04 days
2364 Date: 05/18/06 Time: 10:37:11 CPU Time: 0 0: 1:39.22 (99.22 sec) Binary
2366 Time Step No. = 520 Elapsed Time = 6.235496E+04 days
2367 Date: 05/18/06 Time: 10:37:16 CPU Time: 0 0: 1:44.95 (104.95 sec) Binary

2369 Time Step No. = 540 Elapsed Time = 7.292165E+04 days
2370 Date: 05/18/06 Time: 10:37:23 CPU Time: 0 0: 1:51.87 (111.87 sec) Binary
2372 Time Step No. = 560 Elapsed Time = 7.898391E+04 days
2373 Date: 05/18/06 Time: 10:37:30 CPU Time: 0 0: 1:58.60 (118.60 sec) Binary
2375 Time Step No. = 580 Elapsed Time = 9.913502E+04 days
2376 Date: 05/18/06 Time: 10:37:36 CPU Time: 0 0: 2: 5.01 (125.01 sec) Binary
2378 Time Step No. = 600 Elapsed Time = 1.286357E+05 days
2379 Date: 05/18/06 Time: 10:37:43 CPU Time: 0 0: 2:11.30 (131.30 sec) Binary
2381 Time Step No. = 620 Elapsed Time = 1.645239E+05 days
2382 Date: 05/18/06 Time: 10:37:48 CPU Time: 0 0: 2:16.69 (136.69 sec) Binary
2384 Time Step No. = 640 Elapsed Time = 1.856670E+05 days
2385 Date: 05/18/06 Time: 10:37:56 CPU Time: 0 0: 2:24.92 (144.92 sec) Binary
2387 Time Step No. = 660 Elapsed Time = 2.030085E+05 days
2388 Date: 05/18/06 Time: 10:38:04 CPU Time: 0 0: 2:32.15 (152.15 sec) Binary
2390 Time Step No. = 680 Elapsed Time = 2.179414E+05 days
2391 Date: 05/18/06 Time: 10:38:12 CPU Time: 0 0: 2:40.22 (160.22 sec) Binary
2393 Time Step No. = 700 Elapsed Time = 2.337832E+05 days
2394 Date: 05/18/06 Time: 10:38:19 CPU Time: 0 0: 2:47.01 (167.01 sec) Binary
2396 Time Step No. = 720 Elapsed Time = 2.687785E+05 days
2397 Date: 05/18/06 Time: 10:38:24 CPU Time: 0 0: 2:52.39 (172.39 sec) Binary
2399 Time Step No. = 740 Elapsed Time = 3.009523E+05 days
2400 Date: 05/18/06 Time: 10:38:31 CPU Time: 0 0: 2:59.42 (179.42 sec) Binary
2402 Time Step No. = 760 Elapsed Time = 3.218089E+05 days
2403 Date: 05/18/06 Time: 10:38:38 CPU Time: 0 0: 3: 6.61 (186.61 sec) Binary
2405 Time Step No. = 780 Elapsed Time = 3.391516E+05 days
2406 Date: 05/18/06 Time: 10:38:44 CPU Time: 0 0: 3:12.61 (192.61 sec) Binary
2408 Time Step No. = 800 Elapsed Time = 3.652438E+05 days
2409 Date: 05/18/06 Time: 10:38:49 CPU Time: 0 0: 3:17.41 (197.41 sec) Binary
2411 Time Step No. = 820 Elapsed Time = 3.652885E+05 days
2412 Date: 05/18/06 Time: 10:38:51 CPU Time: 0 0: 3:19.56 (199.56 sec) Binary
2414 Time Step No. = 840 Elapsed Time = 3.665818E+05 days
2415 Date: 05/18/06 Time: 10:38:53 CPU Time: 0 0: 3:21.82 (201.82 sec) Binary
2417 Time Step No. = 860 Elapsed Time = 3.665902E+05 days
2418 Date: 05/18/06 Time: 10:38:55 CPU Time: 0 0: 3:22.94 (202.94 sec) Binary
2420 Time Step No. = 880 Elapsed Time = 3.673164E+05 days
2421 Date: 05/18/06 Time: 10:38:57 CPU Time: 0 0: 3:25.05 (205.05 sec) Binary
2423 Time Step No. = 900 Elapsed Time = 3.787894E+05 days
2424 Date: 05/18/06 Time: 10:39:02 CPU Time: 0 0: 3:30.21 (210.21 sec) Binary
2426 Time Step No. = 920 Elapsed Time = 3.981376E+05 days
2427 Date: 05/18/06 Time: 10:39:09 CPU Time: 0 0: 3:37.35 (217.35 sec) Binary
2429 Time Step No. = 940 Elapsed Time = 4.776050E+05 days
2430 Date: 05/18/06 Time: 10:39:15 CPU Time: 0 0: 3:43.68 (223.68 sec) Binary
2432 Time Step No. = 960 Elapsed Time = 6.163774E+05 days
2433 Date: 05/18/06 Time: 10:39:22 CPU Time: 0 0: 3:49.84 (229.84 sec) Binary
2435 Time Step No. = 980 Elapsed Time = 8.538495E+05 days
2436 Date: 05/18/06 Time: 10:39:29 CPU Time: 0 0: 3:57.04 (237.04 sec) Binary
2438 Time Step No. = 1000 Elapsed Time = 1.041013E+06 days
2439 Date: 05/18/06 Time: 10:39:35 CPU Time: 0 0: 4: 3.73 (243.73 sec) Binary
2441 Time Step No. = 1020 Elapsed Time = 1.426013E+06 days
2442 Date: 05/18/06 Time: 10:39:41 CPU Time: 0 0: 4: 8.86 (248.86 sec) Binary
2444 Time Step No. = 1040 Elapsed Time = 1.569664E+06 days
2445 Date: 05/18/06 Time: 10:39:47 CPU Time: 0 0: 4:15.13 (255.13 sec) Binary
2447 Time Step No. = 1060 Elapsed Time = 1.838319E+06 days
2448 Date: 05/18/06 Time: 10:39:53 CPU Time: 0 0: 4:21.45 (261.45 sec) Binary
2450 Time Step No. = 1080 Elapsed Time = 2.081785E+06 days
2451 Date: 05/18/06 Time: 10:39:57 CPU Time: 0 0: 4:25.44 (265.44 sec) Binary
2453 Time Step No. = 1100 Elapsed Time = 2.372417E+06 days
2454 Date: 05/18/06 Time: 10:40:02 CPU Time: 0 0: 4:30.49 (270.49 sec) Binary
2456 Time Step No. = 1120 Elapsed Time = 2.772417E+06 days
2457 Date: 05/18/06 Time: 10:40:06 CPU Time: 0 0: 4:33.98 (273.98 sec) Binary
2459 Time Step No. = 1140 Elapsed Time = 3.172417E+06 days
2460 Date: 05/18/06 Time: 10:40:09 CPU Time: 0 0: 4:37.35 (277.35 sec) Binary
2462 Time Step No. = 1160 Elapsed Time = 3.572417E+06 days
2463 Date: 05/18/06 Time: 10:40:13 CPU Time: 0 0: 4:40.68 (280.68 sec) Binary
2466 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1

2628 CPU Time (this time step) = 0.07 sec = 0.00002 hr

2629 CPU Time (total for run) = 336.61 sec = 0.09350 hr

2630 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1

2482 CPU Time (this time step) = 0.06 sec = 0.00002 hr

2483 CPU Time (total for run) = 281.40 sec = 0.07817 hr

2484 *****

Information Only

```
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
3306 Date: 02/14/07 Time: 09:59:36 CPU Time: 0 0: 5:36.64 ( 336.64 sec) ASCII
3308 Time Step No. = 1165 Elapsed Time = 3.652431E+06 days
3309 Date: 02/14/07 Time: 09:59:36 CPU Time: 0 0: 5:36.64 ( 336.64 sec) Binary
3314 *****
3315 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3316 * Completed: 02/14/07 at 09:59:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3317 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
3160 Date: 05/18/06 Time: 10:40:13 CPU Time: 0 0: 4:41.41 ( 281.41 sec) ASCII
3162 Time Step No. = 1165 Elapsed Time = 3.652431E+06 days
3163 Date: 05/18/06 Time: 10:40:13 CPU Time: 0 0: 4:41.42 ( 281.42 sec) Binary
3168 *****
3169 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3170 * Completed: 05/18/06 at 10:40:13 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3171 *****
*****
```

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

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

BF2_QB0600_ES47_TEST7_V011_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3 ** Begun on: 02/14/07 at 09:54:06 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
2 ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3 ** Begun on: 05/18/06 at 10:35:58 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R011]BF2_TEST7_R011_QA0500.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R011]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.SUM;1
77 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R011]BF2_VMS82_V500_ES47_TEST7_R011.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R011]BF2_VMS82_V500_ES47_TEST7_R011.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
86 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R011]BF2_VMS82_V500_ES47_TEST7_R011.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
195 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
196 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
197 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
198 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
199 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
200 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
201 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
202 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
203 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
204 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
205 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
206 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
207 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
208 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
209 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
210 58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
211 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
212 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
213 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
214 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
215 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
216 64 0 0 CONCST Salt concentration -- simple model kg/m^3
217 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
218 66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
224 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
225 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
226 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
227 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
228 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
229 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
230 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
231 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
232 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
233 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241 89 0 0 CONCRKN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRKN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
```

243 91 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
247 95 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
248 96 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249 97 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264 112 0 0 H2OFLOWIN Water inflow rate kg/s
265 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271 119 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
272 120 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg
273 121 0 0 B_CONC(1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274 122 0 0 B_CONC(1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275 123 0 0 S_MASS(1,1) Solid mass of isotope 1 from Waste Region 1 kg
276 124 0 0 S_MASS(1,2) Solid mass of isotope 1 from Waste Region 2 kg
278

File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1

195 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200 48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201 49 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 50 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 51 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204 52 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205 53 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206 54 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207 55 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208 56 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209 57 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
216 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
217 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
218 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
224 72 0 0 CONCRXN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
225 73 0 0 CONCRXN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
226 74 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
227 75 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
228 76 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3


```
846 Borehole matl index number (MAT_BOREHOLE) = 0
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
869 instead of Input IC's for the Cavities
870 [0=No, 1=Yes] (ICWASTE) = 1
872 Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
873 Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
874 Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
875 Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
876 Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
877 Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
878 Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
879 Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
880 Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
881 Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
883 -----
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
851 instead of Input IC's for the Waste
852 [0=No, 1=Yes] (ICWASTE) = 1
854 Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
855 Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
856 Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
857 Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
859 -----
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
949 39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
950 TOL = 1.0000E-02
951 SOCEFFMIN = 1.0000E-03
953 Fracture model will be used? (KRACTURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
926 Fracture model will be used? (KRACTURE): T
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
1086 Intrinsic reaction rate constants? (LINTRIN): F
1088 Reaction rate constants (RK):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
1059 Reaction rate constants (RK):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
1096 MgO hydration reaction rate constants:
1097 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100 Gas generation factors for biodegradation reaction:
1101 Waste Area # 1
1102 H2/H2S production (RXH2S) = 6.797000E-01
1103 CO2 production (RXCO2) = 0.000000E+00
1105 Gas generation factors for biodegradation reaction:
1106 Waste Area # 2
1107 H2/H2S production (RXH2S) = 6.797000E-01
1108 CO2 production (RXCO2) = 0.000000E+00
1110 Saturation cutoff value (SOCMIN): 0.000000E+00
1112 Stoichiometric coeff's for Rxn 1:
1113 H2 coefficient = 1.060400E+00
1114 H2O coefficient = -1.879200E+00
1115 Fe coefficient = -1.000000E+00
1116 Bio coefficient = 0.000000E+00
1117 Fe(OH)2 coefficient = 0.000000E+00
1118 FeS coefficient = 0.000000E+00
1119 MgO coefficient = 0.000000E+00
1120 Mg(OH)2 coefficient = 0.000000E+00
1121 MgCO3 coefficient = 0.000000E+00
```

```
1123 Stoichiometric coeff's for Rxn 2:
1124 H2 coefficient = 6.797000E-01
1125 H2O coefficient = 0.000000E+00
1126 Fe coefficient = 0.000000E+00
1127 Bio coefficient = -1.000000E+00
1128 Fe(OH)2 coefficient = 0.000000E+00
1129 FeS coefficient = 0.000000E+00
1130 MgO coefficient = 0.000000E+00
1131 Mg(OH)2 coefficient = 0.000000E+00
1132 MgCO3 coefficient = 0.000000E+00
1134 Stoichiometric coeff's for Rxn 3:
1135 H2 coefficient = 0.000000E+00
1136 H2O coefficient = 0.000000E+00
1137 Fe coefficient = 0.000000E+00
1138 Bio coefficient = 0.000000E+00
1139 Fe(OH)2 coefficient = 0.000000E+00
1140 FeS coefficient = 0.000000E+00
1141 MgO coefficient = 0.000000E+00
1142 Mg(OH)2 coefficient = 0.000000E+00
1143 MgCO3 coefficient = 0.000000E+00
1145 Stoichiometric coeff's for Rxn 4:
1146 H2 coefficient = 0.000000E+00
1147 H2O coefficient = 0.000000E+00
1148 Fe coefficient = 0.000000E+00
1149 Bio coefficient = 0.000000E+00
1150 Fe(OH)2 coefficient = 0.000000E+00
1151 FeS coefficient = 0.000000E+00
1152 MgO coefficient = 0.000000E+00
1153 Mg(OH)2 coefficient = 0.000000E+00
1154 MgCO3 coefficient = 0.000000E+00
1156 Stoichiometric coeff's for Rxn 5:
1157 H2 coefficient = 0.000000E+00
1158 H2O coefficient = 0.000000E+00
1159 Fe coefficient = 0.000000E+00
1160 Bio coefficient = 0.000000E+00
1161 Fe(OH)2 coefficient = 0.000000E+00
1162 FeS coefficient = 0.000000E+00
1163 MgO coefficient = 0.000000E+00
1164 Mg(OH)2 coefficient = 0.000000E+00
1165 MgCO3 coefficient = 0.000000E+00
1167 Stoichiometric coeff's for Rxn 6:
1168 H2 coefficient = 0.000000E+00
1169 H2O coefficient = 0.000000E+00
1170 Fe coefficient = 0.000000E+00
1171 Bio coefficient = 0.000000E+00
1172 Fe(OH)2 coefficient = 0.000000E+00
1173 FeS coefficient = 0.000000E+00
1174 MgO coefficient = 0.000000E+00
1175 Mg(OH)2 coefficient = 0.000000E+00
1176 MgCO3 coefficient = 0.000000E+00
1178 Stoichiometric coeff's for Rxn 7:
1179 H2 coefficient = 0.000000E+00
1180 H2O coefficient = 0.000000E+00
1181 Fe coefficient = 0.000000E+00
1182 Bio coefficient = 0.000000E+00
1183 Fe(OH)2 coefficient = 0.000000E+00
1184 FeS coefficient = 0.000000E+00
1185 MgO coefficient = 0.000000E+00
1186 Mg(OH)2 coefficient = 0.000000E+00
1187 MgCO3 coefficient = 0.000000E+00
1189 Wicking term (SATWICK) = 0.000000E+00
1190 Humid rates to be smoothed? (LARKN) = T
1191 Concentration rates to be smoothed? (LARKN2) = F
1192 Humid rate smoothing factor (ALPHARKN) = 1.000000E+03
1194 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
1067 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068 Gas coefficient = 1.060400E+00
1069 H2O coefficient = 1.879200E+00
```

1070 Fe coefficient = 1.000000E+00
1072 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073 Gas coefficient = 6.797000E-01
1074 H2O coefficient = 0.000000E+00
1075 Bio coefficient = 1.000000E+00
1077 Molecular weights (WM):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1

1200 **Molecular weights (WM):**
1201 **Fe(OH)2: 8.9862E-02 kg/mol**
1202 **FeS: 8.7900E-02 kg/mol**
1203 **MgO: 4.0304E-02 kg/mol**
1204 **Mg(OH)2: 5.8320E-02 kg/mol**
1205 **MgCO3: 8.4314E-02 kg/mol**
1207 **Densities (DEN(1-4)):**
1208 **Fe: 7.8700E+03 kg/m3**
1209 **Fe(OH)2: 3.4000E+03 kg/m3**
1210 **FeS: 4.7000E+03 kg/m3**
1211 **Bio: 1.1000E+03 kg/m3**
1213 **Densities (DEN(5-8)):**
1214 **MgO: 3.6000E+03 kg/m3**
1215 **Mg(OH)2: 2.3700E+03 kg/m3**
1216 **MgCO3: 3.0500E+03 kg/m3**
1217 **SALT: 2.1700E+03 kg/m3**
1219 Will creep closure be used (CLOSURE): T

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1

1083 Wicking term (SATWICK) = 0.000000E+00
1084 Humid rates to be smoothed? (LARXN) = T
1085 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1087 Will creep closure be used (CLOSURE): T

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1

1233 **PHIUPPER = Upper porosity limit in permeability-porosity expression**
1234 **PHILOWER = Lower porosity limit in permeability-porosity expression**
1235 **Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]**
1236 **Refer to the Closure LOOK-UP TABLE DATA FILE for values**
1237 **4 1.480000E+07 3.155700E+12 1 F**
1238 **MODPERM Parameters**
1239 **Model Number (CLOSPERFACT) [m^2] (CLOSPERMEXP) [-]**
1240 **4 5.584700E-12 0.000000E+00**
1242 Number of materials using closure (NMATCLOS) = 2

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1

1101 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERFACT) [m^2] (CLOSPERMEXP) [-]
1102 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1103 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105 Number of materials using closure (NMATCLOS) = 2

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1

1260 ***** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00**
1263 ***** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00**
1266 ***** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00**
1269 ***** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01**
1272 ***** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01**
1276

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1

1123 ***** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00**
1126 ***** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00**
1130

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1

1300 **57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00**
1301 **58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00**


```
1303 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
1154 47 BECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1155 48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1157 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
1772 CPU Time (this time step) = 0.14 sec = 0.00004 hr
1773 CPU Time (total for run) = 25.63 sec = 0.00712 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
1626 CPU Time (this time step) = 0.12 sec = 0.00003 hr
1627 CPU Time (total for run) = 21.87 sec = 0.00608 hr
1628 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
2450 Date: 02/14/07 Time: 09:54:32 CPU Time: 0 0: 0:25.64 ( 25.64 sec) ASCII
2452 Time Step No. = 142 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:54:32 CPU Time: 0 0: 0:25.65 ( 25.65 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 1.064671E-03 days
2456 Date: 02/14/07 Time: 09:54:35 CPU Time: 0 0: 0:29.24 ( 29.24 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 9.402002E-02 days
2459 Date: 02/14/07 Time: 09:54:38 CPU Time: 0 0: 0:32.57 ( 32.57 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 5.514852E+00 days
2462 Date: 02/14/07 Time: 09:54:42 CPU Time: 0 0: 0:35.90 ( 35.90 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 2.178362E+02 days
2465 Date: 02/14/07 Time: 09:54:46 CPU Time: 0 0: 0:40.05 ( 40.05 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 2.221380E+03 days
2468 Date: 02/14/07 Time: 09:54:52 CPU Time: 0 0: 0:46.31 ( 46.31 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 5.532745E+03 days
2471 Date: 02/14/07 Time: 09:55:00 CPU Time: 0 0: 0:54.27 ( 54.27 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 5.850050E+03 days
2474 Date: 02/14/07 Time: 09:55:06 CPU Time: 0 0: 0:59.92 ( 59.92 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 7.163773E+03 days
2477 Date: 02/14/07 Time: 09:55:13 CPU Time: 0 0: 1: 7.39 ( 67.39 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 7.646916E+03 days
2480 Date: 02/14/07 Time: 09:55:20 CPU Time: 0 0: 1:13.55 ( 73.55 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 8.451464E+03 days
2483 Date: 02/14/07 Time: 09:55:24 CPU Time: 0 0: 1:18.35 ( 78.35 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 8.495154E+03 days
2486 Date: 02/14/07 Time: 09:55:30 CPU Time: 0 0: 1:23.72 ( 83.72 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 8.550791E+03 days
2489 Date: 02/14/07 Time: 09:55:35 CPU Time: 0 0: 1:28.46 ( 88.46 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 8.902588E+03 days
2492 Date: 02/14/07 Time: 09:55:40 CPU Time: 0 0: 1:34.02 ( 94.02 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 1.392947E+04 days
2495 Date: 02/14/07 Time: 09:55:46 CPU Time: 0 0: 1:39.96 ( 99.96 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 1.478125E+04 days
2498 Date: 02/14/07 Time: 09:55:52 CPU Time: 0 0: 1:45.40 ( 105.40 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 1.657464E+04 days
2501 Date: 02/14/07 Time: 09:55:57 CPU Time: 0 0: 1:51.29 ( 111.29 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 1.869145E+04 days
2504 Date: 02/14/07 Time: 09:56:05 CPU Time: 0 0: 1:58.40 ( 118.40 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 1.980385E+04 days
2507 Date: 02/14/07 Time: 09:56:10 CPU Time: 0 0: 2: 3.52 ( 123.52 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 2.165433E+04 days
2510 Date: 02/14/07 Time: 09:56:17 CPU Time: 0 0: 2:10.59 ( 130.59 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 2.189594E+04 days
2513 Date: 02/14/07 Time: 09:56:23 CPU Time: 0 0: 2:17.18 ( 137.18 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 2.219046E+04 days
2516 Date: 02/14/07 Time: 09:56:30 CPU Time: 0 0: 2:23.84 ( 143.84 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 2.441063E+04 days
2519 Date: 02/14/07 Time: 09:56:35 CPU Time: 0 0: 2:28.71 ( 148.71 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 2.696736E+04 days
2522 Date: 02/14/07 Time: 09:56:42 CPU Time: 0 0: 2:35.49 ( 155.49 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 3.055720E+04 days
2525 Date: 02/14/07 Time: 09:56:49 CPU Time: 0 0: 2:42.17 ( 162.17 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 3.382226E+04 days
2528 Date: 02/14/07 Time: 09:56:54 CPU Time: 0 0: 2:47.54 ( 167.54 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 3.652433E+04 days
2531 Date: 02/14/07 Time: 09:57:02 CPU Time: 0 0: 2:55.35 ( 175.35 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 3.652532E+04 days
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2534 Date: 02/14/07 Time: 09:57:05 CPU Time: 0 0: 2:58.07 (178.07 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 3.656608E+04 days
2537 Date: 02/14/07 Time: 09:57:08 CPU Time: 0 0: 3: 1.55 (181.55 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 3.665527E+04 days
2540 Date: 02/14/07 Time: 09:57:11 CPU Time: 0 0: 3: 4.02 (184.02 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 3.669519E+04 days
2543 Date: 02/14/07 Time: 09:57:13 CPU Time: 0 0: 3: 6.38 (186.38 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 3.766504E+04 days
2546 Date: 02/14/07 Time: 09:57:18 CPU Time: 0 0: 3:10.97 (190.97 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.934114E+04 days
2549 Date: 02/14/07 Time: 09:57:27 CPU Time: 0 0: 3:20.67 (200.67 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.965251E+04 days
2552 Date: 02/14/07 Time: 09:57:33 CPU Time: 0 0: 3:26.52 (206.52 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 4.316593E+04 days
2555 Date: 02/14/07 Time: 09:57:38 CPU Time: 0 0: 3:31.59 (211.59 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 4.553491E+04 days
2558 Date: 02/14/07 Time: 09:57:44 CPU Time: 0 0: 3:36.92 (216.92 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 4.659621E+04 days
2561 Date: 02/14/07 Time: 09:57:50 CPU Time: 0 0: 3:43.38 (223.38 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 4.893931E+04 days
2564 Date: 02/14/07 Time: 09:57:55 CPU Time: 0 0: 3:48.11 (228.11 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 5.227856E+04 days
2567 Date: 02/14/07 Time: 09:58:02 CPU Time: 0 0: 3:54.29 (234.29 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 5.601875E+04 days
2570 Date: 02/14/07 Time: 09:58:07 CPU Time: 0 0: 3:59.43 (239.43 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 6.489817E+04 days
2573 Date: 02/14/07 Time: 09:58:15 CPU Time: 0 0: 4: 7.20 (247.20 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 8.093757E+04 days
2576 Date: 02/14/07 Time: 09:58:21 CPU Time: 0 0: 4:14.05 (254.05 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 9.509876E+04 days
2579 Date: 02/14/07 Time: 09:58:28 CPU Time: 0 0: 4:20.44 (260.44 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 1.828252E+05 days
2582 Date: 02/14/07 Time: 09:58:36 CPU Time: 0 0: 4:28.01 (268.01 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 1.900656E+05 days
2585 Date: 02/14/07 Time: 09:58:45 CPU Time: 0 0: 4:36.92 (276.92 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 1.905214E+05 days
2588 Date: 02/14/07 Time: 09:58:51 CPU Time: 0 0: 4:43.71 (283.71 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 1.961906E+05 days
2591 Date: 02/14/07 Time: 09:58:56 CPU Time: 0 0: 4:48.46 (288.46 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 2.299386E+05 days
2594 Date: 02/14/07 Time: 09:59:04 CPU Time: 0 0: 4:55.72 (295.72 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 2.596134E+05 days
2597 Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 5: 2.33 (302.33 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 3.652468E+05 days
2600 Date: 02/14/07 Time: 09:59:19 CPU Time: 0 0: 5:10.69 (310.69 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 3.653374E+05 days
2603 Date: 02/14/07 Time: 09:59:22 CPU Time: 0 0: 5:14.53 (314.53 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 3.666344E+05 days
2606 Date: 02/14/07 Time: 09:59:28 CPU Time: 0 0: 5:19.36 (319.36 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 3.666427E+05 days
2609 Date: 02/14/07 Time: 09:59:29 CPU Time: 0 0: 5:20.89 (320.89 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 3.673690E+05 days
2612 Date: 02/14/07 Time: 09:59:33 CPU Time: 0 0: 5:24.49 (324.49 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 3.729208E+05 days
2615 Date: 02/14/07 Time: 09:59:39 CPU Time: 0 0: 5:30.69 (330.69 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 4.158995E+05 days
2618 Date: 02/14/07 Time: 09:59:47 CPU Time: 0 0: 5:38.82 (338.82 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 5.845356E+05 days
2621 Date: 02/14/07 Time: 09:59:56 CPU Time: 0 0: 5:47.21 (347.21 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 6.132993E+05 days
2624 Date: 02/14/07 Time: 10:00:02 CPU Time: 0 0: 5:53.95 (353.95 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 7.292501E+05 days
2627 Date: 02/14/07 Time: 10:00:10 CPU Time: 0 0: 6: 1.41 (361.41 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 8.282454E+05 days
2630 Date: 02/14/07 Time: 10:00:20 CPU Time: 0 0: 6:11.96 (371.96 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 9.166550E+05 days
2633 Date: 02/14/07 Time: 10:00:28 CPU Time: 0 0: 6:19.81 (379.81 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 1.068826E+06 days
2636 Date: 02/14/07 Time: 10:00:36 CPU Time: 0 0: 6:27.79 (387.79 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 1.100765E+06 days
2639 Date: 02/14/07 Time: 10:00:42 CPU Time: 0 0: 6:33.15 (393.15 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 1.227518E+06 days
2642 Date: 02/14/07 Time: 10:00:50 CPU Time: 0 0: 6:41.25 (401.25 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 1.298193E+06 days
2645 Date: 02/14/07 Time: 10:00:58 CPU Time: 0 0: 6:49.28 (409.28 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 1.579761E+06 days

2648 Date: 02/14/07 Time: 10:01:06 CPU Time: 0 0: 6:57.14 (417.14 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 1.705411E+06 days
2651 Date: 02/14/07 Time: 10:01:14 CPU Time: 0 0: 7: 5.45 (425.45 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 1.791793E+06 days
2654 Date: 02/14/07 Time: 10:01:22 CPU Time: 0 0: 7:13.70 (433.70 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 1.801222E+06 days
2657 Date: 02/14/07 Time: 10:01:31 CPU Time: 0 0: 7:22.72 (442.72 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 1.841044E+06 days
2660 Date: 02/14/07 Time: 10:01:38 CPU Time: 0 0: 7:29.05 (449.05 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 1.955743E+06 days
2663 Date: 02/14/07 Time: 10:01:47 CPU Time: 0 0: 7:38.61 (458.61 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 1.990221E+06 days
2666 Date: 02/14/07 Time: 10:01:54 CPU Time: 0 0: 7:44.88 (464.88 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 2.118411E+06 days
2669 Date: 02/14/07 Time: 10:02:01 CPU Time: 0 0: 7:52.53 (472.53 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 2.133494E+06 days
2672 Date: 02/14/07 Time: 10:02:10 CPU Time: 0 0: 8: 1.38 (481.38 sec) Binary
2674 Time Step No. = 1620 Elapsed Time = 2.148308E+06 days
2675 Date: 02/14/07 Time: 10:02:17 CPU Time: 0 0: 8: 8.59 (488.59 sec) Binary
2677 Time Step No. = 1640 Elapsed Time = 2.159609E+06 days
2678 Date: 02/14/07 Time: 10:02:25 CPU Time: 0 0: 8:15.77 (495.77 sec) Binary
2680 Time Step No. = 1660 Elapsed Time = 2.165261E+06 days
2681 Date: 02/14/07 Time: 10:02:34 CPU Time: 0 0: 8:25.54 (505.54 sec) Binary
2683 Time Step No. = 1680 Elapsed Time = 2.170603E+06 days
2684 Date: 02/14/07 Time: 10:02:43 CPU Time: 0 0: 8:33.74 (513.74 sec) Binary
2686 Time Step No. = 1700 Elapsed Time = 2.174318E+06 days
2687 Date: 02/14/07 Time: 10:02:49 CPU Time: 0 0: 8:39.90 (519.90 sec) Binary
2689 Time Step No. = 1720 Elapsed Time = 2.176154E+06 days
2690 Date: 02/14/07 Time: 10:02:56 CPU Time: 0 0: 8:46.64 (526.64 sec) Binary
2692 Time Step No. = 1740 Elapsed Time = 2.179173E+06 days
2693 Date: 02/14/07 Time: 10:03:01 CPU Time: 0 0: 8:52.00 (532.00 sec) Binary
2695 Time Step No. = 1760 Elapsed Time = 2.198642E+06 days
2696 Date: 02/14/07 Time: 10:03:09 CPU Time: 0 0: 8:59.23 (539.23 sec) Binary
2698 Time Step No. = 1780 Elapsed Time = 2.238214E+06 days
2699 Date: 02/14/07 Time: 10:03:13 CPU Time: 0 0: 9: 4.11 (544.11 sec) Binary
2701 Time Step No. = 1800 Elapsed Time = 2.265291E+06 days
2702 Date: 02/14/07 Time: 10:03:21 CPU Time: 0 0: 9:11.98 (551.98 sec) Binary
2704 Time Step No. = 1820 Elapsed Time = 2.290810E+06 days
2705 Date: 02/14/07 Time: 10:03:30 CPU Time: 0 0: 9:20.52 (560.52 sec) Binary
2707 Time Step No. = 1840 Elapsed Time = 2.381658E+06 days
2708 Date: 02/14/07 Time: 10:03:35 CPU Time: 0 0: 9:25.86 (565.86 sec) Binary
2710 Time Step No. = 1860 Elapsed Time = 2.781658E+06 days
2711 Date: 02/14/07 Time: 10:03:40 CPU Time: 0 0: 9:30.25 (570.25 sec) Binary
2713 Time Step No. = 1880 Elapsed Time = 3.181658E+06 days
2714 Date: 02/14/07 Time: 10:03:44 CPU Time: 0 0: 9:34.48 (574.48 sec) Binary
2716 Time Step No. = 1900 Elapsed Time = 3.581658E+06 days
2717 Date: 02/14/07 Time: 10:03:48 CPU Time: 0 0: 9:38.73 (578.73 sec) Binary
2720 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
2304 Date: 05/18/06 Time: 10:36:19 CPU Time: 0 0: 0:21.89 (21.89 sec) ASCII
2306 Time Step No. = 142 Elapsed Time = 0.000000E+00 days
2307 Date: 05/18/06 Time: 10:36:19 CPU Time: 0 0: 0:21.89 (21.89 sec) Binary
2309 Time Step No. = 160 Elapsed Time = 1.064671E-03 days
2310 Date: 05/18/06 Time: 10:36:22 CPU Time: 0 0: 0:24.83 (24.83 sec) Binary
2312 Time Step No. = 180 Elapsed Time = 9.402002E-02 days
2313 Date: 05/18/06 Time: 10:36:25 CPU Time: 0 0: 0:27.37 (27.37 sec) Binary
2315 Time Step No. = 200 Elapsed Time = 5.514852E+00 days
2316 Date: 05/18/06 Time: 10:36:28 CPU Time: 0 0: 0:30.06 (30.06 sec) Binary
2318 Time Step No. = 220 Elapsed Time = 2.178362E+02 days
2319 Date: 05/18/06 Time: 10:36:31 CPU Time: 0 0: 0:33.50 (33.50 sec) Binary
2321 Time Step No. = 240 Elapsed Time = 2.221380E+03 days
2322 Date: 05/18/06 Time: 10:36:36 CPU Time: 0 0: 0:38.58 (38.58 sec) Binary
2324 Time Step No. = 260 Elapsed Time = 5.532745E+03 days
2325 Date: 05/18/06 Time: 10:36:43 CPU Time: 0 0: 0:45.21 (45.21 sec) Binary
2327 Time Step No. = 280 Elapsed Time = 5.850050E+03 days
2328 Date: 05/18/06 Time: 10:36:47 CPU Time: 0 0: 0:49.76 (49.76 sec) Binary
2330 Time Step No. = 300 Elapsed Time = 7.163773E+03 days
2331 Date: 05/18/06 Time: 10:36:54 CPU Time: 0 0: 0:55.89 (55.89 sec) Binary
2333 Time Step No. = 320 Elapsed Time = 7.646916E+03 days
2334 Date: 05/18/06 Time: 10:36:59 CPU Time: 0 0: 1: 1.23 (61.23 sec) Binary
2336 Time Step No. = 340 Elapsed Time = 8.451464E+03 days
2337 Date: 05/18/06 Time: 10:37:03 CPU Time: 0 0: 1: 5.54 (65.54 sec) Binary
2339 Time Step No. = 360 Elapsed Time = 8.495154E+03 days
2340 Date: 05/18/06 Time: 10:37:08 CPU Time: 0 0: 1:10.35 (70.35 sec) Binary
2342 Time Step No. = 380 Elapsed Time = 8.550791E+03 days

2343 Date: 05/18/06 Time: 10:37:12 CPU Time: 0 0: 1:14.64 (74.64 sec) Binary
2345 Time Step No. = 400 Elapsed Time = 8.902588E+03 days
2346 Date: 05/18/06 Time: 10:37:17 CPU Time: 0 0: 1:19.67 (79.67 sec) Binary
2348 Time Step No. = 420 Elapsed Time = 1.392947E+04 days
2349 Date: 05/18/06 Time: 10:37:23 CPU Time: 0 0: 1:25.04 (85.04 sec) Binary
2351 Time Step No. = 440 Elapsed Time = 1.478125E+04 days
2352 Date: 05/18/06 Time: 10:37:28 CPU Time: 0 0: 1:29.97 (89.97 sec) Binary
2354 Time Step No. = 460 Elapsed Time = 1.657464E+04 days
2355 Date: 05/18/06 Time: 10:37:33 CPU Time: 0 0: 1:35.28 (95.28 sec) Binary
2357 Time Step No. = 480 Elapsed Time = 1.869145E+04 days
2358 Date: 05/18/06 Time: 10:37:40 CPU Time: 0 0: 1:41.74 (101.74 sec) Binary
2360 Time Step No. = 500 Elapsed Time = 1.980385E+04 days
2361 Date: 05/18/06 Time: 10:37:44 CPU Time: 0 0: 1:46.09 (106.09 sec) Binary
2363 Time Step No. = 520 Elapsed Time = 2.165433E+04 days
2364 Date: 05/18/06 Time: 10:37:49 CPU Time: 0 0: 1:51.59 (111.59 sec) Binary
2366 Time Step No. = 540 Elapsed Time = 2.189594E+04 days
2367 Date: 05/18/06 Time: 10:37:54 CPU Time: 0 0: 1:56.66 (116.66 sec) Binary
2369 Time Step No. = 560 Elapsed Time = 2.219046E+04 days
2370 Date: 05/18/06 Time: 10:38:00 CPU Time: 0 0: 2: 2.11 (122.11 sec) Binary
2372 Time Step No. = 580 Elapsed Time = 2.441063E+04 days
2373 Date: 05/18/06 Time: 10:38:04 CPU Time: 0 0: 2: 6.22 (126.22 sec) Binary
2375 Time Step No. = 600 Elapsed Time = 2.696736E+04 days
2376 Date: 05/18/06 Time: 10:38:10 CPU Time: 0 0: 2:11.87 (131.87 sec) Binary
2378 Time Step No. = 620 Elapsed Time = 3.055720E+04 days
2379 Date: 05/18/06 Time: 10:38:15 CPU Time: 0 0: 2:17.36 (137.36 sec) Binary
2381 Time Step No. = 640 Elapsed Time = 3.382226E+04 days
2382 Date: 05/18/06 Time: 10:38:20 CPU Time: 0 0: 2:21.78 (141.78 sec) Binary
2384 Time Step No. = 660 Elapsed Time = 3.652433E+04 days
2385 Date: 05/18/06 Time: 10:38:26 CPU Time: 0 0: 2:28.16 (148.16 sec) Binary
2387 Time Step No. = 680 Elapsed Time = 3.652532E+04 days
2388 Date: 05/18/06 Time: 10:38:28 CPU Time: 0 0: 2:30.42 (150.42 sec) Binary
2390 Time Step No. = 700 Elapsed Time = 3.656608E+04 days
2391 Date: 05/18/06 Time: 10:38:31 CPU Time: 0 0: 2:33.29 (153.29 sec) Binary
2393 Time Step No. = 720 Elapsed Time = 3.665527E+04 days
2394 Date: 05/18/06 Time: 10:38:33 CPU Time: 0 0: 2:35.34 (155.34 sec) Binary
2396 Time Step No. = 740 Elapsed Time = 3.669519E+04 days
2397 Date: 05/18/06 Time: 10:38:35 CPU Time: 0 0: 2:37.27 (157.27 sec) Binary
2399 Time Step No. = 760 Elapsed Time = 3.766504E+04 days
2400 Date: 05/18/06 Time: 10:38:39 CPU Time: 0 0: 2:41.05 (161.05 sec) Binary
2402 Time Step No. = 780 Elapsed Time = 3.934114E+04 days
2403 Date: 05/18/06 Time: 10:38:47 CPU Time: 0 0: 2:49.37 (169.37 sec) Binary
2405 Time Step No. = 800 Elapsed Time = 3.965251E+04 days
2406 Date: 05/18/06 Time: 10:38:52 CPU Time: 0 0: 2:54.45 (174.45 sec) Binary
2408 Time Step No. = 820 Elapsed Time = 4.316593E+04 days
2409 Date: 05/18/06 Time: 10:38:57 CPU Time: 0 0: 2:58.82 (178.82 sec) Binary
2411 Time Step No. = 840 Elapsed Time = 4.553491E+04 days
2412 Date: 05/18/06 Time: 10:39:01 CPU Time: 0 0: 3: 3.16 (183.16 sec) Binary
2414 Time Step No. = 860 Elapsed Time = 4.659621E+04 days
2415 Date: 05/18/06 Time: 10:39:06 CPU Time: 0 0: 3: 8.40 (188.40 sec) Binary
2417 Time Step No. = 880 Elapsed Time = 4.893931E+04 days
2418 Date: 05/18/06 Time: 10:39:10 CPU Time: 0 0: 3:12.26 (192.26 sec) Binary
2420 Time Step No. = 900 Elapsed Time = 5.227856E+04 days
2421 Date: 05/18/06 Time: 10:39:15 CPU Time: 0 0: 3:17.31 (197.31 sec) Binary
2423 Time Step No. = 920 Elapsed Time = 5.601875E+04 days
2424 Date: 05/18/06 Time: 10:39:20 CPU Time: 0 0: 3:21.48 (201.48 sec) Binary
2426 Time Step No. = 940 Elapsed Time = 6.489817E+04 days
2427 Date: 05/18/06 Time: 10:39:26 CPU Time: 0 0: 3:27.84 (207.84 sec) Binary
2429 Time Step No. = 960 Elapsed Time = 8.093757E+04 days
2430 Date: 05/18/06 Time: 10:39:32 CPU Time: 0 0: 3:33.47 (213.47 sec) Binary
2432 Time Step No. = 980 Elapsed Time = 9.509876E+04 days
2433 Date: 05/18/06 Time: 10:39:37 CPU Time: 0 0: 3:38.69 (218.69 sec) Binary
2435 Time Step No. = 1000 Elapsed Time = 1.828252E+05 days
2436 Date: 05/18/06 Time: 10:39:43 CPU Time: 0 0: 3:44.87 (224.87 sec) Binary
2438 Time Step No. = 1020 Elapsed Time = 1.900656E+05 days
2439 Date: 05/18/06 Time: 10:39:51 CPU Time: 0 0: 3:52.66 (232.66 sec) Binary
2441 Time Step No. = 1040 Elapsed Time = 1.905214E+05 days
2442 Date: 05/18/06 Time: 10:39:57 CPU Time: 0 0: 3:58.45 (238.45 sec) Binary
2444 Time Step No. = 1060 Elapsed Time = 1.961906E+05 days
2445 Date: 05/18/06 Time: 10:40:00 CPU Time: 0 0: 4: 2.34 (242.34 sec) Binary
2447 Time Step No. = 1080 Elapsed Time = 2.299386E+05 days
2448 Date: 05/18/06 Time: 10:40:06 CPU Time: 0 0: 4: 8.35 (248.35 sec) Binary
2450 Time Step No. = 1100 Elapsed Time = 2.596134E+05 days
2451 Date: 05/18/06 Time: 10:40:12 CPU Time: 0 0: 4:13.78 (253.78 sec) Binary
2453 Time Step No. = 1120 Elapsed Time = 3.652468E+05 days
2454 Date: 05/18/06 Time: 10:40:19 CPU Time: 0 0: 4:20.58 (260.58 sec) Binary
2456 Time Step No. = 1140 Elapsed Time = 3.653374E+05 days

2457 Date: 05/18/06 Time: 10:40:22 CPU Time: 0 0: 4:23.71 (263.71 sec) Binary
2459 Time Step No. = 1160 Elapsed Time = 3.666344E+05 days
2460 Date: 05/18/06 Time: 10:40:26 CPU Time: 0 0: 4:27.63 (267.63 sec) Binary
2462 Time Step No. = 1180 Elapsed Time = 3.666427E+05 days
2463 Date: 05/18/06 Time: 10:40:27 CPU Time: 0 0: 4:28.89 (268.89 sec) Binary
2465 Time Step No. = 1200 Elapsed Time = 3.673690E+05 days
2466 Date: 05/18/06 Time: 10:40:30 CPU Time: 0 0: 4:31.83 (271.83 sec) Binary
2468 Time Step No. = 1220 Elapsed Time = 3.729208E+05 days
2469 Date: 05/18/06 Time: 10:40:35 CPU Time: 0 0: 4:36.89 (276.89 sec) Binary
2471 Time Step No. = 1240 Elapsed Time = 4.158995E+05 days
2472 Date: 05/18/06 Time: 10:40:42 CPU Time: 0 0: 4:43.93 (283.93 sec) Binary
2474 Time Step No. = 1260 Elapsed Time = 5.845356E+05 days
2475 Date: 05/18/06 Time: 10:40:49 CPU Time: 0 0: 4:51.15 (291.15 sec) Binary
2477 Time Step No. = 1280 Elapsed Time = 6.132993E+05 days
2478 Date: 05/18/06 Time: 10:40:55 CPU Time: 0 0: 4:56.59 (296.59 sec) Binary
2480 Time Step No. = 1300 Elapsed Time = 7.292501E+05 days
2481 Date: 05/18/06 Time: 10:41:01 CPU Time: 0 0: 5: 2.63 (302.63 sec) Binary
2483 Time Step No. = 1320 Elapsed Time = 8.282454E+05 days
2484 Date: 05/18/06 Time: 10:41:09 CPU Time: 0 0: 5:11.20 (311.20 sec) Binary
2486 Time Step No. = 1340 Elapsed Time = 9.166550E+05 days
2487 Date: 05/18/06 Time: 10:41:16 CPU Time: 0 0: 5:17.58 (317.58 sec) Binary
2489 Time Step No. = 1360 Elapsed Time = 1.068826E+06 days
2490 Date: 05/18/06 Time: 10:41:22 CPU Time: 0 0: 5:24.06 (324.06 sec) Binary
2492 Time Step No. = 1380 Elapsed Time = 1.100765E+06 days
2493 Date: 05/18/06 Time: 10:41:27 CPU Time: 0 0: 5:28.35 (328.35 sec) Binary
2495 Time Step No. = 1400 Elapsed Time = 1.227518E+06 days
2496 Date: 05/18/06 Time: 10:41:33 CPU Time: 0 0: 5:34.78 (334.78 sec) Binary
2498 Time Step No. = 1420 Elapsed Time = 1.298193E+06 days
2499 Date: 05/18/06 Time: 10:41:39 CPU Time: 0 0: 5:41.15 (341.15 sec) Binary
2501 Time Step No. = 1440 Elapsed Time = 1.579761E+06 days
2502 Date: 05/18/06 Time: 10:41:46 CPU Time: 0 0: 5:47.33 (347.33 sec) Binary
2504 Time Step No. = 1460 Elapsed Time = 1.705411E+06 days
2505 Date: 05/18/06 Time: 10:41:52 CPU Time: 0 0: 5:53.89 (353.89 sec) Binary
2507 Time Step No. = 1480 Elapsed Time = 1.791793E+06 days
2508 Date: 05/18/06 Time: 10:41:59 CPU Time: 0 0: 6: 0.40 (360.40 sec) Binary
2510 Time Step No. = 1500 Elapsed Time = 1.801222E+06 days
2511 Date: 05/18/06 Time: 10:42:06 CPU Time: 0 0: 6: 7.54 (367.54 sec) Binary
2513 Time Step No. = 1520 Elapsed Time = 1.841044E+06 days
2514 Date: 05/18/06 Time: 10:42:11 CPU Time: 0 0: 6:12.54 (372.54 sec) Binary
2516 Time Step No. = 1540 Elapsed Time = 1.955743E+06 days
2517 Date: 05/18/06 Time: 10:42:19 CPU Time: 0 0: 6:20.22 (380.22 sec) Binary
2519 Time Step No. = 1560 Elapsed Time = 1.990221E+06 days
2520 Date: 05/18/06 Time: 10:42:24 CPU Time: 0 0: 6:25.62 (385.62 sec) Binary
2522 Time Step No. = 1580 Elapsed Time = 2.118411E+06 days
2523 Date: 05/18/06 Time: 10:42:31 CPU Time: 0 0: 6:32.22 (392.22 sec) Binary
2525 Time Step No. = 1600 Elapsed Time = 2.133494E+06 days
2526 Date: 05/18/06 Time: 10:42:38 CPU Time: 0 0: 6:39.73 (399.73 sec) Binary
2528 Time Step No. = 1620 Elapsed Time = 2.148308E+06 days
2529 Date: 05/18/06 Time: 10:42:44 CPU Time: 0 0: 6:45.66 (405.66 sec) Binary
2531 Time Step No. = 1640 Elapsed Time = 2.159609E+06 days
2532 Date: 05/18/06 Time: 10:42:50 CPU Time: 0 0: 6:51.40 (411.40 sec) Binary
2534 Time Step No. = 1660 Elapsed Time = 2.165261E+06 days
2535 Date: 05/18/06 Time: 10:42:58 CPU Time: 0 0: 6:59.62 (419.62 sec) Binary
2537 Time Step No. = 1680 Elapsed Time = 2.170603E+06 days
2538 Date: 05/18/06 Time: 10:43:05 CPU Time: 0 0: 7: 6.78 (426.78 sec) Binary
2540 Time Step No. = 1700 Elapsed Time = 2.174318E+06 days
2541 Date: 05/18/06 Time: 10:43:11 CPU Time: 0 0: 7:12.18 (432.18 sec) Binary
2543 Time Step No. = 1720 Elapsed Time = 2.176154E+06 days
2544 Date: 05/18/06 Time: 10:43:17 CPU Time: 0 0: 7:18.02 (438.02 sec) Binary
2546 Time Step No. = 1740 Elapsed Time = 2.179173E+06 days
2547 Date: 05/18/06 Time: 10:43:21 CPU Time: 0 0: 7:22.67 (442.67 sec) Binary
2549 Time Step No. = 1760 Elapsed Time = 2.198642E+06 days
2550 Date: 05/18/06 Time: 10:43:28 CPU Time: 0 0: 7:28.92 (448.92 sec) Binary
2552 Time Step No. = 1780 Elapsed Time = 2.238214E+06 days
2553 Date: 05/18/06 Time: 10:43:32 CPU Time: 0 0: 7:33.01 (453.01 sec) Binary
2555 Time Step No. = 1800 Elapsed Time = 2.265291E+06 days
2556 Date: 05/18/06 Time: 10:43:38 CPU Time: 0 0: 7:39.62 (459.62 sec) Binary
2558 Time Step No. = 1820 Elapsed Time = 2.290810E+06 days
2559 Date: 05/18/06 Time: 10:43:45 CPU Time: 0 0: 7:46.73 (466.73 sec) Binary
2561 Time Step No. = 1840 Elapsed Time = 2.381658E+06 days
2562 Date: 05/18/06 Time: 10:43:50 CPU Time: 0 0: 7:51.20 (471.20 sec) Binary
2564 Time Step No. = 1860 Elapsed Time = 2.781658E+06 days
2565 Date: 05/18/06 Time: 10:43:54 CPU Time: 0 0: 7:54.83 (474.83 sec) Binary
2567 Time Step No. = 1880 Elapsed Time = 3.181658E+06 days
2568 Date: 05/18/06 Time: 10:43:57 CPU Time: 0 0: 7:58.36 (478.36 sec) Binary
2570 Time Step No. = 1900 Elapsed Time = 3.581658E+06 days

```
2571 Date: 05/18/06 Time: 10:44:01 CPU Time: 0 0: 8: 1.92 ( 481.92 sec) Binary
2574 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
2736 CPU Time (this time step) = 0.15 sec = 0.00004 hr
2737 CPU Time (total for run) = 579.52 sec = 0.16098 hr
2738 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
2590 CPU Time (this time step) = 0.12 sec = 0.00003 hr
2591 CPU Time (total for run) = 482.57 sec = 0.13405 hr
2592 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
3414 Date: 02/14/07 Time: 10:03:49 CPU Time: 0 0: 9:39.53 ( 579.53 sec) ASCII
3416 Time Step No. = 1904 Elapsed Time = 3.652431E+06 days
3417 Date: 02/14/07 Time: 10:03:49 CPU Time: 0 0: 9:39.54 ( 579.54 sec) Binary
3422 *****
3423 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3424 * Completed: 02/14/07 at 10:03:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3425 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
3268 Date: 05/18/06 Time: 10:44:01 CPU Time: 0 0: 8: 2.57 ( 482.57 sec) ASCII
3270 Time Step No. = 1904 Elapsed Time = 3.652431E+06 days
3271 Date: 05/18/06 Time: 10:44:01 CPU Time: 0 0: 8: 2.57 ( 482.57 sec) Binary
3276 *****
3277 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3278 * Completed: 05/18/06 at 10:44:01 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3279 *****
*****
```

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

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

BF2_QB0600_ES47_TEST7_V012_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3 ** Begun on: 02/14/07 at 09:56:26 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
2 ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3 ** Begun on: 05/18/06 at 10:37:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R012]BF2_TEST7_R012_QA0500.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R012]BF2_CLOSURE.DAT;1
67 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R012]BF2_VMS82_V500_ES47_TEST7_R012.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R012]BF2_VMS82_V500_ES47_TEST7_R012.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
86 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R012]BF2_VMS82_V500_ES47_TEST7_R012.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
195 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
196 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
197 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
198 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
199 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
200 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
201 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
202 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
203 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
204 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
205 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
206 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
207 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
208 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
209 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
210 58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
211 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
212 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
213 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
214 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
215 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
216 64 0 0 CONCST Salt concentration -- simple model kg/m^3
217 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
218 66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
224 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
225 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
226 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
227 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
228 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
229 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
230 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
```

231 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
232 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
233 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241 89 0 0 CONCRKN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRKN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243 91 0 0 CONCRKN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244 92 0 0 CONCRKN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRKN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
246 94 0 0 CONCRKN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
247 95 0 0 CONCRKN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
248 96 0 0 CONCRKN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249 97 0 0 CONCRKN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250 98 0 0 CONCRKN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251 99 0 0 CONCRKN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252 100 0 0 CONCRKN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253 101 0 0 CONCRKN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254 102 0 0 CONCRKN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255 103 0 0 CONCRKN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256 104 0 0 CONCRKN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257 105 0 0 CONCRKN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258 106 0 0 CONCRKN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259 107 0 0 CONCRKN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260 108 0 0 CONCRKN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261 109 0 0 CONCRKN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262 110 0 0 CONCRKN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263 111 0 0 CONCRKN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264 112 0 0 H2OFLOWIN Water inflow rate kg/s
265 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271 119 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
272 120 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg
273 121 0 0 B_CONC(1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274 122 0 0 B_CONC(1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275 123 0 0 S_MASS(1,1) Solid mass of isotope 1 from Waste Region 1 kg
276 124 0 0 S_MASS(1,2) Solid mass of isotope 1 from Waste Region 2 kg
278

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1

195 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200 48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201 49 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 50 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 51 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204 52 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205 53 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206 54 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207 55 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208 56 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209 57 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)


```
828 Special material index numbers:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
860 where IC's will be reset (NMATRESET) = 5
861 Material type indexes of material regions
862 where IC's will be reset (MATRESET) = 7 8 9 10 39
864 Borehole matl index number (MAT_BOREHOLE) = 0
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
842 where IC's will be reset (NMATRESET) = 4
843 Material type indexes of material regions
844 where IC's will be reset (MATRESET) = 7 8 9 10
846 Borehole matl index number (MAT_BOREHOLE) = 0
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
869 instead of Input IC's for the Cavities
870 [0=No, 1=Yes] (ICWASTE) = 1
872 Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
873 Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
874 Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
875 Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
876 Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
877 Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
878 Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
879 Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
880 Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
881 Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
883 -----
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
851 instead of Input IC's for the Waste
852 [0=No, 1=Yes] (ICWASTE) = 1
854 Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
855 Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
856 Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
857 Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
859 -----
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
949 39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
950 TOL = 1.0000E-02
951 SOCEFFMIN = 1.0000E-03
953 Fracture model will be used? (KRACTURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
926 Fracture model will be used? (KRACTURE): T
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
1086 Intrinsic reaction rate constants? (LINTRIN): F
1088 Reaction rate constants (RK):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
1059 Reaction rate constants (RK):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
1096 MgO hydration reaction rate constants:
1097 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100 Gas generation factors for biodegradation reaction:
1101 Waste Area # 1
1102 H2/H2S production (RXH2S) = 8.246000E-01
1103 CO2 production (RXCO2) = 0.000000E+00
1105 Gas generation factors for biodegradation reaction:
1106 Waste Area # 2
1107 H2/H2S production (RXH2S) = 8.246000E-01
```

1108 CO2 production (RXCO2) = 0.000000E+00
1110 Saturation cutoff value (SOCMIN): 0.000000E+00
1112 Stoichiometric coeff's for Rxn 1:
1113 H2 coefficient = 1.249600E+00
1114 H2O coefficient = -1.500900E+00
1115 Fe coefficient = -1.000000E+00
1116 Bio coefficient = 0.000000E+00
1117 Fe(OH)2 coefficient = 0.000000E+00
1118 FeS coefficient = 0.000000E+00
1119 MgO coefficient = 0.000000E+00
1120 Mg(OH)2 coefficient = 0.000000E+00
1121 MgCO3 coefficient = 0.000000E+00
1123 Stoichiometric coeff's for Rxn 2:
1124 H2 coefficient = 8.246000E-01
1125 H2O coefficient = 0.000000E+00
1126 Fe coefficient = 0.000000E+00
1127 Bio coefficient = -1.000000E+00
1128 Fe(OH)2 coefficient = 0.000000E+00
1129 FeS coefficient = 0.000000E+00
1130 MgO coefficient = 0.000000E+00
1131 Mg(OH)2 coefficient = 0.000000E+00
1132 MgCO3 coefficient = 0.000000E+00
1134 Stoichiometric coeff's for Rxn 3:
1135 H2 coefficient = 0.000000E+00
1136 H2O coefficient = 0.000000E+00
1137 Fe coefficient = 0.000000E+00
1138 Bio coefficient = 0.000000E+00
1139 Fe(OH)2 coefficient = 0.000000E+00
1140 FeS coefficient = 0.000000E+00
1141 MgO coefficient = 0.000000E+00
1142 Mg(OH)2 coefficient = 0.000000E+00
1143 MgCO3 coefficient = 0.000000E+00
1145 Stoichiometric coeff's for Rxn 4:
1146 H2 coefficient = 0.000000E+00
1147 H2O coefficient = 0.000000E+00
1148 Fe coefficient = 0.000000E+00
1149 Bio coefficient = 0.000000E+00
1150 Fe(OH)2 coefficient = 0.000000E+00
1151 FeS coefficient = 0.000000E+00
1152 MgO coefficient = 0.000000E+00
1153 Mg(OH)2 coefficient = 0.000000E+00
1154 MgCO3 coefficient = 0.000000E+00
1156 Stoichiometric coeff's for Rxn 5:
1157 H2 coefficient = 0.000000E+00
1158 H2O coefficient = 0.000000E+00
1159 Fe coefficient = 0.000000E+00
1160 Bio coefficient = 0.000000E+00
1161 Fe(OH)2 coefficient = 0.000000E+00
1162 FeS coefficient = 0.000000E+00
1163 MgO coefficient = 0.000000E+00
1164 Mg(OH)2 coefficient = 0.000000E+00
1165 MgCO3 coefficient = 0.000000E+00
1167 Stoichiometric coeff's for Rxn 6:
1168 H2 coefficient = 0.000000E+00
1169 H2O coefficient = 0.000000E+00
1170 Fe coefficient = 0.000000E+00
1171 Bio coefficient = 0.000000E+00
1172 Fe(OH)2 coefficient = 0.000000E+00
1173 FeS coefficient = 0.000000E+00
1174 MgO coefficient = 0.000000E+00
1175 Mg(OH)2 coefficient = 0.000000E+00
1176 MgCO3 coefficient = 0.000000E+00
1178 Stoichiometric coeff's for Rxn 7:
1179 H2 coefficient = 0.000000E+00
1180 H2O coefficient = 0.000000E+00
1181 Fe coefficient = 0.000000E+00
1182 Bio coefficient = 0.000000E+00
1183 Fe(OH)2 coefficient = 0.000000E+00
1184 FeS coefficient = 0.000000E+00
1185 MgO coefficient = 0.000000E+00

```
1186 Mg(OH)2 coefficient = 0.000000E+00
1187 MgCO3 coefficient = 0.000000E+00
1189 Wicking term (SATWICK) = 0.000000E+00
1190 Humid rates to be smoothed? (LARKN) = T
1191 Concentration rates to be smoothed? (LARKN2) = F
1192 Humid rate smoothing factor (ALPHARKN) = 1.000000E+03
1194 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
1067 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068 Gas coefficient = 1.249600E+00
1069 H2O coefficient = 1.500900E+00
1070 Fe coefficient = 1.000000E+00
1072 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073 Gas coefficient = 8.246000E-01
1074 H2O coefficient = 0.000000E+00
1075 Bio coefficient = 1.000000E+00
1077 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
1200 Molecular weights (WM):
1201 Fe(OH)2: 8.9862E-02 kg/mol
1202 FeS: 8.7900E-02 kg/mol
1203 MgO: 4.0304E-02 kg/mol
1204 Mg(OH)2: 5.8320E-02 kg/mol
1205 MgCO3: 8.4314E-02 kg/mol
1207 Densities (DEN(1-4)):
1208 Fe: 7.8700E+03 kg/m3
1209 Fe(OH)2: 3.4000E+03 kg/m3
1210 FeS: 4.7000E+03 kg/m3
1211 Bio: 1.1000E+03 kg/m3
1213 Densities (DEN(5-8)):
1214 MgO: 3.6000E+03 kg/m3
1215 Mg(OH)2: 2.3700E+03 kg/m3
1216 MgCO3: 3.0500E+03 kg/m3
1217 SALT: 2.1700E+03 kg/m3
1219 Will creep closure be used (CLOSURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
1083 Wicking term (SATWICK) = 0.000000E+00
1084 Humid rates to be smoothed? (LARKN) = T
1085 Humid rate smoothing factor (ALPHARKN) = 1.000000E+03
1087 Will creep closure be used (CLOSURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
1233 PHIUPPER = Upper porosity limit in permeability-porosity expression
1234 PHILOWER = Lower porosity limit in permeability-porosity expression
1235 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
1236 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1237 4 1.480000E+07 3.155700E+12 1 F
1238 MODPERM Parameters
1239 Model Number (CLOSPERMFAC) [m^2] (CLOSPERMEXP) [-]
1240 4 5.584700E-12 0.000000E+00
1242 Number of materials using closure (NMATCLOS) = 2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
1101 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFAC) [m^2] (CLOSPERMEXP) [-]
1102 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1103 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105 Number of materials using closure (NMATCLOS) = 2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
1260 *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1263 *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1266 *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1269 *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
1272 *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
1276
*****
*****
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*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
1123   *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1126   *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1130
*****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
1300   57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1301   58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1303   CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
1154   47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1155   48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1157   CAMCON Global Variable Units Conv
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
1772   CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773   CPU Time (total for run) = 23.20 sec = 0.00644 hr
1774   *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
1626   CPU Time (this time step) = 0.12 sec = 0.00003 hr
1627   CPU Time (total for run) = 20.29 sec = 0.00564 hr
1628   *****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
2450   Date: 02/14/07 Time: 09:56:50 CPU Time: 0 0: 0:23.22 ( 23.22 sec) ASCII
2452   Time Step No. = 131 Elapsed Time = 0.000000E+00 days
2453   Date: 02/14/07 Time: 09:56:50 CPU Time: 0 0: 0:23.22 ( 23.22 sec) Binary
2455   Time Step No. = 140 Elapsed Time = 1.728808E-01 days
2456   Date: 02/14/07 Time: 09:56:52 CPU Time: 0 0: 0:25.17 ( 25.17 sec) Binary
2458   Time Step No. = 160 Elapsed Time = 1.502175E+01 days
2459   Date: 02/14/07 Time: 09:56:55 CPU Time: 0 0: 0:29.11 ( 29.11 sec) Binary
2461   Time Step No. = 180 Elapsed Time = 7.625276E+02 days
2462   Date: 02/14/07 Time: 09:57:00 CPU Time: 0 0: 0:33.77 ( 33.77 sec) Binary
2464   Time Step No. = 200 Elapsed Time = 6.318104E+03 days
2465   Date: 02/14/07 Time: 09:57:07 CPU Time: 0 0: 0:40.16 ( 40.16 sec) Binary
2467   Time Step No. = 220 Elapsed Time = 3.653252E+04 days
2468   Date: 02/14/07 Time: 09:57:15 CPU Time: 0 0: 0:48.80 ( 48.80 sec) Binary
2470   Time Step No. = 240 Elapsed Time = 3.665724E+04 days
2471   Date: 02/14/07 Time: 09:57:19 CPU Time: 0 0: 0:52.38 ( 52.38 sec) Binary
2473   Time Step No. = 260 Elapsed Time = 3.667033E+04 days
2474   Date: 02/14/07 Time: 09:57:21 CPU Time: 0 0: 0:54.43 ( 54.43 sec) Binary
2476   Time Step No. = 280 Elapsed Time = 3.708680E+04 days
2477   Date: 02/14/07 Time: 09:57:25 CPU Time: 0 0: 0:58.88 ( 58.88 sec) Binary
2479   Time Step No. = 300 Elapsed Time = 5.092008E+04 days
2480   Date: 02/14/07 Time: 09:57:31 CPU Time: 0 0: 1: 4.46 ( 64.46 sec) Binary
2482   Time Step No. = 320 Elapsed Time = 2.039729E+05 days
2483   Date: 02/14/07 Time: 09:57:40 CPU Time: 0 0: 1:13.01 ( 73.01 sec) Binary
2485   Time Step No. = 340 Elapsed Time = 2.274452E+05 days
2486   Date: 02/14/07 Time: 09:57:49 CPU Time: 0 0: 1:22.77 ( 82.77 sec) Binary
2488   Time Step No. = 360 Elapsed Time = 3.652467E+05 days
2489   Date: 02/14/07 Time: 09:57:58 CPU Time: 0 0: 1:30.87 ( 90.87 sec) Binary
2491   Time Step No. = 380 Elapsed Time = 3.652814E+05 days
2492   Date: 02/14/07 Time: 09:58:04 CPU Time: 0 0: 1:37.34 ( 97.34 sec) Binary
2494   Time Step No. = 400 Elapsed Time = 3.655778E+05 days
2495   Date: 02/14/07 Time: 09:58:11 CPU Time: 0 0: 1:43.81 ( 103.81 sec) Binary
2497   Time Step No. = 420 Elapsed Time = 3.666037E+05 days
2498   Date: 02/14/07 Time: 09:58:18 CPU Time: 0 0: 1:51.39 ( 111.39 sec) Binary
2500   Time Step No. = 440 Elapsed Time = 3.666104E+05 days
2501   Date: 02/14/07 Time: 09:58:20 CPU Time: 0 0: 1:53.43 ( 113.43 sec) Binary
2503   Time Step No. = 460 Elapsed Time = 3.671914E+05 days
2504   Date: 02/14/07 Time: 09:58:25 CPU Time: 0 0: 1:57.61 ( 117.61 sec) Binary
2506   Time Step No. = 480 Elapsed Time = 3.687879E+05 days
2507   Date: 02/14/07 Time: 09:58:32 CPU Time: 0 0: 2: 4.83 ( 124.83 sec) Binary
2509   Time Step No. = 500 Elapsed Time = 3.778499E+05 days
2510   Date: 02/14/07 Time: 09:58:42 CPU Time: 0 0: 2:14.54 ( 134.54 sec) Binary
2512   Time Step No. = 520 Elapsed Time = 3.789049E+05 days
2513   Date: 02/14/07 Time: 09:58:49 CPU Time: 0 0: 2:21.59 ( 141.59 sec) Binary
```

2515 Time Step No. = 540 Elapsed Time = 3.809367E+05 days
2516 Date: 02/14/07 Time: 09:58:55 CPU Time: 0 0: 2:28.36 (148.36 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 3.809693E+05 days
2519 Date: 02/14/07 Time: 09:58:58 CPU Time: 0 0: 2:30.77 (150.77 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 3.836875E+05 days
2522 Date: 02/14/07 Time: 09:59:03 CPU Time: 0 0: 2:35.71 (155.71 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 3.871760E+05 days
2525 Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 2:42.48 (162.48 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 3.879593E+05 days
2528 Date: 02/14/07 Time: 09:59:13 CPU Time: 0 0: 2:46.34 (166.34 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.964171E+05 days
2531 Date: 02/14/07 Time: 09:59:19 CPU Time: 0 0: 2:51.71 (171.71 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.984106E+05 days
2534 Date: 02/14/07 Time: 09:59:23 CPU Time: 0 0: 2:56.26 (176.26 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 4.040124E+05 days
2537 Date: 02/14/07 Time: 09:59:32 CPU Time: 0 0: 3: 4.67 (184.67 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 4.084891E+05 days
2540 Date: 02/14/07 Time: 09:59:37 CPU Time: 0 0: 3: 9.34 (189.34 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 4.148775E+05 days
2543 Date: 02/14/07 Time: 09:59:45 CPU Time: 0 0: 3:17.23 (197.23 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 4.152695E+05 days
2546 Date: 02/14/07 Time: 09:59:49 CPU Time: 0 0: 3:21.47 (201.47 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 4.155957E+05 days
2549 Date: 02/14/07 Time: 09:59:53 CPU Time: 0 0: 3:25.54 (205.54 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 4.159067E+05 days
2552 Date: 02/14/07 Time: 09:59:58 CPU Time: 0 0: 3:30.57 (210.57 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 4.230351E+05 days
2555 Date: 02/14/07 Time: 10:00:06 CPU Time: 0 0: 3:37.88 (217.88 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 4.231681E+05 days
2558 Date: 02/14/07 Time: 10:00:09 CPU Time: 0 0: 3:41.77 (221.77 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 4.246312E+05 days
2561 Date: 02/14/07 Time: 10:00:13 CPU Time: 0 0: 3:45.65 (225.65 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 4.284259E+05 days
2564 Date: 02/14/07 Time: 10:00:19 CPU Time: 0 0: 3:51.58 (231.58 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 4.288881E+05 days
2567 Date: 02/14/07 Time: 10:00:26 CPU Time: 0 0: 3:57.85 (237.85 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 4.293308E+05 days
2570 Date: 02/14/07 Time: 10:00:30 CPU Time: 0 0: 4: 2.54 (242.54 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 4.432583E+05 days
2573 Date: 02/14/07 Time: 10:00:37 CPU Time: 0 0: 4: 9.44 (249.44 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 4.443255E+05 days
2576 Date: 02/14/07 Time: 10:00:44 CPU Time: 0 0: 4:15.87 (255.87 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 4.483126E+05 days
2579 Date: 02/14/07 Time: 10:00:50 CPU Time: 0 0: 4:22.56 (262.56 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 4.534391E+05 days
2582 Date: 02/14/07 Time: 10:00:55 CPU Time: 0 0: 4:27.48 (267.48 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 4.699167E+05 days
2585 Date: 02/14/07 Time: 10:01:03 CPU Time: 0 0: 4:35.26 (275.26 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 4.858432E+05 days
2588 Date: 02/14/07 Time: 10:01:11 CPU Time: 0 0: 4:43.04 (283.04 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 4.937961E+05 days
2591 Date: 02/14/07 Time: 10:01:17 CPU Time: 0 0: 4:48.52 (288.52 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 5.466139E+05 days
2594 Date: 02/14/07 Time: 10:01:26 CPU Time: 0 0: 4:57.51 (297.51 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 5.780318E+05 days
2597 Date: 02/14/07 Time: 10:01:35 CPU Time: 0 0: 5: 7.24 (307.24 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 6.270315E+05 days
2600 Date: 02/14/07 Time: 10:01:45 CPU Time: 0 0: 5:16.63 (316.63 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 7.054870E+05 days
2603 Date: 02/14/07 Time: 10:01:52 CPU Time: 0 0: 5:24.14 (324.14 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 7.169027E+05 days
2606 Date: 02/14/07 Time: 10:02:00 CPU Time: 0 0: 5:31.57 (331.57 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 7.402913E+05 days
2609 Date: 02/14/07 Time: 10:02:08 CPU Time: 0 0: 5:40.26 (340.26 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 7.847129E+05 days
2612 Date: 02/14/07 Time: 10:02:16 CPU Time: 0 0: 5:47.86 (347.86 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 8.332294E+05 days
2615 Date: 02/14/07 Time: 10:02:27 CPU Time: 0 0: 5:59.01 (359.01 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 8.509701E+05 days
2618 Date: 02/14/07 Time: 10:02:34 CPU Time: 0 0: 6: 5.77 (365.77 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 9.067910E+05 days
2621 Date: 02/14/07 Time: 10:02:45 CPU Time: 0 0: 6:17.02 (377.02 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 9.383181E+05 days
2624 Date: 02/14/07 Time: 10:02:54 CPU Time: 0 0: 6:25.21 (385.21 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 9.948692E+05 days
2627 Date: 02/14/07 Time: 10:03:02 CPU Time: 0 0: 6:33.92 (393.92 sec) Binary

2629 Time Step No. = 1300 Elapsed Time = 1.246977E+06 days
2630 Date: 02/14/07 Time: 10:03:10 CPU Time: 0 0: 6:41.33 (401.33 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 1.378669E+06 days
2633 Date: 02/14/07 Time: 10:03:19 CPU Time: 0 0: 6:51.09 (411.09 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 1.477485E+06 days
2636 Date: 02/14/07 Time: 10:03:26 CPU Time: 0 0: 6:57.17 (417.17 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 1.512368E+06 days
2639 Date: 02/14/07 Time: 10:03:35 CPU Time: 0 0: 7: 6.42 (426.42 sec) Binary
2641 Time Step No. = 1380 Elapsed Time = 1.528588E+06 days
2642 Date: 02/14/07 Time: 10:03:43 CPU Time: 0 0: 7:14.66 (434.66 sec) Binary
2644 Time Step No. = 1400 Elapsed Time = 1.544193E+06 days
2645 Date: 02/14/07 Time: 10:03:50 CPU Time: 0 0: 7:21.63 (441.63 sec) Binary
2647 Time Step No. = 1420 Elapsed Time = 1.579430E+06 days
2648 Date: 02/14/07 Time: 10:03:58 CPU Time: 0 0: 7:29.70 (449.70 sec) Binary
2650 Time Step No. = 1440 Elapsed Time = 1.605319E+06 days
2651 Date: 02/14/07 Time: 10:04:05 CPU Time: 0 0: 7:36.78 (456.78 sec) Binary
2653 Time Step No. = 1460 Elapsed Time = 1.707900E+06 days
2654 Date: 02/14/07 Time: 10:04:14 CPU Time: 0 0: 7:45.54 (465.54 sec) Binary
2656 Time Step No. = 1480 Elapsed Time = 1.729509E+06 days
2657 Date: 02/14/07 Time: 10:04:22 CPU Time: 0 0: 7:52.89 (472.89 sec) Binary
2659 Time Step No. = 1500 Elapsed Time = 1.810878E+06 days
2660 Date: 02/14/07 Time: 10:04:29 CPU Time: 0 0: 7:59.97 (479.97 sec) Binary
2662 Time Step No. = 1520 Elapsed Time = 1.877326E+06 days
2663 Date: 02/14/07 Time: 10:04:37 CPU Time: 0 0: 8: 8.67 (488.67 sec) Binary
2665 Time Step No. = 1540 Elapsed Time = 1.994765E+06 days
2666 Date: 02/14/07 Time: 10:04:45 CPU Time: 0 0: 8:16.55 (496.55 sec) Binary
2668 Time Step No. = 1560 Elapsed Time = 2.126096E+06 days
2669 Date: 02/14/07 Time: 10:04:55 CPU Time: 0 0: 8:25.99 (505.99 sec) Binary
2671 Time Step No. = 1580 Elapsed Time = 2.173060E+06 days
2672 Date: 02/14/07 Time: 10:04:59 CPU Time: 0 0: 8:29.90 (509.90 sec) Binary
2674 Time Step No. = 1600 Elapsed Time = 2.558345E+06 days
2675 Date: 02/14/07 Time: 10:05:03 CPU Time: 0 0: 8:34.31 (514.31 sec) Binary
2677 Time Step No. = 1620 Elapsed Time = 2.958345E+06 days
2678 Date: 02/14/07 Time: 10:05:07 CPU Time: 0 0: 8:38.42 (518.42 sec) Binary
2680 Time Step No. = 1640 Elapsed Time = 3.358345E+06 days
2681 Date: 02/14/07 Time: 10:05:11 CPU Time: 0 0: 8:42.20 (522.20 sec) Binary
2684 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1

2304 Date: 05/18/06 Time: 10:38:09 CPU Time: 0 0: 0:20.30 (20.30 sec) ASCII
2306 Time Step No. = 131 Elapsed Time = 0.000000E+00 days
2307 Date: 05/18/06 Time: 10:38:09 CPU Time: 0 0: 0:20.31 (20.31 sec) Binary
2309 Time Step No. = 140 Elapsed Time = 1.728808E-01 days
2310 Date: 05/18/06 Time: 10:38:10 CPU Time: 0 0: 0:21.94 (21.94 sec) Binary
2312 Time Step No. = 160 Elapsed Time = 1.502175E+01 days
2313 Date: 05/18/06 Time: 10:38:14 CPU Time: 0 0: 0:25.24 (25.24 sec) Binary
2315 Time Step No. = 180 Elapsed Time = 7.625276E+02 days
2316 Date: 05/18/06 Time: 10:38:18 CPU Time: 0 0: 0:29.15 (29.15 sec) Binary
2318 Time Step No. = 200 Elapsed Time = 6.318104E+03 days
2319 Date: 05/18/06 Time: 10:38:23 CPU Time: 0 0: 0:34.66 (34.66 sec) Binary
2321 Time Step No. = 220 Elapsed Time = 3.653252E+04 days
2322 Date: 05/18/06 Time: 10:38:31 CPU Time: 0 0: 0:42.09 (42.09 sec) Binary
2324 Time Step No. = 240 Elapsed Time = 3.665724E+04 days
2325 Date: 05/18/06 Time: 10:38:34 CPU Time: 0 0: 0:45.18 (45.18 sec) Binary
2327 Time Step No. = 260 Elapsed Time = 3.667033E+04 days
2328 Date: 05/18/06 Time: 10:38:35 CPU Time: 0 0: 0:46.91 (46.91 sec) Binary
2330 Time Step No. = 280 Elapsed Time = 3.708680E+04 days
2331 Date: 05/18/06 Time: 10:38:39 CPU Time: 0 0: 0:50.55 (50.55 sec) Binary
2333 Time Step No. = 300 Elapsed Time = 5.092008E+04 days
2334 Date: 05/18/06 Time: 10:38:43 CPU Time: 0 0: 0:54.81 (54.81 sec) Binary
2336 Time Step No. = 320 Elapsed Time = 2.039729E+05 days
2337 Date: 05/18/06 Time: 10:38:50 CPU Time: 0 0: 1: 1.21 (61.21 sec) Binary
2339 Time Step No. = 340 Elapsed Time = 2.274452E+05 days
2340 Date: 05/18/06 Time: 10:38:57 CPU Time: 0 0: 1: 8.48 (68.48 sec) Binary
2342 Time Step No. = 360 Elapsed Time = 3.652467E+05 days
2343 Date: 05/18/06 Time: 10:39:03 CPU Time: 0 0: 1:14.56 (74.56 sec) Binary
2345 Time Step No. = 380 Elapsed Time = 3.652814E+05 days
2346 Date: 05/18/06 Time: 10:39:08 CPU Time: 0 0: 1:19.43 (79.43 sec) Binary
2348 Time Step No. = 400 Elapsed Time = 3.655778E+05 days
2349 Date: 05/18/06 Time: 10:39:13 CPU Time: 0 0: 1:24.49 (84.49 sec) Binary
2351 Time Step No. = 420 Elapsed Time = 3.666037E+05 days
2352 Date: 05/18/06 Time: 10:39:19 CPU Time: 0 0: 1:30.70 (90.70 sec) Binary
2354 Time Step No. = 440 Elapsed Time = 3.666104E+05 days
2355 Date: 05/18/06 Time: 10:39:21 CPU Time: 0 0: 1:32.37 (92.37 sec) Binary
2357 Time Step No. = 460 Elapsed Time = 3.671914E+05 days
2358 Date: 05/18/06 Time: 10:39:25 CPU Time: 0 0: 1:35.79 (95.79 sec) Binary

2360 Time Step No. = 480 Elapsed Time = 3.687879E+05 days
2361 Date: 05/18/06 Time: 10:39:30 CPU Time: 0 0: 1:41.73 (101.73 sec) Binary
2363 Time Step No. = 500 Elapsed Time = 3.778499E+05 days
2364 Date: 05/18/06 Time: 10:39:38 CPU Time: 0 0: 1:49.71 (109.71 sec) Binary
2366 Time Step No. = 520 Elapsed Time = 3.789049E+05 days
2367 Date: 05/18/06 Time: 10:39:45 CPU Time: 0 0: 1:56.06 (116.06 sec) Binary
2369 Time Step No. = 540 Elapsed Time = 3.809367E+05 days
2370 Date: 05/18/06 Time: 10:39:51 CPU Time: 0 0: 2: 2.20 (122.20 sec) Binary
2372 Time Step No. = 560 Elapsed Time = 3.809693E+05 days
2373 Date: 05/18/06 Time: 10:39:53 CPU Time: 0 0: 2: 4.38 (124.38 sec) Binary
2375 Time Step No. = 580 Elapsed Time = 3.836875E+05 days
2376 Date: 05/18/06 Time: 10:39:58 CPU Time: 0 0: 2: 8.85 (128.85 sec) Binary
2378 Time Step No. = 600 Elapsed Time = 3.871760E+05 days
2379 Date: 05/18/06 Time: 10:40:04 CPU Time: 0 0: 2:15.00 (135.00 sec) Binary
2381 Time Step No. = 620 Elapsed Time = 3.879593E+05 days
2382 Date: 05/18/06 Time: 10:40:07 CPU Time: 0 0: 2:18.52 (138.52 sec) Binary
2384 Time Step No. = 640 Elapsed Time = 3.964171E+05 days
2385 Date: 05/18/06 Time: 10:40:12 CPU Time: 0 0: 2:23.43 (143.43 sec) Binary
2387 Time Step No. = 660 Elapsed Time = 3.984106E+05 days
2388 Date: 05/18/06 Time: 10:40:16 CPU Time: 0 0: 2:27.58 (147.58 sec) Binary
2390 Time Step No. = 680 Elapsed Time = 4.040124E+05 days
2391 Date: 05/18/06 Time: 10:40:24 CPU Time: 0 0: 2:35.16 (155.16 sec) Binary
2393 Time Step No. = 700 Elapsed Time = 4.084891E+05 days
2394 Date: 05/18/06 Time: 10:40:28 CPU Time: 0 0: 2:39.17 (159.17 sec) Binary
2396 Time Step No. = 720 Elapsed Time = 4.148775E+05 days
2397 Date: 05/18/06 Time: 10:40:35 CPU Time: 0 0: 2:45.96 (165.96 sec) Binary
2399 Time Step No. = 740 Elapsed Time = 4.152695E+05 days
2400 Date: 05/18/06 Time: 10:40:38 CPU Time: 0 0: 2:49.26 (169.26 sec) Binary
2402 Time Step No. = 760 Elapsed Time = 4.155957E+05 days
2403 Date: 05/18/06 Time: 10:40:41 CPU Time: 0 0: 2:52.47 (172.47 sec) Binary
2405 Time Step No. = 780 Elapsed Time = 4.159067E+05 days
2406 Date: 05/18/06 Time: 10:40:45 CPU Time: 0 0: 2:56.40 (176.40 sec) Binary
2408 Time Step No. = 800 Elapsed Time = 4.230351E+05 days
2409 Date: 05/18/06 Time: 10:40:51 CPU Time: 0 0: 3: 2.14 (182.14 sec) Binary
2411 Time Step No. = 820 Elapsed Time = 4.231681E+05 days
2412 Date: 05/18/06 Time: 10:40:54 CPU Time: 0 0: 3: 5.38 (185.38 sec) Binary
2414 Time Step No. = 840 Elapsed Time = 4.246312E+05 days
2415 Date: 05/18/06 Time: 10:40:58 CPU Time: 0 0: 3: 8.63 (188.63 sec) Binary
2417 Time Step No. = 860 Elapsed Time = 4.284259E+05 days
2418 Date: 05/18/06 Time: 10:41:03 CPU Time: 0 0: 3:13.62 (193.62 sec) Binary
2420 Time Step No. = 880 Elapsed Time = 4.288881E+05 days
2421 Date: 05/18/06 Time: 10:41:08 CPU Time: 0 0: 3:18.88 (198.88 sec) Binary
2423 Time Step No. = 900 Elapsed Time = 4.293308E+05 days
2424 Date: 05/18/06 Time: 10:41:12 CPU Time: 0 0: 3:22.78 (202.78 sec) Binary
2426 Time Step No. = 920 Elapsed Time = 4.432583E+05 days
2427 Date: 05/18/06 Time: 10:41:18 CPU Time: 0 0: 3:28.46 (208.46 sec) Binary
2429 Time Step No. = 940 Elapsed Time = 4.443255E+05 days
2430 Date: 05/18/06 Time: 10:41:23 CPU Time: 0 0: 3:33.72 (213.72 sec) Binary
2432 Time Step No. = 960 Elapsed Time = 4.483126E+05 days
2433 Date: 05/18/06 Time: 10:41:28 CPU Time: 0 0: 3:39.22 (219.22 sec) Binary
2435 Time Step No. = 980 Elapsed Time = 4.534391E+05 days
2436 Date: 05/18/06 Time: 10:41:32 CPU Time: 0 0: 3:43.30 (223.30 sec) Binary
2438 Time Step No. = 1000 Elapsed Time = 4.699167E+05 days
2439 Date: 05/18/06 Time: 10:41:39 CPU Time: 0 0: 3:49.71 (229.71 sec) Binary
2441 Time Step No. = 1020 Elapsed Time = 4.858432E+05 days
2442 Date: 05/18/06 Time: 10:41:45 CPU Time: 0 0: 3:56.14 (236.14 sec) Binary
2444 Time Step No. = 1040 Elapsed Time = 4.937961E+05 days
2445 Date: 05/18/06 Time: 10:41:50 CPU Time: 0 0: 4: 0.69 (240.69 sec) Binary
2447 Time Step No. = 1060 Elapsed Time = 5.466139E+05 days
2448 Date: 05/18/06 Time: 10:41:57 CPU Time: 0 0: 4: 8.13 (248.13 sec) Binary
2450 Time Step No. = 1080 Elapsed Time = 5.780318E+05 days
2451 Date: 05/18/06 Time: 10:42:05 CPU Time: 0 0: 4:16.12 (256.12 sec) Binary
2453 Time Step No. = 1100 Elapsed Time = 6.270315E+05 days
2454 Date: 05/18/06 Time: 10:42:13 CPU Time: 0 0: 4:23.83 (263.83 sec) Binary
2456 Time Step No. = 1120 Elapsed Time = 7.054870E+05 days
2457 Date: 05/18/06 Time: 10:42:19 CPU Time: 0 0: 4:29.95 (269.95 sec) Binary
2459 Time Step No. = 1140 Elapsed Time = 7.169027E+05 days
2460 Date: 05/18/06 Time: 10:42:25 CPU Time: 0 0: 4:36.14 (276.14 sec) Binary
2462 Time Step No. = 1160 Elapsed Time = 7.402913E+05 days
2463 Date: 05/18/06 Time: 10:42:33 CPU Time: 0 0: 4:43.32 (283.32 sec) Binary
2465 Time Step No. = 1180 Elapsed Time = 7.847129E+05 days
2466 Date: 05/18/06 Time: 10:42:39 CPU Time: 0 0: 4:49.38 (289.38 sec) Binary
2468 Time Step No. = 1200 Elapsed Time = 8.332294E+05 days
2469 Date: 05/18/06 Time: 10:42:47 CPU Time: 0 0: 4:57.90 (297.90 sec) Binary
2471 Time Step No. = 1220 Elapsed Time = 8.509701E+05 days
2472 Date: 05/18/06 Time: 10:42:52 CPU Time: 0 0: 5: 3.18 (303.18 sec) Binary

2474 Time Step No. = 1240 Elapsed Time = 9.067910E+05 days
2475 Date: 05/18/06 Time: 10:43:01 CPU Time: 0 0: 5:11.97 (311.97 sec) Binary
2477 Time Step No. = 1260 Elapsed Time = 9.383181E+05 days
2478 Date: 05/18/06 Time: 10:43:07 CPU Time: 0 0: 5:18.18 (318.18 sec) Binary
2480 Time Step No. = 1280 Elapsed Time = 9.948692E+05 days
2481 Date: 05/18/06 Time: 10:43:14 CPU Time: 0 0: 5:24.75 (324.75 sec) Binary
2483 Time Step No. = 1300 Elapsed Time = 1.246977E+06 days
2484 Date: 05/18/06 Time: 10:43:20 CPU Time: 0 0: 5:30.49 (330.49 sec) Binary
2486 Time Step No. = 1320 Elapsed Time = 1.378669E+06 days
2487 Date: 05/18/06 Time: 10:43:28 CPU Time: 0 0: 5:38.69 (338.69 sec) Binary
2489 Time Step No. = 1340 Elapsed Time = 1.477485E+06 days
2490 Date: 05/18/06 Time: 10:43:33 CPU Time: 0 0: 5:43.74 (343.74 sec) Binary
2492 Time Step No. = 1360 Elapsed Time = 1.512368E+06 days
2493 Date: 05/18/06 Time: 10:43:41 CPU Time: 0 0: 5:51.47 (351.47 sec) Binary
2495 Time Step No. = 1380 Elapsed Time = 1.528588E+06 days
2496 Date: 05/18/06 Time: 10:43:48 CPU Time: 0 0: 5:58.35 (358.35 sec) Binary
2498 Time Step No. = 1400 Elapsed Time = 1.544193E+06 days
2499 Date: 05/18/06 Time: 10:43:54 CPU Time: 0 0: 6: 4.15 (364.15 sec) Binary
2501 Time Step No. = 1420 Elapsed Time = 1.579430E+06 days
2502 Date: 05/18/06 Time: 10:44:00 CPU Time: 0 0: 6:10.71 (370.71 sec) Binary
2504 Time Step No. = 1440 Elapsed Time = 1.605319E+06 days
2505 Date: 05/18/06 Time: 10:44:06 CPU Time: 0 0: 6:16.21 (376.21 sec) Binary
2507 Time Step No. = 1460 Elapsed Time = 1.707900E+06 days
2508 Date: 05/18/06 Time: 10:44:13 CPU Time: 0 0: 6:23.00 (383.00 sec) Binary
2510 Time Step No. = 1480 Elapsed Time = 1.729509E+06 days
2511 Date: 05/18/06 Time: 10:44:18 CPU Time: 0 0: 6:28.64 (388.64 sec) Binary
2513 Time Step No. = 1500 Elapsed Time = 1.810878E+06 days
2514 Date: 05/18/06 Time: 10:44:24 CPU Time: 0 0: 6:34.13 (394.13 sec) Binary
2516 Time Step No. = 1520 Elapsed Time = 1.877326E+06 days
2517 Date: 05/18/06 Time: 10:44:30 CPU Time: 0 0: 6:40.84 (400.84 sec) Binary
2519 Time Step No. = 1540 Elapsed Time = 1.994765E+06 days
2520 Date: 05/18/06 Time: 10:44:37 CPU Time: 0 0: 6:47.34 (407.34 sec) Binary
2522 Time Step No. = 1560 Elapsed Time = 2.126096E+06 days
2523 Date: 05/18/06 Time: 10:44:44 CPU Time: 0 0: 6:54.71 (414.71 sec) Binary
2525 Time Step No. = 1580 Elapsed Time = 2.173060E+06 days
2526 Date: 05/18/06 Time: 10:44:47 CPU Time: 0 0: 6:57.71 (417.71 sec) Binary
2528 Time Step No. = 1600 Elapsed Time = 2.558345E+06 days
2529 Date: 05/18/06 Time: 10:44:51 CPU Time: 0 0: 7: 1.02 (421.02 sec) Binary
2531 Time Step No. = 1620 Elapsed Time = 2.958345E+06 days
2532 Date: 05/18/06 Time: 10:44:54 CPU Time: 0 0: 7: 4.26 (424.26 sec) Binary
2534 Time Step No. = 1640 Elapsed Time = 3.358345E+06 days
2535 Date: 05/18/06 Time: 10:44:57 CPU Time: 0 0: 7: 7.30 (427.30 sec) Binary
2538 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
2700 CPU Time (this time step) = 0.20 sec = 0.00006 hr
2701 CPU Time (total for run) = 525.21 sec = 0.14589 hr
2702 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
2554 CPU Time (this time step) = 0.16 sec = 0.00004 hr
2555 CPU Time (total for run) = 429.70 sec = 0.11936 hr
2556 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
3378 Date: 02/14/07 Time: 10:05:14 CPU Time: 0 0: 8:45.24 (525.24 sec) ASCII
3380 Time Step No. = 1655 Elapsed Time = 3.652431E+06 days
3381 Date: 02/14/07 Time: 10:05:14 CPU Time: 0 0: 8:45.24 (525.24 sec) Binary
3386 *****
3387 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3388 * Completed: 02/14/07 at 10:05:14 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3389 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
3232 Date: 05/18/06 Time: 10:44:59 CPU Time: 0 0: 7: 9.72 (429.72 sec) ASCII
3234 Time Step No. = 1655 Elapsed Time = 3.652431E+06 days
3235 Date: 05/18/06 Time: 10:44:59 CPU Time: 0 0: 7: 9.72 (429.72 sec) Binary
3240 *****
3241 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3242 * Completed: 05/18/06 at 10:44:59 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3243 *****

Number of difference sections found: 23

Number of difference records found: 395

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

BF2_QB0600_ES47_TEST7_V013_OUT.DIF

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*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 2  ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
 3  ** Begun on: 02/14/07 at 09:59:42 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
 4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
 2  ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
 3  ** Begun on: 05/18/06 at 10:40:32 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
 4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 61  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;2
 62  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
 61  PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R013]BF2_TEST7_R013_QA0500.INP;1
 62  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 66  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_CLOSURE.DAT;1
 67  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
 66  PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R013]BF2_CLOSURE.DAT;1
 67  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 71  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 72  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
 71  PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
 72  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 76  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.SUM;1
 77  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
 76  PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R013]BF2_VMS82_V500_ES47_TEST7_R013.SUM;1
 77  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 81  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.BIN;1
 82  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
 81  PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R013]BF2_VMS82_V500_ES47_TEST7_R013.BIN;1
 82  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 86  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.ROT;1
 87  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
 86  PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R013]BF2_VMS82_V500_ES47_TEST7_R013.ROT;1
 87  *****
*****
```

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
195 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
196 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
197 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
198 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
199 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
200 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
201 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
202 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
203 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
204 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
205 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
206 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
207 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
208 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
209 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
210 58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
211 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
212 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
213 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
214 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
215 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
216 64 0 0 CONCST Salt concentration -- simple model kg/m^3
217 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
218 66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
224 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
225 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
226 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
227 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
228 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
229 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
230 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
231 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
232 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
233 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241 89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
247 95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
248 96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249 97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
```

Information Only

```
263 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264 112 0 0 H2OFLOWIN Water inflow rate kg/s
265 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271 119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
272 120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
273 121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274 122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275 123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
276 124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
278
```

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

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1

```
195 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200 48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204 52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205 53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206 54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207 55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208 56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209 57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
216 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
217 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
218 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
224 72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
225 73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
226 74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
227 75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
228 76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
229 77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
230 78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
231 79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
232 80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
233 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
234 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
235 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
236 84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
237 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
238 86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
239 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
240 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
241 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
247 95 0 0 H2OFLOWIN Water inflow rate kg/s
248 96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
249 97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
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851  instead of Input IC's for the Waste
852  [0=No, 1=Yes] (ICWASTE) = 1
854  Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
855  Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
856  Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
857  Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
859  -----
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 949  39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
 950  TOL = 1.0000E-02
 951  SOCEFFMIN = 1.0000E-03
 953  Fracture model will be used? (KRACTURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
 926  Fracture model will be used? (KRACTURE): T
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
1086  Intrinsic reaction rate constants? (LINTRIN): F
1088  Reaction rate constants (RK):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
1059  Reaction rate constants (RK):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
1096  MgO hydration reaction rate constants:
1097  Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098  Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100  Gas generation factors for biodegradation reaction:
1101  Waste Area # 1
1102  H2/H2S production (RXH2S) = 1.428000E+00
1103  CO2 production (RXCO2) = 0.000000E+00
1105  Gas generation factors for biodegradation reaction:
1106  Waste Area # 2
1107  H2/H2S production (RXH2S) = 1.428000E+00
1108  CO2 production (RXCO2) = 0.000000E+00
1110  Saturation cutoff value (SOCMIN): 0.000000E+00
1112  Stoichiometric coeff's for Rxn 1:
1113  H2 coefficient = 1.280200E+00
1114  H2O coefficient = -1.439700E+00
1115  Fe coefficient = -1.000000E+00
1116  Bio coefficient = 0.000000E+00
1117  Fe(OH)2 coefficient = 0.000000E+00
1118  FeS coefficient = 0.000000E+00
1119  MgO coefficient = 0.000000E+00
1120  Mg(OH)2 coefficient = 0.000000E+00
1121  MgCO3 coefficient = 0.000000E+00
1123  Stoichiometric coeff's for Rxn 2:
1124  H2 coefficient = 1.428000E+00
1125  H2O coefficient = 0.000000E+00
1126  Fe coefficient = 0.000000E+00
1127  Bio coefficient = -1.000000E+00
1128  Fe(OH)2 coefficient = 0.000000E+00
1129  FeS coefficient = 0.000000E+00
1130  MgO coefficient = 0.000000E+00
1131  Mg(OH)2 coefficient = 0.000000E+00
1132  MgCO3 coefficient = 0.000000E+00
1134  Stoichiometric coeff's for Rxn 3:
1135  H2 coefficient = 0.000000E+00
1136  H2O coefficient = 0.000000E+00
1137  Fe coefficient = 0.000000E+00
1138  Bio coefficient = 0.000000E+00
1139  Fe(OH)2 coefficient = 0.000000E+00
1140  FeS coefficient = 0.000000E+00
1141  MgO coefficient = 0.000000E+00
1142  Mg(OH)2 coefficient = 0.000000E+00
1143  MgCO3 coefficient = 0.000000E+00
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1145 Stoichiometric coeff's for Rxn 4:
1146 H2 coefficient = 0.000000E+00
1147 H2O coefficient = 0.000000E+00
1148 Fe coefficient = 0.000000E+00
1149 Bio coefficient = 0.000000E+00
1150 Fe(OH)2 coefficient = 0.000000E+00
1151 FeS coefficient = 0.000000E+00
1152 MgO coefficient = 0.000000E+00
1153 Mg(OH)2 coefficient = 0.000000E+00
1154 MgCO3 coefficient = 0.000000E+00
1155 Stoichiometric coeff's for Rxn 5:
1156 H2 coefficient = 0.000000E+00
1157 H2O coefficient = 0.000000E+00
1158 Fe coefficient = 0.000000E+00
1159 Bio coefficient = 0.000000E+00
1160 Fe(OH)2 coefficient = 0.000000E+00
1161 FeS coefficient = 0.000000E+00
1162 MgO coefficient = 0.000000E+00
1163 Mg(OH)2 coefficient = 0.000000E+00
1164 MgCO3 coefficient = 0.000000E+00
1165 Stoichiometric coeff's for Rxn 6:
1166 H2 coefficient = 0.000000E+00
1167 H2O coefficient = 0.000000E+00
1168 Fe coefficient = 0.000000E+00
1169 Bio coefficient = 0.000000E+00
1170 Fe(OH)2 coefficient = 0.000000E+00
1171 FeS coefficient = 0.000000E+00
1172 MgO coefficient = 0.000000E+00
1173 Mg(OH)2 coefficient = 0.000000E+00
1174 MgCO3 coefficient = 0.000000E+00
1175 Stoichiometric coeff's for Rxn 7:
1176 H2 coefficient = 0.000000E+00
1177 H2O coefficient = 0.000000E+00
1178 Fe coefficient = 0.000000E+00
1179 Bio coefficient = 0.000000E+00
1180 Fe(OH)2 coefficient = 0.000000E+00
1181 FeS coefficient = 0.000000E+00
1182 MgO coefficient = 0.000000E+00
1183 Mg(OH)2 coefficient = 0.000000E+00
1184 MgCO3 coefficient = 0.000000E+00
1185 Wicking term (SATWICK) = 0.000000E+00
1186 Humid rates to be smoothed? (LARKN) = T
1187 Concentration rates to be smoothed? (LARKN2) = F
1188 Humid rate smoothing factor (ALPHARKN) = 1.000000E+03
1189 Molecular weights (WM):
1190 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
1067 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068 Gas coefficient = 1.280200E+00
1069 H2O coefficient = 1.439700E+00
1070 Fe coefficient = 1.000000E+00
1071 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1072 Gas coefficient = 1.428000E+00
1073 H2O coefficient = 0.000000E+00
1074 Bio coefficient = 1.000000E+00
1075 Molecular weights (WM):
1076 *****
1077 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
1200 Molecular weights (WM):
1201 Fe(OH)2: 8.9862E-02 kg/mol
1202 FeS: 8.7900E-02 kg/mol
1203 MgO: 4.0304E-02 kg/mol
1204 Mg(OH)2: 5.8320E-02 kg/mol
1205 MgCO3: 8.4314E-02 kg/mol
1206 Densities (DEN(1-4)):
1207 Fe: 7.8700E+03 kg/m3
1208 Fe(OH)2: 3.4000E+03 kg/m3
1209 FeS: 4.7000E+03 kg/m3
1210 Bio: 1.1000E+03 kg/m3
1211 Densities (DEN(5-8)):
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1214 MgO: 3.6000E+03 kg/m3
1215 Mg(OH)2: 2.3700E+03 kg/m3
1216 MgCO3: 3.0500E+03 kg/m3
1217 SALT: 2.1700E+03 kg/m3
1219 Will creep closure be used (CLOSURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
1083 Wicking term (SATWICK) = 0.000000E+00
1084 Humid rates to be smoothed? (LARKN) = T
1085 Humid rate smoothing factor (ALPHARKN) = 1.000000E+03
1087 Will creep closure be used (CLOSURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
1233 PHIUPPER = Upper porosity limit in permeability-porosity expression
1234 PHILOWER = Lower porosity limit in permeability-porosity expression
1235 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
1236 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1237 4 1.480000E+07 3.155700E+12 1 F
1238 MODPERM Parameters
1239 Model Number (CLOSPERMFAC) [m^2] (CLOSPERMEXP) [-]
1240 4 5.584700E-12 0.000000E+00
1242 Number of materials using closure (NMATCLOS) = 2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
1101 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFAC) [m^2] (CLOSPERMEXP) [-]
1102 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1103 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105 Number of materials using closure (NMATCLOS) = 2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
1260 *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1263 *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1266 *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1269 *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
1272 *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
1276
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
1123 *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1126 *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1130
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
1300 57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1301 58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1303 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
1154 47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1155 48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1157 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 21.39 sec = 0.00594 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
1626 CPU Time (this time step) = 0.12 sec = 0.00003 hr
1627 CPU Time (total for run) = 19.52 sec = 0.00542 hr
1628 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
2450 Date: 02/14/07 Time: 10:00:03 CPU Time: 0 0: 0:21.41 ( 21.41 sec) ASCII
2452 Time Step No. = 140 Elapsed Time = 0.000000E+00 days
```


2453 Date: 02/14/07 Time: 10:00:03 CPU Time: 0 0: 0:21.41 (21.41 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 3.349069E-03 days
2456 Date: 02/14/07 Time: 10:00:07 CPU Time: 0 0: 0:24.99 (24.99 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 2.938345E-01 days
2459 Date: 02/14/07 Time: 10:00:10 CPU Time: 0 0: 0:28.33 (28.33 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 2.474097E+01 days
2462 Date: 02/14/07 Time: 10:00:14 CPU Time: 0 0: 0:31.73 (31.73 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 8.724359E+02 days
2465 Date: 02/14/07 Time: 10:00:19 CPU Time: 0 0: 0:36.96 (36.96 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 1.061273E+04 days
2468 Date: 02/14/07 Time: 10:00:25 CPU Time: 0 0: 0:42.87 (42.87 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 2.155677E+04 days
2471 Date: 02/14/07 Time: 10:00:32 CPU Time: 0 0: 0:49.72 (49.72 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 3.652647E+04 days
2474 Date: 02/14/07 Time: 10:00:37 CPU Time: 0 0: 0:55.02 (55.02 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 3.665348E+04 days
2477 Date: 02/14/07 Time: 10:00:41 CPU Time: 0 0: 0:59.42 (59.42 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 3.665883E+04 days
2480 Date: 02/14/07 Time: 10:00:43 CPU Time: 0 0: 1: 1.18 (61.18 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 3.699010E+04 days
2483 Date: 02/14/07 Time: 10:00:47 CPU Time: 0 0: 1: 4.89 (64.89 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 6.033302E+04 days
2486 Date: 02/14/07 Time: 10:00:52 CPU Time: 0 0: 1: 9.99 (69.99 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 1.684360E+05 days
2489 Date: 02/14/07 Time: 10:01:00 CPU Time: 0 0: 1:17.78 (77.78 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 3.612153E+05 days
2492 Date: 02/14/07 Time: 10:01:08 CPU Time: 0 0: 1:26.16 (86.16 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 3.652431E+05 days
2495 Date: 02/14/07 Time: 10:01:16 CPU Time: 0 0: 1:34.41 (94.41 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 3.652431E+05 days
2498 Date: 02/14/07 Time: 10:01:19 CPU Time: 0 0: 1:37.00 (97.00 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 3.652440E+05 days
2501 Date: 02/14/07 Time: 10:01:22 CPU Time: 0 0: 1:39.59 (99.59 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 3.652772E+05 days
2504 Date: 02/14/07 Time: 10:01:26 CPU Time: 0 0: 1:44.20 (104.20 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 3.654262E+05 days
2507 Date: 02/14/07 Time: 10:01:33 CPU Time: 0 0: 1:50.81 (110.81 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 3.662645E+05 days
2510 Date: 02/14/07 Time: 10:01:37 CPU Time: 0 0: 1:55.04 (115.04 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 3.667286E+05 days
2513 Date: 02/14/07 Time: 10:01:39 CPU Time: 0 0: 1:56.94 (116.94 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 3.669189E+05 days
2516 Date: 02/14/07 Time: 10:01:41 CPU Time: 0 0: 1:59.48 (119.48 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 3.688841E+05 days
2519 Date: 02/14/07 Time: 10:01:49 CPU Time: 0 0: 2: 7.23 (127.23 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 3.692609E+05 days
2522 Date: 02/14/07 Time: 10:01:55 CPU Time: 0 0: 2:12.52 (132.52 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 3.727217E+05 days
2525 Date: 02/14/07 Time: 10:02:02 CPU Time: 0 0: 2:19.78 (139.78 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 3.728322E+05 days
2528 Date: 02/14/07 Time: 10:02:07 CPU Time: 0 0: 2:24.81 (144.81 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 3.736573E+05 days
2531 Date: 02/14/07 Time: 10:02:11 CPU Time: 0 0: 2:28.79 (148.79 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 3.751879E+05 days
2534 Date: 02/14/07 Time: 10:02:18 CPU Time: 0 0: 2:36.13 (156.13 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 3.753562E+05 days
2537 Date: 02/14/07 Time: 10:02:24 CPU Time: 0 0: 2:41.67 (161.67 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 3.760316E+05 days
2540 Date: 02/14/07 Time: 10:02:28 CPU Time: 0 0: 2:46.00 (166.00 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 3.825332E+05 days
2543 Date: 02/14/07 Time: 10:02:34 CPU Time: 0 0: 2:51.74 (171.74 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 3.866955E+05 days
2546 Date: 02/14/07 Time: 10:02:40 CPU Time: 0 0: 2:57.23 (177.23 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.873444E+05 days
2549 Date: 02/14/07 Time: 10:02:45 CPU Time: 0 0: 3: 2.89 (182.89 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.889694E+05 days
2552 Date: 02/14/07 Time: 10:02:51 CPU Time: 0 0: 3: 8.13 (188.13 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 4.148787E+05 days
2555 Date: 02/14/07 Time: 10:02:56 CPU Time: 0 0: 3:13.93 (193.93 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 4.172059E+05 days
2558 Date: 02/14/07 Time: 10:03:03 CPU Time: 0 0: 3:20.19 (200.19 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 4.696437E+05 days
2561 Date: 02/14/07 Time: 10:03:09 CPU Time: 0 0: 3:26.00 (206.00 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 4.778589E+05 days
2564 Date: 02/14/07 Time: 10:03:15 CPU Time: 0 0: 3:32.43 (212.43 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 5.620786E+05 days

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2567 Date: 02/14/07 Time: 10:03:23 CPU Time: 0 0: 3:40.80 ( 220.80 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 6.268580E+05 days
2570 Date: 02/14/07 Time: 10:03:33 CPU Time: 0 0: 3:50.44 ( 230.44 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 6.704336E+05 days
2573 Date: 02/14/07 Time: 10:03:40 CPU Time: 0 0: 3:56.93 ( 236.93 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 9.857664E+05 days
2576 Date: 02/14/07 Time: 10:03:49 CPU Time: 0 0: 4: 5.76 ( 245.76 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 1.073310E+06 days
2579 Date: 02/14/07 Time: 10:03:56 CPU Time: 0 0: 4:13.00 ( 253.00 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 1.150990E+06 days
2582 Date: 02/14/07 Time: 10:04:04 CPU Time: 0 0: 4:21.02 ( 261.02 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 1.287816E+06 days
2585 Date: 02/14/07 Time: 10:04:12 CPU Time: 0 0: 4:29.33 ( 269.33 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 1.308346E+06 days
2588 Date: 02/14/07 Time: 10:04:21 CPU Time: 0 0: 4:37.72 ( 277.72 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 1.456825E+06 days
2591 Date: 02/14/07 Time: 10:04:26 CPU Time: 0 0: 4:42.82 ( 282.82 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 1.537825E+06 days
2594 Date: 02/14/07 Time: 10:04:33 CPU Time: 0 0: 4:50.27 ( 290.27 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 1.696934E+06 days
2597 Date: 02/14/07 Time: 10:04:42 CPU Time: 0 0: 4:59.13 ( 299.13 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 1.751881E+06 days
2600 Date: 02/14/07 Time: 10:04:50 CPU Time: 0 0: 5: 7.35 ( 307.35 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 1.820898E+06 days
2603 Date: 02/14/07 Time: 10:05:00 CPU Time: 0 0: 5:16.62 ( 316.62 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 1.881985E+06 days
2606 Date: 02/14/07 Time: 10:05:06 CPU Time: 0 0: 5:23.09 ( 323.09 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 1.916306E+06 days
2609 Date: 02/14/07 Time: 10:05:16 CPU Time: 0 0: 5:33.16 ( 333.16 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 1.918460E+06 days
2612 Date: 02/14/07 Time: 10:05:23 CPU Time: 0 0: 5:40.34 ( 340.34 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 1.946643E+06 days
2615 Date: 02/14/07 Time: 10:05:30 CPU Time: 0 0: 5:46.69 ( 346.69 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 1.960029E+06 days
2618 Date: 02/14/07 Time: 10:05:37 CPU Time: 0 0: 5:54.42 ( 354.42 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 2.008712E+06 days
2621 Date: 02/14/07 Time: 10:05:43 CPU Time: 0 0: 6: 0.32 ( 360.32 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 2.077272E+06 days
2624 Date: 02/14/07 Time: 10:05:53 CPU Time: 0 0: 6:10.03 ( 370.03 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 2.097683E+06 days
2627 Date: 02/14/07 Time: 10:06:00 CPU Time: 0 0: 6:17.28 ( 377.28 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 2.146337E+06 days
2630 Date: 02/14/07 Time: 10:06:09 CPU Time: 0 0: 6:25.64 ( 385.64 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 2.165527E+06 days
2633 Date: 02/14/07 Time: 10:06:16 CPU Time: 0 0: 6:32.86 ( 392.86 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 2.287329E+06 days
2636 Date: 02/14/07 Time: 10:06:21 CPU Time: 0 0: 6:37.40 ( 397.40 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 2.468490E+06 days
2639 Date: 02/14/07 Time: 10:06:28 CPU Time: 0 0: 6:45.00 ( 405.00 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 2.868490E+06 days
2642 Date: 02/14/07 Time: 10:06:34 CPU Time: 0 0: 6:50.47 ( 410.47 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 2.934390E+06 days
2645 Date: 02/14/07 Time: 10:06:40 CPU Time: 0 0: 6:57.02 ( 417.02 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 2.959040E+06 days
2648 Date: 02/14/07 Time: 10:06:48 CPU Time: 0 0: 7: 4.18 ( 424.18 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 2.965271E+06 days
2651 Date: 02/14/07 Time: 10:06:51 CPU Time: 0 0: 7: 7.89 ( 427.89 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 3.018341E+06 days
2654 Date: 02/14/07 Time: 10:06:59 CPU Time: 0 0: 7:15.19 ( 435.19 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 3.091685E+06 days
2657 Date: 02/14/07 Time: 10:07:06 CPU Time: 0 0: 7:22.74 ( 442.74 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 3.113442E+06 days
2660 Date: 02/14/07 Time: 10:07:11 CPU Time: 0 0: 7:27.70 ( 447.70 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 3.431278E+06 days
2663 Date: 02/14/07 Time: 10:07:16 CPU Time: 0 0: 7:32.17 ( 452.17 sec) Binary
2666 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
2304 Date: 05/18/06 Time: 10:40:51 CPU Time: 0 0: 0:19.52 ( 19.52 sec) ASCII
2306 Time Step No. = 140 Elapsed Time = 0.000000E+00 days
2307 Date: 05/18/06 Time: 10:40:51 CPU Time: 0 0: 0:19.53 ( 19.53 sec) Binary
2309 Time Step No. = 160 Elapsed Time = 3.349069E-03 days
2310 Date: 05/18/06 Time: 10:40:55 CPU Time: 0 0: 0:22.75 ( 22.75 sec) Binary
2312 Time Step No. = 180 Elapsed Time = 2.938345E-01 days
2313 Date: 05/18/06 Time: 10:40:58 CPU Time: 0 0: 0:25.73 ( 25.73 sec) Binary
2315 Time Step No. = 200 Elapsed Time = 2.474097E+01 days
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2316 Date: 05/18/06 Time: 10:41:01 CPU Time: 0 0: 0:28.78 (28.78 sec) Binary
2318 Time Step No. = 220 Elapsed Time = 8.724359E+02 days
2319 Date: 05/18/06 Time: 10:41:05 CPU Time: 0 0: 0:33.46 (33.46 sec) Binary
2321 Time Step No. = 240 Elapsed Time = 1.061273E+04 days
2322 Date: 05/18/06 Time: 10:41:11 CPU Time: 0 0: 0:38.77 (38.77 sec) Binary
2324 Time Step No. = 260 Elapsed Time = 2.155677E+04 days
2325 Date: 05/18/06 Time: 10:41:17 CPU Time: 0 0: 0:44.91 (44.91 sec) Binary
2327 Time Step No. = 280 Elapsed Time = 3.652647E+04 days
2328 Date: 05/18/06 Time: 10:41:21 CPU Time: 0 0: 0:49.63 (49.63 sec) Binary
2330 Time Step No. = 300 Elapsed Time = 3.665348E+04 days
2331 Date: 05/18/06 Time: 10:41:25 CPU Time: 0 0: 0:53.58 (53.58 sec) Binary
2333 Time Step No. = 320 Elapsed Time = 3.665883E+04 days
2334 Date: 05/18/06 Time: 10:41:27 CPU Time: 0 0: 0:55.17 (55.17 sec) Binary
2336 Time Step No. = 340 Elapsed Time = 3.699010E+04 days
2337 Date: 05/18/06 Time: 10:41:30 CPU Time: 0 0: 0:58.51 (58.51 sec) Binary
2339 Time Step No. = 360 Elapsed Time = 6.033302E+04 days
2340 Date: 05/18/06 Time: 10:41:35 CPU Time: 0 0: 1: 3.08 (63.08 sec) Binary
2342 Time Step No. = 380 Elapsed Time = 1.684360E+05 days
2343 Date: 05/18/06 Time: 10:41:42 CPU Time: 0 0: 1:10.06 (70.06 sec) Binary
2345 Time Step No. = 400 Elapsed Time = 3.612153E+05 days
2346 Date: 05/18/06 Time: 10:41:49 CPU Time: 0 0: 1:17.57 (77.57 sec) Binary
2348 Time Step No. = 420 Elapsed Time = 3.652431E+05 days
2349 Date: 05/18/06 Time: 10:41:57 CPU Time: 0 0: 1:24.95 (84.95 sec) Binary
2351 Time Step No. = 440 Elapsed Time = 3.652431E+05 days
2352 Date: 05/18/06 Time: 10:41:59 CPU Time: 0 0: 1:27.29 (87.29 sec) Binary
2354 Time Step No. = 460 Elapsed Time = 3.652440E+05 days
2355 Date: 05/18/06 Time: 10:42:02 CPU Time: 0 0: 1:29.62 (89.62 sec) Binary
2357 Time Step No. = 480 Elapsed Time = 3.652772E+05 days
2358 Date: 05/18/06 Time: 10:42:05 CPU Time: 0 0: 1:33.39 (93.39 sec) Binary
2360 Time Step No. = 500 Elapsed Time = 3.654262E+05 days
2361 Date: 05/18/06 Time: 10:42:11 CPU Time: 0 0: 1:39.26 (99.26 sec) Binary
2363 Time Step No. = 520 Elapsed Time = 3.662645E+05 days
2364 Date: 05/18/06 Time: 10:42:15 CPU Time: 0 0: 1:43.07 (103.07 sec) Binary
2366 Time Step No. = 540 Elapsed Time = 3.667286E+05 days
2367 Date: 05/18/06 Time: 10:42:17 CPU Time: 0 0: 1:44.74 (104.74 sec) Binary
2369 Time Step No. = 560 Elapsed Time = 3.669189E+05 days
2370 Date: 05/18/06 Time: 10:42:19 CPU Time: 0 0: 1:46.94 (106.94 sec) Binary
2372 Time Step No. = 580 Elapsed Time = 3.688841E+05 days
2373 Date: 05/18/06 Time: 10:42:25 CPU Time: 0 0: 1:53.48 (113.48 sec) Binary
2375 Time Step No. = 600 Elapsed Time = 3.692609E+05 days
2376 Date: 05/18/06 Time: 10:42:30 CPU Time: 0 0: 1:57.91 (117.91 sec) Binary
2378 Time Step No. = 620 Elapsed Time = 3.727217E+05 days
2379 Date: 05/18/06 Time: 10:42:36 CPU Time: 0 0: 2: 4.00 (124.00 sec) Binary
2381 Time Step No. = 640 Elapsed Time = 3.728322E+05 days
2382 Date: 05/18/06 Time: 10:42:41 CPU Time: 0 0: 2: 8.57 (128.57 sec) Binary
2384 Time Step No. = 660 Elapsed Time = 3.736573E+05 days
2385 Date: 05/18/06 Time: 10:42:44 CPU Time: 0 0: 2:12.19 (132.19 sec) Binary
2387 Time Step No. = 680 Elapsed Time = 3.751879E+05 days
2388 Date: 05/18/06 Time: 10:42:51 CPU Time: 0 0: 2:18.74 (138.74 sec) Binary
2390 Time Step No. = 700 Elapsed Time = 3.753562E+05 days
2391 Date: 05/18/06 Time: 10:42:56 CPU Time: 0 0: 2:23.62 (143.62 sec) Binary
2393 Time Step No. = 720 Elapsed Time = 3.760316E+05 days
2394 Date: 05/18/06 Time: 10:42:59 CPU Time: 0 0: 2:27.18 (147.18 sec) Binary
2396 Time Step No. = 740 Elapsed Time = 3.825332E+05 days
2397 Date: 05/18/06 Time: 10:43:04 CPU Time: 0 0: 2:31.87 (151.87 sec) Binary
2399 Time Step No. = 760 Elapsed Time = 3.866955E+05 days
2400 Date: 05/18/06 Time: 10:43:09 CPU Time: 0 0: 2:36.37 (156.37 sec) Binary
2402 Time Step No. = 780 Elapsed Time = 3.873444E+05 days
2403 Date: 05/18/06 Time: 10:43:13 CPU Time: 0 0: 2:41.04 (161.04 sec) Binary
2405 Time Step No. = 800 Elapsed Time = 3.889694E+05 days
2406 Date: 05/18/06 Time: 10:43:18 CPU Time: 0 0: 2:45.34 (165.34 sec) Binary
2408 Time Step No. = 820 Elapsed Time = 4.148787E+05 days
2409 Date: 05/18/06 Time: 10:43:22 CPU Time: 0 0: 2:50.26 (170.26 sec) Binary
2411 Time Step No. = 840 Elapsed Time = 4.172059E+05 days
2412 Date: 05/18/06 Time: 10:43:28 CPU Time: 0 0: 2:55.89 (175.89 sec) Binary
2414 Time Step No. = 860 Elapsed Time = 4.696437E+05 days
2415 Date: 05/18/06 Time: 10:43:33 CPU Time: 0 0: 3: 1.14 (181.14 sec) Binary
2417 Time Step No. = 880 Elapsed Time = 4.778589E+05 days
2418 Date: 05/18/06 Time: 10:43:39 CPU Time: 0 0: 3: 6.72 (186.72 sec) Binary
2420 Time Step No. = 900 Elapsed Time = 5.620786E+05 days
2421 Date: 05/18/06 Time: 10:43:46 CPU Time: 0 0: 3:13.96 (193.96 sec) Binary
2423 Time Step No. = 920 Elapsed Time = 6.268580E+05 days
2424 Date: 05/18/06 Time: 10:43:55 CPU Time: 0 0: 3:22.26 (202.26 sec) Binary
2426 Time Step No. = 940 Elapsed Time = 6.704336E+05 days
2427 Date: 05/18/06 Time: 10:44:00 CPU Time: 0 0: 3:27.85 (207.85 sec) Binary
2429 Time Step No. = 960 Elapsed Time = 9.857664E+05 days

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2430 Date: 05/18/06 Time: 10:44:07 CPU Time: 0 0: 3:35.00 ( 215.00 sec) Binary
2432 Time Step No. = 980 Elapsed Time = 1.073310E+06 days
2433 Date: 05/18/06 Time: 10:44:13 CPU Time: 0 0: 3:40.70 ( 220.70 sec) Binary
2435 Time Step No. = 1000 Elapsed Time = 1.150990E+06 days
2436 Date: 05/18/06 Time: 10:44:20 CPU Time: 0 0: 3:47.10 ( 227.10 sec) Binary
2438 Time Step No. = 1020 Elapsed Time = 1.287816E+06 days
2439 Date: 05/18/06 Time: 10:44:26 CPU Time: 0 0: 3:53.68 ( 233.68 sec) Binary
2441 Time Step No. = 1040 Elapsed Time = 1.308346E+06 days
2442 Date: 05/18/06 Time: 10:44:33 CPU Time: 0 0: 4: 0.35 ( 240.35 sec) Binary
2444 Time Step No. = 1060 Elapsed Time = 1.456825E+06 days
2445 Date: 05/18/06 Time: 10:44:37 CPU Time: 0 0: 4: 4.41 ( 244.41 sec) Binary
2447 Time Step No. = 1080 Elapsed Time = 1.537825E+06 days
2448 Date: 05/18/06 Time: 10:44:43 CPU Time: 0 0: 4:10.77 ( 250.77 sec) Binary
2450 Time Step No. = 1100 Elapsed Time = 1.696934E+06 days
2451 Date: 05/18/06 Time: 10:44:51 CPU Time: 0 0: 4:18.42 ( 258.42 sec) Binary
2453 Time Step No. = 1120 Elapsed Time = 1.751881E+06 days
2454 Date: 05/18/06 Time: 10:44:58 CPU Time: 0 0: 4:25.51 ( 265.51 sec) Binary
2456 Time Step No. = 1140 Elapsed Time = 1.820898E+06 days
2457 Date: 05/18/06 Time: 10:45:06 CPU Time: 0 0: 4:33.52 ( 273.52 sec) Binary
2459 Time Step No. = 1160 Elapsed Time = 1.881985E+06 days
2460 Date: 05/18/06 Time: 10:45:12 CPU Time: 0 0: 4:39.04 ( 279.04 sec) Binary
2462 Time Step No. = 1180 Elapsed Time = 1.916306E+06 days
2463 Date: 05/18/06 Time: 10:45:20 CPU Time: 0 0: 4:47.30 ( 287.30 sec) Binary
2465 Time Step No. = 1200 Elapsed Time = 1.918460E+06 days
2466 Date: 05/18/06 Time: 10:45:26 CPU Time: 0 0: 4:53.37 ( 293.37 sec) Binary
2468 Time Step No. = 1220 Elapsed Time = 1.946643E+06 days
2469 Date: 05/18/06 Time: 10:45:32 CPU Time: 0 0: 4:58.81 ( 298.81 sec) Binary
2471 Time Step No. = 1240 Elapsed Time = 1.960029E+06 days
2472 Date: 05/18/06 Time: 10:45:38 CPU Time: 0 0: 5: 5.30 ( 305.30 sec) Binary
2474 Time Step No. = 1260 Elapsed Time = 2.008712E+06 days
2475 Date: 05/18/06 Time: 10:45:43 CPU Time: 0 0: 5:10.06 ( 310.06 sec) Binary
2477 Time Step No. = 1280 Elapsed Time = 2.077272E+06 days
2478 Date: 05/18/06 Time: 10:45:51 CPU Time: 0 0: 5:17.61 ( 317.61 sec) Binary
2480 Time Step No. = 1300 Elapsed Time = 2.097683E+06 days
2481 Date: 05/18/06 Time: 10:45:56 CPU Time: 0 0: 5:23.26 ( 323.26 sec) Binary
2483 Time Step No. = 1320 Elapsed Time = 2.146337E+06 days
2484 Date: 05/18/06 Time: 10:46:03 CPU Time: 0 0: 5:29.96 ( 329.96 sec) Binary
2486 Time Step No. = 1340 Elapsed Time = 2.165527E+06 days
2487 Date: 05/18/06 Time: 10:46:09 CPU Time: 0 0: 5:35.97 ( 335.97 sec) Binary
2489 Time Step No. = 1360 Elapsed Time = 2.287329E+06 days
2490 Date: 05/18/06 Time: 10:46:13 CPU Time: 0 0: 5:39.74 ( 339.74 sec) Binary
2492 Time Step No. = 1380 Elapsed Time = 2.468490E+06 days
2493 Date: 05/18/06 Time: 10:46:19 CPU Time: 0 0: 5:46.07 ( 346.07 sec) Binary
2495 Time Step No. = 1400 Elapsed Time = 2.868490E+06 days
2496 Date: 05/18/06 Time: 10:46:24 CPU Time: 0 0: 5:50.65 ( 350.65 sec) Binary
2498 Time Step No. = 1420 Elapsed Time = 2.934390E+06 days
2499 Date: 05/18/06 Time: 10:46:29 CPU Time: 0 0: 5:56.20 ( 356.20 sec) Binary
2501 Time Step No. = 1440 Elapsed Time = 2.959040E+06 days
2502 Date: 05/18/06 Time: 10:46:35 CPU Time: 0 0: 6: 2.22 ( 362.22 sec) Binary
2504 Time Step No. = 1460 Elapsed Time = 2.965271E+06 days
2505 Date: 05/18/06 Time: 10:46:38 CPU Time: 0 0: 6: 5.36 ( 365.36 sec) Binary
2507 Time Step No. = 1480 Elapsed Time = 3.018341E+06 days
2508 Date: 05/18/06 Time: 10:46:45 CPU Time: 0 0: 6:11.48 ( 371.48 sec) Binary
2510 Time Step No. = 1500 Elapsed Time = 3.091685E+06 days
2511 Date: 05/18/06 Time: 10:46:51 CPU Time: 0 0: 6:17.82 ( 377.82 sec) Binary
2513 Time Step No. = 1520 Elapsed Time = 3.113442E+06 days
2514 Date: 05/18/06 Time: 10:46:55 CPU Time: 0 0: 6:22.00 ( 382.00 sec) Binary
2516 Time Step No. = 1540 Elapsed Time = 3.431278E+06 days
2517 Date: 05/18/06 Time: 10:46:59 CPU Time: 0 0: 6:25.75 ( 385.75 sec) Binary
2520 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
2682 CPU Time (this time step) = 0.13 sec = 0.00004 hr
2683 CPU Time (total for run) = 454.65 sec = 0.12629 hr
2684 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
2536 CPU Time (this time step) = 0.11 sec = 0.00003 hr
2537 CPU Time (total for run) = 387.84 sec = 0.10773 hr
2538 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
3360 Date: 02/14/07 Time: 10:07:18 CPU Time: 0 0: 7:34.66 ( 454.66 sec) ASCII
3362 Time Step No. = 1552 Elapsed Time = 3.652431E+06 days
```

```
3363 Date: 02/14/07 Time: 10:07:18 CPU Time: 0 0: 7:34.66 ( 454.66 sec) Binary
3368 *****
3369 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3370 * Completed: 02/14/07 at 10:07:18 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3371 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
3214 Date: 05/18/06 Time: 10:47:01 CPU Time: 0 0: 6:27.85 ( 387.85 sec) ASCII
3216 Time Step No. = 1552 Elapsed Time = 3.652431E+06 days
3217 Date: 05/18/06 Time: 10:47:01 CPU Time: 0 0: 6:27.85 ( 387.85 sec) Binary
3222 *****
3223 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3224 * Completed: 05/18/06 at 10:47:01 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3225 *****
*****
```

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

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

BF2_QB0600_ES47_TEST7_V014_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3 ** Begun on: 02/14/07 at 10:03:56 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
2 ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3 ** Begun on: 05/18/06 at 10:44:40 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R014]BF2_TEST7_R014_QA0500.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R014]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R014]BF2_VMS82_V500_ES47_TEST7_R014.SUM;1
77 *****
*****
*****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R014]BF2_VMS82_V500_ES47_TEST7_R014.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
86 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R014]BF2_VMS82_V500_ES47_TEST7_R014.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
195 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
196 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
197 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
198 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
199 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
200 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
201 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
202 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
203 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
204 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
205 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
206 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
207 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
208 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
209 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
210 58 1 1 CONCBO C6-H10-O5 concentration -- simple model kg/m^3
211 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
212 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
213 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
214 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
215 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
216 64 0 0 CONCST Salt concentration -- simple model kg/m^3
217 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
218 66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
224 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
225 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
226 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
227 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
228 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
229 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
230 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
231 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
232 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
233 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241 89 0 0 CONCRKN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRKN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243 91 0 0 CONCRKN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244 92 0 0 CONCRKN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRKN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
246 94 0 0 CONCRKN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
```

247 95 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
248 96 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249 97 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264 112 0 0 H2OFLOWIN Water inflow rate kg/s
265 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271 119 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
272 120 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg
273 121 0 0 B_CONC(1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274 122 0 0 B_CONC(1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275 123 0 0 S_MASS(1,1) Solid mass of isotope 1 from Waste Region 1 kg
276 124 0 0 S_MASS(1,2) Solid mass of isotope 1 from Waste Region 2 kg
278

File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1

195 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200 48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201 49 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 50 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 51 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204 52 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205 53 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206 54 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207 55 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208 56 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209 57 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
216 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
217 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
218 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
224 72 0 0 CONCRXN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
225 73 0 0 CONCRXN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
226 74 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
227 75 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
228 76 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
229 77 0 0 CONCRXN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
230 78 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
231 79 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
232 80 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3


```
869  instead of Input IC's for the Cavities
870  [0=No, 1=Yes] (ICWASTE) = 1
872  Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
873  Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
874  Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
875  Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
876  Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
877  Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
878  Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
879  Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
880  Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
881  Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
883
```

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
851  instead of Input IC's for the Waste
852  [0=No, 1=Yes] (ICWASTE) = 1
854  Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
855  Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
856  Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
857  Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
859
```

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
949  39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
950  TOL = 1.0000E-02
951  SOCEFFMIN = 1.0000E-03
953  Fracture model will be used? (KRACTURE): T
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
926  Fracture model will be used? (KRACTURE): T
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
1086  Intrinsic reaction rate constants? (LINTRIN): F
1088  Reaction rate constants (RK):
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
1059  Reaction rate constants (RK):
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
1096  MgO hydration reaction rate constants:
1097  Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098  Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100  Gas generation factors for biodegradation reaction:
1101  Waste Area # 1
1102  H2/H2S production (RXH2S) = 4.853000E-01
1103  CO2 production (RXCO2) = 0.000000E+00
1105  Gas generation factors for biodegradation reaction:
1106  Waste Area # 2
1107  H2/H2S production (RXH2S) = 4.853000E-01
1108  CO2 production (RXCO2) = 0.000000E+00
1110  Saturation cutoff value (SOCMIN): 0.000000E+00
1112  Stoichiometric coeff's for Rxn 1:
1113  H2 coefficient = 1.149300E+00
1114  H2O coefficient = -1.701300E+00
1115  Fe coefficient = -1.000000E+00
1116  Bio coefficient = 0.000000E+00
1117  Fe(OH)2 coefficient = 0.000000E+00
1118  FeS coefficient = 0.000000E+00
1119  MgO coefficient = 0.000000E+00
1120  Mg(OH)2 coefficient = 0.000000E+00
1121  MgCO3 coefficient = 0.000000E+00
1123  Stoichiometric coeff's for Rxn 2:
1124  H2 coefficient = 4.853000E-01
1125  H2O coefficient = 0.000000E+00
1126  Fe coefficient = 0.000000E+00
```

```
1127 Bio coefficient = -1.000000E+00
1128 Fe(OH)2 coefficient = 0.000000E+00
1129 FeS coefficient = 0.000000E+00
1130 MgO coefficient = 0.000000E+00
1131 Mg(OH)2 coefficient = 0.000000E+00
1132 MgCO3 coefficient = 0.000000E+00
1134 Stoichiometric coeff's for Rxn 3:
1135 H2 coefficient = 0.000000E+00
1136 H2O coefficient = 0.000000E+00
1137 Fe coefficient = 0.000000E+00
1138 Bio coefficient = 0.000000E+00
1139 Fe(OH)2 coefficient = 0.000000E+00
1140 FeS coefficient = 0.000000E+00
1141 MgO coefficient = 0.000000E+00
1142 Mg(OH)2 coefficient = 0.000000E+00
1143 MgCO3 coefficient = 0.000000E+00
1145 Stoichiometric coeff's for Rxn 4:
1146 H2 coefficient = 0.000000E+00
1147 H2O coefficient = 0.000000E+00
1148 Fe coefficient = 0.000000E+00
1149 Bio coefficient = 0.000000E+00
1150 Fe(OH)2 coefficient = 0.000000E+00
1151 FeS coefficient = 0.000000E+00
1152 MgO coefficient = 0.000000E+00
1153 Mg(OH)2 coefficient = 0.000000E+00
1154 MgCO3 coefficient = 0.000000E+00
1156 Stoichiometric coeff's for Rxn 5:
1157 H2 coefficient = 0.000000E+00
1158 H2O coefficient = 0.000000E+00
1159 Fe coefficient = 0.000000E+00
1160 Bio coefficient = 0.000000E+00
1161 Fe(OH)2 coefficient = 0.000000E+00
1162 FeS coefficient = 0.000000E+00
1163 MgO coefficient = 0.000000E+00
1164 Mg(OH)2 coefficient = 0.000000E+00
1165 MgCO3 coefficient = 0.000000E+00
1167 Stoichiometric coeff's for Rxn 6:
1168 H2 coefficient = 0.000000E+00
1169 H2O coefficient = 0.000000E+00
1170 Fe coefficient = 0.000000E+00
1171 Bio coefficient = 0.000000E+00
1172 Fe(OH)2 coefficient = 0.000000E+00
1173 FeS coefficient = 0.000000E+00
1174 MgO coefficient = 0.000000E+00
1175 Mg(OH)2 coefficient = 0.000000E+00
1176 MgCO3 coefficient = 0.000000E+00
1178 Stoichiometric coeff's for Rxn 7:
1179 H2 coefficient = 0.000000E+00
1180 H2O coefficient = 0.000000E+00
1181 Fe coefficient = 0.000000E+00
1182 Bio coefficient = 0.000000E+00
1183 Fe(OH)2 coefficient = 0.000000E+00
1184 FeS coefficient = 0.000000E+00
1185 MgO coefficient = 0.000000E+00
1186 Mg(OH)2 coefficient = 0.000000E+00
1187 MgCO3 coefficient = 0.000000E+00
1189 Wicking term (SATWICK) = 0.000000E+00
1190 Humid rates to be smoothed? (LARKN) = T
1191 Concentration rates to be smoothed? (LARKN2) = F
1192 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1194 Molecular weights (WM):
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
1067 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068 Gas coefficient = 1.149300E+00
1069 H2O coefficient = 1.701300E+00
1070 Fe coefficient = 1.000000E+00
1072 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073 Gas coefficient = 4.853000E-01
1074 H2O coefficient = 0.000000E+00
```

```
1075 Bio coefficient = 1.000000E+00
1077 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
1200 Molecular weights (WM):
1201 Fe(OH)2: 8.9862E-02 kg/mol
1202 FeS: 8.7900E-02 kg/mol
1203 MgO: 4.0304E-02 kg/mol
1204 Mg(OH)2: 5.8320E-02 kg/mol
1205 MgCO3: 8.4314E-02 kg/mol
1207 Densities (DEN(1-4)):
1208 Fe: 7.8700E+03 kg/m3
1209 Fe(OH)2: 3.4000E+03 kg/m3
1210 FeS: 4.7000E+03 kg/m3
1211 Bio: 1.1000E+03 kg/m3
1213 Densities (DEN(5-8)):
1214 MgO: 3.6000E+03 kg/m3
1215 Mg(OH)2: 2.3700E+03 kg/m3
1216 MgCO3: 3.0500E+03 kg/m3
1217 SALT: 2.1700E+03 kg/m3
1219 Will creep closure be used (CLOSURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
1083 Wicking term (SATWICK) = 0.000000E+00
1084 Humid rates to be smoothed? (LARXN) = T
1085 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1087 Will creep closure be used (CLOSURE): T
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
1233 PHIUPPER = Upper porosity limit in permeability-porosity expression
1234 PHILOWER = Lower porosity limit in permeability-porosity expression
1235 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
1236 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1237 4 1.480000E+07 3.155700E+12 1 F
1238 MODPERM Parameters
1239 Model Number (CLOSPERFACT) [m^2] (CLOSPERMEXP) [-]
1240 4 5.584700E-12 0.000000E+00
1242 Number of materials using closure (NMATCLOS) = 2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
1101 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERFACT) [m^2] (CLOSPERMEXP) [-]
1102 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1103 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105 Number of materials using closure (NMATCLOS) = 2
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
1260 *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1263 *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1266 *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1269 *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
1272 *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
1276
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
1123 *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1126 *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1130
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
1300 57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1301 58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1303 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
1154 47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
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1155 48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1157 CAMCON Global Variable Units Conv
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 26.91 sec = 0.00747 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
1626 CPU Time (this time step) = 0.12 sec = 0.00003 hr
1627 CPU Time (total for run) = 24.56 sec = 0.00682 hr
1628 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
2450 Date: 02/14/07 Time: 10:04:23 CPU Time: 0 0: 0:26.93 ( 26.93 sec) ASCII
2452 Time Step No. = 143 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:04:23 CPU Time: 0 0: 0:26.93 ( 26.93 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 1.888386E-01 days
2456 Date: 02/14/07 Time: 10:04:28 CPU Time: 0 0: 0:31.89 ( 31.89 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 1.049209E+01 days
2459 Date: 02/14/07 Time: 10:04:32 CPU Time: 0 0: 0:36.02 ( 36.02 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 7.381917E+01 days
2462 Date: 02/14/07 Time: 10:04:37 CPU Time: 0 0: 0:40.41 ( 40.41 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 1.303821E+03 days
2465 Date: 02/14/07 Time: 10:04:42 CPU Time: 0 0: 0:46.07 ( 46.07 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 1.029855E+04 days
2468 Date: 02/14/07 Time: 10:04:49 CPU Time: 0 0: 0:52.32 ( 52.32 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 1.453486E+04 days
2471 Date: 02/14/07 Time: 10:04:53 CPU Time: 0 0: 0:56.71 ( 56.71 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 1.897038E+04 days
2474 Date: 02/14/07 Time: 10:04:58 CPU Time: 0 0: 1: 1.94 ( 61.94 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 3.655441E+04 days
2477 Date: 02/14/07 Time: 10:05:07 CPU Time: 0 0: 1:10.21 ( 70.21 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 3.665178E+04 days
2480 Date: 02/14/07 Time: 10:05:11 CPU Time: 0 0: 1:14.75 ( 74.75 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 3.666487E+04 days
2483 Date: 02/14/07 Time: 10:05:13 CPU Time: 0 0: 1:16.82 ( 76.82 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 3.745088E+04 days
2486 Date: 02/14/07 Time: 10:05:17 CPU Time: 0 0: 1:20.62 ( 80.62 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 6.127717E+04 days
2489 Date: 02/14/07 Time: 10:05:24 CPU Time: 0 0: 1:27.44 ( 87.44 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 6.603191E+04 days
2492 Date: 02/14/07 Time: 10:05:30 CPU Time: 0 0: 1:33.46 ( 93.46 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 7.703200E+04 days
2495 Date: 02/14/07 Time: 10:05:35 CPU Time: 0 0: 1:38.69 ( 98.69 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 1.085280E+05 days
2498 Date: 02/14/07 Time: 10:05:47 CPU Time: 0 0: 1:50.38 ( 110.38 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 1.090970E+05 days
2501 Date: 02/14/07 Time: 10:05:55 CPU Time: 0 0: 1:58.25 ( 118.25 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 1.344497E+05 days
2504 Date: 02/14/07 Time: 10:06:06 CPU Time: 0 0: 2: 9.56 ( 129.56 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 1.371412E+05 days
2507 Date: 02/14/07 Time: 10:06:11 CPU Time: 0 0: 2:14.04 ( 134.04 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 1.661861E+05 days
2510 Date: 02/14/07 Time: 10:06:21 CPU Time: 0 0: 2:24.25 ( 144.25 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 1.808157E+05 days
2513 Date: 02/14/07 Time: 10:06:29 CPU Time: 0 0: 2:32.79 ( 152.79 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 1.870527E+05 days
2516 Date: 02/14/07 Time: 10:06:38 CPU Time: 0 0: 2:41.42 ( 161.42 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 1.979271E+05 days
2519 Date: 02/14/07 Time: 10:06:48 CPU Time: 0 0: 2:51.58 ( 171.58 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 2.023248E+05 days
2522 Date: 02/14/07 Time: 10:06:57 CPU Time: 0 0: 3: 0.53 ( 180.53 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 2.067971E+05 days
2525 Date: 02/14/07 Time: 10:07:06 CPU Time: 0 0: 3: 9.00 ( 189.00 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 2.087652E+05 days
2528 Date: 02/14/07 Time: 10:07:13 CPU Time: 0 0: 3:15.78 ( 195.78 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 2.118872E+05 days
2531 Date: 02/14/07 Time: 10:07:20 CPU Time: 0 0: 3:22.79 ( 202.79 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 2.157256E+05 days
2534 Date: 02/14/07 Time: 10:07:27 CPU Time: 0 0: 3:29.88 ( 209.88 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 2.321898E+05 days
2537 Date: 02/14/07 Time: 10:07:39 CPU Time: 0 0: 3:41.79 ( 221.79 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 2.494542E+05 days
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2540 Date: 02/14/07 Time: 10:07:46 CPU Time: 0 0: 3:48.88 (228.88 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 3.250039E+05 days
2543 Date: 02/14/07 Time: 10:07:57 CPU Time: 0 0: 3:59.31 (239.31 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 3.652439E+05 days
2546 Date: 02/14/07 Time: 10:08:06 CPU Time: 0 0: 4: 8.15 (248.15 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.653114E+05 days
2549 Date: 02/14/07 Time: 10:08:10 CPU Time: 0 0: 4:12.13 (252.13 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.659945E+05 days
2552 Date: 02/14/07 Time: 10:08:15 CPU Time: 0 0: 4:17.51 (257.51 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 3.665915E+05 days
2555 Date: 02/14/07 Time: 10:08:17 CPU Time: 0 0: 4:19.43 (259.43 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 3.667438E+05 days
2558 Date: 02/14/07 Time: 10:08:20 CPU Time: 0 0: 4:21.79 (261.79 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 3.702620E+05 days
2561 Date: 02/14/07 Time: 10:08:26 CPU Time: 0 0: 4:27.60 (267.60 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 4.022279E+05 days
2564 Date: 02/14/07 Time: 10:08:33 CPU Time: 0 0: 4:35.32 (275.32 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 4.058413E+05 days
2567 Date: 02/14/07 Time: 10:08:42 CPU Time: 0 0: 4:44.10 (284.10 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 4.157257E+05 days
2570 Date: 02/14/07 Time: 10:08:49 CPU Time: 0 0: 4:51.54 (291.54 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 4.680020E+05 days
2573 Date: 02/14/07 Time: 10:08:59 CPU Time: 0 0: 5: 0.75 (300.75 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 4.960207E+05 days
2576 Date: 02/14/07 Time: 10:09:06 CPU Time: 0 0: 5: 7.97 (307.97 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 5.004681E+05 days
2579 Date: 02/14/07 Time: 10:09:14 CPU Time: 0 0: 5:16.19 (316.19 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 5.185227E+05 days
2582 Date: 02/14/07 Time: 10:09:20 CPU Time: 0 0: 5:22.28 (322.28 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 5.256549E+05 days
2585 Date: 02/14/07 Time: 10:09:27 CPU Time: 0 0: 5:28.87 (328.87 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 5.710331E+05 days
2588 Date: 02/14/07 Time: 10:09:33 CPU Time: 0 0: 5:35.32 (335.32 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 5.995540E+05 days
2591 Date: 02/14/07 Time: 10:09:41 CPU Time: 0 0: 5:42.67 (342.67 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 6.468026E+05 days
2594 Date: 02/14/07 Time: 10:09:49 CPU Time: 0 0: 5:50.75 (350.75 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 7.581412E+05 days
2597 Date: 02/14/07 Time: 10:09:57 CPU Time: 0 0: 5:58.97 (358.97 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 7.595371E+05 days
2600 Date: 02/14/07 Time: 10:10:04 CPU Time: 0 0: 6: 6.17 (366.17 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 7.605376E+05 days
2603 Date: 02/14/07 Time: 10:10:11 CPU Time: 0 0: 6:12.69 (372.69 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 8.320140E+05 days
2606 Date: 02/14/07 Time: 10:10:16 CPU Time: 0 0: 6:17.80 (377.80 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 8.885727E+05 days
2609 Date: 02/14/07 Time: 10:10:27 CPU Time: 0 0: 6:28.25 (388.25 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 8.890150E+05 days
2612 Date: 02/14/07 Time: 10:10:33 CPU Time: 0 0: 6:34.36 (394.36 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 8.899916E+05 days
2615 Date: 02/14/07 Time: 10:10:38 CPU Time: 0 0: 6:39.20 (399.20 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 8.947272E+05 days
2618 Date: 02/14/07 Time: 10:10:42 CPU Time: 0 0: 6:43.74 (403.74 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 9.437904E+05 days
2621 Date: 02/14/07 Time: 10:10:48 CPU Time: 0 0: 6:49.61 (409.61 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 1.213758E+06 days
2624 Date: 02/14/07 Time: 10:11:01 CPU Time: 0 0: 7: 2.61 (422.61 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 1.226074E+06 days
2627 Date: 02/14/07 Time: 10:11:07 CPU Time: 0 0: 7: 8.26 (428.26 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 1.335351E+06 days
2630 Date: 02/14/07 Time: 10:11:18 CPU Time: 0 0: 7:19.01 (439.01 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 1.355313E+06 days
2633 Date: 02/14/07 Time: 10:11:22 CPU Time: 0 0: 7:23.61 (443.61 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 1.691414E+06 days
2636 Date: 02/14/07 Time: 10:11:31 CPU Time: 0 0: 7:32.45 (452.45 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 1.935904E+06 days
2639 Date: 02/14/07 Time: 10:11:41 CPU Time: 0 0: 7:42.07 (462.07 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 2.156829E+06 days
2642 Date: 02/14/07 Time: 10:11:49 CPU Time: 0 0: 7:50.15 (470.15 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 2.385035E+06 days
2645 Date: 02/14/07 Time: 10:11:58 CPU Time: 0 0: 7:59.43 (479.43 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 2.388859E+06 days
2648 Date: 02/14/07 Time: 10:12:05 CPU Time: 0 0: 8: 5.88 (485.88 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 2.446663E+06 days
2651 Date: 02/14/07 Time: 10:12:11 CPU Time: 0 0: 8:12.12 (492.12 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 2.487155E+06 days

2654 Date: 02/14/07 Time: 10:12:21 CPU Time: 0 0: 8:21.81 (501.81 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 2.546664E+06 days
2657 Date: 02/14/07 Time: 10:12:29 CPU Time: 0 0: 8:29.85 (509.85 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 2.746584E+06 days
2660 Date: 02/14/07 Time: 10:12:35 CPU Time: 0 0: 8:35.65 (515.65 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 2.785922E+06 days
2663 Date: 02/14/07 Time: 10:12:44 CPU Time: 0 0: 8:44.34 (524.34 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 2.839066E+06 days
2666 Date: 02/14/07 Time: 10:12:52 CPU Time: 0 0: 8:52.59 (532.59 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 2.853716E+06 days
2669 Date: 02/14/07 Time: 10:13:00 CPU Time: 0 0: 9: 0.53 (540.53 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 2.906230E+06 days
2672 Date: 02/14/07 Time: 10:13:08 CPU Time: 0 0: 9: 8.72 (548.72 sec) Binary
2674 Time Step No. = 1620 Elapsed Time = 3.005066E+06 days
2675 Date: 02/14/07 Time: 10:13:17 CPU Time: 0 0: 9:18.08 (558.08 sec) Binary
2677 Time Step No. = 1640 Elapsed Time = 3.035896E+06 days
2678 Date: 02/14/07 Time: 10:13:27 CPU Time: 0 0: 9:27.41 (567.41 sec) Binary
2680 Time Step No. = 1660 Elapsed Time = 3.044398E+06 days
2681 Date: 02/14/07 Time: 10:13:37 CPU Time: 0 0: 9:37.30 (577.30 sec) Binary
2683 Time Step No. = 1680 Elapsed Time = 3.057017E+06 days
2684 Date: 02/14/07 Time: 10:13:44 CPU Time: 0 0: 9:44.77 (584.77 sec) Binary
2686 Time Step No. = 1700 Elapsed Time = 3.100833E+06 days
2687 Date: 02/14/07 Time: 10:13:50 CPU Time: 0 0: 9:51.05 (591.05 sec) Binary
2689 Time Step No. = 1720 Elapsed Time = 3.124165E+06 days
2690 Date: 02/14/07 Time: 10:14:00 CPU Time: 0 0:10: 0.43 (600.43 sec) Binary
2692 Time Step No. = 1740 Elapsed Time = 3.186781E+06 days
2693 Date: 02/14/07 Time: 10:14:08 CPU Time: 0 0:10: 8.20 (608.20 sec) Binary
2695 Time Step No. = 1760 Elapsed Time = 3.196106E+06 days
2696 Date: 02/14/07 Time: 10:14:12 CPU Time: 0 0:10:12.70 (612.70 sec) Binary
2698 Time Step No. = 1780 Elapsed Time = 3.298901E+06 days
2699 Date: 02/14/07 Time: 10:14:21 CPU Time: 0 0:10:21.00 (621.00 sec) Binary
2701 Time Step No. = 1800 Elapsed Time = 3.409211E+06 days
2702 Date: 02/14/07 Time: 10:14:31 CPU Time: 0 0:10:31.05 (631.05 sec) Binary
2704 Time Step No. = 1820 Elapsed Time = 3.458423E+06 days
2705 Date: 02/14/07 Time: 10:14:34 CPU Time: 0 0:10:34.52 (634.52 sec) Binary
2708 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
2304 Date: 05/18/06 Time: 10:45:04 CPU Time: 0 0: 0:24.58 (24.58 sec) ASCII
2306 Time Step No. = 143 Elapsed Time = 0.000000E+00 days
2307 Date: 05/18/06 Time: 10:45:04 CPU Time: 0 0: 0:24.59 (24.59 sec) Binary
2309 Time Step No. = 160 Elapsed Time = 1.888386E-01 days
2310 Date: 05/18/06 Time: 10:45:09 CPU Time: 0 0: 0:29.06 (29.06 sec) Binary
2312 Time Step No. = 180 Elapsed Time = 1.049209E+01 days
2313 Date: 05/18/06 Time: 10:45:13 CPU Time: 0 0: 0:32.80 (32.80 sec) Binary
2315 Time Step No. = 200 Elapsed Time = 7.381917E+01 days
2316 Date: 05/18/06 Time: 10:45:17 CPU Time: 0 0: 0:36.75 (36.75 sec) Binary
2318 Time Step No. = 220 Elapsed Time = 1.303821E+03 days
2319 Date: 05/18/06 Time: 10:45:22 CPU Time: 0 0: 0:41.89 (41.89 sec) Binary
2321 Time Step No. = 240 Elapsed Time = 1.029855E+04 days
2322 Date: 05/18/06 Time: 10:45:27 CPU Time: 0 0: 0:47.11 (47.11 sec) Binary
2324 Time Step No. = 260 Elapsed Time = 1.453486E+04 days
2325 Date: 05/18/06 Time: 10:45:31 CPU Time: 0 0: 0:50.68 (50.68 sec) Binary
2327 Time Step No. = 280 Elapsed Time = 1.897038E+04 days
2328 Date: 05/18/06 Time: 10:45:35 CPU Time: 0 0: 0:54.92 (54.92 sec) Binary
2330 Time Step No. = 300 Elapsed Time = 3.655441E+04 days
2331 Date: 05/18/06 Time: 10:45:42 CPU Time: 0 0: 1: 1.77 (61.77 sec) Binary
2333 Time Step No. = 320 Elapsed Time = 3.665178E+04 days
2334 Date: 05/18/06 Time: 10:45:46 CPU Time: 0 0: 1: 5.86 (65.86 sec) Binary
2336 Time Step No. = 340 Elapsed Time = 3.666487E+04 days
2337 Date: 05/18/06 Time: 10:45:48 CPU Time: 0 0: 1: 7.75 (67.75 sec) Binary
2339 Time Step No. = 360 Elapsed Time = 3.745088E+04 days
2340 Date: 05/18/06 Time: 10:45:51 CPU Time: 0 0: 1:11.17 (71.17 sec) Binary
2342 Time Step No. = 380 Elapsed Time = 6.127717E+04 days
2343 Date: 05/18/06 Time: 10:45:57 CPU Time: 0 0: 1:17.05 (77.05 sec) Binary
2345 Time Step No. = 400 Elapsed Time = 6.603191E+04 days
2346 Date: 05/18/06 Time: 10:46:02 CPU Time: 0 0: 1:22.18 (82.18 sec) Binary
2348 Time Step No. = 420 Elapsed Time = 7.703200E+04 days
2349 Date: 05/18/06 Time: 10:46:07 CPU Time: 0 0: 1:26.72 (86.72 sec) Binary
2351 Time Step No. = 440 Elapsed Time = 1.085280E+05 days
2352 Date: 05/18/06 Time: 10:46:17 CPU Time: 0 0: 1:36.81 (96.81 sec) Binary
2354 Time Step No. = 460 Elapsed Time = 1.090970E+05 days
2355 Date: 05/18/06 Time: 10:46:24 CPU Time: 0 0: 1:43.65 (103.65 sec) Binary
2357 Time Step No. = 480 Elapsed Time = 1.344497E+05 days
2358 Date: 05/18/06 Time: 10:46:33 CPU Time: 0 0: 1:53.23 (113.23 sec) Binary
2360 Time Step No. = 500 Elapsed Time = 1.371412E+05 days

2361 Date: 05/18/06 Time: 10:46:37 CPU Time: 0 0: 1:57.05 (117.05 sec) Binary
2363 Time Step No. = 520 Elapsed Time = 1.661861E+05 days
2364 Date: 05/18/06 Time: 10:46:46 CPU Time: 0 0: 2: 5.89 (125.89 sec) Binary
2366 Time Step No. = 540 Elapsed Time = 1.808157E+05 days
2367 Date: 05/18/06 Time: 10:46:53 CPU Time: 0 0: 2:13.25 (133.25 sec) Binary
2369 Time Step No. = 560 Elapsed Time = 1.870527E+05 days
2370 Date: 05/18/06 Time: 10:47:01 CPU Time: 0 0: 2:20.68 (140.68 sec) Binary
2372 Time Step No. = 580 Elapsed Time = 1.979271E+05 days
2373 Date: 05/18/06 Time: 10:47:09 CPU Time: 0 0: 2:29.20 (149.20 sec) Binary
2375 Time Step No. = 600 Elapsed Time = 2.023248E+05 days
2376 Date: 05/18/06 Time: 10:47:17 CPU Time: 0 0: 2:36.70 (156.70 sec) Binary
2378 Time Step No. = 620 Elapsed Time = 2.067971E+05 days
2379 Date: 05/18/06 Time: 10:47:24 CPU Time: 0 0: 2:43.42 (163.42 sec) Binary
2381 Time Step No. = 640 Elapsed Time = 2.087652E+05 days
2382 Date: 05/18/06 Time: 10:47:29 CPU Time: 0 0: 2:49.12 (169.12 sec) Binary
2384 Time Step No. = 660 Elapsed Time = 2.118872E+05 days
2385 Date: 05/18/06 Time: 10:47:35 CPU Time: 0 0: 2:55.00 (175.00 sec) Binary
2387 Time Step No. = 680 Elapsed Time = 2.157256E+05 days
2388 Date: 05/18/06 Time: 10:47:41 CPU Time: 0 0: 3: 1.03 (181.03 sec) Binary
2390 Time Step No. = 700 Elapsed Time = 2.321898E+05 days
2391 Date: 05/18/06 Time: 10:47:51 CPU Time: 0 0: 3:10.92 (190.92 sec) Binary
2393 Time Step No. = 720 Elapsed Time = 2.494542E+05 days
2394 Date: 05/18/06 Time: 10:47:57 CPU Time: 0 0: 3:16.77 (196.77 sec) Binary
2396 Time Step No. = 740 Elapsed Time = 3.250039E+05 days
2397 Date: 05/18/06 Time: 10:48:06 CPU Time: 0 0: 3:25.41 (205.41 sec) Binary
2399 Time Step No. = 760 Elapsed Time = 3.652439E+05 days
2400 Date: 05/18/06 Time: 10:48:13 CPU Time: 0 0: 3:32.69 (212.69 sec) Binary
2402 Time Step No. = 780 Elapsed Time = 3.653114E+05 days
2403 Date: 05/18/06 Time: 10:48:16 CPU Time: 0 0: 3:35.96 (215.96 sec) Binary
2405 Time Step No. = 800 Elapsed Time = 3.659945E+05 days
2406 Date: 05/18/06 Time: 10:48:21 CPU Time: 0 0: 3:40.41 (220.41 sec) Binary
2408 Time Step No. = 820 Elapsed Time = 3.665915E+05 days
2409 Date: 05/18/06 Time: 10:48:22 CPU Time: 0 0: 3:42.02 (222.02 sec) Binary
2411 Time Step No. = 840 Elapsed Time = 3.667438E+05 days
2412 Date: 05/18/06 Time: 10:48:24 CPU Time: 0 0: 3:43.96 (223.96 sec) Binary
2414 Time Step No. = 860 Elapsed Time = 3.702620E+05 days
2415 Date: 05/18/06 Time: 10:48:29 CPU Time: 0 0: 3:48.76 (228.76 sec) Binary
2417 Time Step No. = 880 Elapsed Time = 4.022279E+05 days
2418 Date: 05/18/06 Time: 10:48:36 CPU Time: 0 0: 3:55.08 (235.08 sec) Binary
2420 Time Step No. = 900 Elapsed Time = 4.058413E+05 days
2421 Date: 05/18/06 Time: 10:48:43 CPU Time: 0 0: 4: 2.26 (242.26 sec) Binary
2423 Time Step No. = 920 Elapsed Time = 4.157257E+05 days
2424 Date: 05/18/06 Time: 10:48:49 CPU Time: 0 0: 4: 8.43 (248.43 sec) Binary
2426 Time Step No. = 940 Elapsed Time = 4.680020E+05 days
2427 Date: 05/18/06 Time: 10:48:57 CPU Time: 0 0: 4:16.04 (256.04 sec) Binary
2429 Time Step No. = 960 Elapsed Time = 4.960207E+05 days
2430 Date: 05/18/06 Time: 10:49:02 CPU Time: 0 0: 4:22.00 (262.00 sec) Binary
2432 Time Step No. = 980 Elapsed Time = 5.004681E+05 days
2433 Date: 05/18/06 Time: 10:49:09 CPU Time: 0 0: 4:28.79 (268.79 sec) Binary
2435 Time Step No. = 1000 Elapsed Time = 5.185227E+05 days
2436 Date: 05/18/06 Time: 10:49:14 CPU Time: 0 0: 4:33.82 (273.82 sec) Binary
2438 Time Step No. = 1020 Elapsed Time = 5.256549E+05 days
2439 Date: 05/18/06 Time: 10:49:20 CPU Time: 0 0: 4:39.27 (279.27 sec) Binary
2441 Time Step No. = 1040 Elapsed Time = 5.710331E+05 days
2442 Date: 05/18/06 Time: 10:49:25 CPU Time: 0 0: 4:44.60 (284.60 sec) Binary
2444 Time Step No. = 1060 Elapsed Time = 5.995540E+05 days
2445 Date: 05/18/06 Time: 10:49:31 CPU Time: 0 0: 4:50.42 (290.42 sec) Binary
2447 Time Step No. = 1080 Elapsed Time = 6.468026E+05 days
2448 Date: 05/18/06 Time: 10:49:38 CPU Time: 0 0: 4:57.13 (297.13 sec) Binary
2450 Time Step No. = 1100 Elapsed Time = 7.581412E+05 days
2451 Date: 05/18/06 Time: 10:49:44 CPU Time: 0 0: 5: 3.70 (303.70 sec) Binary
2453 Time Step No. = 1120 Elapsed Time = 7.595371E+05 days
2454 Date: 05/18/06 Time: 10:49:50 CPU Time: 0 0: 5: 9.15 (309.15 sec) Binary
2456 Time Step No. = 1140 Elapsed Time = 7.605376E+05 days
2457 Date: 05/18/06 Time: 10:49:55 CPU Time: 0 0: 5:14.35 (314.35 sec) Binary
2459 Time Step No. = 1160 Elapsed Time = 8.320140E+05 days
2460 Date: 05/18/06 Time: 10:49:59 CPU Time: 0 0: 5:18.45 (318.45 sec) Binary
2462 Time Step No. = 1180 Elapsed Time = 8.885727E+05 days
2463 Date: 05/18/06 Time: 10:50:08 CPU Time: 0 0: 5:26.80 (326.80 sec) Binary
2465 Time Step No. = 1200 Elapsed Time = 8.890150E+05 days
2466 Date: 05/18/06 Time: 10:50:13 CPU Time: 0 0: 5:31.83 (331.83 sec) Binary
2468 Time Step No. = 1220 Elapsed Time = 8.899916E+05 days
2469 Date: 05/18/06 Time: 10:50:17 CPU Time: 0 0: 5:35.82 (335.82 sec) Binary
2471 Time Step No. = 1240 Elapsed Time = 8.947272E+05 days
2472 Date: 05/18/06 Time: 10:50:20 CPU Time: 0 0: 5:39.60 (339.60 sec) Binary
2474 Time Step No. = 1260 Elapsed Time = 9.437904E+05 days

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2475 Date: 05/18/06 Time: 10:50:25 CPU Time: 0 0: 5:44.46 ( 344.46 sec) Binary
2477 Time Step No. = 1280 Elapsed Time = 1.213758E+06 days
2478 Date: 05/18/06 Time: 10:50:36 CPU Time: 0 0: 5:55.27 ( 355.27 sec) Binary
2480 Time Step No. = 1300 Elapsed Time = 1.226074E+06 days
2481 Date: 05/18/06 Time: 10:50:41 CPU Time: 0 0: 5:59.97 ( 359.97 sec) Binary
2483 Time Step No. = 1320 Elapsed Time = 1.335351E+06 days
2484 Date: 05/18/06 Time: 10:50:50 CPU Time: 0 0: 6: 8.93 ( 368.93 sec) Binary
2486 Time Step No. = 1340 Elapsed Time = 1.355313E+06 days
2487 Date: 05/18/06 Time: 10:50:54 CPU Time: 0 0: 6:12.77 ( 372.77 sec) Binary
2489 Time Step No. = 1360 Elapsed Time = 1.691414E+06 days
2490 Date: 05/18/06 Time: 10:51:01 CPU Time: 0 0: 6:20.06 ( 380.06 sec) Binary
2492 Time Step No. = 1380 Elapsed Time = 1.935904E+06 days
2493 Date: 05/18/06 Time: 10:51:09 CPU Time: 0 0: 6:28.12 ( 388.12 sec) Binary
2495 Time Step No. = 1400 Elapsed Time = 2.156829E+06 days
2496 Date: 05/18/06 Time: 10:51:16 CPU Time: 0 0: 6:35.05 ( 395.05 sec) Binary
2498 Time Step No. = 1420 Elapsed Time = 2.385035E+06 days
2499 Date: 05/18/06 Time: 10:51:24 CPU Time: 0 0: 6:43.51 ( 403.51 sec) Binary
2501 Time Step No. = 1440 Elapsed Time = 2.388859E+06 days
2502 Date: 05/18/06 Time: 10:51:30 CPU Time: 0 0: 6:49.41 ( 409.41 sec) Binary
2504 Time Step No. = 1460 Elapsed Time = 2.446663E+06 days
2505 Date: 05/18/06 Time: 10:51:36 CPU Time: 0 0: 6:55.12 ( 415.12 sec) Binary
2507 Time Step No. = 1480 Elapsed Time = 2.487155E+06 days
2508 Date: 05/18/06 Time: 10:51:45 CPU Time: 0 0: 7: 3.88 ( 423.88 sec) Binary
2510 Time Step No. = 1500 Elapsed Time = 2.546664E+06 days
2511 Date: 05/18/06 Time: 10:51:52 CPU Time: 0 0: 7:11.29 ( 431.29 sec) Binary
2513 Time Step No. = 1520 Elapsed Time = 2.746584E+06 days
2514 Date: 05/18/06 Time: 10:51:57 CPU Time: 0 0: 7:16.50 ( 436.50 sec) Binary
2516 Time Step No. = 1540 Elapsed Time = 2.785922E+06 days
2517 Date: 05/18/06 Time: 10:52:05 CPU Time: 0 0: 7:24.18 ( 444.18 sec) Binary
2519 Time Step No. = 1560 Elapsed Time = 2.839066E+06 days
2520 Date: 05/18/06 Time: 10:52:12 CPU Time: 0 0: 7:31.34 ( 451.34 sec) Binary
2522 Time Step No. = 1580 Elapsed Time = 2.853716E+06 days
2523 Date: 05/18/06 Time: 10:52:19 CPU Time: 0 0: 7:38.22 ( 458.22 sec) Binary
2525 Time Step No. = 1600 Elapsed Time = 2.906230E+06 days
2526 Date: 05/18/06 Time: 10:52:26 CPU Time: 0 0: 7:45.34 ( 465.34 sec) Binary
2528 Time Step No. = 1620 Elapsed Time = 3.005066E+06 days
2529 Date: 05/18/06 Time: 10:52:35 CPU Time: 0 0: 7:53.48 ( 473.48 sec) Binary
2531 Time Step No. = 1640 Elapsed Time = 3.035896E+06 days
2532 Date: 05/18/06 Time: 10:52:42 CPU Time: 0 0: 8: 1.17 ( 481.17 sec) Binary
2534 Time Step No. = 1660 Elapsed Time = 3.044398E+06 days
2535 Date: 05/18/06 Time: 10:52:50 CPU Time: 0 0: 8: 9.03 ( 489.03 sec) Binary
2537 Time Step No. = 1680 Elapsed Time = 3.057017E+06 days
2538 Date: 05/18/06 Time: 10:52:56 CPU Time: 0 0: 8:14.97 ( 494.97 sec) Binary
2540 Time Step No. = 1700 Elapsed Time = 3.100833E+06 days
2541 Date: 05/18/06 Time: 10:53:01 CPU Time: 0 0: 8:20.15 ( 500.15 sec) Binary
2543 Time Step No. = 1720 Elapsed Time = 3.124165E+06 days
2544 Date: 05/18/06 Time: 10:53:09 CPU Time: 0 0: 8:28.01 ( 508.01 sec) Binary
2546 Time Step No. = 1740 Elapsed Time = 3.186781E+06 days
2547 Date: 05/18/06 Time: 10:53:16 CPU Time: 0 0: 8:34.51 ( 514.51 sec) Binary
2549 Time Step No. = 1760 Elapsed Time = 3.196106E+06 days
2550 Date: 05/18/06 Time: 10:53:19 CPU Time: 0 0: 8:38.16 ( 518.16 sec) Binary
2552 Time Step No. = 1780 Elapsed Time = 3.298901E+06 days
2553 Date: 05/18/06 Time: 10:53:26 CPU Time: 0 0: 8:44.73 ( 524.73 sec) Binary
2555 Time Step No. = 1800 Elapsed Time = 3.409211E+06 days
2556 Date: 05/18/06 Time: 10:53:34 CPU Time: 0 0: 8:52.82 ( 532.82 sec) Binary
2558 Time Step No. = 1820 Elapsed Time = 3.458423E+06 days
2559 Date: 05/18/06 Time: 10:53:37 CPU Time: 0 0: 8:55.49 ( 535.49 sec) Binary
2562 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
2724 CPU Time (this time step) = 0.21 sec = 0.00006 hr
2725 CPU Time (total for run) = 638.67 sec = 0.17741 hr
2726 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
2578 CPU Time (this time step) = 0.16 sec = 0.00004 hr
2579 CPU Time (total for run) = 538.65 sec = 0.14963 hr
2580 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
3402 Date: 02/14/07 Time: 10:14:38 CPU Time: 0 0:10:38.68 ( 638.68 sec) ASCII
3404 Time Step No. = 1833 Elapsed Time = 3.652431E+06 days
3405 Date: 02/14/07 Time: 10:14:38 CPU Time: 0 0:10:38.69 ( 638.69 sec) Binary
3410 *****
```



```
3411 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3412 * Completed: 02/14/07 at 10:14:38 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3413 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
3256 Date: 05/18/06 Time: 10:53:40 CPU Time: 0 0: 8:58.67 ( 538.67 sec) ASCII
3258 Time Step No. = 1833 Elapsed Time = 3.652431E+06 days
3259 Date: 05/18/06 Time: 10:53:40 CPU Time: 0 0: 8:58.67 ( 538.67 sec) Binary
3264 *****
3265 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3266 * Completed: 05/18/06 at 10:53:40 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3267 *****
*****
```

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

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

BF2_QB0600_ES47_TEST7_V015_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3 ** Begun on: 02/14/07 at 10:05:21 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
2 ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3 ** Begun on: 05/18/06 at 10:45:23 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;2
62 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R015]BF2_TEST7_R015_QA0500.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R015]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R015]BF2_VMS82_V500_ES47_TEST7_R015.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.BIN;1
```

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82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R015]BF2_VMS82_V500_ES47_TEST7_R015.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
86 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R015]BF2_VMS82_V500_ES47_TEST7_R015.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
195 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
196 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
197 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
198 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
199 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
200 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
201 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
202 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
203 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
204 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
205 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
206 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
207 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
208 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
209 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
210 58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
211 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
212 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
213 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
214 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
215 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
216 64 0 0 CONCST Salt concentration -- simple model kg/m^3
217 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
218 66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
224 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
225 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
226 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
227 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
228 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
229 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
230 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
231 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
232 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
233 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241 89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
247 95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
248 96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
```

```
249 97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264 112 0 0 H2OFLOWIN Water inflow rate kg/s
265 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271 119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
272 120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
273 121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274 122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275 123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
276 124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
278
```



```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
195 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200 48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204 52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205 53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206 54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207 55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208 56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209 57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
216 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
217 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
218 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
224 72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
225 73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
226 74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
227 75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
228 76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
229 77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
230 78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
231 79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
232 80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
233 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
234 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
```


872 Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
873 Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
874 Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
875 Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
876 Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
877 Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
878 Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
879 Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
880 Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
881 Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
883

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
851 instead of Input IC's for the Waste
852 [0=No, 1=Yes] (ICWASTE) = 1
854 Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
855 Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
856 Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
857 Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
859

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
949 39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
950 TOL = 1.0000E-02
951 SOCEFFMIN = 1.0000E-03
953 Fracture model will be used? (KFRACTURE): T

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
926 Fracture model will be used? (KFRACTURE): T

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
1086 Intrinsic reaction rate constants? (LINTRIN): F
1088 Reaction rate constants (RK):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
1059 Reaction rate constants (RK):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1

1096 MgO hydration reaction rate constants:
1097 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100 Gas generation factors for biodegradation reaction:
1101 Waste Area # 1
1102 H2/H2S production (RXH2S) = 8.216000E-02
1103 CO2 production (RXCO2) = 0.000000E+00
1105 Gas generation factors for biodegradation reaction:
1106 Waste Area # 2
1107 H2/H2S production (RXH2S) = 8.216000E-02
1108 CO2 production (RXCO2) = 0.000000E+00
1110 Saturation cutoff value (SOCMIN): 0.000000E+00
1112 Stoichiometric coeff's for Rxn 1:
1113 H2 coefficient = 1.222600E+00
1114 H2O coefficient = -1.554900E+00
1115 Fe coefficient = -1.000000E+00
1116 Bio coefficient = 0.000000E+00
1117 Fe(OH)2 coefficient = 0.000000E+00
1118 FeS coefficient = 0.000000E+00
1119 MgO coefficient = 0.000000E+00
1120 Mg(OH)2 coefficient = 0.000000E+00
1121 MgCO3 coefficient = 0.000000E+00
1123 Stoichiometric coeff's for Rxn 2:
1124 H2 coefficient = 8.216000E-02
1125 H2O coefficient = 0.000000E+00
1126 Fe coefficient = 0.000000E+00
1127 Bio coefficient = -1.000000E+00
1128 Fe(OH)2 coefficient = 0.000000E+00

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1129 FeS coefficient = 0.000000E+00
1130 MgO coefficient = 0.000000E+00
1131 Mg(OH)2 coefficient = 0.000000E+00
1132 MgCO3 coefficient = 0.000000E+00
1134 Stoichiometric coeff's for Rxn 3:
1135 H2 coefficient = 0.000000E+00
1136 H2O coefficient = 0.000000E+00
1137 Fe coefficient = 0.000000E+00
1138 Bio coefficient = 0.000000E+00
1139 Fe(OH)2 coefficient = 0.000000E+00
1140 FeS coefficient = 0.000000E+00
1141 MgO coefficient = 0.000000E+00
1142 Mg(OH)2 coefficient = 0.000000E+00
1143 MgCO3 coefficient = 0.000000E+00
1145 Stoichiometric coeff's for Rxn 4:
1146 H2 coefficient = 0.000000E+00
1147 H2O coefficient = 0.000000E+00
1148 Fe coefficient = 0.000000E+00
1149 Bio coefficient = 0.000000E+00
1150 Fe(OH)2 coefficient = 0.000000E+00
1151 FeS coefficient = 0.000000E+00
1152 MgO coefficient = 0.000000E+00
1153 Mg(OH)2 coefficient = 0.000000E+00
1154 MgCO3 coefficient = 0.000000E+00
1156 Stoichiometric coeff's for Rxn 5:
1157 H2 coefficient = 0.000000E+00
1158 H2O coefficient = 0.000000E+00
1159 Fe coefficient = 0.000000E+00
1160 Bio coefficient = 0.000000E+00
1161 Fe(OH)2 coefficient = 0.000000E+00
1162 FeS coefficient = 0.000000E+00
1163 MgO coefficient = 0.000000E+00
1164 Mg(OH)2 coefficient = 0.000000E+00
1165 MgCO3 coefficient = 0.000000E+00
1167 Stoichiometric coeff's for Rxn 6:
1168 H2 coefficient = 0.000000E+00
1169 H2O coefficient = 0.000000E+00
1170 Fe coefficient = 0.000000E+00
1171 Bio coefficient = 0.000000E+00
1172 Fe(OH)2 coefficient = 0.000000E+00
1173 FeS coefficient = 0.000000E+00
1174 MgO coefficient = 0.000000E+00
1175 Mg(OH)2 coefficient = 0.000000E+00
1176 MgCO3 coefficient = 0.000000E+00
1178 Stoichiometric coeff's for Rxn 7:
1179 H2 coefficient = 0.000000E+00
1180 H2O coefficient = 0.000000E+00
1181 Fe coefficient = 0.000000E+00
1182 Bio coefficient = 0.000000E+00
1183 Fe(OH)2 coefficient = 0.000000E+00
1184 FeS coefficient = 0.000000E+00
1185 MgO coefficient = 0.000000E+00
1186 Mg(OH)2 coefficient = 0.000000E+00
1187 MgCO3 coefficient = 0.000000E+00
1189 Wicking term (SATWICK) = 0.000000E+00
1190 Humid rates to be smoothed? (LARKN) = T
1191 Concentration rates to be smoothed? (LARKN2) = F
1192 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1194 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
1067 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068 Gas coefficient = 1.222600E+00
1069 H2O coefficient = 1.554900E+00
1070 Fe coefficient = 1.000000E+00
1072 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073 Gas coefficient = 8.216000E-02
1074 H2O coefficient = 0.000000E+00
1075 Bio coefficient = 1.000000E+00
1077 Molecular weights (WM):
*****
```

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
1200 **Molecular weights (WM):**
1201 **Fe(OH)2: 8.9862E-02 kg/mol**
1202 **FeS: 8.7900E-02 kg/mol**
1203 **MgO: 4.0304E-02 kg/mol**
1204 **Mg(OH)2: 5.8320E-02 kg/mol**
1205 **MgCO3: 8.4314E-02 kg/mol**
1207 **Densities (DEN(1-4)):**
1208 **Fe: 7.8700E+03 kg/m3**
1209 **Fe(OH)2: 3.4000E+03 kg/m3**
1210 **FeS: 4.7000E+03 kg/m3**
1211 **Bio: 1.1000E+03 kg/m3**
1213 **Densities (DEN(5-8)):**
1214 **MgO: 3.6000E+03 kg/m3**
1215 **Mg(OH)2: 2.3700E+03 kg/m3**
1216 **MgCO3: 3.0500E+03 kg/m3**
1217 **SALT: 2.1700E+03 kg/m3**
1219 Will creep closure be used (CLOSURE): T

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
1083 Wicking term (SATWICK) = 0.000000E+00
1084 Humid rates to be smoothed? (LARXN) = T
1085 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1087 Will creep closure be used (CLOSURE): T

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
1233 **PHIUPPER = Upper porosity limit in permeability-porosity expression**
1234 **PHILOWER = Lower porosity limit in permeability-porosity expression**
1235 **Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]**
1236 **Refer to the Closure LOOK-UP TABLE DATA FILE for values**
1237 **4 1.480000E+07 3.155700E+12 1 F**
1238 **MODPERM Parameters**
1239 **Model Number (CLOSPERFACT) [m^2] (CLOSPERMEXP) [-]**
1240 **4 5.584700E-12 0.000000E+00**
1242 Number of materials using closure (NMATCLOS) = 2

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
1101 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERFACT) [m^2] (CLOSPERMEXP) [-]
1102 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1103 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105 Number of materials using closure (NMATCLOS) = 2

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
1260 ***** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00**
1263 ***** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00**
1266 ***** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00**
1269 ***** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01**
1272 ***** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01**
1276

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
1123 ***** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00**
1126 ***** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00**
1130

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
1300 **57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00**
1301 **58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00**
1303 CAMCON Global Variable Units Conv

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
1154 47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1155 48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1157 CAMCON Global Variable Units Conv

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
1772 CPU Time (this time step) = 0.12 sec = 0.00003 hr
1773 CPU Time (total for run) = 36.30 sec = 0.01008 hr
1774 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
1626 CPU Time (this time step) = 0.11 sec = 0.00003 hr
1627 CPU Time (total for run) = 32.59 sec = 0.00905 hr
1628 *****

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
2450 Date: 02/14/07 Time: 10:05:57 CPU Time: 0 0: 0:36.32 (36.32 sec) ASCII
2452 Time Step No. = 210 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:05:57 CPU Time: 0 0: 0:36.32 (36.32 sec) Binary
2455 Time Step No. = 220 Elapsed Time = 2.536995E-06 days
2456 Date: 02/14/07 Time: 10:06:00 CPU Time: 0 0: 0:39.15 (39.15 sec) Binary
2458 Time Step No. = 240 Elapsed Time = 2.462139E-04 days
2459 Date: 02/14/07 Time: 10:06:03 CPU Time: 0 0: 0:41.76 (41.76 sec) Binary
2461 Time Step No. = 260 Elapsed Time = 2.138181E-02 days
2462 Date: 02/14/07 Time: 10:06:06 CPU Time: 0 0: 0:44.68 (44.68 sec) Binary
2464 Time Step No. = 280 Elapsed Time = 8.282803E-01 days
2465 Date: 02/14/07 Time: 10:06:11 CPU Time: 0 0: 0:49.77 (49.77 sec) Binary
2467 Time Step No. = 300 Elapsed Time = 9.304805E+00 days
2468 Date: 02/14/07 Time: 10:06:16 CPU Time: 0 0: 0:54.74 (54.74 sec) Binary
2470 Time Step No. = 320 Elapsed Time = 3.446185E+01 days
2471 Date: 02/14/07 Time: 10:06:21 CPU Time: 0 0: 0:59.75 (59.75 sec) Binary
2473 Time Step No. = 340 Elapsed Time = 3.301301E+02 days
2474 Date: 02/14/07 Time: 10:06:26 CPU Time: 0 0: 1: 4.51 (64.51 sec) Binary
2476 Time Step No. = 360 Elapsed Time = 3.883799E+03 days
2477 Date: 02/14/07 Time: 10:06:32 CPU Time: 0 0: 1:11.03 (71.03 sec) Binary
2479 Time Step No. = 380 Elapsed Time = 9.380975E+03 days
2480 Date: 02/14/07 Time: 10:06:38 CPU Time: 0 0: 1:17.01 (77.01 sec) Binary
2482 Time Step No. = 400 Elapsed Time = 1.987397E+04 days
2483 Date: 02/14/07 Time: 10:06:43 CPU Time: 0 0: 1:21.87 (81.87 sec) Binary
2485 Time Step No. = 420 Elapsed Time = 2.958099E+04 days
2486 Date: 02/14/07 Time: 10:06:51 CPU Time: 0 0: 1:30.13 (90.13 sec) Binary
2488 Time Step No. = 440 Elapsed Time = 3.655662E+04 days
2489 Date: 02/14/07 Time: 10:06:58 CPU Time: 0 0: 1:36.74 (96.74 sec) Binary
2491 Time Step No. = 460 Elapsed Time = 3.667440E+04 days
2492 Date: 02/14/07 Time: 10:07:01 CPU Time: 0 0: 1:39.47 (99.47 sec) Binary
2494 Time Step No. = 480 Elapsed Time = 3.673678E+04 days
2495 Date: 02/14/07 Time: 10:07:03 CPU Time: 0 0: 1:42.19 (102.19 sec) Binary
2497 Time Step No. = 500 Elapsed Time = 3.915452E+04 days
2498 Date: 02/14/07 Time: 10:07:08 CPU Time: 0 0: 1:47.08 (107.08 sec) Binary
2500 Time Step No. = 520 Elapsed Time = 7.353667E+04 days
2501 Date: 02/14/07 Time: 10:07:16 CPU Time: 0 0: 1:54.69 (114.69 sec) Binary
2503 Time Step No. = 540 Elapsed Time = 1.617796E+05 days
2504 Date: 02/14/07 Time: 10:07:27 CPU Time: 0 0: 2: 5.58 (125.58 sec) Binary
2506 Time Step No. = 560 Elapsed Time = 1.667678E+05 days
2507 Date: 02/14/07 Time: 10:07:38 CPU Time: 0 0: 2:15.94 (135.94 sec) Binary
2509 Time Step No. = 580 Elapsed Time = 1.677068E+05 days
2510 Date: 02/14/07 Time: 10:07:42 CPU Time: 0 0: 2:20.84 (140.84 sec) Binary
2512 Time Step No. = 600 Elapsed Time = 1.761057E+05 days
2513 Date: 02/14/07 Time: 10:07:50 CPU Time: 0 0: 2:28.08 (148.08 sec) Binary
2515 Time Step No. = 620 Elapsed Time = 2.548561E+05 days
2516 Date: 02/14/07 Time: 10:07:59 CPU Time: 0 0: 2:37.21 (157.21 sec) Binary
2518 Time Step No. = 640 Elapsed Time = 3.342697E+05 days
2519 Date: 02/14/07 Time: 10:08:08 CPU Time: 0 0: 2:46.85 (166.85 sec) Binary
2521 Time Step No. = 660 Elapsed Time = 3.395756E+05 days
2522 Date: 02/14/07 Time: 10:08:19 CPU Time: 0 0: 2:57.26 (177.26 sec) Binary
2524 Time Step No. = 680 Elapsed Time = 3.398686E+05 days
2525 Date: 02/14/07 Time: 10:08:22 CPU Time: 0 0: 3: 0.38 (180.38 sec) Binary
2527 Time Step No. = 700 Elapsed Time = 3.453184E+05 days
2528 Date: 02/14/07 Time: 10:08:29 CPU Time: 0 0: 3: 6.81 (186.81 sec) Binary
2530 Time Step No. = 720 Elapsed Time = 3.619564E+05 days
2531 Date: 02/14/07 Time: 10:08:37 CPU Time: 0 0: 3:14.71 (194.71 sec) Binary
2533 Time Step No. = 740 Elapsed Time = 3.652437E+05 days
2534 Date: 02/14/07 Time: 10:08:41 CPU Time: 0 0: 3:19.35 (199.35 sec) Binary
2536 Time Step No. = 760 Elapsed Time = 3.652836E+05 days
2537 Date: 02/14/07 Time: 10:08:46 CPU Time: 0 0: 3:23.87 (203.87 sec) Binary
2539 Time Step No. = 780 Elapsed Time = 3.659700E+05 days
2540 Date: 02/14/07 Time: 10:08:51 CPU Time: 0 0: 3:29.19 (209.19 sec) Binary
2542 Time Step No. = 800 Elapsed Time = 3.665230E+05 days
2543 Date: 02/14/07 Time: 10:08:53 CPU Time: 0 0: 3:31.08 (211.08 sec) Binary

2545 Time Step No. = 820 Elapsed Time = 3.666753E+05 days
2546 Date: 02/14/07 Time: 10:08:55 CPU Time: 0 0: 3:32.81 (212.81 sec) Binary
2548 Time Step No. = 840 Elapsed Time = 3.798850E+05 days
2549 Date: 02/14/07 Time: 10:08:59 CPU Time: 0 0: 3:37.33 (217.33 sec) Binary
2551 Time Step No. = 860 Elapsed Time = 3.879056E+05 days
2552 Date: 02/14/07 Time: 10:09:04 CPU Time: 0 0: 3:42.32 (222.32 sec) Binary
2554 Time Step No. = 880 Elapsed Time = 3.946995E+05 days
2555 Date: 02/14/07 Time: 10:09:14 CPU Time: 0 0: 3:52.50 (232.50 sec) Binary
2557 Time Step No. = 900 Elapsed Time = 3.975263E+05 days
2558 Date: 02/14/07 Time: 10:09:20 CPU Time: 0 0: 3:58.42 (238.42 sec) Binary
2560 Time Step No. = 920 Elapsed Time = 4.345875E+05 days
2561 Date: 02/14/07 Time: 10:09:28 CPU Time: 0 0: 4: 6.20 (246.20 sec) Binary
2563 Time Step No. = 940 Elapsed Time = 4.372829E+05 days
2564 Date: 02/14/07 Time: 10:09:34 CPU Time: 0 0: 4:11.92 (251.92 sec) Binary
2566 Time Step No. = 960 Elapsed Time = 4.689932E+05 days
2567 Date: 02/14/07 Time: 10:09:43 CPU Time: 0 0: 4:20.97 (260.97 sec) Binary
2569 Time Step No. = 980 Elapsed Time = 4.690669E+05 days
2570 Date: 02/14/07 Time: 10:09:47 CPU Time: 0 0: 4:25.42 (265.42 sec) Binary
2572 Time Step No. = 1000 Elapsed Time = 4.692436E+05 days
2573 Date: 02/14/07 Time: 10:09:53 CPU Time: 0 0: 4:31.41 (271.41 sec) Binary
2575 Time Step No. = 1020 Elapsed Time = 4.727425E+05 days
2576 Date: 02/14/07 Time: 10:09:57 CPU Time: 0 0: 4:35.07 (275.07 sec) Binary
2578 Time Step No. = 1040 Elapsed Time = 4.959067E+05 days
2579 Date: 02/14/07 Time: 10:10:05 CPU Time: 0 0: 4:43.30 (283.30 sec) Binary
2581 Time Step No. = 1060 Elapsed Time = 4.961354E+05 days
2582 Date: 02/14/07 Time: 10:10:12 CPU Time: 0 0: 4:50.00 (290.00 sec) Binary
2584 Time Step No. = 1080 Elapsed Time = 4.962283E+05 days
2585 Date: 02/14/07 Time: 10:10:17 CPU Time: 0 0: 4:54.52 (294.52 sec) Binary
2587 Time Step No. = 1100 Elapsed Time = 4.963551E+05 days
2588 Date: 02/14/07 Time: 10:10:23 CPU Time: 0 0: 5: 1.30 (301.30 sec) Binary
2590 Time Step No. = 1120 Elapsed Time = 4.965395E+05 days
2591 Date: 02/14/07 Time: 10:10:29 CPU Time: 0 0: 5: 6.50 (306.50 sec) Binary
2593 Time Step No. = 1140 Elapsed Time = 4.967846E+05 days
2594 Date: 02/14/07 Time: 10:10:34 CPU Time: 0 0: 5:12.30 (312.30 sec) Binary
2596 Time Step No. = 1160 Elapsed Time = 4.970089E+05 days
2597 Date: 02/14/07 Time: 10:10:39 CPU Time: 0 0: 5:17.24 (317.24 sec) Binary
2599 Time Step No. = 1180 Elapsed Time = 5.106798E+05 days
2600 Date: 02/14/07 Time: 10:10:44 CPU Time: 0 0: 5:22.04 (322.04 sec) Binary
2602 Time Step No. = 1200 Elapsed Time = 6.282308E+05 days
2603 Date: 02/14/07 Time: 10:10:52 CPU Time: 0 0: 5:30.27 (330.27 sec) Binary
2605 Time Step No. = 1220 Elapsed Time = 6.292016E+05 days
2606 Date: 02/14/07 Time: 10:10:58 CPU Time: 0 0: 5:35.80 (335.80 sec) Binary
2608 Time Step No. = 1240 Elapsed Time = 6.724873E+05 days
2609 Date: 02/14/07 Time: 10:11:02 CPU Time: 0 0: 5:40.05 (340.05 sec) Binary
2611 Time Step No. = 1260 Elapsed Time = 7.595756E+05 days
2612 Date: 02/14/07 Time: 10:11:15 CPU Time: 0 0: 5:52.78 (352.78 sec) Binary
2614 Time Step No. = 1280 Elapsed Time = 7.597863E+05 days
2615 Date: 02/14/07 Time: 10:11:20 CPU Time: 0 0: 5:57.45 (357.45 sec) Binary
2617 Time Step No. = 1300 Elapsed Time = 7.652157E+05 days
2618 Date: 02/14/07 Time: 10:11:24 CPU Time: 0 0: 6: 2.12 (362.12 sec) Binary
2620 Time Step No. = 1320 Elapsed Time = 9.698579E+05 days
2621 Date: 02/14/07 Time: 10:11:33 CPU Time: 0 0: 6:10.51 (370.51 sec) Binary
2623 Time Step No. = 1340 Elapsed Time = 1.034415E+06 days
2624 Date: 02/14/07 Time: 10:11:41 CPU Time: 0 0: 6:18.90 (378.90 sec) Binary
2626 Time Step No. = 1360 Elapsed Time = 1.037401E+06 days
2627 Date: 02/14/07 Time: 10:11:47 CPU Time: 0 0: 6:24.43 (384.43 sec) Binary
2629 Time Step No. = 1380 Elapsed Time = 1.041328E+06 days
2630 Date: 02/14/07 Time: 10:11:51 CPU Time: 0 0: 6:28.69 (388.69 sec) Binary
2632 Time Step No. = 1400 Elapsed Time = 1.098365E+06 days
2633 Date: 02/14/07 Time: 10:11:58 CPU Time: 0 0: 6:36.19 (396.19 sec) Binary
2635 Time Step No. = 1420 Elapsed Time = 1.141983E+06 days
2636 Date: 02/14/07 Time: 10:12:09 CPU Time: 0 0: 6:46.82 (406.82 sec) Binary
2638 Time Step No. = 1440 Elapsed Time = 1.153665E+06 days
2639 Date: 02/14/07 Time: 10:12:14 CPU Time: 0 0: 6:51.69 (411.69 sec) Binary
2641 Time Step No. = 1460 Elapsed Time = 1.335324E+06 days
2642 Date: 02/14/07 Time: 10:12:24 CPU Time: 0 0: 7: 1.26 (421.26 sec) Binary
2644 Time Step No. = 1480 Elapsed Time = 1.341276E+06 days
2645 Date: 02/14/07 Time: 10:12:31 CPU Time: 0 0: 7: 8.51 (428.51 sec) Binary
2647 Time Step No. = 1500 Elapsed Time = 1.507144E+06 days
2648 Date: 02/14/07 Time: 10:12:38 CPU Time: 0 0: 7:15.72 (435.72 sec) Binary
2650 Time Step No. = 1520 Elapsed Time = 1.542314E+06 days
2651 Date: 02/14/07 Time: 10:12:47 CPU Time: 0 0: 7:24.30 (444.30 sec) Binary
2653 Time Step No. = 1540 Elapsed Time = 1.584898E+06 days
2654 Date: 02/14/07 Time: 10:12:59 CPU Time: 0 0: 7:36.54 (456.54 sec) Binary
2656 Time Step No. = 1560 Elapsed Time = 1.593257E+06 days
2657 Date: 02/14/07 Time: 10:13:04 CPU Time: 0 0: 7:41.28 (461.28 sec) Binary

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2659 Time Step No. = 1580 Elapsed Time = 1.610328E+06 days
2660 Date: 02/14/07 Time: 10:13:14 CPU Time: 0 0: 7:51.37 ( 471.37 sec) Binary
2662 Time Step No. = 1600 Elapsed Time = 1.612772E+06 days
2663 Date: 02/14/07 Time: 10:13:18 CPU Time: 0 0: 7:55.37 ( 475.37 sec) Binary
2665 Time Step No. = 1620 Elapsed Time = 1.644829E+06 days
2666 Date: 02/14/07 Time: 10:13:27 CPU Time: 0 0: 8: 4.04 ( 484.04 sec) Binary
2668 Time Step No. = 1640 Elapsed Time = 1.647332E+06 days
2669 Date: 02/14/07 Time: 10:13:31 CPU Time: 0 0: 8: 8.12 ( 488.12 sec) Binary
2671 Time Step No. = 1660 Elapsed Time = 1.676105E+06 days
2672 Date: 02/14/07 Time: 10:13:40 CPU Time: 0 0: 8:17.22 ( 497.22 sec) Binary
2674 Time Step No. = 1680 Elapsed Time = 1.683726E+06 days
2675 Date: 02/14/07 Time: 10:13:48 CPU Time: 0 0: 8:24.92 ( 504.92 sec) Binary
2677 Time Step No. = 1700 Elapsed Time = 1.687797E+06 days
2678 Date: 02/14/07 Time: 10:13:55 CPU Time: 0 0: 8:32.14 ( 512.14 sec) Binary
2680 Time Step No. = 1720 Elapsed Time = 1.698092E+06 days
2681 Date: 02/14/07 Time: 10:14:04 CPU Time: 0 0: 8:41.64 ( 521.64 sec) Binary
2683 Time Step No. = 1740 Elapsed Time = 1.699011E+06 days
2684 Date: 02/14/07 Time: 10:14:10 CPU Time: 0 0: 8:47.29 ( 527.29 sec) Binary
2686 Time Step No. = 1760 Elapsed Time = 1.705672E+06 days
2687 Date: 02/14/07 Time: 10:14:17 CPU Time: 0 0: 8:53.97 ( 533.97 sec) Binary
2689 Time Step No. = 1780 Elapsed Time = 1.706405E+06 days
2690 Date: 02/14/07 Time: 10:14:21 CPU Time: 0 0: 8:58.55 ( 538.55 sec) Binary
2692 Time Step No. = 1800 Elapsed Time = 1.706652E+06 days
2693 Date: 02/14/07 Time: 10:14:26 CPU Time: 0 0: 9: 2.91 ( 542.91 sec) Binary
2695 Time Step No. = 1820 Elapsed Time = 1.724983E+06 days
2696 Date: 02/14/07 Time: 10:14:30 CPU Time: 0 0: 9: 7.00 ( 547.00 sec) Binary
2698 Time Step No. = 1840 Elapsed Time = 1.787596E+06 days
2699 Date: 02/14/07 Time: 10:14:39 CPU Time: 0 0: 9:15.99 ( 555.99 sec) Binary
2701 Time Step No. = 1860 Elapsed Time = 1.788665E+06 days
2702 Date: 02/14/07 Time: 10:14:42 CPU Time: 0 0: 9:19.13 ( 559.13 sec) Binary
2704 Time Step No. = 1880 Elapsed Time = 1.881371E+06 days
2705 Date: 02/14/07 Time: 10:14:47 CPU Time: 0 0: 9:23.80 ( 563.80 sec) Binary
2707 Time Step No. = 1900 Elapsed Time = 1.938667E+06 days
2708 Date: 02/14/07 Time: 10:14:54 CPU Time: 0 0: 9:31.13 ( 571.13 sec) Binary
2710 Time Step No. = 1920 Elapsed Time = 1.983257E+06 days
2711 Date: 02/14/07 Time: 10:15:02 CPU Time: 0 0: 9:38.72 ( 578.72 sec) Binary
2713 Time Step No. = 1940 Elapsed Time = 2.079511E+06 days
2714 Date: 02/14/07 Time: 10:15:08 CPU Time: 0 0: 9:45.27 ( 585.27 sec) Binary
2716 Time Step No. = 1960 Elapsed Time = 2.106284E+06 days
2717 Date: 02/14/07 Time: 10:15:15 CPU Time: 0 0: 9:51.89 ( 591.89 sec) Binary
2719 Time Step No. = 1980 Elapsed Time = 2.374555E+06 days
2720 Date: 02/14/07 Time: 10:15:19 CPU Time: 0 0: 9:56.08 ( 596.08 sec) Binary
2722 Time Step No. = 2000 Elapsed Time = 2.774555E+06 days
2723 Date: 02/14/07 Time: 10:15:23 CPU Time: 0 0:10: 0.12 ( 600.12 sec) Binary
2725 Time Step No. = 2020 Elapsed Time = 3.174555E+06 days
2726 Date: 02/14/07 Time: 10:15:27 CPU Time: 0 0:10: 4.14 ( 604.14 sec) Binary
2728 Time Step No. = 2040 Elapsed Time = 3.574555E+06 days
2729 Date: 02/14/07 Time: 10:15:31 CPU Time: 0 0:10: 8.18 ( 608.18 sec) Binary
2732 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
2304 Date: 05/18/06 Time: 10:45:55 CPU Time: 0 0: 0:32.60 ( 32.60 sec) ASCII
2306 Time Step No. = 210 Elapsed Time = 0.000000E+00 days
2307 Date: 05/18/06 Time: 10:45:55 CPU Time: 0 0: 0:32.60 ( 32.60 sec) Binary
2309 Time Step No. = 220 Elapsed Time = 2.536995E-06 days
2310 Date: 05/18/06 Time: 10:45:58 CPU Time: 0 0: 0:34.97 ( 34.97 sec) Binary
2312 Time Step No. = 240 Elapsed Time = 2.462139E-04 days
2313 Date: 05/18/06 Time: 10:46:00 CPU Time: 0 0: 0:37.17 ( 37.17 sec) Binary
2315 Time Step No. = 260 Elapsed Time = 2.138181E-02 days
2316 Date: 05/18/06 Time: 10:46:02 CPU Time: 0 0: 0:39.57 ( 39.57 sec) Binary
2318 Time Step No. = 280 Elapsed Time = 8.282803E-01 days
2319 Date: 05/18/06 Time: 10:46:06 CPU Time: 0 0: 0:43.56 ( 43.56 sec) Binary
2321 Time Step No. = 300 Elapsed Time = 9.304805E+00 days
2322 Date: 05/18/06 Time: 10:46:10 CPU Time: 0 0: 0:47.46 ( 47.46 sec) Binary
2324 Time Step No. = 320 Elapsed Time = 3.446185E+01 days
2325 Date: 05/18/06 Time: 10:46:14 CPU Time: 0 0: 0:51.41 ( 51.41 sec) Binary
2327 Time Step No. = 340 Elapsed Time = 3.301301E+02 days
2328 Date: 05/18/06 Time: 10:46:18 CPU Time: 0 0: 0:55.16 ( 55.16 sec) Binary
2330 Time Step No. = 360 Elapsed Time = 3.883799E+03 days
2331 Date: 05/18/06 Time: 10:46:23 CPU Time: 0 0: 1: 0.30 ( 60.30 sec) Binary
2333 Time Step No. = 380 Elapsed Time = 9.380975E+03 days
2334 Date: 05/18/06 Time: 10:46:28 CPU Time: 0 0: 1: 4.99 ( 64.99 sec) Binary
2336 Time Step No. = 400 Elapsed Time = 1.987397E+04 days
2337 Date: 05/18/06 Time: 10:46:32 CPU Time: 0 0: 1: 8.84 ( 68.84 sec) Binary
2339 Time Step No. = 420 Elapsed Time = 2.958099E+04 days
2340 Date: 05/18/06 Time: 10:46:39 CPU Time: 0 0: 1:15.54 ( 75.54 sec) Binary
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2342 Time Step No. = 440 Elapsed Time = 3.655662E+04 days
2343 Date: 05/18/06 Time: 10:46:44 CPU Time: 0 0: 1:20.87 (80.87 sec) Binary
2345 Time Step No. = 460 Elapsed Time = 3.667440E+04 days
2346 Date: 05/18/06 Time: 10:46:46 CPU Time: 0 0: 1:23.06 (83.06 sec) Binary
2348 Time Step No. = 480 Elapsed Time = 3.673678E+04 days
2349 Date: 05/18/06 Time: 10:46:48 CPU Time: 0 0: 1:25.27 (85.27 sec) Binary
2351 Time Step No. = 500 Elapsed Time = 3.915452E+04 days
2352 Date: 05/18/06 Time: 10:46:52 CPU Time: 0 0: 1:29.21 (89.21 sec) Binary
2354 Time Step No. = 520 Elapsed Time = 7.353667E+04 days
2355 Date: 05/18/06 Time: 10:46:59 CPU Time: 0 0: 1:35.33 (95.33 sec) Binary
2357 Time Step No. = 540 Elapsed Time = 1.617796E+05 days
2358 Date: 05/18/06 Time: 10:47:07 CPU Time: 0 0: 1:43.81 (103.81 sec) Binary
2360 Time Step No. = 560 Elapsed Time = 1.667678E+05 days
2361 Date: 05/18/06 Time: 10:47:15 CPU Time: 0 0: 1:51.65 (111.65 sec) Binary
2363 Time Step No. = 580 Elapsed Time = 1.677068E+05 days
2364 Date: 05/18/06 Time: 10:47:19 CPU Time: 0 0: 1:55.39 (115.39 sec) Binary
2366 Time Step No. = 600 Elapsed Time = 1.761057E+05 days
2367 Date: 05/18/06 Time: 10:47:25 CPU Time: 0 0: 2: 1.22 (121.22 sec) Binary
2369 Time Step No. = 620 Elapsed Time = 2.548561E+05 days
2370 Date: 05/18/06 Time: 10:47:32 CPU Time: 0 0: 2: 8.92 (128.92 sec) Binary
2372 Time Step No. = 640 Elapsed Time = 3.342697E+05 days
2373 Date: 05/18/06 Time: 10:47:41 CPU Time: 0 0: 2:17.26 (137.26 sec) Binary
2375 Time Step No. = 660 Elapsed Time = 3.395756E+05 days
2376 Date: 05/18/06 Time: 10:47:50 CPU Time: 0 0: 2:26.33 (146.33 sec) Binary
2378 Time Step No. = 680 Elapsed Time = 3.398686E+05 days
2379 Date: 05/18/06 Time: 10:47:52 CPU Time: 0 0: 2:29.04 (149.04 sec) Binary
2381 Time Step No. = 700 Elapsed Time = 3.453184E+05 days
2382 Date: 05/18/06 Time: 10:47:58 CPU Time: 0 0: 2:34.65 (154.65 sec) Binary
2384 Time Step No. = 720 Elapsed Time = 3.619564E+05 days
2385 Date: 05/18/06 Time: 10:48:05 CPU Time: 0 0: 2:41.52 (161.52 sec) Binary
2387 Time Step No. = 740 Elapsed Time = 3.652437E+05 days
2388 Date: 05/18/06 Time: 10:48:09 CPU Time: 0 0: 2:45.59 (165.59 sec) Binary
2390 Time Step No. = 760 Elapsed Time = 3.652836E+05 days
2391 Date: 05/18/06 Time: 10:48:13 CPU Time: 0 0: 2:49.51 (169.51 sec) Binary
2393 Time Step No. = 780 Elapsed Time = 3.659700E+05 days
2394 Date: 05/18/06 Time: 10:48:18 CPU Time: 0 0: 2:54.14 (174.14 sec) Binary
2396 Time Step No. = 800 Elapsed Time = 3.665230E+05 days
2397 Date: 05/18/06 Time: 10:48:19 CPU Time: 0 0: 2:55.67 (175.67 sec) Binary
2399 Time Step No. = 820 Elapsed Time = 3.666753E+05 days
2400 Date: 05/18/06 Time: 10:48:21 CPU Time: 0 0: 2:57.09 (177.09 sec) Binary
2402 Time Step No. = 840 Elapsed Time = 3.798850E+05 days
2403 Date: 05/18/06 Time: 10:48:24 CPU Time: 0 0: 3: 0.76 (180.76 sec) Binary
2405 Time Step No. = 860 Elapsed Time = 3.879056E+05 days
2406 Date: 05/18/06 Time: 10:48:28 CPU Time: 0 0: 3: 4.79 (184.79 sec) Binary
2408 Time Step No. = 880 Elapsed Time = 3.946995E+05 days
2409 Date: 05/18/06 Time: 10:48:37 CPU Time: 0 0: 3:13.09 (193.09 sec) Binary
2411 Time Step No. = 900 Elapsed Time = 3.975263E+05 days
2412 Date: 05/18/06 Time: 10:48:41 CPU Time: 0 0: 3:17.91 (197.91 sec) Binary
2414 Time Step No. = 920 Elapsed Time = 4.345875E+05 days
2415 Date: 05/18/06 Time: 10:48:48 CPU Time: 0 0: 3:24.22 (204.22 sec) Binary
2417 Time Step No. = 940 Elapsed Time = 4.372829E+05 days
2418 Date: 05/18/06 Time: 10:48:52 CPU Time: 0 0: 3:28.84 (208.84 sec) Binary
2420 Time Step No. = 960 Elapsed Time = 4.689932E+05 days
2421 Date: 05/18/06 Time: 10:49:00 CPU Time: 0 0: 3:36.13 (216.13 sec) Binary
2423 Time Step No. = 980 Elapsed Time = 4.690669E+05 days
2424 Date: 05/18/06 Time: 10:49:03 CPU Time: 0 0: 3:39.74 (219.74 sec) Binary
2426 Time Step No. = 1000 Elapsed Time = 4.692436E+05 days
2427 Date: 05/18/06 Time: 10:49:08 CPU Time: 0 0: 3:44.59 (224.59 sec) Binary
2429 Time Step No. = 1020 Elapsed Time = 4.727425E+05 days
2430 Date: 05/18/06 Time: 10:49:11 CPU Time: 0 0: 3:47.56 (227.56 sec) Binary
2432 Time Step No. = 1040 Elapsed Time = 4.959067E+05 days
2433 Date: 05/18/06 Time: 10:49:18 CPU Time: 0 0: 3:54.22 (234.22 sec) Binary
2435 Time Step No. = 1060 Elapsed Time = 4.961354E+05 days
2436 Date: 05/18/06 Time: 10:49:23 CPU Time: 0 0: 3:59.66 (239.66 sec) Binary
2438 Time Step No. = 1080 Elapsed Time = 4.962283E+05 days
2439 Date: 05/18/06 Time: 10:49:27 CPU Time: 0 0: 4: 3.45 (243.45 sec) Binary
2441 Time Step No. = 1100 Elapsed Time = 4.963551E+05 days
2442 Date: 05/18/06 Time: 10:49:33 CPU Time: 0 0: 4: 9.30 (249.30 sec) Binary
2444 Time Step No. = 1120 Elapsed Time = 4.965395E+05 days
2445 Date: 05/18/06 Time: 10:49:37 CPU Time: 0 0: 4:13.77 (253.77 sec) Binary
2447 Time Step No. = 1140 Elapsed Time = 4.967846E+05 days
2448 Date: 05/18/06 Time: 10:49:42 CPU Time: 0 0: 4:18.60 (258.60 sec) Binary
2450 Time Step No. = 1160 Elapsed Time = 4.970089E+05 days
2451 Date: 05/18/06 Time: 10:49:46 CPU Time: 0 0: 4:22.56 (262.56 sec) Binary
2453 Time Step No. = 1180 Elapsed Time = 5.106798E+05 days
2454 Date: 05/18/06 Time: 10:49:50 CPU Time: 0 0: 4:26.47 (266.47 sec) Binary

2456 Time Step No. = 1200 Elapsed Time = 6.282308E+05 days
2457 Date: 05/18/06 Time: 10:49:57 CPU Time: 0 0: 4:33.43 (273.43 sec) Binary
2459 Time Step No. = 1220 Elapsed Time = 6.292016E+05 days
2460 Date: 05/18/06 Time: 10:50:02 CPU Time: 0 0: 4:37.99 (277.99 sec) Binary
2462 Time Step No. = 1240 Elapsed Time = 6.724873E+05 days
2463 Date: 05/18/06 Time: 10:50:05 CPU Time: 0 0: 4:41.66 (281.66 sec) Binary
2465 Time Step No. = 1260 Elapsed Time = 7.595756E+05 days
2466 Date: 05/18/06 Time: 10:50:16 CPU Time: 0 0: 4:52.04 (292.04 sec) Binary
2468 Time Step No. = 1280 Elapsed Time = 7.597863E+05 days
2469 Date: 05/18/06 Time: 10:50:20 CPU Time: 0 0: 4:55.87 (295.87 sec) Binary
2471 Time Step No. = 1300 Elapsed Time = 7.652157E+05 days
2472 Date: 05/18/06 Time: 10:50:23 CPU Time: 0 0: 4:59.70 (299.70 sec) Binary
2474 Time Step No. = 1320 Elapsed Time = 9.698579E+05 days
2475 Date: 05/18/06 Time: 10:50:30 CPU Time: 0 0: 5: 6.56 (306.56 sec) Binary
2477 Time Step No. = 1340 Elapsed Time = 1.034415E+06 days
2478 Date: 05/18/06 Time: 10:50:37 CPU Time: 0 0: 5:13.41 (313.41 sec) Binary
2480 Time Step No. = 1360 Elapsed Time = 1.037401E+06 days
2481 Date: 05/18/06 Time: 10:50:42 CPU Time: 0 0: 5:17.95 (317.95 sec) Binary
2483 Time Step No. = 1380 Elapsed Time = 1.041328E+06 days
2484 Date: 05/18/06 Time: 10:50:45 CPU Time: 0 0: 5:21.44 (321.44 sec) Binary
2486 Time Step No. = 1400 Elapsed Time = 1.098365E+06 days
2487 Date: 05/18/06 Time: 10:50:51 CPU Time: 0 0: 5:27.56 (327.56 sec) Binary
2489 Time Step No. = 1420 Elapsed Time = 1.141983E+06 days
2490 Date: 05/18/06 Time: 10:51:00 CPU Time: 0 0: 5:36.22 (336.22 sec) Binary
2492 Time Step No. = 1440 Elapsed Time = 1.153665E+06 days
2493 Date: 05/18/06 Time: 10:51:04 CPU Time: 0 0: 5:40.15 (340.15 sec) Binary
2495 Time Step No. = 1460 Elapsed Time = 1.335324E+06 days
2496 Date: 05/18/06 Time: 10:51:12 CPU Time: 0 0: 5:47.94 (347.94 sec) Binary
2498 Time Step No. = 1480 Elapsed Time = 1.341276E+06 days
2499 Date: 05/18/06 Time: 10:51:18 CPU Time: 0 0: 5:54.01 (354.01 sec) Binary
2501 Time Step No. = 1500 Elapsed Time = 1.507144E+06 days
2502 Date: 05/18/06 Time: 10:51:24 CPU Time: 0 0: 6: 0.25 (360.25 sec) Binary
2504 Time Step No. = 1520 Elapsed Time = 1.542314E+06 days
2505 Date: 05/18/06 Time: 10:51:32 CPU Time: 0 0: 6: 7.69 (367.69 sec) Binary
2507 Time Step No. = 1540 Elapsed Time = 1.584898E+06 days
2508 Date: 05/18/06 Time: 10:51:42 CPU Time: 0 0: 6:18.30 (378.30 sec) Binary
2510 Time Step No. = 1560 Elapsed Time = 1.593257E+06 days
2511 Date: 05/18/06 Time: 10:51:46 CPU Time: 0 0: 6:22.40 (382.40 sec) Binary
2513 Time Step No. = 1580 Elapsed Time = 1.610328E+06 days
2514 Date: 05/18/06 Time: 10:51:55 CPU Time: 0 0: 6:31.16 (391.16 sec) Binary
2516 Time Step No. = 1600 Elapsed Time = 1.612772E+06 days
2517 Date: 05/18/06 Time: 10:51:59 CPU Time: 0 0: 6:34.63 (394.63 sec) Binary
2519 Time Step No. = 1620 Elapsed Time = 1.644829E+06 days
2520 Date: 05/18/06 Time: 10:52:06 CPU Time: 0 0: 6:42.15 (402.15 sec) Binary
2522 Time Step No. = 1640 Elapsed Time = 1.647332E+06 days
2523 Date: 05/18/06 Time: 10:52:10 CPU Time: 0 0: 6:45.70 (405.70 sec) Binary
2525 Time Step No. = 1660 Elapsed Time = 1.676105E+06 days
2526 Date: 05/18/06 Time: 10:52:17 CPU Time: 0 0: 6:53.43 (413.43 sec) Binary
2528 Time Step No. = 1680 Elapsed Time = 1.683726E+06 days
2529 Date: 05/18/06 Time: 10:52:24 CPU Time: 0 0: 6:59.98 (419.98 sec) Binary
2531 Time Step No. = 1700 Elapsed Time = 1.687797E+06 days
2532 Date: 05/18/06 Time: 10:52:30 CPU Time: 0 0: 7: 6.08 (426.08 sec) Binary
2534 Time Step No. = 1720 Elapsed Time = 1.698092E+06 days
2535 Date: 05/18/06 Time: 10:52:38 CPU Time: 0 0: 7:14.05 (434.05 sec) Binary
2537 Time Step No. = 1740 Elapsed Time = 1.699011E+06 days
2538 Date: 05/18/06 Time: 10:52:43 CPU Time: 0 0: 7:18.75 (438.75 sec) Binary
2540 Time Step No. = 1760 Elapsed Time = 1.705672E+06 days
2541 Date: 05/18/06 Time: 10:52:48 CPU Time: 0 0: 7:24.53 (444.53 sec) Binary
2543 Time Step No. = 1780 Elapsed Time = 1.706405E+06 days
2544 Date: 05/18/06 Time: 10:52:52 CPU Time: 0 0: 7:28.53 (448.53 sec) Binary
2546 Time Step No. = 1800 Elapsed Time = 1.706652E+06 days
2547 Date: 05/18/06 Time: 10:52:56 CPU Time: 0 0: 7:32.37 (452.37 sec) Binary
2549 Time Step No. = 1820 Elapsed Time = 1.724983E+06 days
2550 Date: 05/18/06 Time: 10:53:00 CPU Time: 0 0: 7:35.94 (455.94 sec) Binary
2552 Time Step No. = 1840 Elapsed Time = 1.787596E+06 days
2553 Date: 05/18/06 Time: 10:53:08 CPU Time: 0 0: 7:43.79 (463.79 sec) Binary
2555 Time Step No. = 1860 Elapsed Time = 1.788665E+06 days
2556 Date: 05/18/06 Time: 10:53:11 CPU Time: 0 0: 7:46.58 (466.58 sec) Binary
2558 Time Step No. = 1880 Elapsed Time = 1.881371E+06 days
2559 Date: 05/18/06 Time: 10:53:15 CPU Time: 0 0: 7:50.71 (470.71 sec) Binary
2561 Time Step No. = 1900 Elapsed Time = 1.938667E+06 days
2562 Date: 05/18/06 Time: 10:53:21 CPU Time: 0 0: 7:57.14 (477.14 sec) Binary
2564 Time Step No. = 1920 Elapsed Time = 1.983257E+06 days
2565 Date: 05/18/06 Time: 10:53:28 CPU Time: 0 0: 8: 3.76 (483.76 sec) Binary
2567 Time Step No. = 1940 Elapsed Time = 2.079511E+06 days
2568 Date: 05/18/06 Time: 10:53:33 CPU Time: 0 0: 8: 9.47 (489.47 sec) Binary

```
2570 Time Step No. = 1960 Elapsed Time = 2.106284E+06 days
2571 Date: 05/18/06 Time: 10:53:39 CPU Time: 0 0: 8:14.94 ( 494.94 sec) Binary
2573 Time Step No. = 1980 Elapsed Time = 2.374555E+06 days
2574 Date: 05/18/06 Time: 10:53:42 CPU Time: 0 0: 8:18.33 ( 498.33 sec) Binary
2576 Time Step No. = 2000 Elapsed Time = 2.774555E+06 days
2577 Date: 05/18/06 Time: 10:53:46 CPU Time: 0 0: 8:21.51 ( 501.51 sec) Binary
2579 Time Step No. = 2020 Elapsed Time = 3.174555E+06 days
2580 Date: 05/18/06 Time: 10:53:49 CPU Time: 0 0: 8:24.70 ( 504.70 sec) Binary
2582 Time Step No. = 2040 Elapsed Time = 3.574555E+06 days
2583 Date: 05/18/06 Time: 10:53:52 CPU Time: 0 0: 8:27.92 ( 507.92 sec) Binary
2586 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
2748 CPU Time (this time step) = 0.21 sec = 0.00006 hr
2749 CPU Time (total for run) = 608.99 sec = 0.16916 hr
2750 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
2602 CPU Time (this time step) = 0.16 sec = 0.00004 hr
2603 CPU Time (total for run) = 508.58 sec = 0.14127 hr
2604 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
3426 Date: 02/14/07 Time: 10:15:32 CPU Time: 0 0:10: 9.01 ( 609.01 sec) ASCII
3428 Time Step No. = 2044 Elapsed Time = 3.652431E+06 days
3429 Date: 02/14/07 Time: 10:15:32 CPU Time: 0 0:10: 9.02 ( 609.02 sec) Binary
3434 *****
3435 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3436 * Completed: 02/14/07 at 10:15:32 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3437 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
3280 Date: 05/18/06 Time: 10:53:53 CPU Time: 0 0: 8:28.60 ( 508.60 sec) ASCII
3282 Time Step No. = 2044 Elapsed Time = 3.652431E+06 days
3283 Date: 05/18/06 Time: 10:53:53 CPU Time: 0 0: 8:28.61 ( 508.61 sec) Binary
3288 *****
3289 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3290 * Completed: 05/18/06 at 10:53:53 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3291 *****
*****
```

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

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

BF2_QB0600_ES47_TEST7_V016_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3 ** Begun on: 02/14/07 at 10:07:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
2 ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3 ** Begun on: 05/18/06 at 10:47:24 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R016]BF2_TEST7_R016_QA0500.INP;1
62 *****
*****
```

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R016]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R016]BF2_VMS82_V500_ES47_TEST7_R016.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R016]BF2_VMS82_V500_ES47_TEST7_R016.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
86 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R016]BF2_VMS82_V500_ES47_TEST7_R016.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
195 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
196 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
197 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
198 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
199 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
200 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
201 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
202 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
203 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
204 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
205 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
206 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
207 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
208 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
209 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
210 58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
211 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
212 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
213 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
214 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
215 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
216 64 0 0 CONCST Salt concentration -- simple model kg/m^3
217 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
218 66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
```

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222 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
224 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
225 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
226 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
227 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
228 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
229 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
230 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
231 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
232 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
233 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241 89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
247 95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
248 96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249 97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264 112 0 0 H2OFLOWIN Water inflow rate kg/s
265 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271 119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
272 120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
273 121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274 122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275 123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
276 124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
278
```



```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
195 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200 48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204 52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205 53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
```


1096 *MgO hydration reaction rate constants:*
1097 *Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)*
1098 *Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)*
1100 *Gas generation factors for biodegradation reaction:*
1101 *Waste Area # 1*
1102 *H2/H2S production (RXH2S) = 1.429000E-01*
1103 *CO2 production (RXC02) = 0.000000E+00*
1105 *Gas generation factors for biodegradation reaction:*
1106 *Waste Area # 2*
1107 *H2/H2S production (RXH2S) = 1.429000E-01*
1108 *CO2 production (RXC02) = 0.000000E+00*
1110 *Saturation cutoff value (SOCMIN): 0.000000E+00*
1112 *Stoichiometric coeff's for Rxn 1:*
1113 *H2 coefficient = 1.132700E+00*
1114 *H2O coefficient = -1.734600E+00*
1115 *Fe coefficient = -1.000000E+00*
1116 *Bio coefficient = 0.000000E+00*
1117 *Fe(OH)2 coefficient = 0.000000E+00*
1118 *FeS coefficient = 0.000000E+00*
1119 *MgO coefficient = 0.000000E+00*
1120 *Mg(OH)2 coefficient = 0.000000E+00*
1121 *MgCO3 coefficient = 0.000000E+00*
1123 *Stoichiometric coeff's for Rxn 2:*
1124 *H2 coefficient = 1.429000E-01*
1125 *H2O coefficient = 0.000000E+00*
1126 *Fe coefficient = 0.000000E+00*
1127 *Bio coefficient = -1.000000E+00*
1128 *Fe(OH)2 coefficient = 0.000000E+00*
1129 *FeS coefficient = 0.000000E+00*
1130 *MgO coefficient = 0.000000E+00*
1131 *Mg(OH)2 coefficient = 0.000000E+00*
1132 *MgCO3 coefficient = 0.000000E+00*
1134 *Stoichiometric coeff's for Rxn 3:*
1135 *H2 coefficient = 0.000000E+00*
1136 *H2O coefficient = 0.000000E+00*
1137 *Fe coefficient = 0.000000E+00*
1138 *Bio coefficient = 0.000000E+00*
1139 *Fe(OH)2 coefficient = 0.000000E+00*
1140 *FeS coefficient = 0.000000E+00*
1141 *MgO coefficient = 0.000000E+00*
1142 *Mg(OH)2 coefficient = 0.000000E+00*
1143 *MgCO3 coefficient = 0.000000E+00*
1145 *Stoichiometric coeff's for Rxn 4:*
1146 *H2 coefficient = 0.000000E+00*
1147 *H2O coefficient = 0.000000E+00*
1148 *Fe coefficient = 0.000000E+00*
1149 *Bio coefficient = 0.000000E+00*
1150 *Fe(OH)2 coefficient = 0.000000E+00*
1151 *FeS coefficient = 0.000000E+00*
1152 *MgO coefficient = 0.000000E+00*
1153 *Mg(OH)2 coefficient = 0.000000E+00*
1154 *MgCO3 coefficient = 0.000000E+00*
1156 *Stoichiometric coeff's for Rxn 5:*
1157 *H2 coefficient = 0.000000E+00*
1158 *H2O coefficient = 0.000000E+00*
1159 *Fe coefficient = 0.000000E+00*
1160 *Bio coefficient = 0.000000E+00*
1161 *Fe(OH)2 coefficient = 0.000000E+00*
1162 *FeS coefficient = 0.000000E+00*
1163 *MgO coefficient = 0.000000E+00*
1164 *Mg(OH)2 coefficient = 0.000000E+00*
1165 *MgCO3 coefficient = 0.000000E+00*
1167 *Stoichiometric coeff's for Rxn 6:*
1168 *H2 coefficient = 0.000000E+00*
1169 *H2O coefficient = 0.000000E+00*
1170 *Fe coefficient = 0.000000E+00*
1171 *Bio coefficient = 0.000000E+00*
1172 *Fe(OH)2 coefficient = 0.000000E+00*
1173 *FeS coefficient = 0.000000E+00*
1174 *MgO coefficient = 0.000000E+00*

```
1175 Mg(OH)2 coefficient = 0.000000E+00
1176 MgCO3 coefficient = 0.000000E+00
1178 Stoichiometric coeff's for Rxn 7:
1179 H2 coefficient = 0.000000E+00
1180 H2O coefficient = 0.000000E+00
1181 Fe coefficient = 0.000000E+00
1182 Bio coefficient = 0.000000E+00
1183 Fe(OH)2 coefficient = 0.000000E+00
1184 FeS coefficient = 0.000000E+00
1185 MgO coefficient = 0.000000E+00
1186 Mg(OH)2 coefficient = 0.000000E+00
1187 MgCO3 coefficient = 0.000000E+00
1189 Wicking term (SATWICK) = 0.000000E+00
1190 Humid rates to be smoothed? (LARKN) = T
1191 Concentration rates to be smoothed? (LARKN2) = F
1192 Humid rate smoothing factor (ALPHARKN) = 1.000000E+03
1194 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
1067 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068 Gas coefficient = 1.132700E+00
1069 H2O coefficient = 1.734600E+00
1070 Fe coefficient = 1.000000E+00
1072 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073 Gas coefficient = 1.429000E-01
1074 H2O coefficient = 0.000000E+00
1075 Bio coefficient = 1.000000E+00
1077 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
1200 Molecular weights (WM):
1201 Fe(OH)2: 8.9862E-02 kg/mol
1202 FeS: 8.7900E-02 kg/mol
1203 MgO: 4.0304E-02 kg/mol
1204 Mg(OH)2: 5.8320E-02 kg/mol
1205 MgCO3: 8.4314E-02 kg/mol
1207 Densities (DEN(1-4)):
1208 Fe: 7.8700E+03 kg/m3
1209 Fe(OH)2: 3.4000E+03 kg/m3
1210 FeS: 4.7000E+03 kg/m3
1211 Bio: 1.1000E+03 kg/m3
1213 Densities (DEN(5-8)):
1214 MgO: 3.6000E+03 kg/m3
1215 Mg(OH)2: 2.3700E+03 kg/m3
1216 MgCO3: 3.0500E+03 kg/m3
1217 SALT: 2.1700E+03 kg/m3
1219 Will creep closure be used (CLOSURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
1083 Wicking term (SATWICK) = 0.000000E+00
1084 Humid rates to be smoothed? (LARKN) = T
1085 Humid rate smoothing factor (ALPHARKN) = 1.000000E+03
1087 Will creep closure be used (CLOSURE): T
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
1233 PHIUPPER = Upper porosity limit in permeability-porosity expression
1234 PHILOWER = Lower porosity limit in permeability-porosity expression
1235 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
1236 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1237 4 1.480000E+07 3.155700E+12 1 F
1238 MODPERM Parameters
1239 Model Number (CLOSPERMFAC) [m^2] (CLOSPERMEXP) [-]
1240 4 5.584700E-12 0.000000E+00
1242 Number of materials using closure (NMATCLOS) = 2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
1101 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFAC) [m^2] (CLOSPERMEXP) [-]
1102 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1103 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105 Number of materials using closure (NMATCLOS) = 2
```

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*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
1260 *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1263 *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1266 *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1269 *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
1272 *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
1276
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
1123 *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1126 *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1130
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
1300 57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1301 58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1303 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
1154 47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1155 48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1157 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
1772 CPU Time (this time step) = 0.18 sec = 0.00005 hr
1773 CPU Time (total for run) = 21.00 sec = 0.00583 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
1626 CPU Time (this time step) = 0.16 sec = 0.00004 hr
1627 CPU Time (total for run) = 17.81 sec = 0.00495 hr
1628 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
2450 Date: 02/14/07 Time: 10:07:46 CPU Time: 0 0: 0:21.02 ( 21.02 sec) ASCII
2452 Time Step No. = 126 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:07:46 CPU Time: 0 0: 0:21.02 ( 21.02 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 5.018459E-01 days
2456 Date: 02/14/07 Time: 10:07:49 CPU Time: 0 0: 0:23.84 ( 23.84 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 4.491969E+01 days
2459 Date: 02/14/07 Time: 10:07:52 CPU Time: 0 0: 0:27.68 ( 27.68 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.751377E+03 days
2462 Date: 02/14/07 Time: 10:07:58 CPU Time: 0 0: 0:32.84 ( 32.84 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 1.890365E+04 days
2465 Date: 02/14/07 Time: 10:08:04 CPU Time: 0 0: 0:38.99 ( 38.99 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.653346E+04 days
2468 Date: 02/14/07 Time: 10:08:10 CPU Time: 0 0: 0:44.91 ( 44.91 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.666151E+04 days
2471 Date: 02/14/07 Time: 10:08:14 CPU Time: 0 0: 0:49.40 ( 49.40 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.667459E+04 days
2474 Date: 02/14/07 Time: 10:08:16 CPU Time: 0 0: 0:51.41 ( 51.41 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.759885E+04 days
2477 Date: 02/14/07 Time: 10:08:20 CPU Time: 0 0: 0:55.38 ( 55.38 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 7.590037E+04 days
2480 Date: 02/14/07 Time: 10:08:27 CPU Time: 0 0: 1: 2.06 ( 62.06 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 8.991400E+04 days
2483 Date: 02/14/07 Time: 10:08:36 CPU Time: 0 0: 1:11.39 ( 71.39 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 9.405817E+04 days
2486 Date: 02/14/07 Time: 10:08:41 CPU Time: 0 0: 1:16.37 ( 76.37 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 1.044295E+05 days
2489 Date: 02/14/07 Time: 10:08:49 CPU Time: 0 0: 1:24.07 ( 84.07 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 1.125125E+05 days
2492 Date: 02/14/07 Time: 10:08:58 CPU Time: 0 0: 1:32.97 ( 92.97 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 1.133195E+05 days
2495 Date: 02/14/07 Time: 10:09:03 CPU Time: 0 0: 1:37.96 ( 97.96 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 1.135730E+05 days
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2498 Date: 02/14/07 Time: 10:09:09 CPU Time: 0 0: 1:43.65 (103.65 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 1.168842E+05 days
2501 Date: 02/14/07 Time: 10:09:15 CPU Time: 0 0: 1:49.65 (109.65 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 1.332167E+05 days
2504 Date: 02/14/07 Time: 10:09:22 CPU Time: 0 0: 1:56.91 (116.91 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 1.516402E+05 days
2507 Date: 02/14/07 Time: 10:09:31 CPU Time: 0 0: 2: 5.66 (125.66 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 1.516853E+05 days
2510 Date: 02/14/07 Time: 10:09:36 CPU Time: 0 0: 2:10.65 (130.65 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 1.529846E+05 days
2513 Date: 02/14/07 Time: 10:09:41 CPU Time: 0 0: 2:15.39 (135.39 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 1.811566E+05 days
2516 Date: 02/14/07 Time: 10:09:46 CPU Time: 0 0: 2:21.13 (141.13 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 3.652431E+05 days
2519 Date: 02/14/07 Time: 10:09:58 CPU Time: 0 0: 2:32.36 (152.36 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 3.652431E+05 days
2522 Date: 02/14/07 Time: 10:10:00 CPU Time: 0 0: 2:34.95 (154.95 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 3.652431E+05 days
2525 Date: 02/14/07 Time: 10:10:03 CPU Time: 0 0: 2:37.54 (157.54 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 3.652439E+05 days
2528 Date: 02/14/07 Time: 10:10:06 CPU Time: 0 0: 2:40.20 (160.20 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.652792E+05 days
2531 Date: 02/14/07 Time: 10:10:10 CPU Time: 0 0: 2:44.42 (164.42 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.655581E+05 days
2534 Date: 02/14/07 Time: 10:10:15 CPU Time: 0 0: 2:49.86 (169.86 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 3.665267E+05 days
2537 Date: 02/14/07 Time: 10:10:21 CPU Time: 0 0: 2:55.92 (175.92 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 3.665372E+05 days
2540 Date: 02/14/07 Time: 10:10:24 CPU Time: 0 0: 2:58.18 (178.18 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.673325E+05 days
2543 Date: 02/14/07 Time: 10:10:28 CPU Time: 0 0: 3: 2.35 (182.35 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.680882E+05 days
2546 Date: 02/14/07 Time: 10:10:34 CPU Time: 0 0: 3: 8.39 (188.39 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.755154E+05 days
2549 Date: 02/14/07 Time: 10:10:40 CPU Time: 0 0: 3:14.51 (194.51 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.884150E+05 days
2552 Date: 02/14/07 Time: 10:10:48 CPU Time: 0 0: 3:22.79 (202.79 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 4.398143E+05 days
2555 Date: 02/14/07 Time: 10:10:56 CPU Time: 0 0: 3:30.06 (210.06 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 4.509745E+05 days
2558 Date: 02/14/07 Time: 10:11:00 CPU Time: 0 0: 3:34.82 (214.82 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 6.255136E+05 days
2561 Date: 02/14/07 Time: 10:11:10 CPU Time: 0 0: 3:44.66 (224.66 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 7.581150E+05 days
2564 Date: 02/14/07 Time: 10:11:19 CPU Time: 0 0: 3:53.47 (233.47 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 7.985275E+05 days
2567 Date: 02/14/07 Time: 10:11:28 CPU Time: 0 0: 4: 2.08 (242.08 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.153809E+06 days
2570 Date: 02/14/07 Time: 10:11:35 CPU Time: 0 0: 4: 9.73 (249.73 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.553206E+06 days
2573 Date: 02/14/07 Time: 10:11:43 CPU Time: 0 0: 4:17.36 (257.36 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.821876E+06 days
2576 Date: 02/14/07 Time: 10:11:53 CPU Time: 0 0: 4:27.18 (267.18 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.917947E+06 days
2579 Date: 02/14/07 Time: 10:12:02 CPU Time: 0 0: 4:36.04 (276.04 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.957679E+06 days
2582 Date: 02/14/07 Time: 10:12:08 CPU Time: 0 0: 4:42.58 (282.58 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 2.019375E+06 days
2585 Date: 02/14/07 Time: 10:12:18 CPU Time: 0 0: 4:52.52 (292.52 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 2.057381E+06 days
2588 Date: 02/14/07 Time: 10:12:26 CPU Time: 0 0: 4:59.94 (299.94 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 2.150225E+06 days
2591 Date: 02/14/07 Time: 10:12:37 CPU Time: 0 0: 5:11.16 (311.16 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 2.169380E+06 days
2594 Date: 02/14/07 Time: 10:12:44 CPU Time: 0 0: 5:17.74 (317.74 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.200608E+06 days
2597 Date: 02/14/07 Time: 10:12:51 CPU Time: 0 0: 5:25.01 (325.01 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 2.279722E+06 days
2600 Date: 02/14/07 Time: 10:13:00 CPU Time: 0 0: 5:33.82 (333.82 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 2.312949E+06 days
2603 Date: 02/14/07 Time: 10:13:08 CPU Time: 0 0: 5:41.72 (341.72 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 2.348360E+06 days
2606 Date: 02/14/07 Time: 10:13:17 CPU Time: 0 0: 5:50.60 (350.60 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 2.361300E+06 days
2609 Date: 02/14/07 Time: 10:13:25 CPU Time: 0 0: 5:58.80 (358.80 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 2.395228E+06 days

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2612 Date: 02/14/07 Time: 10:13:33 CPU Time: 0 0: 6: 7.41 ( 367.41 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 2.420598E+06 days
2615 Date: 02/14/07 Time: 10:13:41 CPU Time: 0 0: 6:15.34 ( 375.34 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 2.469898E+06 days
2618 Date: 02/14/07 Time: 10:13:48 CPU Time: 0 0: 6:22.23 ( 382.23 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 2.523884E+06 days
2621 Date: 02/14/07 Time: 10:13:55 CPU Time: 0 0: 6:28.91 ( 388.91 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 2.597076E+06 days
2624 Date: 02/14/07 Time: 10:14:03 CPU Time: 0 0: 6:37.21 ( 397.21 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 2.686846E+06 days
2627 Date: 02/14/07 Time: 10:14:09 CPU Time: 0 0: 6:43.28 ( 403.28 sec) Binary
2629 Time Step No. = 1300 Elapsed Time = 2.711337E+06 days
2630 Date: 02/14/07 Time: 10:14:17 CPU Time: 0 0: 6:51.12 ( 411.12 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 2.802768E+06 days
2633 Date: 02/14/07 Time: 10:14:25 CPU Time: 0 0: 6:58.83 ( 418.83 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 3.010581E+06 days
2636 Date: 02/14/07 Time: 10:14:29 CPU Time: 0 0: 7: 3.01 ( 423.01 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 3.410581E+06 days
2639 Date: 02/14/07 Time: 10:14:33 CPU Time: 0 0: 7: 6.99 ( 426.99 sec) Binary
2642 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
2304 Date: 05/18/06 Time: 10:47:42 CPU Time: 0 0: 0:17.83 ( 17.83 sec) ASCII
2306 Time Step No. = 126 Elapsed Time = 0.000000E+00 days
2307 Date: 05/18/06 Time: 10:47:42 CPU Time: 0 0: 0:17.83 ( 17.83 sec) Binary
2309 Time Step No. = 140 Elapsed Time = 5.018459E-01 days
2310 Date: 05/18/06 Time: 10:47:45 CPU Time: 0 0: 0:20.18 ( 20.18 sec) Binary
2312 Time Step No. = 160 Elapsed Time = 4.491969E+01 days
2313 Date: 05/18/06 Time: 10:47:48 CPU Time: 0 0: 0:23.39 ( 23.39 sec) Binary
2315 Time Step No. = 180 Elapsed Time = 1.751377E+03 days
2316 Date: 05/18/06 Time: 10:47:52 CPU Time: 0 0: 0:27.73 ( 27.73 sec) Binary
2318 Time Step No. = 200 Elapsed Time = 1.890365E+04 days
2319 Date: 05/18/06 Time: 10:47:58 CPU Time: 0 0: 0:32.89 ( 32.89 sec) Binary
2321 Time Step No. = 220 Elapsed Time = 3.653346E+04 days
2322 Date: 05/18/06 Time: 10:48:02 CPU Time: 0 0: 0:37.83 ( 37.83 sec) Binary
2324 Time Step No. = 240 Elapsed Time = 3.666151E+04 days
2325 Date: 05/18/06 Time: 10:48:06 CPU Time: 0 0: 0:41.54 ( 41.54 sec) Binary
2327 Time Step No. = 260 Elapsed Time = 3.667459E+04 days
2328 Date: 05/18/06 Time: 10:48:08 CPU Time: 0 0: 0:43.24 ( 43.24 sec) Binary
2330 Time Step No. = 280 Elapsed Time = 3.759885E+04 days
2331 Date: 05/18/06 Time: 10:48:11 CPU Time: 0 0: 0:46.54 ( 46.54 sec) Binary
2333 Time Step No. = 300 Elapsed Time = 7.590037E+04 days
2334 Date: 05/18/06 Time: 10:48:17 CPU Time: 0 0: 0:52.13 ( 52.13 sec) Binary
2336 Time Step No. = 320 Elapsed Time = 8.991400E+04 days
2337 Date: 05/18/06 Time: 10:48:25 CPU Time: 0 0: 0:59.99 ( 59.99 sec) Binary
2339 Time Step No. = 340 Elapsed Time = 9.405817E+04 days
2340 Date: 05/18/06 Time: 10:48:29 CPU Time: 0 0: 1: 4.18 ( 64.18 sec) Binary
2342 Time Step No. = 360 Elapsed Time = 1.044295E+05 days
2343 Date: 05/18/06 Time: 10:48:35 CPU Time: 0 0: 1:10.63 ( 70.63 sec) Binary
2345 Time Step No. = 380 Elapsed Time = 1.125125E+05 days
2346 Date: 05/18/06 Time: 10:48:43 CPU Time: 0 0: 1:18.14 ( 78.14 sec) Binary
2348 Time Step No. = 400 Elapsed Time = 1.133195E+05 days
2349 Date: 05/18/06 Time: 10:48:47 CPU Time: 0 0: 1:22.32 ( 82.32 sec) Binary
2351 Time Step No. = 420 Elapsed Time = 1.135730E+05 days
2352 Date: 05/18/06 Time: 10:48:52 CPU Time: 0 0: 1:27.11 ( 87.11 sec) Binary
2354 Time Step No. = 440 Elapsed Time = 1.168842E+05 days
2355 Date: 05/18/06 Time: 10:48:57 CPU Time: 0 0: 1:32.22 ( 92.22 sec) Binary
2357 Time Step No. = 460 Elapsed Time = 1.332167E+05 days
2358 Date: 05/18/06 Time: 10:49:03 CPU Time: 0 0: 1:38.39 ( 98.39 sec) Binary
2360 Time Step No. = 480 Elapsed Time = 1.516402E+05 days
2361 Date: 05/18/06 Time: 10:49:11 CPU Time: 0 0: 1:45.76 ( 105.76 sec) Binary
2363 Time Step No. = 500 Elapsed Time = 1.516853E+05 days
2364 Date: 05/18/06 Time: 10:49:15 CPU Time: 0 0: 1:50.02 ( 110.02 sec) Binary
2366 Time Step No. = 520 Elapsed Time = 1.529846E+05 days
2367 Date: 05/18/06 Time: 10:49:19 CPU Time: 0 0: 1:54.07 ( 114.07 sec) Binary
2369 Time Step No. = 540 Elapsed Time = 1.811566E+05 days
2370 Date: 05/18/06 Time: 10:49:24 CPU Time: 0 0: 1:58.98 ( 118.98 sec) Binary
2372 Time Step No. = 560 Elapsed Time = 3.652431E+05 days
2373 Date: 05/18/06 Time: 10:49:34 CPU Time: 0 0: 2: 8.49 ( 128.49 sec) Binary
2375 Time Step No. = 580 Elapsed Time = 3.652431E+05 days
2376 Date: 05/18/06 Time: 10:49:36 CPU Time: 0 0: 2:10.69 ( 130.69 sec) Binary
2378 Time Step No. = 600 Elapsed Time = 3.652431E+05 days
2379 Date: 05/18/06 Time: 10:49:38 CPU Time: 0 0: 2:12.88 ( 132.88 sec) Binary
2381 Time Step No. = 620 Elapsed Time = 3.652439E+05 days
2382 Date: 05/18/06 Time: 10:49:40 CPU Time: 0 0: 2:15.22 ( 135.22 sec) Binary
2384 Time Step No. = 640 Elapsed Time = 3.652792E+05 days
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2385 Date: 05/18/06 Time: 10:49:44 CPU Time: 0 0: 2:18.79 (138.79 sec) Binary
2387 Time Step No. = 660 Elapsed Time = 3.655581E+05 days
2388 Date: 05/18/06 Time: 10:49:49 CPU Time: 0 0: 2:23.41 (143.41 sec) Binary
2390 Time Step No. = 680 Elapsed Time = 3.665267E+05 days
2391 Date: 05/18/06 Time: 10:49:54 CPU Time: 0 0: 2:28.51 (148.51 sec) Binary
2393 Time Step No. = 700 Elapsed Time = 3.665372E+05 days
2394 Date: 05/18/06 Time: 10:49:56 CPU Time: 0 0: 2:30.30 (150.30 sec) Binary
2396 Time Step No. = 720 Elapsed Time = 3.673325E+05 days
2397 Date: 05/18/06 Time: 10:49:59 CPU Time: 0 0: 2:33.80 (153.80 sec) Binary
2399 Time Step No. = 740 Elapsed Time = 3.680882E+05 days
2400 Date: 05/18/06 Time: 10:50:04 CPU Time: 0 0: 2:38.98 (158.98 sec) Binary
2402 Time Step No. = 760 Elapsed Time = 3.755154E+05 days
2403 Date: 05/18/06 Time: 10:50:09 CPU Time: 0 0: 2:43.85 (163.85 sec) Binary
2405 Time Step No. = 780 Elapsed Time = 3.884150E+05 days
2406 Date: 05/18/06 Time: 10:50:16 CPU Time: 0 0: 2:50.38 (170.38 sec) Binary
2408 Time Step No. = 800 Elapsed Time = 4.398143E+05 days
2409 Date: 05/18/06 Time: 10:50:22 CPU Time: 0 0: 2:56.11 (176.11 sec) Binary
2411 Time Step No. = 820 Elapsed Time = 4.509745E+05 days
2412 Date: 05/18/06 Time: 10:50:25 CPU Time: 0 0: 2:59.86 (179.86 sec) Binary
2414 Time Step No. = 840 Elapsed Time = 6.255136E+05 days
2415 Date: 05/18/06 Time: 10:50:33 CPU Time: 0 0: 3: 7.55 (187.55 sec) Binary
2417 Time Step No. = 860 Elapsed Time = 7.581150E+05 days
2418 Date: 05/18/06 Time: 10:50:40 CPU Time: 0 0: 3:14.44 (194.44 sec) Binary
2420 Time Step No. = 880 Elapsed Time = 7.985275E+05 days
2421 Date: 05/18/06 Time: 10:50:47 CPU Time: 0 0: 3:21.19 (201.19 sec) Binary
2423 Time Step No. = 900 Elapsed Time = 1.153809E+06 days
2424 Date: 05/18/06 Time: 10:50:53 CPU Time: 0 0: 3:27.19 (207.19 sec) Binary
2426 Time Step No. = 920 Elapsed Time = 1.553206E+06 days
2427 Date: 05/18/06 Time: 10:50:59 CPU Time: 0 0: 3:33.05 (213.05 sec) Binary
2429 Time Step No. = 940 Elapsed Time = 1.821876E+06 days
2430 Date: 05/18/06 Time: 10:51:06 CPU Time: 0 0: 3:40.58 (220.58 sec) Binary
2432 Time Step No. = 960 Elapsed Time = 1.917947E+06 days
2433 Date: 05/18/06 Time: 10:51:13 CPU Time: 0 0: 3:47.39 (227.39 sec) Binary
2435 Time Step No. = 980 Elapsed Time = 1.957679E+06 days
2436 Date: 05/18/06 Time: 10:51:18 CPU Time: 0 0: 3:52.38 (232.38 sec) Binary
2438 Time Step No. = 1000 Elapsed Time = 2.019375E+06 days
2439 Date: 05/18/06 Time: 10:51:26 CPU Time: 0 0: 3:59.97 (239.97 sec) Binary
2441 Time Step No. = 1020 Elapsed Time = 2.057381E+06 days
2442 Date: 05/18/06 Time: 10:51:31 CPU Time: 0 0: 4: 5.65 (245.65 sec) Binary
2444 Time Step No. = 1040 Elapsed Time = 2.150225E+06 days
2445 Date: 05/18/06 Time: 10:51:40 CPU Time: 0 0: 4:14.25 (254.25 sec) Binary
2447 Time Step No. = 1060 Elapsed Time = 2.169380E+06 days
2448 Date: 05/18/06 Time: 10:51:45 CPU Time: 0 0: 4:19.30 (259.30 sec) Binary
2450 Time Step No. = 1080 Elapsed Time = 2.200608E+06 days
2451 Date: 05/18/06 Time: 10:51:51 CPU Time: 0 0: 4:24.88 (264.88 sec) Binary
2453 Time Step No. = 1100 Elapsed Time = 2.279722E+06 days
2454 Date: 05/18/06 Time: 10:51:57 CPU Time: 0 0: 4:31.66 (271.66 sec) Binary
2456 Time Step No. = 1120 Elapsed Time = 2.312949E+06 days
2457 Date: 05/18/06 Time: 10:52:03 CPU Time: 0 0: 4:37.73 (277.73 sec) Binary
2459 Time Step No. = 1140 Elapsed Time = 2.348360E+06 days
2460 Date: 05/18/06 Time: 10:52:10 CPU Time: 0 0: 4:44.62 (284.62 sec) Binary
2462 Time Step No. = 1160 Elapsed Time = 2.361300E+06 days
2463 Date: 05/18/06 Time: 10:52:17 CPU Time: 0 0: 4:51.57 (291.57 sec) Binary
2465 Time Step No. = 1180 Elapsed Time = 2.395228E+06 days
2466 Date: 05/18/06 Time: 10:52:25 CPU Time: 0 0: 4:58.88 (298.88 sec) Binary
2468 Time Step No. = 1200 Elapsed Time = 2.420598E+06 days
2469 Date: 05/18/06 Time: 10:52:31 CPU Time: 0 0: 5: 5.32 (305.32 sec) Binary
2471 Time Step No. = 1220 Elapsed Time = 2.469898E+06 days
2472 Date: 05/18/06 Time: 10:52:37 CPU Time: 0 0: 5:10.81 (310.81 sec) Binary
2474 Time Step No. = 1240 Elapsed Time = 2.523884E+06 days
2475 Date: 05/18/06 Time: 10:52:42 CPU Time: 0 0: 5:16.25 (316.25 sec) Binary
2477 Time Step No. = 1260 Elapsed Time = 2.597076E+06 days
2478 Date: 05/18/06 Time: 10:52:49 CPU Time: 0 0: 5:23.63 (323.63 sec) Binary
2480 Time Step No. = 1280 Elapsed Time = 2.686846E+06 days
2481 Date: 05/18/06 Time: 10:52:55 CPU Time: 0 0: 5:29.14 (329.14 sec) Binary
2483 Time Step No. = 1300 Elapsed Time = 2.711337E+06 days
2484 Date: 05/18/06 Time: 10:53:02 CPU Time: 0 0: 5:35.78 (335.78 sec) Binary
2486 Time Step No. = 1320 Elapsed Time = 2.802768E+06 days
2487 Date: 05/18/06 Time: 10:53:08 CPU Time: 0 0: 5:42.17 (342.17 sec) Binary
2489 Time Step No. = 1340 Elapsed Time = 3.010581E+06 days
2490 Date: 05/18/06 Time: 10:53:12 CPU Time: 0 0: 5:45.73 (345.73 sec) Binary
2492 Time Step No. = 1360 Elapsed Time = 3.410581E+06 days
2493 Date: 05/18/06 Time: 10:53:15 CPU Time: 0 0: 5:49.39 (349.39 sec) Binary
2496 Restart information has been written to I/O unit 2 in DISKW, file name:


```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
2658 CPU Time (this time step) = 0.13 sec = 0.00004 hr
2659 CPU Time (total for run) = 430.01 sec = 0.11945 hr
2660 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
2512 CPU Time (this time step) = 0.12 sec = 0.00003 hr
2513 CPU Time (total for run) = 352.13 sec = 0.09781 hr
2514 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
3336 Date: 02/14/07 Time: 10:14:36 CPU Time: 0 0: 7:10.01 ( 430.01 sec) ASCII
3338 Time Step No. = 1373 Elapsed Time = 3.652431E+06 days
3339 Date: 02/14/07 Time: 10:14:36 CPU Time: 0 0: 7:10.01 ( 430.01 sec) Binary
3344 *****
3345 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3346 * Completed: 02/14/07 at 10:14:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3347 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
3190 Date: 05/18/06 Time: 10:53:18 CPU Time: 0 0: 5:52.15 ( 352.15 sec) ASCII
3192 Time Step No. = 1373 Elapsed Time = 3.652431E+06 days
3193 Date: 05/18/06 Time: 10:53:18 CPU Time: 0 0: 5:52.15 ( 352.15 sec) Binary
3198 *****
3199 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3200 * Completed: 05/18/06 at 10:53:18 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3201 *****
```

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

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

BF2_QB0600_ES47_TEST7_V017_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3 ** Begun on: 02/14/07 at 10:14:48 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
2 ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3 ** Begun on: 05/18/06 at 10:53:37 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;2
62 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R017]BF2_TEST7_R017_QA0500.INP;1
62 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_CLOSURE.DAT;1
67 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R017]BF2_CLOSURE.DAT;1
67 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
72 *****
```



```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R017]BF2_VMS82_V500_ES47_TEST7_R017.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R017]BF2_VMS82_V500_ES47_TEST7_R017.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
86 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R017]BF2_VMS82_V500_ES47_TEST7_R017.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
195 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
196 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
197 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
198 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
199 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
200 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
201 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
202 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
203 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
204 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
205 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
206 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
207 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
208 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
209 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
210 58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
211 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
212 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
213 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
214 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
215 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
216 64 0 0 CONCST Salt concentration -- simple model kg/m^3
217 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
218 66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
224 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
225 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
226 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
227 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
228 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
229 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
230 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
231 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
232 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
233 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
```

234 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241 89 0 0 CONCRXN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
247 95 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
248 96 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249 97 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264 112 0 0 H2OFLOWIN Water inflow rate kg/s
265 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271 119 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
272 120 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg
273 121 0 0 B_CONC(1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274 122 0 0 B_CONC(1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275 123 0 0 S_MASS(1,1) Solid mass of isotope 1 from Waste Region 1 kg
276 124 0 0 S_MASS(1,2) Solid mass of isotope 1 from Waste Region 2 kg
278

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1

195 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200 48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201 49 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 50 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 51 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204 52 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205 53 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206 54 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207 55 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208 56 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209 57 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
216 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
217 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
218 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
860 where IC's will be reset (NMATRESET) = 5
861 Material type indexes of material regions
862 where IC's will be reset (MATRESET) = 7 8 9 10 39
864 Borehole matl index number (MAT_BOREHOLE) = 0

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
842 where IC's will be reset (NMATRESET) = 4
843 Material type indexes of material regions
844 where IC's will be reset (MATRESET) = 7 8 9 10
846 Borehole matl index number (MAT_BOREHOLE) = 0

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
869 instead of Input IC's for the Cavities
870 [0=No, 1=Yes] (ICWASTE) = 1
872 Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
873 Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
874 Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
875 Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
876 Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
877 Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
878 Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
879 Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
880 Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
881 Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
883 -----

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
851 instead of Input IC's for the Waste
852 [0=No, 1=Yes] (ICWASTE) = 1
854 Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
855 Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
856 Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
857 Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
859 -----

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
949 39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
950 TOL = 1.0000E-02
951 SOCEFFMIN = 1.0000E-03
953 Fracture model will be used? (K FRACTURE): T

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
926 Fracture model will be used? (K FRACTURE): T

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
1086 Intrinsic reaction rate constants? (LINTRIN): F
1088 Reaction rate constants (RK):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
1059 Reaction rate constants (RK):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
1096 MgO hydration reaction rate constants:
1097 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100 Gas generation factors for biodegradation reaction:
1101 Waste Area # 1
1102 H2/E2S production (RXH2S) = 5.332000E-01
1103 CO2 production (RXCO2) = 0.000000E+00
1105 Gas generation factors for biodegradation reaction:
1106 Waste Area # 2
1107 H2/E2S production (RXH2S) = 5.332000E-01
1108 CO2 production (RXCO2) = 0.000000E+00
1110 Saturation cutoff value (SOCMIN): 0.000000E+00
1112 Stoichiometric coeff's for Rxn 1:

1113 H2 coefficient = 1.156000E+00
1114 H2O coefficient = -1.688000E+00
1115 Fe coefficient = -1.000000E+00
1116 Bio coefficient = 0.000000E+00
1117 Fe(OH)2 coefficient = 0.000000E+00
1118 FeS coefficient = 0.000000E+00
1119 MgO coefficient = 0.000000E+00
1120 Mg(OH)2 coefficient = 0.000000E+00
1121 MgCO3 coefficient = 0.000000E+00
1123 Stoichiometric coeff's for Rxn 2:
1124 H2 coefficient = 5.332000E-01
1125 H2O coefficient = 0.000000E+00
1126 Fe coefficient = 0.000000E+00
1127 Bio coefficient = -1.000000E+00
1128 Fe(OH)2 coefficient = 0.000000E+00
1129 FeS coefficient = 0.000000E+00
1130 MgO coefficient = 0.000000E+00
1131 Mg(OH)2 coefficient = 0.000000E+00
1132 MgCO3 coefficient = 0.000000E+00
1134 Stoichiometric coeff's for Rxn 3:
1135 H2 coefficient = 0.000000E+00
1136 H2O coefficient = 0.000000E+00
1137 Fe coefficient = 0.000000E+00
1138 Bio coefficient = 0.000000E+00
1139 Fe(OH)2 coefficient = 0.000000E+00
1140 FeS coefficient = 0.000000E+00
1141 MgO coefficient = 0.000000E+00
1142 Mg(OH)2 coefficient = 0.000000E+00
1143 MgCO3 coefficient = 0.000000E+00
1145 Stoichiometric coeff's for Rxn 4:
1146 H2 coefficient = 0.000000E+00
1147 H2O coefficient = 0.000000E+00
1148 Fe coefficient = 0.000000E+00
1149 Bio coefficient = 0.000000E+00
1150 Fe(OH)2 coefficient = 0.000000E+00
1151 FeS coefficient = 0.000000E+00
1152 MgO coefficient = 0.000000E+00
1153 Mg(OH)2 coefficient = 0.000000E+00
1154 MgCO3 coefficient = 0.000000E+00
1156 Stoichiometric coeff's for Rxn 5:
1157 H2 coefficient = 0.000000E+00
1158 H2O coefficient = 0.000000E+00
1159 Fe coefficient = 0.000000E+00
1160 Bio coefficient = 0.000000E+00
1161 Fe(OH)2 coefficient = 0.000000E+00
1162 FeS coefficient = 0.000000E+00
1163 MgO coefficient = 0.000000E+00
1164 Mg(OH)2 coefficient = 0.000000E+00
1165 MgCO3 coefficient = 0.000000E+00
1167 Stoichiometric coeff's for Rxn 6:
1168 H2 coefficient = 0.000000E+00
1169 H2O coefficient = 0.000000E+00
1170 Fe coefficient = 0.000000E+00
1171 Bio coefficient = 0.000000E+00
1172 Fe(OH)2 coefficient = 0.000000E+00
1173 FeS coefficient = 0.000000E+00
1174 MgO coefficient = 0.000000E+00
1175 Mg(OH)2 coefficient = 0.000000E+00
1176 MgCO3 coefficient = 0.000000E+00
1178 Stoichiometric coeff's for Rxn 7:
1179 H2 coefficient = 0.000000E+00
1180 H2O coefficient = 0.000000E+00
1181 Fe coefficient = 0.000000E+00
1182 Bio coefficient = 0.000000E+00
1183 Fe(OH)2 coefficient = 0.000000E+00
1184 FeS coefficient = 0.000000E+00
1185 MgO coefficient = 0.000000E+00
1186 Mg(OH)2 coefficient = 0.000000E+00
1187 MgCO3 coefficient = 0.000000E+00
1189 Wicking term (SATWICK) = 0.000000E+00

```
1190 Humid rates to be smoothed? (LARXN) = T
1191 Concentration rates to be smoothed? (LARXN2) = F
1192 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1194 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
1067 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068 Gas coefficient = 1.156000E+00
1069 H2O coefficient = 1.688000E+00
1070 Fe coefficient = 1.000000E+00
1072 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073 Gas coefficient = 5.332000E-01
1074 H2O coefficient = 0.000000E+00
1075 Bio coefficient = 1.000000E+00
1077 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
1200 Molecular weights (WM):
1201 Fe(OH)2: 8.9862E-02 kg/mol
1202 FeS: 8.7900E-02 kg/mol
1203 MgO: 4.0304E-02 kg/mol
1204 Mg(OH)2: 5.8320E-02 kg/mol
1205 MgCO3: 8.4314E-02 kg/mol
1207 Densities (DEN(1-4)):
1208 Fe: 7.8700E+03 kg/m3
1209 Fe(OH)2: 3.4000E+03 kg/m3
1210 FeS: 4.7000E+03 kg/m3
1211 Bio: 1.1000E+03 kg/m3
1213 Densities (DEN(5-8)):
1214 MgO: 3.6000E+03 kg/m3
1215 Mg(OH)2: 2.3700E+03 kg/m3
1216 MgCO3: 3.0500E+03 kg/m3
1217 SALT: 2.1700E+03 kg/m3
1219 Will creep closure be used (CLOSURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
1083 Wicking term (SATWICK) = 0.000000E+00
1084 Humid rates to be smoothed? (LARXN) = T
1085 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1087 Will creep closure be used (CLOSURE): T
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
1233 PHIUPPER = Upper porosity limit in permeability-porosity expression
1234 PHILOWER = Lower porosity limit in permeability-porosity expression
1235 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
1236 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1237 4 1.480000E+07 3.155700E+12 1 F
1238 MODPERM Parameters
1239 Model Number (CLOSPERMFAC) [m^2] (CLOSPERMEXP) [-]
1240 4 5.584700E-12 0.000000E+00
1242 Number of materials using closure (NMATCLOS) = 2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
1101 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFAC) [m^2] (CLOSPERMEXP) [-]
1102 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1103 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105 Number of materials using closure (NMATCLOS) = 2
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
1260 *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1263 *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1266 *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1269 *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
1272 *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
1276
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
1123 *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
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1126   *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1130
*****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
1300   57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1301   58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1303   CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
1154   47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1155   48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1157   CAMCON Global Variable Units Conv
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
1772   CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773   CPU Time (total for run) = 23.66 sec = 0.00657 hr
1774   *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
1626   CPU Time (this time step) = 0.12 sec = 0.00003 hr
1627   CPU Time (total for run) = 20.26 sec = 0.00563 hr
1628   *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
2450   Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:23.68 ( 23.68 sec) ASCII
2452   Time Step No. = 127 Elapsed Time = 0.000000E+00 days
2453   Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:23.68 ( 23.68 sec) Binary
2455   Time Step No. = 140 Elapsed Time = 4.081566E-01 days
2456   Date: 02/14/07 Time: 10:15:15 CPU Time: 0 0: 0:26.45 ( 26.45 sec) Binary
2458   Time Step No. = 160 Elapsed Time = 3.566025E+01 days
2459   Date: 02/14/07 Time: 10:15:19 CPU Time: 0 0: 0:30.15 ( 30.15 sec) Binary
2461   Time Step No. = 180 Elapsed Time = 1.805959E+03 days
2462   Date: 02/14/07 Time: 10:15:24 CPU Time: 0 0: 0:35.13 ( 35.13 sec) Binary
2464   Time Step No. = 200 Elapsed Time = 1.071373E+04 days
2465   Date: 02/14/07 Time: 10:15:31 CPU Time: 0 0: 0:42.17 ( 42.17 sec) Binary
2467   Time Step No. = 220 Elapsed Time = 2.383842E+04 days
2468   Date: 02/14/07 Time: 10:15:38 CPU Time: 0 0: 0:49.61 ( 49.61 sec) Binary
2470   Time Step No. = 240 Elapsed Time = 2.798180E+04 days
2471   Date: 02/14/07 Time: 10:15:50 CPU Time: 0 0: 1: 0.82 ( 60.82 sec) Binary
2473   Time Step No. = 260 Elapsed Time = 2.847338E+04 days
2474   Date: 02/14/07 Time: 10:15:55 CPU Time: 0 0: 1: 6.12 ( 66.12 sec) Binary
2476   Time Step No. = 280 Elapsed Time = 3.652452E+04 days
2477   Date: 02/14/07 Time: 10:16:00 CPU Time: 0 0: 1:11.21 ( 71.21 sec) Binary
2479   Time Step No. = 300 Elapsed Time = 3.656711E+04 days
2480   Date: 02/14/07 Time: 10:16:05 CPU Time: 0 0: 1:15.84 ( 75.84 sec) Binary
2482   Time Step No. = 320 Elapsed Time = 3.666399E+04 days
2483   Date: 02/14/07 Time: 10:16:09 CPU Time: 0 0: 1:19.58 ( 79.58 sec) Binary
2485   Time Step No. = 340 Elapsed Time = 3.668035E+04 days
2486   Date: 02/14/07 Time: 10:16:11 CPU Time: 0 0: 1:21.65 ( 81.65 sec) Binary
2488   Time Step No. = 360 Elapsed Time = 3.804994E+04 days
2489   Date: 02/14/07 Time: 10:16:15 CPU Time: 0 0: 1:25.72 ( 85.72 sec) Binary
2491   Time Step No. = 380 Elapsed Time = 4.830166E+04 days
2492   Date: 02/14/07 Time: 10:16:23 CPU Time: 0 0: 1:33.84 ( 93.84 sec) Binary
2494   Time Step No. = 400 Elapsed Time = 5.127831E+04 days
2495   Date: 02/14/07 Time: 10:16:34 CPU Time: 0 0: 1:44.68 ( 104.68 sec) Binary
2497   Time Step No. = 420 Elapsed Time = 5.134701E+04 days
2498   Date: 02/14/07 Time: 10:16:37 CPU Time: 0 0: 1:48.03 ( 108.03 sec) Binary
2500   Time Step No. = 440 Elapsed Time = 5.218497E+04 days
2501   Date: 02/14/07 Time: 10:16:44 CPU Time: 0 0: 1:54.68 ( 114.68 sec) Binary
2503   Time Step No. = 460 Elapsed Time = 6.083942E+04 days
2504   Date: 02/14/07 Time: 10:16:49 CPU Time: 0 0: 2: 0.04 ( 120.04 sec) Binary
2506   Time Step No. = 480 Elapsed Time = 7.130398E+04 days
2507   Date: 02/14/07 Time: 10:16:58 CPU Time: 0 0: 2: 8.50 ( 128.50 sec) Binary
2509   Time Step No. = 500 Elapsed Time = 7.759660E+04 days
2510   Date: 02/14/07 Time: 10:17:04 CPU Time: 0 0: 2:14.76 ( 134.76 sec) Binary
2512   Time Step No. = 520 Elapsed Time = 7.800566E+04 days
2513   Date: 02/14/07 Time: 10:17:11 CPU Time: 0 0: 2:21.94 ( 141.94 sec) Binary
2515   Time Step No. = 540 Elapsed Time = 7.817753E+04 days
2516   Date: 02/14/07 Time: 10:17:15 CPU Time: 0 0: 2:26.04 ( 146.04 sec) Binary
2518   Time Step No. = 560 Elapsed Time = 8.514452E+04 days
```

2519 Date: 02/14/07 Time: 10:17:20 CPU Time: 0 0: 2:31.03 (151.03 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 1.017547E+05 days
2522 Date: 02/14/07 Time: 10:17:27 CPU Time: 0 0: 2:38.33 (158.33 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 1.389481E+05 days
2525 Date: 02/14/07 Time: 10:17:38 CPU Time: 0 0: 2:48.53 (168.53 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 1.423530E+05 days
2528 Date: 02/14/07 Time: 10:17:44 CPU Time: 0 0: 2:54.87 (174.87 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 1.864304E+05 days
2531 Date: 02/14/07 Time: 10:17:50 CPU Time: 0 0: 3: 0.63 (180.63 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 1.882230E+05 days
2534 Date: 02/14/07 Time: 10:17:57 CPU Time: 0 0: 3: 8.00 (188.00 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 1.986077E+05 days
2537 Date: 02/14/07 Time: 10:18:03 CPU Time: 0 0: 3:13.70 (193.70 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 2.830917E+05 days
2540 Date: 02/14/07 Time: 10:18:14 CPU Time: 0 0: 3:24.27 (204.27 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.158487E+05 days
2543 Date: 02/14/07 Time: 10:18:20 CPU Time: 0 0: 3:30.22 (210.22 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.652487E+05 days
2546 Date: 02/14/07 Time: 10:18:25 CPU Time: 0 0: 3:36.16 (216.16 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.653477E+05 days
2549 Date: 02/14/07 Time: 10:18:30 CPU Time: 0 0: 3:40.60 (220.60 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.666426E+05 days
2552 Date: 02/14/07 Time: 10:18:34 CPU Time: 0 0: 3:45.07 (225.07 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.666557E+05 days
2555 Date: 02/14/07 Time: 10:18:36 CPU Time: 0 0: 3:46.57 (226.57 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 3.676756E+05 days
2558 Date: 02/14/07 Time: 10:18:40 CPU Time: 0 0: 3:50.33 (230.33 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 4.168857E+05 days
2561 Date: 02/14/07 Time: 10:18:46 CPU Time: 0 0: 3:56.66 (236.66 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 4.834104E+05 days
2564 Date: 02/14/07 Time: 10:18:56 CPU Time: 0 0: 4: 6.11 (246.11 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 6.250995E+05 days
2567 Date: 02/14/07 Time: 10:19:02 CPU Time: 0 0: 4:12.76 (252.76 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 6.472604E+05 days
2570 Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0: 4:21.71 (261.71 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 8.509338E+05 days
2573 Date: 02/14/07 Time: 10:19:19 CPU Time: 0 0: 4:29.60 (269.60 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 8.666179E+05 days
2576 Date: 02/14/07 Time: 10:19:26 CPU Time: 0 0: 4:36.08 (276.08 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 8.980547E+05 days
2579 Date: 02/14/07 Time: 10:19:35 CPU Time: 0 0: 4:45.79 (285.79 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 9.084805E+05 days
2582 Date: 02/14/07 Time: 10:19:43 CPU Time: 0 0: 4:53.57 (293.57 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 9.303573E+05 days
2585 Date: 02/14/07 Time: 10:19:53 CPU Time: 0 0: 5: 3.15 (303.15 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 9.354913E+05 days
2588 Date: 02/14/07 Time: 10:19:59 CPU Time: 0 0: 5: 9.18 (309.18 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 9.627726E+05 days
2591 Date: 02/14/07 Time: 10:20:07 CPU Time: 0 0: 5:17.07 (317.07 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 9.865575E+05 days
2594 Date: 02/14/07 Time: 10:20:17 CPU Time: 0 0: 5:27.37 (327.37 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 1.010557E+06 days
2597 Date: 02/14/07 Time: 10:20:23 CPU Time: 0 0: 5:33.15 (333.15 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 1.037354E+06 days
2600 Date: 02/14/07 Time: 10:20:32 CPU Time: 0 0: 5:41.97 (341.97 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 1.044114E+06 days
2603 Date: 02/14/07 Time: 10:20:39 CPU Time: 0 0: 5:49.44 (349.44 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 1.051085E+06 days
2606 Date: 02/14/07 Time: 10:20:48 CPU Time: 0 0: 5:58.38 (358.38 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 1.056924E+06 days
2609 Date: 02/14/07 Time: 10:20:57 CPU Time: 0 0: 6: 6.96 (366.96 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 1.069927E+06 days
2612 Date: 02/14/07 Time: 10:21:05 CPU Time: 0 0: 6:15.06 (375.06 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 1.074785E+06 days
2615 Date: 02/14/07 Time: 10:21:15 CPU Time: 0 0: 6:25.12 (385.12 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 1.098676E+06 days
2618 Date: 02/14/07 Time: 10:21:24 CPU Time: 0 0: 6:34.07 (394.07 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 1.104263E+06 days
2621 Date: 02/14/07 Time: 10:21:29 CPU Time: 0 0: 6:38.45 (398.45 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 1.154509E+06 days
2624 Date: 02/14/07 Time: 10:21:36 CPU Time: 0 0: 6:46.09 (406.09 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 1.203455E+06 days
2627 Date: 02/14/07 Time: 10:21:44 CPU Time: 0 0: 6:53.55 (413.55 sec) Binary
2629 Time Step No. = 1300 Elapsed Time = 1.359187E+06 days
2630 Date: 02/14/07 Time: 10:21:48 CPU Time: 0 0: 6:57.51 (417.51 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 1.597020E+06 days

2633 Date: 02/14/07 Time: 10:21:56 CPU Time: 0 0: 7: 6.14 (426.14 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 1.943096E+06 days
2636 Date: 02/14/07 Time: 10:22:00 CPU Time: 0 0: 7:10.23 (430.23 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 2.343096E+06 days
2639 Date: 02/14/07 Time: 10:22:05 CPU Time: 0 0: 7:14.31 (434.31 sec) Binary
2641 Time Step No. = 1380 Elapsed Time = 2.743096E+06 days
2642 Date: 02/14/07 Time: 10:22:09 CPU Time: 0 0: 7:18.38 (438.38 sec) Binary
2644 Time Step No. = 1400 Elapsed Time = 3.143096E+06 days
2645 Date: 02/14/07 Time: 10:22:13 CPU Time: 0 0: 7:22.33 (442.33 sec) Binary
2647 Time Step No. = 1420 Elapsed Time = 3.543096E+06 days
2648 Date: 02/14/07 Time: 10:22:17 CPU Time: 0 0: 7:26.28 (446.28 sec) Binary
2651 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
2304 Date: 05/18/06 Time: 10:53:57 CPU Time: 0 0: 0:20.28 (20.28 sec) ASCII
2306 Time Step No. = 127 Elapsed Time = 0.000000E+00 days
2307 Date: 05/18/06 Time: 10:53:57 CPU Time: 0 0: 0:20.28 (20.28 sec) Binary
2309 Time Step No. = 140 Elapsed Time = 4.081566E-01 days
2310 Date: 05/18/06 Time: 10:53:59 CPU Time: 0 0: 0:22.72 (22.72 sec) Binary
2312 Time Step No. = 160 Elapsed Time = 3.566025E+01 days
2313 Date: 05/18/06 Time: 10:54:03 CPU Time: 0 0: 0:26.05 (26.05 sec) Binary
2315 Time Step No. = 180 Elapsed Time = 1.805959E+03 days
2316 Date: 05/18/06 Time: 10:54:07 CPU Time: 0 0: 0:30.64 (30.64 sec) Binary
2318 Time Step No. = 200 Elapsed Time = 1.071373E+04 days
2319 Date: 05/18/06 Time: 10:54:14 CPU Time: 0 0: 0:36.84 (36.84 sec) Binary
2321 Time Step No. = 220 Elapsed Time = 2.383842E+04 days
2322 Date: 05/18/06 Time: 10:54:20 CPU Time: 0 0: 0:43.19 (43.19 sec) Binary
2324 Time Step No. = 240 Elapsed Time = 2.798180E+04 days
2325 Date: 05/18/06 Time: 10:54:29 CPU Time: 0 0: 0:52.27 (52.27 sec) Binary
2327 Time Step No. = 260 Elapsed Time = 2.847338E+04 days
2328 Date: 05/18/06 Time: 10:54:34 CPU Time: 0 0: 0:56.64 (56.64 sec) Binary
2330 Time Step No. = 280 Elapsed Time = 3.652452E+04 days
2331 Date: 05/18/06 Time: 10:54:38 CPU Time: 0 0: 1: 0.84 (60.84 sec) Binary
2333 Time Step No. = 300 Elapsed Time = 3.656711E+04 days
2334 Date: 05/18/06 Time: 10:54:42 CPU Time: 0 0: 1: 4.69 (64.69 sec) Binary
2336 Time Step No. = 320 Elapsed Time = 3.666399E+04 days
2337 Date: 05/18/06 Time: 10:54:45 CPU Time: 0 0: 1: 7.79 (67.79 sec) Binary
2339 Time Step No. = 340 Elapsed Time = 3.668035E+04 days
2340 Date: 05/18/06 Time: 10:54:46 CPU Time: 0 0: 1: 9.49 (69.49 sec) Binary
2342 Time Step No. = 360 Elapsed Time = 3.804994E+04 days
2343 Date: 05/18/06 Time: 10:54:50 CPU Time: 0 0: 1:12.83 (72.83 sec) Binary
2345 Time Step No. = 380 Elapsed Time = 4.830166E+04 days
2346 Date: 05/18/06 Time: 10:54:57 CPU Time: 0 0: 1:19.91 (79.91 sec) Binary
2348 Time Step No. = 400 Elapsed Time = 5.127831E+04 days
2349 Date: 05/18/06 Time: 10:55:07 CPU Time: 0 0: 1:29.66 (89.66 sec) Binary
2351 Time Step No. = 420 Elapsed Time = 5.134701E+04 days
2352 Date: 05/18/06 Time: 10:55:10 CPU Time: 0 0: 1:32.70 (92.70 sec) Binary
2354 Time Step No. = 440 Elapsed Time = 5.218497E+04 days
2355 Date: 05/18/06 Time: 10:55:16 CPU Time: 0 0: 1:38.70 (98.70 sec) Binary
2357 Time Step No. = 460 Elapsed Time = 6.083942E+04 days
2358 Date: 05/18/06 Time: 10:55:20 CPU Time: 0 0: 1:43.16 (103.16 sec) Binary
2360 Time Step No. = 480 Elapsed Time = 7.130398E+04 days
2361 Date: 05/18/06 Time: 10:55:27 CPU Time: 0 0: 1:50.12 (110.12 sec) Binary
2363 Time Step No. = 500 Elapsed Time = 7.759660E+04 days
2364 Date: 05/18/06 Time: 10:55:32 CPU Time: 0 0: 1:55.29 (115.29 sec) Binary
2366 Time Step No. = 520 Elapsed Time = 7.800566E+04 days
2367 Date: 05/18/06 Time: 10:55:38 CPU Time: 0 0: 2: 1.19 (121.19 sec) Binary
2369 Time Step No. = 540 Elapsed Time = 7.817753E+04 days
2370 Date: 05/18/06 Time: 10:55:42 CPU Time: 0 0: 2: 4.55 (124.55 sec) Binary
2372 Time Step No. = 560 Elapsed Time = 8.514452E+04 days
2373 Date: 05/18/06 Time: 10:55:46 CPU Time: 0 0: 2: 8.68 (128.68 sec) Binary
2375 Time Step No. = 580 Elapsed Time = 1.017547E+05 days
2376 Date: 05/18/06 Time: 10:55:52 CPU Time: 0 0: 2:14.73 (134.73 sec) Binary
2378 Time Step No. = 600 Elapsed Time = 1.389481E+05 days
2379 Date: 05/18/06 Time: 10:56:00 CPU Time: 0 0: 2:23.21 (143.21 sec) Binary
2381 Time Step No. = 620 Elapsed Time = 1.423530E+05 days
2382 Date: 05/18/06 Time: 10:56:06 CPU Time: 0 0: 2:28.49 (148.49 sec) Binary
2384 Time Step No. = 640 Elapsed Time = 1.864304E+05 days
2385 Date: 05/18/06 Time: 10:56:11 CPU Time: 0 0: 2:33.29 (153.29 sec) Binary
2387 Time Step No. = 660 Elapsed Time = 1.882230E+05 days
2388 Date: 05/18/06 Time: 10:56:17 CPU Time: 0 0: 2:39.67 (159.67 sec) Binary
2390 Time Step No. = 680 Elapsed Time = 1.986077E+05 days
2391 Date: 05/18/06 Time: 10:56:22 CPU Time: 0 0: 2:44.87 (164.87 sec) Binary
2393 Time Step No. = 700 Elapsed Time = 2.830917E+05 days
2394 Date: 05/18/06 Time: 10:56:32 CPU Time: 0 0: 2:54.55 (174.55 sec) Binary
2396 Time Step No. = 720 Elapsed Time = 3.158487E+05 days

2397 Date: 05/18/06 Time: 10:56:37 CPU Time: 0 0: 3: 0.02 (180.02 sec) Binary
2399 Time Step No. = 740 Elapsed Time = 3.652487E+05 days
2400 Date: 05/18/06 Time: 10:56:43 CPU Time: 0 0: 3: 5.41 (185.41 sec) Binary
2402 Time Step No. = 760 Elapsed Time = 3.653477E+05 days
2403 Date: 05/18/06 Time: 10:56:47 CPU Time: 0 0: 3: 9.45 (189.45 sec) Binary
2405 Time Step No. = 780 Elapsed Time = 3.666426E+05 days
2406 Date: 05/18/06 Time: 10:56:51 CPU Time: 0 0: 3:13.48 (193.48 sec) Binary
2408 Time Step No. = 800 Elapsed Time = 3.666557E+05 days
2409 Date: 05/18/06 Time: 10:56:52 CPU Time: 0 0: 3:14.85 (194.85 sec) Binary
2411 Time Step No. = 820 Elapsed Time = 3.676756E+05 days
2412 Date: 05/18/06 Time: 10:56:56 CPU Time: 0 0: 3:18.27 (198.27 sec) Binary
2414 Time Step No. = 840 Elapsed Time = 4.168857E+05 days
2415 Date: 05/18/06 Time: 10:57:01 CPU Time: 0 0: 3:24.08 (204.08 sec) Binary
2417 Time Step No. = 860 Elapsed Time = 4.834104E+05 days
2418 Date: 05/18/06 Time: 10:57:10 CPU Time: 0 0: 3:32.58 (212.58 sec) Binary
2420 Time Step No. = 880 Elapsed Time = 6.250995E+05 days
2421 Date: 05/18/06 Time: 10:57:16 CPU Time: 0 0: 3:38.60 (218.60 sec) Binary
2423 Time Step No. = 900 Elapsed Time = 6.472604E+05 days
2424 Date: 05/18/06 Time: 10:57:24 CPU Time: 0 0: 3:46.64 (226.64 sec) Binary
2426 Time Step No. = 920 Elapsed Time = 8.509338E+05 days
2427 Date: 05/18/06 Time: 10:57:31 CPU Time: 0 0: 3:53.61 (233.61 sec) Binary
2429 Time Step No. = 940 Elapsed Time = 8.666179E+05 days
2430 Date: 05/18/06 Time: 10:57:36 CPU Time: 0 0: 3:59.04 (239.04 sec) Binary
2432 Time Step No. = 960 Elapsed Time = 8.980547E+05 days
2433 Date: 05/18/06 Time: 10:57:44 CPU Time: 0 0: 4: 7.06 (247.06 sec) Binary
2435 Time Step No. = 980 Elapsed Time = 9.084805E+05 days
2436 Date: 05/18/06 Time: 10:57:51 CPU Time: 0 0: 4:13.46 (253.46 sec) Binary
2438 Time Step No. = 1000 Elapsed Time = 9.303573E+05 days
2439 Date: 05/18/06 Time: 10:57:59 CPU Time: 0 0: 4:21.37 (261.37 sec) Binary
2441 Time Step No. = 1020 Elapsed Time = 9.354913E+05 days
2442 Date: 05/18/06 Time: 10:58:04 CPU Time: 0 0: 4:26.36 (266.36 sec) Binary
2444 Time Step No. = 1040 Elapsed Time = 9.627726E+05 days
2445 Date: 05/18/06 Time: 10:58:10 CPU Time: 0 0: 4:32.90 (272.90 sec) Binary
2447 Time Step No. = 1060 Elapsed Time = 9.865575E+05 days
2448 Date: 05/18/06 Time: 10:58:19 CPU Time: 0 0: 4:41.43 (281.43 sec) Binary
2450 Time Step No. = 1080 Elapsed Time = 1.010557E+06 days
2451 Date: 05/18/06 Time: 10:58:24 CPU Time: 0 0: 4:46.19 (286.19 sec) Binary
2453 Time Step No. = 1100 Elapsed Time = 1.037354E+06 days
2454 Date: 05/18/06 Time: 10:58:31 CPU Time: 0 0: 4:53.47 (293.47 sec) Binary
2456 Time Step No. = 1120 Elapsed Time = 1.044114E+06 days
2457 Date: 05/18/06 Time: 10:58:37 CPU Time: 0 0: 4:59.18 (299.18 sec) Binary
2459 Time Step No. = 1140 Elapsed Time = 1.051085E+06 days
2460 Date: 05/18/06 Time: 10:58:44 CPU Time: 0 0: 5: 5.91 (305.91 sec) Binary
2462 Time Step No. = 1160 Elapsed Time = 1.056924E+06 days
2463 Date: 05/18/06 Time: 10:58:50 CPU Time: 0 0: 5:12.61 (312.61 sec) Binary
2465 Time Step No. = 1180 Elapsed Time = 1.069927E+06 days
2466 Date: 05/18/06 Time: 10:58:57 CPU Time: 0 0: 5:19.22 (319.22 sec) Binary
2468 Time Step No. = 1200 Elapsed Time = 1.074785E+06 days
2469 Date: 05/18/06 Time: 10:59:05 CPU Time: 0 0: 5:27.57 (327.57 sec) Binary
2471 Time Step No. = 1220 Elapsed Time = 1.098676E+06 days
2472 Date: 05/18/06 Time: 10:59:12 CPU Time: 0 0: 5:34.65 (334.65 sec) Binary
2474 Time Step No. = 1240 Elapsed Time = 1.104263E+06 days
2475 Date: 05/18/06 Time: 10:59:16 CPU Time: 0 0: 5:38.02 (338.02 sec) Binary
2477 Time Step No. = 1260 Elapsed Time = 1.154509E+06 days
2478 Date: 05/18/06 Time: 10:59:22 CPU Time: 0 0: 5:43.92 (343.92 sec) Binary
2480 Time Step No. = 1280 Elapsed Time = 1.203455E+06 days
2481 Date: 05/18/06 Time: 10:59:28 CPU Time: 0 0: 5:49.90 (349.90 sec) Binary
2483 Time Step No. = 1300 Elapsed Time = 1.359187E+06 days
2484 Date: 05/18/06 Time: 10:59:31 CPU Time: 0 0: 5:53.20 (353.20 sec) Binary
2486 Time Step No. = 1320 Elapsed Time = 1.597020E+06 days
2487 Date: 05/18/06 Time: 10:59:39 CPU Time: 0 0: 6: 0.61 (360.61 sec) Binary
2489 Time Step No. = 1340 Elapsed Time = 1.943096E+06 days
2490 Date: 05/18/06 Time: 10:59:42 CPU Time: 0 0: 6: 4.31 (364.31 sec) Binary
2492 Time Step No. = 1360 Elapsed Time = 2.343096E+06 days
2493 Date: 05/18/06 Time: 10:59:46 CPU Time: 0 0: 6: 8.05 (368.05 sec) Binary
2495 Time Step No. = 1380 Elapsed Time = 2.743096E+06 days
2496 Date: 05/18/06 Time: 10:59:50 CPU Time: 0 0: 6:11.80 (371.80 sec) Binary
2498 Time Step No. = 1400 Elapsed Time = 3.143096E+06 days
2499 Date: 05/18/06 Time: 10:59:53 CPU Time: 0 0: 6:15.45 (375.45 sec) Binary
2501 Time Step No. = 1420 Elapsed Time = 3.543096E+06 days
2502 Date: 05/18/06 Time: 10:59:57 CPU Time: 0 0: 6:19.07 (379.07 sec) Binary
2505 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
2667 CPU Time (this time step) = 0.19 sec = 0.00005 hr

Information Only

```
2668 CPU Time (total for run) = 447.46 sec = 0.12429 hr
2669 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
2521 CPU Time (this time step) = 0.18 sec = 0.00005 hr
2522 CPU Time (total for run) = 380.17 sec = 0.10560 hr
2523 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
3345 Date: 02/14/07 Time: 10:22:18 CPU Time: 0 0: 7:27.48 ( 447.48 sec) ASCII
3347 Time Step No. = 1426 Elapsed Time = 3.652431E+06 days
3348 Date: 02/14/07 Time: 10:22:18 CPU Time: 0 0: 7:27.48 ( 447.48 sec) Binary
3353 *****
3354 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3355 * Completed: 02/14/07 at 10:22:18 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3356 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
3199 Date: 05/18/06 Time: 10:59:58 CPU Time: 0 0: 6:20.18 ( 380.18 sec) ASCII
3201 Time Step No. = 1426 Elapsed Time = 3.652431E+06 days
3202 Date: 05/18/06 Time: 10:59:58 CPU Time: 0 0: 6:20.18 ( 380.18 sec) Binary
3207 *****
3208 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3209 * Completed: 05/18/06 at 10:59:58 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3210 *****
*****
```

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

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

BF2_QB0600_ES47_TEST7_V018_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3 ** Begun on: 02/14/07 at 10:14:52 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
2 ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3 ** Begun on: 05/18/06 at 10:54:11 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R018]BF2_TEST7_R018_QA0500.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R018]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
```

```
72 *****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R018]BF2_VMS82_V500_ES47_TEST7_R018.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R018]BF2_VMS82_V500_ES47_TEST7_R018.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
86 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R018]BF2_VMS82_V500_ES47_TEST7_R018.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
195 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
196 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
197 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
198 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
199 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
200 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
201 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
202 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
203 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
204 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
205 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
206 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
207 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
208 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
209 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
210 58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
211 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
212 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
213 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
214 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
215 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
216 64 0 0 CONCST Salt concentration -- simple model kg/m^3
217 65 0 0 FORSOLID Volume fraction of generated solids dimensionless
218 66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
224 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
225 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
226 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
227 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
228 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
229 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
230 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
231 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
232 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
233 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
```

236 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241 89 0 0 CONCRKN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRKN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243 91 0 0 CONCRKN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244 92 0 0 CONCRKN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRKN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
246 94 0 0 CONCRKN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
247 95 0 0 CONCRKN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
248 96 0 0 CONCRKN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249 97 0 0 CONCRKN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250 98 0 0 CONCRKN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251 99 0 0 CONCRKN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252 100 0 0 CONCRKN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253 101 0 0 CONCRKN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254 102 0 0 CONCRKN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255 103 0 0 CONCRKN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256 104 0 0 CONCRKN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257 105 0 0 CONCRKN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258 106 0 0 CONCRKN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259 107 0 0 CONCRKN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260 108 0 0 CONCRKN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261 109 0 0 CONCRKN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262 110 0 0 CONCRKN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263 111 0 0 CONCRKN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264 112 0 0 H2OFLOWIN Water inflow rate kg/s
265 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271 119 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
272 120 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg
273 121 0 0 B_CONC(1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274 122 0 0 B_CONC(1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275 123 0 0 S_MASS(1,1) Solid mass of isotope 1 from Waste Region 1 kg
276 124 0 0 S_MASS(1,2) Solid mass of isotope 1 from Waste Region 2 kg
278

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
195 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200 48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201 49 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 50 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 51 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204 52 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205 53 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206 54 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207 55 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208 56 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209 57 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
216 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
217 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
218 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
219 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
220 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)


```
861 Material type indexes of material regions
862 where IC's will be reset (MATRESET) = 7 8 9 10 39
864 Borehole matl index number (MAT_BOREHOLE) = 0
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
842 where IC's will be reset (NMATRESET) = 4
843 Material type indexes of material regions
844 where IC's will be reset (MATRESET) = 7 8 9 10
846 Borehole matl index number (MAT_BOREHOLE) = 0
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
869 instead of Input IC's for the Cavities
870 [0=No, 1=Yes] (ICWASTE) = 1
872 Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
873 Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
874 Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
875 Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
876 Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
877 Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
878 Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
879 Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
880 Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
881 Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
883 -----
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
851 instead of Input IC's for the Waste
852 [0=No, 1=Yes] (ICWASTE) = 1
854 Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
855 Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
856 Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
857 Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
859 -----
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
949 39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
950 TOL = 1.0000E-02
951 SOCEFFMIN = 1.0000E-03
953 Fracture model will be used? (KRACTURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
926 Fracture model will be used? (KRACTURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
1086 Intrinsic reaction rate constants? (LINTRIN): F
1088 Reaction rate constants (RK):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
1059 Reaction rate constants (RK):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
1096 MgO hydration reaction rate constants:
1097 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100 Gas generation factors for biodegradation reaction:
1101 Waste Area # 1
1102 H2/H2S production (RXH2S) = 9.866000E-01
1103 CO2 production (RXCO2) = 0.000000E+00
1105 Gas generation factors for biodegradation reaction:
1106 Waste Area # 2
1107 H2/H2S production (RXH2S) = 9.866000E-01
1108 CO2 production (RXCO2) = 0.000000E+00
1110 Saturation cutoff value (SOCMIN): 0.000000E+00
1112 Stoichiometric coeff's for Rxn 1:
1113 H2 coefficient = 1.263800E+00
1114 H2O coefficient = -1.472400E+00
```

1115 Fe coefficient = -1.000000E+00
1116 Bio coefficient = 0.000000E+00
1117 Fe(OH)2 coefficient = 0.000000E+00
1118 FeS coefficient = 0.000000E+00
1119 MgO coefficient = 0.000000E+00
1120 Mg(OH)2 coefficient = 0.000000E+00
1121 MgCO3 coefficient = 0.000000E+00
1123 Stoichiometric coeff's for Rxn 2:
1124 H2 coefficient = 9.866000E-01
1125 H2O coefficient = 0.000000E+00
1126 Fe coefficient = 0.000000E+00
1127 Bio coefficient = -1.000000E+00
1128 Fe(OH)2 coefficient = 0.000000E+00
1129 FeS coefficient = 0.000000E+00
1130 MgO coefficient = 0.000000E+00
1131 Mg(OH)2 coefficient = 0.000000E+00
1132 MgCO3 coefficient = 0.000000E+00
1134 Stoichiometric coeff's for Rxn 3:
1135 H2 coefficient = 0.000000E+00
1136 H2O coefficient = 0.000000E+00
1137 Fe coefficient = 0.000000E+00
1138 Bio coefficient = 0.000000E+00
1139 Fe(OH)2 coefficient = 0.000000E+00
1140 FeS coefficient = 0.000000E+00
1141 MgO coefficient = 0.000000E+00
1142 Mg(OH)2 coefficient = 0.000000E+00
1143 MgCO3 coefficient = 0.000000E+00
1145 Stoichiometric coeff's for Rxn 4:
1146 H2 coefficient = 0.000000E+00
1147 H2O coefficient = 0.000000E+00
1148 Fe coefficient = 0.000000E+00
1149 Bio coefficient = 0.000000E+00
1150 Fe(OH)2 coefficient = 0.000000E+00
1151 FeS coefficient = 0.000000E+00
1152 MgO coefficient = 0.000000E+00
1153 Mg(OH)2 coefficient = 0.000000E+00
1154 MgCO3 coefficient = 0.000000E+00
1156 Stoichiometric coeff's for Rxn 5:
1157 H2 coefficient = 0.000000E+00
1158 H2O coefficient = 0.000000E+00
1159 Fe coefficient = 0.000000E+00
1160 Bio coefficient = 0.000000E+00
1161 Fe(OH)2 coefficient = 0.000000E+00
1162 FeS coefficient = 0.000000E+00
1163 MgO coefficient = 0.000000E+00
1164 Mg(OH)2 coefficient = 0.000000E+00
1165 MgCO3 coefficient = 0.000000E+00
1167 Stoichiometric coeff's for Rxn 6:
1168 H2 coefficient = 0.000000E+00
1169 H2O coefficient = 0.000000E+00
1170 Fe coefficient = 0.000000E+00
1171 Bio coefficient = 0.000000E+00
1172 Fe(OH)2 coefficient = 0.000000E+00
1173 FeS coefficient = 0.000000E+00
1174 MgO coefficient = 0.000000E+00
1175 Mg(OH)2 coefficient = 0.000000E+00
1176 MgCO3 coefficient = 0.000000E+00
1178 Stoichiometric coeff's for Rxn 7:
1179 H2 coefficient = 0.000000E+00
1180 H2O coefficient = 0.000000E+00
1181 Fe coefficient = 0.000000E+00
1182 Bio coefficient = 0.000000E+00
1183 Fe(OH)2 coefficient = 0.000000E+00
1184 FeS coefficient = 0.000000E+00
1185 MgO coefficient = 0.000000E+00
1186 Mg(OH)2 coefficient = 0.000000E+00
1187 MgCO3 coefficient = 0.000000E+00
1189 Wicking term (SATWICK) = 0.000000E+00
1190 Humid rates to be smoothed? (LARKN) = T
1191 Concentration rates to be smoothed? (LARKN2) = F


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1192 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1194 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
1067 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068 Gas coefficient = 1.263800E+00
1069 H2O coefficient = 1.472400E+00
1070 Fe coefficient = 1.000000E+00
1072 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073 Gas coefficient = 9.866000E-01
1074 H2O coefficient = 0.000000E+00
1075 Bio coefficient = 1.000000E+00
1077 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
1200 Molecular weights (WM):
1201 Fe(OH)2: 8.9862E-02 kg/mol
1202 FeS: 8.7900E-02 kg/mol
1203 MgO: 4.0304E-02 kg/mol
1204 Mg(OH)2: 5.8320E-02 kg/mol
1205 MgCO3: 8.4314E-02 kg/mol
1207 Densities (DEN(1-4)):
1208 Fe: 7.8700E+03 kg/m3
1209 Fe(OH)2: 3.4000E+03 kg/m3
1210 FeS: 4.7000E+03 kg/m3
1211 Bio: 1.1000E+03 kg/m3
1213 Densities (DEN(5-8)):
1214 MgO: 3.6000E+03 kg/m3
1215 Mg(OH)2: 2.3700E+03 kg/m3
1216 MgCO3: 3.0500E+03 kg/m3
1217 SALT: 2.1700E+03 kg/m3
1219 Will creep closure be used (CLOSURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
1083 Wicking term (SATWICK) = 0.000000E+00
1084 Humid rates to be smoothed? (LARXN) = T
1085 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1087 Will creep closure be used (CLOSURE): T
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
1233 PHIUPPER = Upper porosity limit in permeability-porosity expression
1234 PHILOWER = Lower porosity limit in permeability-porosity expression
1235 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
1236 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1237 4 1.480000E+07 3.155700E+12 1 F
1238 MODPERM Parameters
1239 Model Number (CLOSPERMFAC) [m^2] (CLOSPERMEXP) [-]
1240 4 5.584700E-12 0.000000E+00
1242 Number of materials using closure (NMATCLOS) = 2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
1101 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFAC) [m^2] (CLOSPERMEXP) [-]
1102 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1103 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105 Number of materials using closure (NMATCLOS) = 2
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
1260 *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1263 *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1266 *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1269 *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
1272 *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
1276
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
1123 *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1126 *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
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1130
*****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
1300 57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1301 58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1303 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
1154 47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1155 48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1157 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 19.84 sec = 0.00551 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
1626 CPU Time (this time step) = 0.11 sec = 0.00003 hr
1627 CPU Time (total for run) = 17.79 sec = 0.00494 hr
1628 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
2450 Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:19.85 ( 19.85 sec) ASCII
2452 Time Step No. = 126 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:19.85 ( 19.85 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 1.852005E-01 days
2456 Date: 02/14/07 Time: 10:15:15 CPU Time: 0 0: 0:22.75 ( 22.75 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 1.676048E+01 days
2459 Date: 02/14/07 Time: 10:15:19 CPU Time: 0 0: 0:26.53 ( 26.53 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 9.685600E+02 days
2462 Date: 02/14/07 Time: 10:15:24 CPU Time: 0 0: 0:31.89 ( 31.89 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 1.090054E+04 days
2465 Date: 02/14/07 Time: 10:15:31 CPU Time: 0 0: 0:38.77 ( 38.77 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.542607E+04 days
2468 Date: 02/14/07 Time: 10:15:41 CPU Time: 0 0: 0:48.73 ( 48.73 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.655532E+04 days
2471 Date: 02/14/07 Time: 10:15:48 CPU Time: 0 0: 0:55.72 ( 55.72 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.667264E+04 days
2474 Date: 02/14/07 Time: 10:15:51 CPU Time: 0 0: 0:58.16 ( 58.16 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.673502E+04 days
2477 Date: 02/14/07 Time: 10:15:54 CPU Time: 0 0: 1: 1.23 ( 61.23 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.849232E+04 days
2480 Date: 02/14/07 Time: 10:15:59 CPU Time: 0 0: 1: 6.47 ( 66.47 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 4.353267E+04 days
2483 Date: 02/14/07 Time: 10:16:09 CPU Time: 0 0: 1:15.69 ( 75.69 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 8.646290E+04 days
2486 Date: 02/14/07 Time: 10:16:16 CPU Time: 0 0: 1:22.85 ( 82.85 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 1.956099E+05 days
2489 Date: 02/14/07 Time: 10:16:27 CPU Time: 0 0: 1:34.60 ( 94.60 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 2.537997E+05 days
2492 Date: 02/14/07 Time: 10:16:37 CPU Time: 0 0: 1:43.87 ( 103.87 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.654102E+05 days
2495 Date: 02/14/07 Time: 10:16:43 CPU Time: 0 0: 1:50.19 ( 110.19 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 3.660393E+05 days
2498 Date: 02/14/07 Time: 10:16:48 CPU Time: 0 0: 1:55.53 ( 115.53 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.665141E+05 days
2501 Date: 02/14/07 Time: 10:16:50 CPU Time: 0 0: 1:57.53 ( 117.53 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 3.666116E+05 days
2504 Date: 02/14/07 Time: 10:16:53 CPU Time: 0 0: 1:59.66 ( 119.66 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 3.698164E+05 days
2507 Date: 02/14/07 Time: 10:16:57 CPU Time: 0 0: 2: 4.34 ( 124.34 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 3.836378E+05 days
2510 Date: 02/14/07 Time: 10:17:05 CPU Time: 0 0: 2:11.72 ( 131.72 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 4.773464E+05 days
2513 Date: 02/14/07 Time: 10:17:14 CPU Time: 0 0: 2:21.09 ( 141.09 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 4.805632E+05 days
2516 Date: 02/14/07 Time: 10:17:20 CPU Time: 0 0: 2:26.95 ( 146.95 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 6.090050E+05 days
2519 Date: 02/14/07 Time: 10:17:27 CPU Time: 0 0: 2:34.33 ( 154.33 sec) Binary
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2521 Time Step No. = 580 Elapsed Time = 6.642533E+05 days
2522 Date: 02/14/07 Time: 10:17:36 CPU Time: 0 0: 2:43.10 (163.10 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 6.660298E+05 days
2525 Date: 02/14/07 Time: 10:17:45 CPU Time: 0 0: 2:51.35 (171.35 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 6.750577E+05 days
2528 Date: 02/14/07 Time: 10:17:51 CPU Time: 0 0: 2:57.63 (177.63 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 8.117950E+05 days
2531 Date: 02/14/07 Time: 10:17:57 CPU Time: 0 0: 3: 4.15 (184.15 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 8.733977E+05 days
2534 Date: 02/14/07 Time: 10:18:06 CPU Time: 0 0: 3:12.64 (192.64 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 8.853639E+05 days
2537 Date: 02/14/07 Time: 10:18:13 CPU Time: 0 0: 3:20.01 (200.01 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 8.877123E+05 days
2540 Date: 02/14/07 Time: 10:18:17 CPU Time: 0 0: 3:23.23 (203.23 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 8.965246E+05 days
2543 Date: 02/14/07 Time: 10:18:24 CPU Time: 0 0: 3:30.91 (210.91 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 9.678193E+05 days
2546 Date: 02/14/07 Time: 10:18:31 CPU Time: 0 0: 3:37.77 (217.77 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 9.824276E+05 days
2549 Date: 02/14/07 Time: 10:18:37 CPU Time: 0 0: 3:43.96 (223.96 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 1.079404E+06 days
2552 Date: 02/14/07 Time: 10:18:46 CPU Time: 0 0: 3:52.82 (232.82 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 1.220016E+06 days
2555 Date: 02/14/07 Time: 10:18:56 CPU Time: 0 0: 4: 2.14 (242.14 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 1.358888E+06 days
2558 Date: 02/14/07 Time: 10:19:04 CPU Time: 0 0: 4:10.66 (250.66 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 1.367185E+06 days
2561 Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0: 4:17.36 (257.36 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 1.592454E+06 days
2564 Date: 02/14/07 Time: 10:19:18 CPU Time: 0 0: 4:24.37 (264.37 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 1.607973E+06 days
2567 Date: 02/14/07 Time: 10:19:28 CPU Time: 0 0: 4:34.42 (274.42 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.611408E+06 days
2570 Date: 02/14/07 Time: 10:19:34 CPU Time: 0 0: 4:40.05 (280.05 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.629376E+06 days
2573 Date: 02/14/07 Time: 10:19:40 CPU Time: 0 0: 4:46.63 (286.63 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.713757E+06 days
2576 Date: 02/14/07 Time: 10:19:46 CPU Time: 0 0: 4:51.88 (291.88 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 2.091414E+06 days
2579 Date: 02/14/07 Time: 10:19:53 CPU Time: 0 0: 4:59.50 (299.50 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 2.491414E+06 days
2582 Date: 02/14/07 Time: 10:19:59 CPU Time: 0 0: 5: 5.09 (305.09 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 2.635578E+06 days
2585 Date: 02/14/07 Time: 10:20:09 CPU Time: 0 0: 5:14.88 (314.88 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 2.775082E+06 days
2588 Date: 02/14/07 Time: 10:20:15 CPU Time: 0 0: 5:20.98 (320.98 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 3.175082E+06 days
2591 Date: 02/14/07 Time: 10:20:21 CPU Time: 0 0: 5:27.20 (327.20 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 3.575082E+06 days
2594 Date: 02/14/07 Time: 10:20:28 CPU Time: 0 0: 5:34.26 (334.26 sec) Binary
2597 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
2304 Date: 05/18/06 Time: 10:54:29 CPU Time: 0 0: 0:17.79 (17.79 sec) ASCII
2306 Time Step No. = 126 Elapsed Time = 0.000000E+00 days
2307 Date: 05/18/06 Time: 10:54:29 CPU Time: 0 0: 0:17.79 (17.79 sec) Binary
2309 Time Step No. = 140 Elapsed Time = 1.852005E-01 days
2310 Date: 05/18/06 Time: 10:54:32 CPU Time: 0 0: 0:20.12 (20.12 sec) Binary
2312 Time Step No. = 160 Elapsed Time = 1.676048E+01 days
2313 Date: 05/18/06 Time: 10:54:35 CPU Time: 0 0: 0:23.19 (23.19 sec) Binary
2315 Time Step No. = 180 Elapsed Time = 9.685600E+02 days
2316 Date: 05/18/06 Time: 10:54:39 CPU Time: 0 0: 0:27.52 (27.52 sec) Binary
2318 Time Step No. = 200 Elapsed Time = 1.090054E+04 days
2319 Date: 05/18/06 Time: 10:54:45 CPU Time: 0 0: 0:33.09 (33.09 sec) Binary
2321 Time Step No. = 220 Elapsed Time = 3.542607E+04 days
2322 Date: 05/18/06 Time: 10:54:53 CPU Time: 0 0: 0:41.16 (41.16 sec) Binary
2324 Time Step No. = 240 Elapsed Time = 3.655532E+04 days
2325 Date: 05/18/06 Time: 10:54:58 CPU Time: 0 0: 0:46.70 (46.70 sec) Binary
2327 Time Step No. = 260 Elapsed Time = 3.667264E+04 days
2328 Date: 05/18/06 Time: 10:55:00 CPU Time: 0 0: 0:48.62 (48.62 sec) Binary
2330 Time Step No. = 280 Elapsed Time = 3.673502E+04 days
2331 Date: 05/18/06 Time: 10:55:03 CPU Time: 0 0: 0:51.04 (51.04 sec) Binary
2333 Time Step No. = 300 Elapsed Time = 3.849232E+04 days
2334 Date: 05/18/06 Time: 10:55:07 CPU Time: 0 0: 0:55.20 (55.20 sec) Binary
2336 Time Step No. = 320 Elapsed Time = 4.353267E+04 days
2337 Date: 05/18/06 Time: 10:55:14 CPU Time: 0 0: 1: 2.79 (62.79 sec) Binary

2339 Time Step No. = 340 Elapsed Time = 8.646290E+04 days
2340 Date: 05/18/06 Time: 10:55:20 CPU Time: 0 0: 1: 8.76 (68.76 sec) Binary
2342 Time Step No. = 360 Elapsed Time = 1.956099E+05 days
2343 Date: 05/18/06 Time: 10:55:30 CPU Time: 0 0: 1:18.75 (78.75 sec) Binary
2345 Time Step No. = 380 Elapsed Time = 2.537997E+05 days
2346 Date: 05/18/06 Time: 10:55:38 CPU Time: 0 0: 1:26.82 (86.82 sec) Binary
2348 Time Step No. = 400 Elapsed Time = 3.654102E+05 days
2349 Date: 05/18/06 Time: 10:55:44 CPU Time: 0 0: 1:32.32 (92.32 sec) Binary
2351 Time Step No. = 420 Elapsed Time = 3.660393E+05 days
2352 Date: 05/18/06 Time: 10:55:49 CPU Time: 0 0: 1:37.04 (97.04 sec) Binary
2354 Time Step No. = 440 Elapsed Time = 3.665141E+05 days
2355 Date: 05/18/06 Time: 10:55:50 CPU Time: 0 0: 1:38.82 (98.82 sec) Binary
2357 Time Step No. = 460 Elapsed Time = 3.666116E+05 days
2358 Date: 05/18/06 Time: 10:55:52 CPU Time: 0 0: 1:40.71 (100.71 sec) Binary
2360 Time Step No. = 480 Elapsed Time = 3.698164E+05 days
2361 Date: 05/18/06 Time: 10:55:56 CPU Time: 0 0: 1:44.87 (104.87 sec) Binary
2363 Time Step No. = 500 Elapsed Time = 3.836378E+05 days
2364 Date: 05/18/06 Time: 10:56:03 CPU Time: 0 0: 1:51.42 (111.42 sec) Binary
2366 Time Step No. = 520 Elapsed Time = 4.773464E+05 days
2367 Date: 05/18/06 Time: 10:56:11 CPU Time: 0 0: 1:59.73 (119.73 sec) Binary
2369 Time Step No. = 540 Elapsed Time = 4.805632E+05 days
2370 Date: 05/18/06 Time: 10:56:16 CPU Time: 0 0: 2: 4.93 (124.93 sec) Binary
2372 Time Step No. = 560 Elapsed Time = 6.090050E+05 days
2373 Date: 05/18/06 Time: 10:56:23 CPU Time: 0 0: 2:11.49 (131.49 sec) Binary
2375 Time Step No. = 580 Elapsed Time = 6.642533E+05 days
2376 Date: 05/18/06 Time: 10:56:31 CPU Time: 0 0: 2:19.26 (139.26 sec) Binary
2378 Time Step No. = 600 Elapsed Time = 6.660298E+05 days
2379 Date: 05/18/06 Time: 10:56:38 CPU Time: 0 0: 2:26.58 (146.58 sec) Binary
2381 Time Step No. = 620 Elapsed Time = 6.750577E+05 days
2382 Date: 05/18/06 Time: 10:56:44 CPU Time: 0 0: 2:32.10 (152.10 sec) Binary
2384 Time Step No. = 640 Elapsed Time = 8.117950E+05 days
2385 Date: 05/18/06 Time: 10:56:49 CPU Time: 0 0: 2:37.88 (157.88 sec) Binary
2387 Time Step No. = 660 Elapsed Time = 8.733977E+05 days
2388 Date: 05/18/06 Time: 10:56:57 CPU Time: 0 0: 2:45.21 (165.21 sec) Binary
2390 Time Step No. = 680 Elapsed Time = 8.853639E+05 days
2391 Date: 05/18/06 Time: 10:57:03 CPU Time: 0 0: 2:51.13 (171.13 sec) Binary
2393 Time Step No. = 700 Elapsed Time = 8.877123E+05 days
2394 Date: 05/18/06 Time: 10:57:05 CPU Time: 0 0: 2:53.66 (173.66 sec) Binary
2396 Time Step No. = 720 Elapsed Time = 8.965246E+05 days
2397 Date: 05/18/06 Time: 10:57:11 CPU Time: 0 0: 2:59.77 (179.77 sec) Binary
2399 Time Step No. = 740 Elapsed Time = 9.678193E+05 days
2400 Date: 05/18/06 Time: 10:57:17 CPU Time: 0 0: 3: 5.25 (185.25 sec) Binary
2402 Time Step No. = 760 Elapsed Time = 9.824276E+05 days
2403 Date: 05/18/06 Time: 10:57:22 CPU Time: 0 0: 3:10.16 (190.16 sec) Binary
2405 Time Step No. = 780 Elapsed Time = 1.079404E+06 days
2406 Date: 05/18/06 Time: 10:57:29 CPU Time: 0 0: 3:17.26 (197.26 sec) Binary
2408 Time Step No. = 800 Elapsed Time = 1.220016E+06 days
2409 Date: 05/18/06 Time: 10:57:37 CPU Time: 0 0: 3:25.07 (205.07 sec) Binary
2411 Time Step No. = 820 Elapsed Time = 1.358888E+06 days
2412 Date: 05/18/06 Time: 10:57:44 CPU Time: 0 0: 3:32.17 (212.17 sec) Binary
2414 Time Step No. = 840 Elapsed Time = 1.367185E+06 days
2415 Date: 05/18/06 Time: 10:57:50 CPU Time: 0 0: 3:37.66 (217.66 sec) Binary
2417 Time Step No. = 860 Elapsed Time = 1.592454E+06 days
2418 Date: 05/18/06 Time: 10:57:55 CPU Time: 0 0: 3:43.30 (223.30 sec) Binary
2420 Time Step No. = 880 Elapsed Time = 1.607973E+06 days
2421 Date: 05/18/06 Time: 10:58:03 CPU Time: 0 0: 3:51.38 (231.38 sec) Binary
2423 Time Step No. = 900 Elapsed Time = 1.611408E+06 days
2424 Date: 05/18/06 Time: 10:58:08 CPU Time: 0 0: 3:55.91 (235.91 sec) Binary
2426 Time Step No. = 920 Elapsed Time = 1.629376E+06 days
2427 Date: 05/18/06 Time: 10:58:13 CPU Time: 0 0: 4: 1.23 (241.23 sec) Binary
2429 Time Step No. = 940 Elapsed Time = 1.713757E+06 days
2430 Date: 05/18/06 Time: 10:58:17 CPU Time: 0 0: 4: 5.45 (245.45 sec) Binary
2432 Time Step No. = 960 Elapsed Time = 2.091414E+06 days
2433 Date: 05/18/06 Time: 10:58:24 CPU Time: 0 0: 4:11.55 (251.55 sec) Binary
2435 Time Step No. = 980 Elapsed Time = 2.491414E+06 days
2436 Date: 05/18/06 Time: 10:58:28 CPU Time: 0 0: 4:16.07 (256.07 sec) Binary
2438 Time Step No. = 1000 Elapsed Time = 2.635578E+06 days
2439 Date: 05/18/06 Time: 10:58:36 CPU Time: 0 0: 4:23.93 (263.93 sec) Binary
2441 Time Step No. = 1020 Elapsed Time = 2.775082E+06 days
2442 Date: 05/18/06 Time: 10:58:41 CPU Time: 0 0: 4:28.83 (268.83 sec) Binary
2444 Time Step No. = 1040 Elapsed Time = 3.175082E+06 days
2445 Date: 05/18/06 Time: 10:58:46 CPU Time: 0 0: 4:33.84 (273.84 sec) Binary
2447 Time Step No. = 1060 Elapsed Time = 3.575082E+06 days
2448 Date: 05/18/06 Time: 10:58:51 CPU Time: 0 0: 4:39.51 (279.51 sec) Binary
2451 Restart information has been written to I/O unit 2 in DISKW, file name:

Information Only

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*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
2613 CPU Time (this time step) = 0.28 sec = 0.00008 hr
2614 CPU Time (total for run) = 335.38 sec = 0.09316 hr
2615 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
2467 CPU Time (this time step) = 0.23 sec = 0.00006 hr
2468 CPU Time (total for run) = 280.42 sec = 0.07789 hr
2469 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
3291 Date: 02/14/07 Time: 10:20:29 CPU Time: 0 0: 5:35.39 ( 335.39 sec) ASCII
3293 Time Step No. = 1064 Elapsed Time = 3.652431E+06 days
3294 Date: 02/14/07 Time: 10:20:29 CPU Time: 0 0: 5:35.40 ( 335.40 sec) Binary
3299 *****
3300 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3301 * Completed: 02/14/07 at 10:20:29 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3302 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
3145 Date: 05/18/06 Time: 10:58:52 CPU Time: 0 0: 4:40.44 ( 280.44 sec) ASCII
3147 Time Step No. = 1064 Elapsed Time = 3.652431E+06 days
3148 Date: 05/18/06 Time: 10:58:52 CPU Time: 0 0: 4:40.44 ( 280.44 sec) Binary
3153 *****
3154 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3155 * Completed: 05/18/06 at 10:58:52 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3156 *****
*****
```

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

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

BF2_QB0600_ES47_TEST7_V019_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3 ** Begun on: 02/14/07 at 10:15:39 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
2 ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3 ** Begun on: 05/18/06 at 10:54:19 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R019]BF2_TEST7_R019_QA0500.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R019]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
72 *****
```

```
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
  71 PAA: [ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
  72 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
  76 PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.SUM;1
  77 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
  76 PAA: [ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R019]BF2_VMS82_V500_ES47_TEST7_R019.SUM;1
  77 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
  81 PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.BIN;1
  82 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
  81 PAA: [ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R019]BF2_VMS82_V500_ES47_TEST7_R019.BIN;1
  82 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
  86 PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.ROT;1
  87 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
  86 PAA: [ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R019]BF2_VMS82_V500_ES47_TEST7_R019.ROT;1
  87 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
  195 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  207 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  208 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  209 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  210 58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  211 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  212 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  213 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  214 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  215 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  216 64 0 0 CONCST Salt concentration -- simple model kg/m^3
  217 65 0 0 POROLID Volume fraction of generated solids dimensionless
  218 66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  219 67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  220 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  221 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  222 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  223 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  224 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  225 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  226 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  227 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  228 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  229 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  230 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  231 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  232 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
```

233 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241 89 0 0 CONCRXN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
247 95 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
248 96 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249 97 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264 112 0 0 H2OFLOWIN Water inflow rate kg/s
265 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271 119 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
272 120 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg
273 121 0 0 B_CONC(1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274 122 0 0 B_CONC(1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275 123 0 0 S_MASS(1,1) Solid mass of isotope 1 from Waste Region 1 kg
276 124 0 0 S_MASS(1,2) Solid mass of isotope 1 from Waste Region 2 kg
278

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1

195 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200 48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201 49 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 50 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 51 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204 52 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205 53 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206 54 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207 55 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208 56 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209 57 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
216 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
217 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
860 where IC's will be reset (NMATRESET) = 5
861 Material type indexes of material regions
862 where IC's will be reset (MATRESET) = 7 8 9 10 39
864 Borehole matl index number (MAT_BOREHOLE) = 0

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
842 where IC's will be reset (NMATRESET) = 4
843 Material type indexes of material regions
844 where IC's will be reset (MATRESET) = 7 8 9 10
846 Borehole matl index number (MAT_BOREHOLE) = 0

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
869 instead of Input IC's for the Cavities
870 [0=No, 1=Yes] (ICWASTE) = 1
872 Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
873 Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
874 Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
875 Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
876 Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
877 Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
878 Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
879 Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
880 Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
881 Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
883

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
851 instead of Input IC's for the Waste
852 [0=No, 1=Yes] (ICWASTE) = 1
854 Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
855 Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
856 Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
857 Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
859

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
949 39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
950 TOL = 1.0000E-02
951 SOCEFFMIN = 1.0000E-03
953 Fracture model will be used? (KFRACTURE): T

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
926 Fracture model will be used? (KFRACTURE): T

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
1086 Intrinsic reaction rate constants? (LINTRIN): F
1088 Reaction rate constants (RK):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
1059 Reaction rate constants (RK):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
1096 MgO hydration reaction rate constants:
1097 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100 Gas generation factors for biodegradation reaction:
1101 Waste Area # 1
1102 H2/H2S production (RXH2S) = 6.099000E-01
1103 CO2 production (RXCO2) = 0.000000E+00
1105 Gas generation factors for biodegradation reaction:
1106 Waste Area # 2
1107 H2/H2S production (RXH2S) = 6.099000E-01
1108 CO2 production (RXCO2) = 0.000000E+00
1110 Saturation cutoff value (SOCMIN): 0.000000E+00

1112 *Stoichiometric coeff's for Rxn 1:*
1113 H2 coefficient = 1.112000E+00
1114 H2O coefficient = -1.775900E+00
1115 Fe coefficient = -1.000000E+00
1116 Bio coefficient = 0.000000E+00
1117 Fe(OH)2 coefficient = 0.000000E+00
1118 FeS coefficient = 0.000000E+00
1119 MgO coefficient = 0.000000E+00
1120 Mg(OH)2 coefficient = 0.000000E+00
1121 MgCO3 coefficient = 0.000000E+00
1122 *Stoichiometric coeff's for Rxn 2:*
1123 H2 coefficient = 6.099000E-01
1124 H2O coefficient = 0.000000E+00
1125 Fe coefficient = 0.000000E+00
1126 Bio coefficient = -1.000000E+00
1127 Fe(OH)2 coefficient = 0.000000E+00
1128 FeS coefficient = 0.000000E+00
1129 MgO coefficient = 0.000000E+00
1130 Mg(OH)2 coefficient = 0.000000E+00
1131 MgCO3 coefficient = 0.000000E+00
1132 *Stoichiometric coeff's for Rxn 3:*
1133 H2 coefficient = 0.000000E+00
1134 H2O coefficient = 0.000000E+00
1135 Fe coefficient = 0.000000E+00
1136 Bio coefficient = 0.000000E+00
1137 Fe(OH)2 coefficient = 0.000000E+00
1138 FeS coefficient = 0.000000E+00
1139 MgO coefficient = 0.000000E+00
1140 Mg(OH)2 coefficient = 0.000000E+00
1141 MgCO3 coefficient = 0.000000E+00
1142 *Stoichiometric coeff's for Rxn 4:*
1143 H2 coefficient = 0.000000E+00
1144 H2O coefficient = 0.000000E+00
1145 Fe coefficient = 0.000000E+00
1146 Bio coefficient = 0.000000E+00
1147 Fe(OH)2 coefficient = 0.000000E+00
1148 FeS coefficient = 0.000000E+00
1149 MgO coefficient = 0.000000E+00
1150 Mg(OH)2 coefficient = 0.000000E+00
1151 MgCO3 coefficient = 0.000000E+00
1152 *Stoichiometric coeff's for Rxn 5:*
1153 H2 coefficient = 0.000000E+00
1154 H2O coefficient = 0.000000E+00
1155 Fe coefficient = 0.000000E+00
1156 Bio coefficient = 0.000000E+00
1157 Fe(OH)2 coefficient = 0.000000E+00
1158 FeS coefficient = 0.000000E+00
1159 MgO coefficient = 0.000000E+00
1160 Mg(OH)2 coefficient = 0.000000E+00
1161 MgCO3 coefficient = 0.000000E+00
1162 *Stoichiometric coeff's for Rxn 6:*
1163 H2 coefficient = 0.000000E+00
1164 H2O coefficient = 0.000000E+00
1165 Fe coefficient = 0.000000E+00
1166 Bio coefficient = 0.000000E+00
1167 Fe(OH)2 coefficient = 0.000000E+00
1168 FeS coefficient = 0.000000E+00
1169 MgO coefficient = 0.000000E+00
1170 Mg(OH)2 coefficient = 0.000000E+00
1171 MgCO3 coefficient = 0.000000E+00
1172 *Stoichiometric coeff's for Rxn 7:*
1173 H2 coefficient = 0.000000E+00
1174 H2O coefficient = 0.000000E+00
1175 Fe coefficient = 0.000000E+00
1176 Bio coefficient = 0.000000E+00
1177 Fe(OH)2 coefficient = 0.000000E+00
1178 FeS coefficient = 0.000000E+00
1179 MgO coefficient = 0.000000E+00
1180 Mg(OH)2 coefficient = 0.000000E+00
1181 MgCO3 coefficient = 0.000000E+00

```
1189 Wicking term (SATWICK) = 0.000000E+00
1190 Humid rates to be smoothed? (LARXN) = T
1191 Concentration rates to be smoothed? (LARXN2) = F
1192 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1194 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
1067 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068 Gas coefficient = 1.112000E+00
1069 H2O coefficient = 1.775900E+00
1070 Fe coefficient = 1.000000E+00
1072 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073 Gas coefficient = 6.099000E-01
1074 H2O coefficient = 0.000000E+00
1075 Bio coefficient = 1.000000E+00
1077 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
1200 Molecular weights (WM):
1201 Fe(OH)2: 8.9862E-02 kg/mol
1202 FeS: 8.7900E-02 kg/mol
1203 MgO: 4.0304E-02 kg/mol
1204 Mg(OH)2: 5.8320E-02 kg/mol
1205 MgCO3: 8.4314E-02 kg/mol
1207 Densities (DEN(1-4)):
1208 Fe: 7.8700E+03 kg/m3
1209 Fe(OH)2: 3.4000E+03 kg/m3
1210 FeS: 4.7000E+03 kg/m3
1211 Bio: 1.1000E+03 kg/m3
1213 Densities (DEN(5-8)):
1214 MgO: 3.6000E+03 kg/m3
1215 Mg(OH)2: 2.3700E+03 kg/m3
1216 MgCO3: 3.0500E+03 kg/m3
1217 SALT: 2.1700E+03 kg/m3
1219 Will creep closure be used (CLOSURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
1083 Wicking term (SATWICK) = 0.000000E+00
1084 Humid rates to be smoothed? (LARXN) = T
1085 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1087 Will creep closure be used (CLOSURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
1233 PHIUPPER = Upper porosity limit in permeability-porosity expression
1234 PHILOWER = Lower porosity limit in permeability-porosity expression
1235 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
1236 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1237 4 1.480000E+07 3.155700E+12 1 F
1238 MODPERM Parameters
1239 Model Number (CLOSPERMFAC) [m^2] (CLOSPERMEXP) [-1]
1240 4 5.584700E-12 0.000000E+00
1242 Number of materials using closure (NMATCLOS) = 2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
1101 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFAC) [m^2] (CLOSPERMEXP) [-]
1102 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1103 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105 Number of materials using closure (NMATCLOS) = 2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
1260 *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1263 *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1266 *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1269 *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
1272 *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
1276
*****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
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1123 *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1126 *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1130
*****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
1300 57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1301 58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1303 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
1154 47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1155 48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1157 CAMCON Global Variable Units Conv
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
1772 CPU Time (this time step) = 0.14 sec = 0.00004 hr
1773 CPU Time (total for run) = 32.43 sec = 0.00901 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
1626 CPU Time (this time step) = 0.12 sec = 0.00003 hr
1627 CPU Time (total for run) = 27.43 sec = 0.00762 hr
1628 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
2450 Date: 02/14/07 Time: 10:16:12 CPU Time: 0 0: 0:32.44 ( 32.44 sec) ASCII
2452 Time Step No. = 156 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:16:12 CPU Time: 0 0: 0:32.45 ( 32.45 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 7.207031E-03 days
2456 Date: 02/14/07 Time: 10:16:15 CPU Time: 0 0: 0:35.30 ( 35.30 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 9.919446E-01 days
2459 Date: 02/14/07 Time: 10:16:18 CPU Time: 0 0: 0:38.93 ( 38.93 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 5.981381E+01 days
2462 Date: 02/14/07 Time: 10:16:22 CPU Time: 0 0: 0:43.18 ( 43.18 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 8.084405E+02 days
2465 Date: 02/14/07 Time: 10:16:28 CPU Time: 0 0: 0:48.82 ( 48.82 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 6.597767E+03 days
2468 Date: 02/14/07 Time: 10:16:35 CPU Time: 0 0: 0:56.00 ( 56.00 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 8.104276E+03 days
2471 Date: 02/14/07 Time: 10:16:41 CPU Time: 0 0: 1: 1.30 ( 61.30 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 1.013249E+04 days
2474 Date: 02/14/07 Time: 10:16:45 CPU Time: 0 0: 1: 5.55 ( 65.55 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 1.796897E+04 days
2477 Date: 02/14/07 Time: 10:16:52 CPU Time: 0 0: 1:12.86 ( 72.86 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 2.541947E+04 days
2480 Date: 02/14/07 Time: 10:16:57 CPU Time: 0 0: 1:17.73 ( 77.73 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2483 Date: 02/14/07 Time: 10:17:03 CPU Time: 0 0: 1:23.38 ( 83.38 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 3.652446E+04 days
2486 Date: 02/14/07 Time: 10:17:08 CPU Time: 0 0: 1:28.94 ( 88.94 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 3.653794E+04 days
2489 Date: 02/14/07 Time: 10:17:12 CPU Time: 0 0: 1:32.23 ( 92.23 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 3.665472E+04 days
2492 Date: 02/14/07 Time: 10:17:15 CPU Time: 0 0: 1:35.80 ( 95.80 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 3.667516E+04 days
2495 Date: 02/14/07 Time: 10:17:18 CPU Time: 0 0: 1:38.18 ( 98.18 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 3.724922E+04 days
2498 Date: 02/14/07 Time: 10:17:22 CPU Time: 0 0: 1:42.84 ( 102.84 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 5.413046E+04 days
2501 Date: 02/14/07 Time: 10:17:28 CPU Time: 0 0: 1:48.71 ( 108.71 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 9.100708E+04 days
2504 Date: 02/14/07 Time: 10:17:39 CPU Time: 0 0: 1:59.87 ( 119.87 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 1.470830E+05 days
2507 Date: 02/14/07 Time: 10:17:47 CPU Time: 0 0: 2: 7.71 ( 127.71 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 2.204613E+05 days
2510 Date: 02/14/07 Time: 10:17:58 CPU Time: 0 0: 2:18.80 ( 138.80 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 2.691848E+05 days
2513 Date: 02/14/07 Time: 10:18:07 CPU Time: 0 0: 2:27.70 ( 147.70 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 2.832034E+05 days
2516 Date: 02/14/07 Time: 10:18:12 CPU Time: 0 0: 2:32.87 ( 152.87 sec) Binary
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2518 Time Step No. = 580 Elapsed Time = 3.061970E+05 days
2519 Date: 02/14/07 Time: 10:18:21 CPU Time: 0 0: 2:41.02 (161.02 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 3.110361E+05 days
2522 Date: 02/14/07 Time: 10:18:29 CPU Time: 0 0: 2:49.87 (169.87 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 3.237666E+05 days
2525 Date: 02/14/07 Time: 10:18:39 CPU Time: 0 0: 2:59.95 (179.95 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 3.474124E+05 days
2528 Date: 02/14/07 Time: 10:18:45 CPU Time: 0 0: 3: 5.55 (185.55 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 3.652525E+05 days
2531 Date: 02/14/07 Time: 10:18:52 CPU Time: 0 0: 3:12.79 (192.79 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 3.652719E+05 days
2534 Date: 02/14/07 Time: 10:18:59 CPU Time: 0 0: 3:19.39 (199.39 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 3.653962E+05 days
2537 Date: 02/14/07 Time: 10:19:05 CPU Time: 0 0: 3:25.32 (205.32 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 3.660809E+05 days
2540 Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0: 3:31.80 (211.80 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 3.665917E+05 days
2543 Date: 02/14/07 Time: 10:19:14 CPU Time: 0 0: 3:34.31 (214.31 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 3.666891E+05 days
2546 Date: 02/14/07 Time: 10:19:17 CPU Time: 0 0: 3:37.30 (217.30 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.685642E+05 days
2549 Date: 02/14/07 Time: 10:19:24 CPU Time: 0 0: 3:44.04 (224.04 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.704468E+05 days
2552 Date: 02/14/07 Time: 10:19:31 CPU Time: 0 0: 3:51.16 (231.16 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 3.728343E+05 days
2555 Date: 02/14/07 Time: 10:19:37 CPU Time: 0 0: 3:57.58 (237.58 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 3.808843E+05 days
2558 Date: 02/14/07 Time: 10:19:46 CPU Time: 0 0: 4: 6.69 (246.69 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 3.829952E+05 days
2561 Date: 02/14/07 Time: 10:19:54 CPU Time: 0 0: 4:14.77 (254.77 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 3.831178E+05 days
2564 Date: 02/14/07 Time: 10:19:59 CPU Time: 0 0: 4:19.87 (259.87 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 3.834087E+05 days
2567 Date: 02/14/07 Time: 10:20:04 CPU Time: 0 0: 4:24.73 (264.73 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 3.859229E+05 days
2570 Date: 02/14/07 Time: 10:20:11 CPU Time: 0 0: 4:31.71 (271.71 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 3.893569E+05 days
2573 Date: 02/14/07 Time: 10:20:17 CPU Time: 0 0: 4:37.21 (277.21 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 3.936979E+05 days
2576 Date: 02/14/07 Time: 10:20:22 CPU Time: 0 0: 4:42.10 (282.10 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 4.144137E+05 days
2579 Date: 02/14/07 Time: 10:20:30 CPU Time: 0 0: 4:50.44 (290.44 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 4.180260E+05 days
2582 Date: 02/14/07 Time: 10:20:38 CPU Time: 0 0: 4:57.88 (297.88 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 4.184906E+05 days
2585 Date: 02/14/07 Time: 10:20:42 CPU Time: 0 0: 5: 2.51 (302.51 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 4.191714E+05 days
2588 Date: 02/14/07 Time: 10:20:50 CPU Time: 0 0: 5: 9.53 (309.53 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 4.192872E+05 days
2591 Date: 02/14/07 Time: 10:20:53 CPU Time: 0 0: 5:12.66 (312.66 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 4.283116E+05 days
2594 Date: 02/14/07 Time: 10:20:58 CPU Time: 0 0: 5:18.22 (318.22 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 4.358680E+05 days
2597 Date: 02/14/07 Time: 10:21:04 CPU Time: 0 0: 5:23.88 (323.88 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 4.362891E+05 days
2600 Date: 02/14/07 Time: 10:21:11 CPU Time: 0 0: 5:30.96 (330.96 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 4.374193E+05 days
2603 Date: 02/14/07 Time: 10:21:15 CPU Time: 0 0: 5:34.97 (334.97 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 4.444218E+05 days
2606 Date: 02/14/07 Time: 10:21:22 CPU Time: 0 0: 5:42.15 (342.15 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 4.554530E+05 days
2609 Date: 02/14/07 Time: 10:21:30 CPU Time: 0 0: 5:49.18 (349.18 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 4.557350E+05 days
2612 Date: 02/14/07 Time: 10:21:36 CPU Time: 0 0: 5:55.30 (355.30 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 4.578442E+05 days
2615 Date: 02/14/07 Time: 10:21:42 CPU Time: 0 0: 6: 2.07 (362.07 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 4.579509E+05 days
2618 Date: 02/14/07 Time: 10:21:51 CPU Time: 0 0: 6:10.36 (370.36 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 4.584427E+05 days
2621 Date: 02/14/07 Time: 10:21:59 CPU Time: 0 0: 6:18.54 (378.54 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 4.599440E+05 days
2624 Date: 02/14/07 Time: 10:22:03 CPU Time: 0 0: 6:22.33 (382.33 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 4.690229E+05 days
2627 Date: 02/14/07 Time: 10:22:11 CPU Time: 0 0: 6:30.40 (390.40 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 4.748604E+05 days
2630 Date: 02/14/07 Time: 10:22:21 CPU Time: 0 0: 6:40.13 (400.13 sec) Binary

2632 Time Step No. = 1340 Elapsed Time = 4.830762E+05 days
2633 Date: 02/14/07 Time: 10:22:28 CPU Time: 0 0: 6:47.48 (407.48 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 5.258526E+05 days
2636 Date: 02/14/07 Time: 10:22:36 CPU Time: 0 0: 6:55.60 (415.60 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 5.892641E+05 days
2639 Date: 02/14/07 Time: 10:22:44 CPU Time: 0 0: 7: 2.96 (422.96 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 6.795923E+05 days
2642 Date: 02/14/07 Time: 10:22:52 CPU Time: 0 0: 7:10.82 (430.82 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 6.868502E+05 days
2645 Date: 02/14/07 Time: 10:23:00 CPU Time: 0 0: 7:19.40 (439.40 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 7.652701E+05 days
2648 Date: 02/14/07 Time: 10:23:09 CPU Time: 0 0: 7:28.36 (448.36 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 7.968026E+05 days
2651 Date: 02/14/07 Time: 10:23:19 CPU Time: 0 0: 7:38.34 (458.34 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 8.666657E+05 days
2654 Date: 02/14/07 Time: 10:23:28 CPU Time: 0 0: 7:46.78 (466.78 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 8.983079E+05 days
2657 Date: 02/14/07 Time: 10:23:38 CPU Time: 0 0: 7:56.96 (476.96 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 9.551600E+05 days
2660 Date: 02/14/07 Time: 10:23:47 CPU Time: 0 0: 8: 6.46 (486.46 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 9.998592E+05 days
2663 Date: 02/14/07 Time: 10:23:56 CPU Time: 0 0: 8:15.43 (495.43 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 1.085834E+06 days
2666 Date: 02/14/07 Time: 10:24:05 CPU Time: 0 0: 8:24.14 (504.14 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 1.160714E+06 days
2669 Date: 02/14/07 Time: 10:24:12 CPU Time: 0 0: 8:30.80 (510.80 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 1.559652E+06 days
2672 Date: 02/14/07 Time: 10:24:19 CPU Time: 0 0: 8:37.83 (517.83 sec) Binary
2674 Time Step No. = 1620 Elapsed Time = 1.959652E+06 days
2675 Date: 02/14/07 Time: 10:24:25 CPU Time: 0 0: 8:44.48 (524.48 sec) Binary
2677 Time Step No. = 1640 Elapsed Time = 2.090782E+06 days
2678 Date: 02/14/07 Time: 10:24:36 CPU Time: 0 0: 8:54.75 (534.75 sec) Binary
2680 Time Step No. = 1660 Elapsed Time = 2.163373E+06 days
2681 Date: 02/14/07 Time: 10:24:41 CPU Time: 0 0: 9: 0.27 (540.27 sec) Binary
2683 Time Step No. = 1680 Elapsed Time = 2.183046E+06 days
2684 Date: 02/14/07 Time: 10:24:49 CPU Time: 0 0: 9: 7.77 (547.77 sec) Binary
2686 Time Step No. = 1700 Elapsed Time = 2.201300E+06 days
2687 Date: 02/14/07 Time: 10:24:58 CPU Time: 0 0: 9:16.77 (556.77 sec) Binary
2689 Time Step No. = 1720 Elapsed Time = 2.251091E+06 days
2690 Date: 02/14/07 Time: 10:25:05 CPU Time: 0 0: 9:23.52 (563.52 sec) Binary
2692 Time Step No. = 1740 Elapsed Time = 2.284094E+06 days
2693 Date: 02/14/07 Time: 10:25:13 CPU Time: 0 0: 9:31.48 (571.48 sec) Binary
2695 Time Step No. = 1760 Elapsed Time = 2.528019E+06 days
2696 Date: 02/14/07 Time: 10:25:20 CPU Time: 0 0: 9:38.36 (578.36 sec) Binary
2698 Time Step No. = 1780 Elapsed Time = 2.550069E+06 days
2699 Date: 02/14/07 Time: 10:25:25 CPU Time: 0 0: 9:44.01 (584.01 sec) Binary
2701 Time Step No. = 1800 Elapsed Time = 2.589298E+06 days
2702 Date: 02/14/07 Time: 10:25:32 CPU Time: 0 0: 9:51.15 (591.15 sec) Binary
2704 Time Step No. = 1820 Elapsed Time = 2.727802E+06 days
2705 Date: 02/14/07 Time: 10:25:40 CPU Time: 0 0: 9:58.80 (598.80 sec) Binary
2707 Time Step No. = 1840 Elapsed Time = 2.763509E+06 days
2708 Date: 02/14/07 Time: 10:25:45 CPU Time: 0 0:10: 3.31 (603.31 sec) Binary
2710 Time Step No. = 1860 Elapsed Time = 2.944745E+06 days
2711 Date: 02/14/07 Time: 10:25:52 CPU Time: 0 0:10:11.24 (611.24 sec) Binary
2713 Time Step No. = 1880 Elapsed Time = 3.202991E+06 days
2714 Date: 02/14/07 Time: 10:26:00 CPU Time: 0 0:10:19.01 (619.01 sec) Binary
2716 Time Step No. = 1900 Elapsed Time = 3.339934E+06 days
2717 Date: 02/14/07 Time: 10:26:04 CPU Time: 0 0:10:23.21 (623.21 sec) Binary
2720 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
2304 Date: 05/18/06 Time: 10:54:47 CPU Time: 0 0: 0:27.45 (27.45 sec) ASCII
2306 Time Step No. = 156 Elapsed Time = 0.000000E+00 days
2307 Date: 05/18/06 Time: 10:54:47 CPU Time: 0 0: 0:27.45 (27.45 sec) Binary
2309 Time Step No. = 160 Elapsed Time = 7.207031E-03 days
2310 Date: 05/18/06 Time: 10:54:49 CPU Time: 0 0: 0:29.88 (29.88 sec) Binary
2312 Time Step No. = 180 Elapsed Time = 9.919446E-01 days
2313 Date: 05/18/06 Time: 10:54:52 CPU Time: 0 0: 0:32.97 (32.97 sec) Binary
2315 Time Step No. = 200 Elapsed Time = 5.981381E+01 days
2316 Date: 05/18/06 Time: 10:54:56 CPU Time: 0 0: 0:36.58 (36.58 sec) Binary
2318 Time Step No. = 220 Elapsed Time = 8.084405E+02 days
2319 Date: 05/18/06 Time: 10:55:01 CPU Time: 0 0: 0:41.40 (41.40 sec) Binary
2321 Time Step No. = 240 Elapsed Time = 6.597767E+03 days
2322 Date: 05/18/06 Time: 10:55:07 CPU Time: 0 0: 0:47.50 (47.50 sec) Binary
2324 Time Step No. = 260 Elapsed Time = 8.104276E+03 days
2325 Date: 05/18/06 Time: 10:55:11 CPU Time: 0 0: 0:52.01 (52.01 sec) Binary

2327 Time Step No. = 280 Elapsed Time = 1.013249E+04 days
2328 Date: 05/18/06 Time: 10:55:15 CPU Time: 0 0: 0:55.64 (55.64 sec) Binary
2330 Time Step No. = 300 Elapsed Time = 1.796897E+04 days
2331 Date: 05/18/06 Time: 10:55:21 CPU Time: 0 0: 1: 1.86 (61.86 sec) Binary
2333 Time Step No. = 320 Elapsed Time = 2.541947E+04 days
2334 Date: 05/18/06 Time: 10:55:25 CPU Time: 0 0: 1: 6.01 (66.01 sec) Binary
2336 Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2337 Date: 05/18/06 Time: 10:55:30 CPU Time: 0 0: 1:10.82 (70.82 sec) Binary
2339 Time Step No. = 360 Elapsed Time = 3.652446E+04 days
2340 Date: 05/18/06 Time: 10:55:35 CPU Time: 0 0: 1:15.56 (75.56 sec) Binary
2342 Time Step No. = 380 Elapsed Time = 3.653794E+04 days
2343 Date: 05/18/06 Time: 10:55:38 CPU Time: 0 0: 1:18.35 (78.35 sec) Binary
2345 Time Step No. = 400 Elapsed Time = 3.665472E+04 days
2346 Date: 05/18/06 Time: 10:55:41 CPU Time: 0 0: 1:21.40 (81.40 sec) Binary
2348 Time Step No. = 420 Elapsed Time = 3.667516E+04 days
2349 Date: 05/18/06 Time: 10:55:43 CPU Time: 0 0: 1:23.44 (83.44 sec) Binary
2351 Time Step No. = 440 Elapsed Time = 3.724922E+04 days
2352 Date: 05/18/06 Time: 10:55:47 CPU Time: 0 0: 1:27.38 (87.38 sec) Binary
2354 Time Step No. = 460 Elapsed Time = 5.413046E+04 days
2355 Date: 05/18/06 Time: 10:55:51 CPU Time: 0 0: 1:32.29 (92.29 sec) Binary
2357 Time Step No. = 480 Elapsed Time = 9.100708E+04 days
2358 Date: 05/18/06 Time: 10:56:01 CPU Time: 0 0: 1:41.50 (101.50 sec) Binary
2360 Time Step No. = 500 Elapsed Time = 1.470830E+05 days
2361 Date: 05/18/06 Time: 10:56:07 CPU Time: 0 0: 1:47.94 (107.94 sec) Binary
2363 Time Step No. = 520 Elapsed Time = 2.204613E+05 days
2364 Date: 05/18/06 Time: 10:56:16 CPU Time: 0 0: 1:56.92 (116.92 sec) Binary
2366 Time Step No. = 540 Elapsed Time = 2.691848E+05 days
2367 Date: 05/18/06 Time: 10:56:23 CPU Time: 0 0: 2: 3.74 (123.74 sec) Binary
2369 Time Step No. = 560 Elapsed Time = 2.832034E+05 days
2370 Date: 05/18/06 Time: 10:56:27 CPU Time: 0 0: 2: 7.79 (127.79 sec) Binary
2372 Time Step No. = 580 Elapsed Time = 3.061970E+05 days
2373 Date: 05/18/06 Time: 10:56:33 CPU Time: 0 0: 2:14.16 (134.16 sec) Binary
2375 Time Step No. = 600 Elapsed Time = 3.110361E+05 days
2376 Date: 05/18/06 Time: 10:56:40 CPU Time: 0 0: 2:21.07 (141.07 sec) Binary
2378 Time Step No. = 620 Elapsed Time = 3.237666E+05 days
2379 Date: 05/18/06 Time: 10:56:48 CPU Time: 0 0: 2:28.79 (148.79 sec) Binary
2381 Time Step No. = 640 Elapsed Time = 3.474124E+05 days
2382 Date: 05/18/06 Time: 10:56:52 CPU Time: 0 0: 2:33.05 (153.05 sec) Binary
2384 Time Step No. = 660 Elapsed Time = 3.652525E+05 days
2385 Date: 05/18/06 Time: 10:56:58 CPU Time: 0 0: 2:38.57 (158.57 sec) Binary
2387 Time Step No. = 680 Elapsed Time = 3.652719E+05 days
2388 Date: 05/18/06 Time: 10:57:03 CPU Time: 0 0: 2:43.59 (163.59 sec) Binary
2390 Time Step No. = 700 Elapsed Time = 3.653962E+05 days
2391 Date: 05/18/06 Time: 10:57:07 CPU Time: 0 0: 2:48.05 (168.05 sec) Binary
2393 Time Step No. = 720 Elapsed Time = 3.660809E+05 days
2394 Date: 05/18/06 Time: 10:57:12 CPU Time: 0 0: 2:53.00 (173.00 sec) Binary
2396 Time Step No. = 740 Elapsed Time = 3.665917E+05 days
2397 Date: 05/18/06 Time: 10:57:14 CPU Time: 0 0: 2:54.91 (174.91 sec) Binary
2399 Time Step No. = 760 Elapsed Time = 3.666891E+05 days
2400 Date: 05/18/06 Time: 10:57:17 CPU Time: 0 0: 2:57.18 (177.18 sec) Binary
2402 Time Step No. = 780 Elapsed Time = 3.685642E+05 days
2403 Date: 05/18/06 Time: 10:57:22 CPU Time: 0 0: 3: 2.30 (182.30 sec) Binary
2405 Time Step No. = 800 Elapsed Time = 3.704468E+05 days
2406 Date: 05/18/06 Time: 10:57:27 CPU Time: 0 0: 3: 7.70 (187.70 sec) Binary
2408 Time Step No. = 820 Elapsed Time = 3.728343E+05 days
2409 Date: 05/18/06 Time: 10:57:32 CPU Time: 0 0: 3:12.53 (192.53 sec) Binary
2411 Time Step No. = 840 Elapsed Time = 3.808843E+05 days
2412 Date: 05/18/06 Time: 10:57:39 CPU Time: 0 0: 3:19.47 (199.47 sec) Binary
2414 Time Step No. = 860 Elapsed Time = 3.829952E+05 days
2415 Date: 05/18/06 Time: 10:57:45 CPU Time: 0 0: 3:26.01 (206.01 sec) Binary
2417 Time Step No. = 880 Elapsed Time = 3.831178E+05 days
2418 Date: 05/18/06 Time: 10:57:50 CPU Time: 0 0: 3:30.15 (210.15 sec) Binary
2420 Time Step No. = 900 Elapsed Time = 3.834087E+05 days
2421 Date: 05/18/06 Time: 10:57:54 CPU Time: 0 0: 3:34.24 (214.24 sec) Binary
2423 Time Step No. = 920 Elapsed Time = 3.859229E+05 days
2424 Date: 05/18/06 Time: 10:58:00 CPU Time: 0 0: 3:40.13 (220.13 sec) Binary
2426 Time Step No. = 940 Elapsed Time = 3.893569E+05 days
2427 Date: 05/18/06 Time: 10:58:04 CPU Time: 0 0: 3:44.84 (224.84 sec) Binary
2429 Time Step No. = 960 Elapsed Time = 3.936979E+05 days
2430 Date: 05/18/06 Time: 10:58:09 CPU Time: 0 0: 3:49.04 (229.04 sec) Binary
2432 Time Step No. = 980 Elapsed Time = 4.144137E+05 days
2433 Date: 05/18/06 Time: 10:58:16 CPU Time: 0 0: 3:56.20 (236.20 sec) Binary
2435 Time Step No. = 1000 Elapsed Time = 4.180260E+05 days
2436 Date: 05/18/06 Time: 10:58:22 CPU Time: 0 0: 4: 2.76 (242.76 sec) Binary
2438 Time Step No. = 1020 Elapsed Time = 4.184906E+05 days
2439 Date: 05/18/06 Time: 10:58:26 CPU Time: 0 0: 4: 6.85 (246.85 sec) Binary

2441 Time Step No. = 1040 Elapsed Time = 4.191714E+05 days
2442 Date: 05/18/06 Time: 10:58:33 CPU Time: 0 0: 4:13.07 (253.07 sec) Binary
2444 Time Step No. = 1060 Elapsed Time = 4.192872E+05 days
2445 Date: 05/18/06 Time: 10:58:35 CPU Time: 0 0: 4:15.89 (255.89 sec) Binary
2447 Time Step No. = 1080 Elapsed Time = 4.283116E+05 days
2448 Date: 05/18/06 Time: 10:58:40 CPU Time: 0 0: 4:20.82 (260.82 sec) Binary
2450 Time Step No. = 1100 Elapsed Time = 4.358680E+05 days
2451 Date: 05/18/06 Time: 10:58:45 CPU Time: 0 0: 4:25.71 (265.71 sec) Binary
2453 Time Step No. = 1120 Elapsed Time = 4.362891E+05 days
2454 Date: 05/18/06 Time: 10:58:51 CPU Time: 0 0: 4:31.67 (271.67 sec) Binary
2456 Time Step No. = 1140 Elapsed Time = 4.374193E+05 days
2457 Date: 05/18/06 Time: 10:58:55 CPU Time: 0 0: 4:35.00 (275.00 sec) Binary
2459 Time Step No. = 1160 Elapsed Time = 4.444218E+05 days
2460 Date: 05/18/06 Time: 10:59:01 CPU Time: 0 0: 4:40.99 (280.99 sec) Binary
2462 Time Step No. = 1180 Elapsed Time = 4.554530E+05 days
2463 Date: 05/18/06 Time: 10:59:07 CPU Time: 0 0: 4:46.92 (286.92 sec) Binary
2465 Time Step No. = 1200 Elapsed Time = 4.557350E+05 days
2466 Date: 05/18/06 Time: 10:59:12 CPU Time: 0 0: 4:51.99 (291.99 sec) Binary
2468 Time Step No. = 1220 Elapsed Time = 4.578442E+05 days
2469 Date: 05/18/06 Time: 10:59:17 CPU Time: 0 0: 4:57.45 (297.45 sec) Binary
2471 Time Step No. = 1240 Elapsed Time = 4.579509E+05 days
2472 Date: 05/18/06 Time: 10:59:24 CPU Time: 0 0: 5: 4.34 (304.34 sec) Binary
2474 Time Step No. = 1260 Elapsed Time = 4.584427E+05 days
2475 Date: 05/18/06 Time: 10:59:31 CPU Time: 0 0: 5:11.10 (311.10 sec) Binary
2477 Time Step No. = 1280 Elapsed Time = 4.599440E+05 days
2478 Date: 05/18/06 Time: 10:59:34 CPU Time: 0 0: 5:14.09 (314.09 sec) Binary
2480 Time Step No. = 1300 Elapsed Time = 4.690229E+05 days
2481 Date: 05/18/06 Time: 10:59:40 CPU Time: 0 0: 5:20.44 (320.44 sec) Binary
2483 Time Step No. = 1320 Elapsed Time = 4.748604E+05 days
2484 Date: 05/18/06 Time: 10:59:48 CPU Time: 0 0: 5:28.13 (328.13 sec) Binary
2486 Time Step No. = 1340 Elapsed Time = 4.830762E+05 days
2487 Date: 05/18/06 Time: 10:59:54 CPU Time: 0 0: 5:34.05 (334.05 sec) Binary
2489 Time Step No. = 1360 Elapsed Time = 5.258526E+05 days
2490 Date: 05/18/06 Time: 11:00:00 CPU Time: 0 0: 5:40.53 (340.53 sec) Binary
2492 Time Step No. = 1380 Elapsed Time = 5.892641E+05 days
2493 Date: 05/18/06 Time: 11:00:06 CPU Time: 0 0: 5:46.36 (346.36 sec) Binary
2495 Time Step No. = 1400 Elapsed Time = 6.795923E+05 days
2496 Date: 05/18/06 Time: 11:00:13 CPU Time: 0 0: 5:52.76 (352.76 sec) Binary
2498 Time Step No. = 1420 Elapsed Time = 6.868502E+05 days
2499 Date: 05/18/06 Time: 11:00:20 CPU Time: 0 0: 5:59.81 (359.81 sec) Binary
2501 Time Step No. = 1440 Elapsed Time = 7.652701E+05 days
2502 Date: 05/18/06 Time: 11:00:27 CPU Time: 0 0: 6: 6.65 (366.65 sec) Binary
2504 Time Step No. = 1460 Elapsed Time = 7.968026E+05 days
2505 Date: 05/18/06 Time: 11:00:34 CPU Time: 0 0: 6:14.16 (374.16 sec) Binary
2507 Time Step No. = 1480 Elapsed Time = 8.666657E+05 days
2508 Date: 05/18/06 Time: 11:00:41 CPU Time: 0 0: 6:20.57 (380.57 sec) Binary
2510 Time Step No. = 1500 Elapsed Time = 8.983079E+05 days
2511 Date: 05/18/06 Time: 11:00:49 CPU Time: 0 0: 6:28.43 (388.43 sec) Binary
2513 Time Step No. = 1520 Elapsed Time = 9.551600E+05 days
2514 Date: 05/18/06 Time: 11:00:56 CPU Time: 0 0: 6:35.94 (395.94 sec) Binary
2516 Time Step No. = 1540 Elapsed Time = 9.998592E+05 days
2517 Date: 05/18/06 Time: 11:01:03 CPU Time: 0 0: 6:43.08 (403.08 sec) Binary
2519 Time Step No. = 1560 Elapsed Time = 1.085834E+06 days
2520 Date: 05/18/06 Time: 11:01:10 CPU Time: 0 0: 6:49.96 (409.96 sec) Binary
2522 Time Step No. = 1580 Elapsed Time = 1.160714E+06 days
2523 Date: 05/18/06 Time: 11:01:16 CPU Time: 0 0: 6:55.24 (415.24 sec) Binary
2525 Time Step No. = 1600 Elapsed Time = 1.559652E+06 days
2526 Date: 05/18/06 Time: 11:01:21 CPU Time: 0 0: 7: 0.76 (420.76 sec) Binary
2528 Time Step No. = 1620 Elapsed Time = 1.959652E+06 days
2529 Date: 05/18/06 Time: 11:01:26 CPU Time: 0 0: 7: 6.05 (426.05 sec) Binary
2531 Time Step No. = 1640 Elapsed Time = 2.090782E+06 days
2532 Date: 05/18/06 Time: 11:01:35 CPU Time: 0 0: 7:14.44 (434.44 sec) Binary
2534 Time Step No. = 1660 Elapsed Time = 2.163373E+06 days
2535 Date: 05/18/06 Time: 11:01:40 CPU Time: 0 0: 7:19.26 (439.26 sec) Binary
2537 Time Step No. = 1680 Elapsed Time = 2.183046E+06 days
2538 Date: 05/18/06 Time: 11:01:46 CPU Time: 0 0: 7:25.80 (445.80 sec) Binary
2540 Time Step No. = 1700 Elapsed Time = 2.201300E+06 days
2541 Date: 05/18/06 Time: 11:01:54 CPU Time: 0 0: 7:33.63 (453.63 sec) Binary
2543 Time Step No. = 1720 Elapsed Time = 2.251091E+06 days
2544 Date: 05/18/06 Time: 11:02:00 CPU Time: 0 0: 7:39.52 (459.52 sec) Binary
2546 Time Step No. = 1740 Elapsed Time = 2.284094E+06 days
2547 Date: 05/18/06 Time: 11:02:07 CPU Time: 0 0: 7:46.47 (466.47 sec) Binary
2549 Time Step No. = 1760 Elapsed Time = 2.528019E+06 days
2550 Date: 05/18/06 Time: 11:02:13 CPU Time: 0 0: 7:52.41 (472.41 sec) Binary
2552 Time Step No. = 1780 Elapsed Time = 2.550069E+06 days
2553 Date: 05/18/06 Time: 11:02:18 CPU Time: 0 0: 7:57.34 (477.34 sec) Binary


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2555 Time Step No. = 1800 Elapsed Time = 2.589298E+06 days
2556 Date: 05/18/06 Time: 11:02:24 CPU Time: 0 0: 8: 3.56 ( 483.56 sec) Binary
2558 Time Step No. = 1820 Elapsed Time = 2.727802E+06 days
2559 Date: 05/18/06 Time: 11:02:31 CPU Time: 0 0: 8:10.22 ( 490.22 sec) Binary
2561 Time Step No. = 1840 Elapsed Time = 2.763509E+06 days
2562 Date: 05/18/06 Time: 11:02:35 CPU Time: 0 0: 8:14.15 ( 494.15 sec) Binary
2564 Time Step No. = 1860 Elapsed Time = 2.944745E+06 days
2565 Date: 05/18/06 Time: 11:02:42 CPU Time: 0 0: 8:21.04 ( 501.04 sec) Binary
2567 Time Step No. = 1880 Elapsed Time = 3.202991E+06 days
2568 Date: 05/18/06 Time: 11:02:48 CPU Time: 0 0: 8:27.85 ( 507.85 sec) Binary
2570 Time Step No. = 1900 Elapsed Time = 3.339934E+06 days
2571 Date: 05/18/06 Time: 11:02:52 CPU Time: 0 0: 8:31.52 ( 511.52 sec) Binary
2574 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
2736 CPU Time (this time step) = 0.19 sec = 0.00005 hr
2737 CPU Time (total for run) = 626.34 sec = 0.17398 hr
2738 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
2590 CPU Time (this time step) = 0.17 sec = 0.00005 hr
2591 CPU Time (total for run) = 514.26 sec = 0.14285 hr
2592 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
3414 Date: 02/14/07 Time: 10:26:08 CPU Time: 0 0:10:26.34 ( 626.34 sec) ASCII
3416 Time Step No. = 1916 Elapsed Time = 3.652431E+06 days
3417 Date: 02/14/07 Time: 10:26:08 CPU Time: 0 0:10:26.34 ( 626.34 sec) Binary
3422 *****
3423 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3424 * Completed: 02/14/07 at 10:26:08 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3425 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
3268 Date: 05/18/06 Time: 11:02:55 CPU Time: 0 0: 8:34.28 ( 514.28 sec) ASCII
3270 Time Step No. = 1916 Elapsed Time = 3.652431E+06 days
3271 Date: 05/18/06 Time: 11:02:55 CPU Time: 0 0: 8:34.28 ( 514.28 sec) Binary
3276 *****
3277 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3278 * Completed: 05/18/06 at 11:02:55 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3279 *****
*****
```

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

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

BF2_QB0600_ES47_TEST7_V020_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3 ** Begun on: 02/14/07 at 10:20:35 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
2 ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3 ** Begun on: 05/18/06 at 10:59:15 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R020]BF2_TEST7_R020_QA0500.INP;1
62 *****
```

```
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
  66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R020]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
  71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
  76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R020]BF2_VMS82_V500_ES47_TEST7_R020.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
  81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R020]BF2_VMS82_V500_ES47_TEST7_R020.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
  86 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R020]BF2_VMS82_V500_ES47_TEST7_R020.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
  195 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  207 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  208 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  209 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  210 58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  211 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  212 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  213 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  214 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  215 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  216 64 0 0 CONCST Salt concentration -- simple model kg/m^3
  217 65 0 0 FORSOLID Volume fraction of generated solids dimensionless
  218 66 0 0 GENRAT ( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  219 67 0 0 GENRAT ( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
```

```
220 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
221 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
222 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
223 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
224 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
225 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
226 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
227 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
228 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
229 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
230 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
231 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
232 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
233 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241 89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
242 90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243 91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244 92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
245 93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
246 94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
247 95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
248 96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249 97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264 112 0 0 H2OFLOWIN Water inflow rate kg/s
265 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271 119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
272 120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
273 121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274 122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275 123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
276 124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
278
```


File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1

```
195 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200 48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203 51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
```

File PAA: [ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1

1096 MgO hydration reaction rate constants:
1097 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100 Gas generation factors for biodegradation reaction:
1101 Waste Area # 1
1102 H2/H2S production (RXH2S) = 3.397000E-01
1103 CO2 production (RXCO2) = 0.000000E+00
1105 Gas generation factors for biodegradation reaction:
1106 Waste Area # 2
1107 H2/H2S production (RXH2S) = 3.397000E-01
1108 CO2 production (RXCO2) = 0.000000E+00
1110 Saturation cutoff value (SOCMIN): 0.000000E+00
1112 Stoichiometric coeff's for Rxn 1:
1113 H2 coefficient = 1.331600E+00
1114 H2O coefficient = -1.336800E+00
1115 Fe coefficient = -1.000000E+00
1116 Bio coefficient = 0.000000E+00
1117 Fe(OH)2 coefficient = 0.000000E+00
1118 FeS coefficient = 0.000000E+00
1119 MgO coefficient = 0.000000E+00
1120 Mg(OH)2 coefficient = 0.000000E+00
1121 MgCO3 coefficient = 0.000000E+00
1123 Stoichiometric coeff's for Rxn 2:
1124 H2 coefficient = 3.397000E-01
1125 H2O coefficient = 0.000000E+00
1126 Fe coefficient = 0.000000E+00
1127 Bio coefficient = -1.000000E+00
1128 Fe(OH)2 coefficient = 0.000000E+00
1129 FeS coefficient = 0.000000E+00
1130 MgO coefficient = 0.000000E+00
1131 Mg(OH)2 coefficient = 0.000000E+00
1132 MgCO3 coefficient = 0.000000E+00
1134 Stoichiometric coeff's for Rxn 3:
1135 H2 coefficient = 0.000000E+00
1136 H2O coefficient = 0.000000E+00
1137 Fe coefficient = 0.000000E+00
1138 Bio coefficient = 0.000000E+00
1139 Fe(OH)2 coefficient = 0.000000E+00
1140 FeS coefficient = 0.000000E+00
1141 MgO coefficient = 0.000000E+00
1142 Mg(OH)2 coefficient = 0.000000E+00
1143 MgCO3 coefficient = 0.000000E+00
1145 Stoichiometric coeff's for Rxn 4:
1146 H2 coefficient = 0.000000E+00
1147 H2O coefficient = 0.000000E+00
1148 Fe coefficient = 0.000000E+00
1149 Bio coefficient = 0.000000E+00
1150 Fe(OH)2 coefficient = 0.000000E+00
1151 FeS coefficient = 0.000000E+00
1152 MgO coefficient = 0.000000E+00
1153 Mg(OH)2 coefficient = 0.000000E+00
1154 MgCO3 coefficient = 0.000000E+00
1156 Stoichiometric coeff's for Rxn 5:
1157 H2 coefficient = 0.000000E+00
1158 H2O coefficient = 0.000000E+00
1159 Fe coefficient = 0.000000E+00
1160 Bio coefficient = 0.000000E+00
1161 Fe(OH)2 coefficient = 0.000000E+00
1162 FeS coefficient = 0.000000E+00
1163 MgO coefficient = 0.000000E+00
1164 Mg(OH)2 coefficient = 0.000000E+00
1165 MgCO3 coefficient = 0.000000E+00
1167 Stoichiometric coeff's for Rxn 6:
1168 H2 coefficient = 0.000000E+00
1169 H2O coefficient = 0.000000E+00
1170 Fe coefficient = 0.000000E+00
1171 Bio coefficient = 0.000000E+00
1172 Fe(OH)2 coefficient = 0.000000E+00

```
1173 FeS coefficient = 0.000000E+00
1174 MgO coefficient = 0.000000E+00
1175 Mg(OH)2 coefficient = 0.000000E+00
1176 MgCO3 coefficient = 0.000000E+00
1178 Stoichiometric coeff's for Rxn 7:
1179 H2 coefficient = 0.000000E+00
1180 H2O coefficient = 0.000000E+00
1181 Fe coefficient = 0.000000E+00
1182 Bio coefficient = 0.000000E+00
1183 Fe(OH)2 coefficient = 0.000000E+00
1184 FeS coefficient = 0.000000E+00
1185 MgO coefficient = 0.000000E+00
1186 Mg(OH)2 coefficient = 0.000000E+00
1187 MgCO3 coefficient = 0.000000E+00
1189 Wicking term (SATWICK) = 0.000000E+00
1190 Humid rates to be smoothed? (LARKN) = T
1191 Concentration rates to be smoothed? (LARKN2) = F
1192 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1194 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
1067 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068 Gas coefficient = 1.331600E+00
1069 H2O coefficient = 1.336800E+00
1070 Fe coefficient = 1.000000E+00
1072 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073 Gas coefficient = 3.397000E-01
1074 H2O coefficient = 0.000000E+00
1075 Bio coefficient = 1.000000E+00
1077 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
1200 Molecular weights (WM):
1201 Fe(OH)2: 8.9862E-02 kg/mol
1202 FeS: 8.7900E-02 kg/mol
1203 MgO: 4.0304E-02 kg/mol
1204 Mg(OH)2: 5.8320E-02 kg/mol
1205 MgCO3: 8.4314E-02 kg/mol
1207 Densities (DEN(1-4)):
1208 Fe: 7.8700E+03 kg/m3
1209 Fe(OH)2: 3.4000E+03 kg/m3
1210 FeS: 4.7000E+03 kg/m3
1211 Bio: 1.1000E+03 kg/m3
1213 Densities (DEN(5-8)):
1214 MgO: 3.6000E+03 kg/m3
1215 Mg(OH)2: 2.3700E+03 kg/m3
1216 MgCO3: 3.0500E+03 kg/m3
1217 SALT: 2.1700E+03 kg/m3
1219 Will creep closure be used (CLOSURE): T
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
1083 Wicking term (SATWICK) = 0.000000E+00
1084 Humid rates to be smoothed? (LARKN) = T
1085 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1087 Will creep closure be used (CLOSURE): T
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
1233 PHIUPPER = Upper porosity limit in permeability-porosity expression
1234 PHILOWER = Lower porosity limit in permeability-porosity expression
1235 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
1236 Refer to the Closure LOOK-UP TABLE DATA FILE for values
1237 4 1.480000E+07 3.155700E+12 1 F
1238 MODPERM Parameters
1239 Model Number (CLOSPERFACT) [m^2] (CLOSPERMEXP) [-]
1240 4 5.584700E-12 0.000000E+00
1242 Number of materials using closure (NMATCLOS) = 2
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
1101 Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERFACT) [m^2] (CLOSPERMEXP) [-]
1102 Refer to the Closure LOOK-UP TABLE DATA FILE for values
```

```
1103 4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105 Number of materials using closure (NMACLOS) = 2
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
1260 *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1263 *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1266 *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1269 *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
1272 *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
1276
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
1123 *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1126 *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1130
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
1300 57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1301 58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1303 CAMCON Global Variable Units Conv
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
1154 47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1155 48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1157 CAMCON Global Variable Units Conv
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
1772 CPU Time (this time step) = 0.19 sec = 0.00005 hr
1773 CPU Time (total for run) = 23.66 sec = 0.00657 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
1626 CPU Time (this time step) = 0.17 sec = 0.00005 hr
1627 CPU Time (total for run) = 20.55 sec = 0.00571 hr
1628 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
2450 Date: 02/14/07 Time: 10:20:59 CPU Time: 0 0: 0:23.68 ( 23.68 sec) ASCII
2452 Time Step No. = 137 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:20:59 CPU Time: 0 0: 0:23.69 ( 23.69 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 2.563388E-02 days
2456 Date: 02/14/07 Time: 10:21:00 CPU Time: 0 0: 0:24.43 ( 24.43 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 3.725148E+00 days
2459 Date: 02/14/07 Time: 10:21:04 CPU Time: 0 0: 0:28.34 ( 28.34 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 3.246068E+02 days
2462 Date: 02/14/07 Time: 10:21:08 CPU Time: 0 0: 0:32.60 ( 32.60 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 3.684633E+03 days
2465 Date: 02/14/07 Time: 10:21:15 CPU Time: 0 0: 0:39.49 ( 39.49 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 2.822136E+04 days
2468 Date: 02/14/07 Time: 10:21:22 CPU Time: 0 0: 0:46.11 ( 46.11 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.652539E+04 days
2471 Date: 02/14/07 Time: 10:21:33 CPU Time: 0 0: 0:57.28 ( 57.28 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.658477E+04 days
2474 Date: 02/14/07 Time: 10:21:37 CPU Time: 0 0: 1: 1.10 ( 61.10 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.666991E+04 days
2477 Date: 02/14/07 Time: 10:21:39 CPU Time: 0 0: 1: 3.25 ( 63.25 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.679175E+04 days
2480 Date: 02/14/07 Time: 10:21:42 CPU Time: 0 0: 1: 6.62 ( 66.62 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.923507E+04 days
2483 Date: 02/14/07 Time: 10:21:48 CPU Time: 0 0: 1:12.33 ( 72.33 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 4.281917E+04 days
2486 Date: 02/14/07 Time: 10:21:56 CPU Time: 0 0: 1:20.54 ( 80.54 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 9.658391E+04 days
2489 Date: 02/14/07 Time: 10:22:05 CPU Time: 0 0: 1:29.44 ( 89.44 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 1.853715E+05 days
2492 Date: 02/14/07 Time: 10:22:19 CPU Time: 0 0: 1:42.96 ( 102.96 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 1.865644E+05 days
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2495 Date: 02/14/07 Time: 10:22:26 CPU Time: 0 0: 1:50.86 (110.86 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 1.885587E+05 days
2498 Date: 02/14/07 Time: 10:22:33 CPU Time: 0 0: 1:56.96 (116.96 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 2.016355E+05 days
2501 Date: 02/14/07 Time: 10:22:41 CPU Time: 0 0: 2: 5.23 (125.23 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 2.152604E+05 days
2504 Date: 02/14/07 Time: 10:22:52 CPU Time: 0 0: 2:16.43 (136.43 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 2.153375E+05 days
2507 Date: 02/14/07 Time: 10:22:58 CPU Time: 0 0: 2:21.93 (141.93 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 2.165829E+05 days
2510 Date: 02/14/07 Time: 10:23:04 CPU Time: 0 0: 2:28.17 (148.17 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 2.353299E+05 days
2513 Date: 02/14/07 Time: 10:23:12 CPU Time: 0 0: 2:36.50 (156.50 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 2.520000E+05 days
2516 Date: 02/14/07 Time: 10:23:21 CPU Time: 0 0: 2:45.12 (165.12 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 2.525213E+05 days
2519 Date: 02/14/07 Time: 10:23:25 CPU Time: 0 0: 2:49.07 (169.07 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 2.527760E+05 days
2522 Date: 02/14/07 Time: 10:23:31 CPU Time: 0 0: 2:55.42 (175.42 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 2.541176E+05 days
2525 Date: 02/14/07 Time: 10:23:36 CPU Time: 0 0: 3: 0.42 (180.42 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 2.855709E+05 days
2528 Date: 02/14/07 Time: 10:23:43 CPU Time: 0 0: 3: 6.73 (186.73 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.161032E+05 days
2531 Date: 02/14/07 Time: 10:23:51 CPU Time: 0 0: 3:15.08 (195.08 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.380356E+05 days
2534 Date: 02/14/07 Time: 10:23:57 CPU Time: 0 0: 3:21.38 (201.38 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 3.652525E+05 days
2537 Date: 02/14/07 Time: 10:24:02 CPU Time: 0 0: 3:26.10 (206.10 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 3.653546E+05 days
2540 Date: 02/14/07 Time: 10:24:07 CPU Time: 0 0: 3:31.22 (211.22 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.662726E+05 days
2543 Date: 02/14/07 Time: 10:24:14 CPU Time: 0 0: 3:38.38 (218.38 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.666103E+05 days
2546 Date: 02/14/07 Time: 10:24:16 CPU Time: 0 0: 3:40.37 (220.37 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.667626E+05 days
2549 Date: 02/14/07 Time: 10:24:19 CPU Time: 0 0: 3:43.07 (223.07 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.675399E+05 days
2552 Date: 02/14/07 Time: 10:24:26 CPU Time: 0 0: 3:49.45 (229.45 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.720878E+05 days
2555 Date: 02/14/07 Time: 10:24:31 CPU Time: 0 0: 3:55.24 (235.24 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 3.875699E+05 days
2558 Date: 02/14/07 Time: 10:24:38 CPU Time: 0 0: 4: 2.00 (242.00 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 4.462737E+05 days
2561 Date: 02/14/07 Time: 10:24:46 CPU Time: 0 0: 4: 9.80 (249.80 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 5.201137E+05 days
2564 Date: 02/14/07 Time: 10:24:52 CPU Time: 0 0: 4:15.50 (255.50 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 5.611927E+05 days
2567 Date: 02/14/07 Time: 10:24:59 CPU Time: 0 0: 4:23.10 (263.10 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 6.996660E+05 days
2570 Date: 02/14/07 Time: 10:25:08 CPU Time: 0 0: 4:31.28 (271.28 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 8.421477E+05 days
2573 Date: 02/14/07 Time: 10:25:16 CPU Time: 0 0: 4:39.53 (279.53 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 9.138807E+05 days
2576 Date: 02/14/07 Time: 10:25:24 CPU Time: 0 0: 4:47.51 (287.51 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.008458E+06 days
2579 Date: 02/14/07 Time: 10:25:33 CPU Time: 0 0: 4:56.74 (296.74 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.083768E+06 days
2582 Date: 02/14/07 Time: 10:25:43 CPU Time: 0 0: 5: 6.63 (306.63 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.211114E+06 days
2585 Date: 02/14/07 Time: 10:25:51 CPU Time: 0 0: 5:15.09 (315.09 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 1.239729E+06 days
2588 Date: 02/14/07 Time: 10:26:00 CPU Time: 0 0: 5:24.14 (324.14 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.431910E+06 days
2591 Date: 02/14/07 Time: 10:26:09 CPU Time: 0 0: 5:32.93 (332.93 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.474052E+06 days
2594 Date: 02/14/07 Time: 10:26:17 CPU Time: 0 0: 5:40.42 (340.42 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 1.548433E+06 days
2597 Date: 02/14/07 Time: 10:26:26 CPU Time: 0 0: 5:49.85 (349.85 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 1.567154E+06 days
2600 Date: 02/14/07 Time: 10:26:36 CPU Time: 0 0: 5:59.12 (359.12 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 1.587156E+06 days
2603 Date: 02/14/07 Time: 10:26:41 CPU Time: 0 0: 6: 5.05 (365.05 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 1.602596E+06 days
2606 Date: 02/14/07 Time: 10:26:50 CPU Time: 0 0: 6:13.07 (373.07 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 1.673711E+06 days

2609 Date: 02/14/07 Time: 10:26:57 CPU Time: 0 0: 6:20.57 (380.57 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 1.708410E+06 days
2612 Date: 02/14/07 Time: 10:27:06 CPU Time: 0 0: 6:29.18 (389.18 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 1.782836E+06 days
2615 Date: 02/14/07 Time: 10:27:12 CPU Time: 0 0: 6:35.31 (395.31 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 1.826297E+06 days
2618 Date: 02/14/07 Time: 10:27:20 CPU Time: 0 0: 6:43.74 (403.74 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 1.930066E+06 days
2621 Date: 02/14/07 Time: 10:27:29 CPU Time: 0 0: 6:52.44 (412.44 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 2.048923E+06 days
2624 Date: 02/14/07 Time: 10:27:37 CPU Time: 0 0: 7: 0.87 (420.87 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 2.205459E+06 days
2627 Date: 02/14/07 Time: 10:27:41 CPU Time: 0 0: 7: 4.71 (424.71 sec) Binary
2629 Time Step No. = 1300 Elapsed Time = 2.605459E+06 days
2630 Date: 02/14/07 Time: 10:27:45 CPU Time: 0 0: 7: 8.91 (428.91 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 2.884301E+06 days
2633 Date: 02/14/07 Time: 10:27:50 CPU Time: 0 0: 7:13.99 (433.99 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 3.231409E+06 days
2636 Date: 02/14/07 Time: 10:27:55 CPU Time: 0 0: 7:18.18 (438.18 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 3.631409E+06 days
2639 Date: 02/14/07 Time: 10:27:59 CPU Time: 0 0: 7:22.37 (442.37 sec) Binary
2642 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
2304 Date: 05/18/06 Time: 10:59:35 CPU Time: 0 0: 0:20.56 (20.56 sec) ASCII
2306 Time Step No. = 137 Elapsed Time = 0.000000E+00 days
2307 Date: 05/18/06 Time: 10:59:35 CPU Time: 0 0: 0:20.57 (20.57 sec) Binary
2309 Time Step No. = 140 Elapsed Time = 2.563388E-02 days
2310 Date: 05/18/06 Time: 10:59:36 CPU Time: 0 0: 0:21.21 (21.21 sec) Binary
2312 Time Step No. = 160 Elapsed Time = 3.725148E+00 days
2313 Date: 05/18/06 Time: 10:59:39 CPU Time: 0 0: 0:24.37 (24.37 sec) Binary
2315 Time Step No. = 180 Elapsed Time = 3.246068E+02 days
2316 Date: 05/18/06 Time: 10:59:43 CPU Time: 0 0: 0:27.83 (27.83 sec) Binary
2318 Time Step No. = 200 Elapsed Time = 3.684633E+03 days
2319 Date: 05/18/06 Time: 10:59:48 CPU Time: 0 0: 0:33.43 (33.43 sec) Binary
2321 Time Step No. = 220 Elapsed Time = 2.822136E+04 days
2322 Date: 05/18/06 Time: 10:59:53 CPU Time: 0 0: 0:38.59 (38.59 sec) Binary
2324 Time Step No. = 240 Elapsed Time = 3.652539E+04 days
2325 Date: 05/18/06 Time: 11:00:02 CPU Time: 0 0: 0:47.30 (47.30 sec) Binary
2327 Time Step No. = 260 Elapsed Time = 3.658477E+04 days
2328 Date: 05/18/06 Time: 11:00:05 CPU Time: 0 0: 0:50.30 (50.30 sec) Binary
2330 Time Step No. = 280 Elapsed Time = 3.666991E+04 days
2331 Date: 05/18/06 Time: 11:00:07 CPU Time: 0 0: 0:52.06 (52.06 sec) Binary
2333 Time Step No. = 300 Elapsed Time = 3.679175E+04 days
2334 Date: 05/18/06 Time: 11:00:10 CPU Time: 0 0: 0:54.69 (54.69 sec) Binary
2336 Time Step No. = 320 Elapsed Time = 3.923507E+04 days
2337 Date: 05/18/06 Time: 11:00:14 CPU Time: 0 0: 0:59.01 (59.01 sec) Binary
2339 Time Step No. = 340 Elapsed Time = 4.281917E+04 days
2340 Date: 05/18/06 Time: 11:00:21 CPU Time: 0 0: 1: 5.47 (65.47 sec) Binary
2342 Time Step No. = 360 Elapsed Time = 9.658391E+04 days
2343 Date: 05/18/06 Time: 11:00:28 CPU Time: 0 0: 1:12.56 (72.56 sec) Binary
2345 Time Step No. = 380 Elapsed Time = 1.853715E+05 days
2346 Date: 05/18/06 Time: 11:00:39 CPU Time: 0 0: 1:24.02 (84.02 sec) Binary
2348 Time Step No. = 400 Elapsed Time = 1.865644E+05 days
2349 Date: 05/18/06 Time: 11:00:46 CPU Time: 0 0: 1:31.06 (91.06 sec) Binary
2351 Time Step No. = 420 Elapsed Time = 1.885587E+05 days
2352 Date: 05/18/06 Time: 11:00:51 CPU Time: 0 0: 1:36.41 (96.41 sec) Binary
2354 Time Step No. = 440 Elapsed Time = 2.016355E+05 days
2355 Date: 05/18/06 Time: 11:00:59 CPU Time: 0 0: 1:43.63 (103.63 sec) Binary
2357 Time Step No. = 460 Elapsed Time = 2.152604E+05 days
2358 Date: 05/18/06 Time: 11:01:08 CPU Time: 0 0: 1:52.97 (112.97 sec) Binary
2360 Time Step No. = 480 Elapsed Time = 2.153375E+05 days
2361 Date: 05/18/06 Time: 11:01:13 CPU Time: 0 0: 1:57.50 (117.50 sec) Binary
2363 Time Step No. = 500 Elapsed Time = 2.165829E+05 days
2364 Date: 05/18/06 Time: 11:01:18 CPU Time: 0 0: 2: 2.49 (122.49 sec) Binary
2366 Time Step No. = 520 Elapsed Time = 2.353299E+05 days
2367 Date: 05/18/06 Time: 11:01:24 CPU Time: 0 0: 2: 9.11 (129.11 sec) Binary
2369 Time Step No. = 540 Elapsed Time = 2.520000E+05 days
2370 Date: 05/18/06 Time: 11:01:31 CPU Time: 0 0: 2:15.91 (135.91 sec) Binary
2372 Time Step No. = 560 Elapsed Time = 2.525213E+05 days
2373 Date: 05/18/06 Time: 11:01:34 CPU Time: 0 0: 2:19.05 (139.05 sec) Binary
2375 Time Step No. = 580 Elapsed Time = 2.527760E+05 days
2376 Date: 05/18/06 Time: 11:01:39 CPU Time: 0 0: 2:24.18 (144.18 sec) Binary
2378 Time Step No. = 600 Elapsed Time = 2.541176E+05 days
2379 Date: 05/18/06 Time: 11:01:44 CPU Time: 0 0: 2:28.22 (148.22 sec) Binary
2381 Time Step No. = 620 Elapsed Time = 2.855709E+05 days

2382 Date: 05/18/06 Time: 11:01:49 CPU Time: 0 0: 2:33.26 (153.26 sec) Binary
2384 Time Step No. = 640 Elapsed Time = 3.161032E+05 days
2385 Date: 05/18/06 Time: 11:01:55 CPU Time: 0 0: 2:39.85 (159.85 sec) Binary
2387 Time Step No. = 660 Elapsed Time = 3.380356E+05 days
2388 Date: 05/18/06 Time: 11:02:00 CPU Time: 0 0: 2:44.86 (164.86 sec) Binary
2390 Time Step No. = 680 Elapsed Time = 3.652525E+05 days
2391 Date: 05/18/06 Time: 11:02:04 CPU Time: 0 0: 2:48.63 (168.63 sec) Binary
2393 Time Step No. = 700 Elapsed Time = 3.653546E+05 days
2394 Date: 05/18/06 Time: 11:02:08 CPU Time: 0 0: 2:52.67 (172.67 sec) Binary
2396 Time Step No. = 720 Elapsed Time = 3.662726E+05 days
2397 Date: 05/18/06 Time: 11:02:14 CPU Time: 0 0: 2:58.34 (178.34 sec) Binary
2399 Time Step No. = 740 Elapsed Time = 3.666103E+05 days
2400 Date: 05/18/06 Time: 11:02:15 CPU Time: 0 0: 2:59.92 (179.92 sec) Binary
2402 Time Step No. = 760 Elapsed Time = 3.667626E+05 days
2403 Date: 05/18/06 Time: 11:02:17 CPU Time: 0 0: 3: 2.05 (182.05 sec) Binary
2405 Time Step No. = 780 Elapsed Time = 3.675399E+05 days
2406 Date: 05/18/06 Time: 11:02:22 CPU Time: 0 0: 3: 7.08 (187.08 sec) Binary
2408 Time Step No. = 800 Elapsed Time = 3.720878E+05 days
2409 Date: 05/18/06 Time: 11:02:27 CPU Time: 0 0: 3:11.64 (191.64 sec) Binary
2411 Time Step No. = 820 Elapsed Time = 3.875699E+05 days
2412 Date: 05/18/06 Time: 11:02:32 CPU Time: 0 0: 3:16.98 (196.98 sec) Binary
2414 Time Step No. = 840 Elapsed Time = 4.462737E+05 days
2415 Date: 05/18/06 Time: 11:02:39 CPU Time: 0 0: 3:23.19 (203.19 sec) Binary
2417 Time Step No. = 860 Elapsed Time = 5.201137E+05 days
2418 Date: 05/18/06 Time: 11:02:43 CPU Time: 0 0: 3:27.70 (207.70 sec) Binary
2420 Time Step No. = 880 Elapsed Time = 5.611927E+05 days
2421 Date: 05/18/06 Time: 11:02:49 CPU Time: 0 0: 3:33.73 (213.73 sec) Binary
2423 Time Step No. = 900 Elapsed Time = 6.996660E+05 days
2424 Date: 05/18/06 Time: 11:02:56 CPU Time: 0 0: 3:40.23 (220.23 sec) Binary
2426 Time Step No. = 920 Elapsed Time = 8.421477E+05 days
2427 Date: 05/18/06 Time: 11:03:02 CPU Time: 0 0: 3:46.77 (226.77 sec) Binary
2429 Time Step No. = 940 Elapsed Time = 9.138807E+05 days
2430 Date: 05/18/06 Time: 11:03:09 CPU Time: 0 0: 3:53.07 (233.07 sec) Binary
2432 Time Step No. = 960 Elapsed Time = 1.008458E+06 days
2433 Date: 05/18/06 Time: 11:03:16 CPU Time: 0 0: 4: 0.36 (240.36 sec) Binary
2435 Time Step No. = 980 Elapsed Time = 1.083768E+06 days
2436 Date: 05/18/06 Time: 11:03:24 CPU Time: 0 0: 4: 8.15 (248.15 sec) Binary
2438 Time Step No. = 1000 Elapsed Time = 1.211114E+06 days
2439 Date: 05/18/06 Time: 11:03:30 CPU Time: 0 0: 4:14.83 (254.83 sec) Binary
2441 Time Step No. = 1020 Elapsed Time = 1.239729E+06 days
2442 Date: 05/18/06 Time: 11:03:38 CPU Time: 0 0: 4:22.01 (262.01 sec) Binary
2444 Time Step No. = 1040 Elapsed Time = 1.431910E+06 days
2445 Date: 05/18/06 Time: 11:03:45 CPU Time: 0 0: 4:28.96 (268.96 sec) Binary
2447 Time Step No. = 1060 Elapsed Time = 1.474052E+06 days
2448 Date: 05/18/06 Time: 11:03:50 CPU Time: 0 0: 4:34.92 (274.92 sec) Binary
2450 Time Step No. = 1080 Elapsed Time = 1.548433E+06 days
2451 Date: 05/18/06 Time: 11:03:58 CPU Time: 0 0: 4:42.39 (282.39 sec) Binary
2453 Time Step No. = 1100 Elapsed Time = 1.567154E+06 days
2454 Date: 05/18/06 Time: 11:04:05 CPU Time: 0 0: 4:49.71 (289.71 sec) Binary
2456 Time Step No. = 1120 Elapsed Time = 1.587156E+06 days
2457 Date: 05/18/06 Time: 11:04:10 CPU Time: 0 0: 4:54.43 (294.43 sec) Binary
2459 Time Step No. = 1140 Elapsed Time = 1.602596E+06 days
2460 Date: 05/18/06 Time: 11:04:16 CPU Time: 0 0: 5: 0.83 (300.83 sec) Binary
2462 Time Step No. = 1160 Elapsed Time = 1.673711E+06 days
2463 Date: 05/18/06 Time: 11:04:22 CPU Time: 0 0: 5: 6.74 (306.74 sec) Binary
2465 Time Step No. = 1180 Elapsed Time = 1.708410E+06 days
2466 Date: 05/18/06 Time: 11:04:29 CPU Time: 0 0: 5:13.54 (313.54 sec) Binary
2468 Time Step No. = 1200 Elapsed Time = 1.782836E+06 days
2469 Date: 05/18/06 Time: 11:04:34 CPU Time: 0 0: 5:18.39 (318.39 sec) Binary
2471 Time Step No. = 1220 Elapsed Time = 1.826297E+06 days
2472 Date: 05/18/06 Time: 11:04:41 CPU Time: 0 0: 5:25.07 (325.07 sec) Binary
2474 Time Step No. = 1240 Elapsed Time = 1.930066E+06 days
2475 Date: 05/18/06 Time: 11:04:47 CPU Time: 0 0: 5:31.63 (331.63 sec) Binary
2477 Time Step No. = 1260 Elapsed Time = 2.048923E+06 days
2478 Date: 05/18/06 Time: 11:04:54 CPU Time: 0 0: 5:37.96 (337.96 sec) Binary
2480 Time Step No. = 1280 Elapsed Time = 2.205459E+06 days
2481 Date: 05/18/06 Time: 11:04:57 CPU Time: 0 0: 5:40.88 (340.88 sec) Binary
2483 Time Step No. = 1300 Elapsed Time = 2.605459E+06 days
2484 Date: 05/18/06 Time: 11:05:00 CPU Time: 0 0: 5:44.04 (344.04 sec) Binary
2486 Time Step No. = 1320 Elapsed Time = 2.884301E+06 days
2487 Date: 05/18/06 Time: 11:05:04 CPU Time: 0 0: 5:47.85 (347.85 sec) Binary
2489 Time Step No. = 1340 Elapsed Time = 3.231409E+06 days
2490 Date: 05/18/06 Time: 11:05:07 CPU Time: 0 0: 5:51.02 (351.02 sec) Binary
2492 Time Step No. = 1360 Elapsed Time = 3.631409E+06 days
2493 Date: 05/18/06 Time: 11:05:10 CPU Time: 0 0: 5:54.18 (354.18 sec) Binary
2496 Restart information has been written to I/O unit 2 in DISKW, file name:

```
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
2658 CPU Time (this time step) = 0.14 sec = 0.00004 hr
2659 CPU Time (total for run) = 442.72 sec = 0.12298 hr
2660 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
2512 CPU Time (this time step) = 0.11 sec = 0.00003 hr
2513 CPU Time (total for run) = 354.45 sec = 0.09846 hr
2514 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
3336 Date: 02/14/07 Time: 10:27:59 CPU Time: 0 0: 7:22.73 ( 442.73 sec) ASCII
3338 Time Step No. = 1362 Elapsed Time = 3.652431E+06 days
3339 Date: 02/14/07 Time: 10:27:59 CPU Time: 0 0: 7:22.73 ( 442.73 sec) Binary
3344 *****
3345 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3346 * Completed: 02/14/07 at 10:27:59 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3347 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
3190 Date: 05/18/06 Time: 11:05:10 CPU Time: 0 0: 5:54.47 ( 354.47 sec) ASCII
3192 Time Step No. = 1362 Elapsed Time = 3.652431E+06 days
3193 Date: 05/18/06 Time: 11:05:10 CPU Time: 0 0: 5:54.47 ( 354.47 sec) Binary
3198 *****
3199 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3200 * Completed: 05/18/06 at 11:05:10 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3201 *****
*****
```

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

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

A.7.5 Test Case 7: Output Difference Files, BF2_QB0600_ES40_TEST7_Vnnn_OUT.DIF and BF2_QB0600_ES45_TEST7_Vnnn_OUT.DIF (where nnn = 1 to 20)

BF2_QB0600_ES40_TEST7_V001_OUT.DIF

```
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
3 ** Begun on: 02/14/07 at 10:33:47 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
3 ** Begun on: 02/14/07 at 09:38:50 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_TEST7_V001.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_CLOSURE.DAT;1
```

```
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
1772 CPU Time (this time step) = 0.18 sec = 0.00005 hr
1773 CPU Time (total for run) = 38.49 sec = 0.01069 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 28.78 sec = 0.00799 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
2450 Date: 02/14/07 Time: 10:34:25 CPU Time: 0 0: 0:38.50 ( 38.50 sec) ASCII
2452 Time Step No. = 163 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:34:25 CPU Time: 0 0: 0:38.51 ( 38.51 sec) Binary
2455 Time Step No. = 180 Elapsed Time = 2.119576E-04 days
2456 Date: 02/14/07 Time: 10:34:30 CPU Time: 0 0: 0:43.30 ( 43.30 sec) Binary
2458 Time Step No. = 200 Elapsed Time = 1.880303E-02 days
2459 Date: 02/14/07 Time: 10:34:34 CPU Time: 0 0: 0:47.13 ( 47.13 sec) Binary
2461 Time Step No. = 220 Elapsed Time = 1.631321E+00 days
2462 Date: 02/14/07 Time: 10:34:38 CPU Time: 0 0: 0:51.23 ( 51.23 sec) Binary
2464 Time Step No. = 240 Elapsed Time = 2.774403E+01 days
2465 Date: 02/14/07 Time: 10:34:43 CPU Time: 0 0: 0:55.78 ( 55.78 sec) Binary
2467 Time Step No. = 260 Elapsed Time = 4.892922E+02 days
2468 Date: 02/14/07 Time: 10:34:49 CPU Time: 0 0: 1: 1.74 ( 61.74 sec) Binary
2470 Time Step No. = 280 Elapsed Time = 4.026427E+03 days
2471 Date: 02/14/07 Time: 10:34:57 CPU Time: 0 0: 1: 9.95 ( 69.95 sec) Binary
2473 Time Step No. = 300 Elapsed Time = 1.166868E+04 days
2474 Date: 02/14/07 Time: 10:35:07 CPU Time: 0 0: 1:19.85 ( 79.85 sec) Binary
2476 Time Step No. = 320 Elapsed Time = 2.296322E+04 days
2477 Date: 02/14/07 Time: 10:35:15 CPU Time: 0 0: 1:28.17 ( 88.17 sec) Binary
2479 Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2480 Date: 02/14/07 Time: 10:35:32 CPU Time: 0 0: 1:45.28 ( 105.28 sec) Binary
2482 Time Step No. = 360 Elapsed Time = 3.652431E+04 days
2483 Date: 02/14/07 Time: 10:35:36 CPU Time: 0 0: 1:48.97 ( 108.97 sec) Binary
2485 Time Step No. = 380 Elapsed Time = 3.652431E+04 days
2486 Date: 02/14/07 Time: 10:35:40 CPU Time: 0 0: 1:52.91 ( 112.91 sec) Binary
```

2488 Time Step No. = 400 Elapsed Time = 3.652443E+04 days
2489 Date: 02/14/07 Time: 10:35:44 CPU Time: 0 0: 1:57.29 (117.29 sec) Binary
2491 Time Step No. = 420 Elapsed Time = 3.653512E+04 days
2492 Date: 02/14/07 Time: 10:35:48 CPU Time: 0 0: 2: 1.24 (121.24 sec) Binary
2494 Time Step No. = 440 Elapsed Time = 3.668108E+04 days
2495 Date: 02/14/07 Time: 10:35:53 CPU Time: 0 0: 2: 5.64 (125.64 sec) Binary
2497 Time Step No. = 460 Elapsed Time = 3.670152E+04 days
2498 Date: 02/14/07 Time: 10:35:56 CPU Time: 0 0: 2: 8.62 (128.62 sec) Binary
2500 Time Step No. = 480 Elapsed Time = 3.726604E+04 days
2501 Date: 02/14/07 Time: 10:36:01 CPU Time: 0 0: 2:14.49 (134.49 sec) Binary
2503 Time Step No. = 500 Elapsed Time = 3.912333E+04 days
2504 Date: 02/14/07 Time: 10:36:12 CPU Time: 0 0: 2:24.82 (144.82 sec) Binary
2506 Time Step No. = 520 Elapsed Time = 7.687584E+04 days
2507 Date: 02/14/07 Time: 10:36:22 CPU Time: 0 0: 2:35.32 (155.32 sec) Binary
2509 Time Step No. = 540 Elapsed Time = 1.534551E+05 days
2510 Date: 02/14/07 Time: 10:36:35 CPU Time: 0 0: 2:47.91 (167.91 sec) Binary
2512 Time Step No. = 560 Elapsed Time = 3.652432E+05 days
2513 Date: 02/14/07 Time: 10:36:48 CPU Time: 0 0: 3: 0.54 (180.54 sec) Binary
2515 Time Step No. = 580 Elapsed Time = 3.652461E+05 days
2516 Date: 02/14/07 Time: 10:36:53 CPU Time: 0 0: 3: 5.70 (185.70 sec) Binary
2518 Time Step No. = 600 Elapsed Time = 3.653145E+05 days
2519 Date: 02/14/07 Time: 10:37:00 CPU Time: 0 0: 3:13.34 (193.34 sec) Binary
2521 Time Step No. = 620 Elapsed Time = 3.663770E+05 days
2522 Date: 02/14/07 Time: 10:37:12 CPU Time: 0 0: 3:25.00 (205.00 sec) Binary
2524 Time Step No. = 640 Elapsed Time = 3.665294E+05 days
2525 Date: 02/14/07 Time: 10:37:16 CPU Time: 0 0: 3:28.77 (208.77 sec) Binary
2527 Time Step No. = 660 Elapsed Time = 3.667198E+05 days
2528 Date: 02/14/07 Time: 10:37:21 CPU Time: 0 0: 3:33.59 (213.59 sec) Binary
2530 Time Step No. = 680 Elapsed Time = 3.694667E+05 days
2531 Date: 02/14/07 Time: 10:37:31 CPU Time: 0 0: 3:44.37 (224.37 sec) Binary
2533 Time Step No. = 700 Elapsed Time = 3.697358E+05 days
2534 Date: 02/14/07 Time: 10:37:37 CPU Time: 0 0: 3:50.40 (230.40 sec) Binary
2536 Time Step No. = 720 Elapsed Time = 3.733002E+05 days
2537 Date: 02/14/07 Time: 10:37:48 CPU Time: 0 0: 4: 0.47 (240.47 sec) Binary
2539 Time Step No. = 740 Elapsed Time = 3.764582E+05 days
2540 Date: 02/14/07 Time: 10:38:03 CPU Time: 0 0: 4:15.83 (255.83 sec) Binary
2542 Time Step No. = 760 Elapsed Time = 3.766434E+05 days
2543 Date: 02/14/07 Time: 10:38:14 CPU Time: 0 0: 4:26.86 (266.86 sec) Binary
2545 Time Step No. = 780 Elapsed Time = 3.768308E+05 days
2546 Date: 02/14/07 Time: 10:38:23 CPU Time: 0 0: 4:35.39 (275.39 sec) Binary
2548 Time Step No. = 800 Elapsed Time = 3.769094E+05 days
2549 Date: 02/14/07 Time: 10:38:27 CPU Time: 0 0: 4:39.68 (279.68 sec) Binary
2551 Time Step No. = 820 Elapsed Time = 3.804952E+05 days
2552 Date: 02/14/07 Time: 10:38:38 CPU Time: 0 0: 4:50.57 (290.57 sec) Binary
2554 Time Step No. = 840 Elapsed Time = 3.807620E+05 days
2555 Date: 02/14/07 Time: 10:38:47 CPU Time: 0 0: 4:59.36 (299.36 sec) Binary
2557 Time Step No. = 860 Elapsed Time = 3.823931E+05 days
2558 Date: 02/14/07 Time: 10:38:58 CPU Time: 0 0: 5:10.81 (310.81 sec) Binary
2560 Time Step No. = 880 Elapsed Time = 3.824076E+05 days
2561 Date: 02/14/07 Time: 10:39:06 CPU Time: 0 0: 5:18.96 (318.96 sec) Binary
2563 Time Step No. = 900 Elapsed Time = 3.825485E+05 days
2564 Date: 02/14/07 Time: 10:39:16 CPU Time: 0 0: 5:28.20 (328.20 sec) Binary
2566 Time Step No. = 920 Elapsed Time = 3.826760E+05 days
2567 Date: 02/14/07 Time: 10:39:22 CPU Time: 0 0: 5:33.58 (333.58 sec) Binary
2569 Time Step No. = 940 Elapsed Time = 3.853540E+05 days
2570 Date: 02/14/07 Time: 10:39:32 CPU Time: 0 0: 5:44.29 (344.29 sec) Binary
2572 Time Step No. = 960 Elapsed Time = 3.854180E+05 days
2573 Date: 02/14/07 Time: 10:39:40 CPU Time: 0 0: 5:51.78 (351.78 sec) Binary
2575 Time Step No. = 980 Elapsed Time = 3.854555E+05 days
2576 Date: 02/14/07 Time: 10:39:48 CPU Time: 0 0: 5:59.20 (359.20 sec) Binary
2578 Time Step No. = 1000 Elapsed Time = 3.865421E+05 days
2579 Date: 02/14/07 Time: 10:39:53 CPU Time: 0 0: 6: 5.02 (365.02 sec) Binary
2581 Time Step No. = 1020 Elapsed Time = 3.977998E+05 days
2582 Date: 02/14/07 Time: 10:40:04 CPU Time: 0 0: 6:15.51 (375.51 sec) Binary
2584 Time Step No. = 1040 Elapsed Time = 4.072582E+05 days
2585 Date: 02/14/07 Time: 10:40:15 CPU Time: 0 0: 6:26.84 (386.84 sec) Binary
2587 Time Step No. = 1060 Elapsed Time = 4.135174E+05 days
2588 Date: 02/14/07 Time: 10:40:24 CPU Time: 0 0: 6:35.40 (395.40 sec) Binary
2590 Time Step No. = 1080 Elapsed Time = 4.195838E+05 days
2591 Date: 02/14/07 Time: 10:40:32 CPU Time: 0 0: 6:43.96 (403.96 sec) Binary
2593 Time Step No. = 1100 Elapsed Time = 4.376889E+05 days
2594 Date: 02/14/07 Time: 10:40:43 CPU Time: 0 0: 6:55.07 (415.07 sec) Binary
2596 Time Step No. = 1120 Elapsed Time = 4.384404E+05 days
2597 Date: 02/14/07 Time: 10:40:51 CPU Time: 0 0: 7: 2.50 (422.50 sec) Binary
2599 Time Step No. = 1140 Elapsed Time = 4.447569E+05 days
2600 Date: 02/14/07 Time: 10:40:58 CPU Time: 0 0: 7: 9.74 (429.74 sec) Binary

2602 Time Step No. = 1160 Elapsed Time = 4.559149E+05 days
2603 Date: 02/14/07 Time: 10:41:11 CPU Time: 0 0: 7:22.89 (442.89 sec) Binary
2605 Time Step No. = 1180 Elapsed Time = 4.583726E+05 days
2606 Date: 02/14/07 Time: 10:41:19 CPU Time: 0 0: 7:30.33 (450.33 sec) Binary
2608 Time Step No. = 1200 Elapsed Time = 6.210292E+05 days
2609 Date: 02/14/07 Time: 10:41:27 CPU Time: 0 0: 7:38.44 (458.44 sec) Binary
2611 Time Step No. = 1220 Elapsed Time = 7.693890E+05 days
2612 Date: 02/14/07 Time: 10:41:43 CPU Time: 0 0: 7:54.77 (474.77 sec) Binary
2614 Time Step No. = 1240 Elapsed Time = 7.747455E+05 days
2615 Date: 02/14/07 Time: 10:41:49 CPU Time: 0 0: 7:59.95 (479.95 sec) Binary
2617 Time Step No. = 1260 Elapsed Time = 1.007898E+06 days
2618 Date: 02/14/07 Time: 10:41:57 CPU Time: 0 0: 8: 8.35 (488.35 sec) Binary
2620 Time Step No. = 1280 Elapsed Time = 1.308059E+06 days
2621 Date: 02/14/07 Time: 10:42:08 CPU Time: 0 0: 8:18.78 (498.78 sec) Binary
2623 Time Step No. = 1300 Elapsed Time = 1.328500E+06 days
2624 Date: 02/14/07 Time: 10:42:14 CPU Time: 0 0: 8:24.92 (504.92 sec) Binary
2626 Time Step No. = 1320 Elapsed Time = 1.666428E+06 days
2627 Date: 02/14/07 Time: 10:42:22 CPU Time: 0 0: 8:33.15 (513.15 sec) Binary
2629 Time Step No. = 1340 Elapsed Time = 2.066428E+06 days
2630 Date: 02/14/07 Time: 10:42:30 CPU Time: 0 0: 8:40.55 (520.55 sec) Binary
2632 Time Step No. = 1360 Elapsed Time = 2.361834E+06 days
2633 Date: 02/14/07 Time: 10:42:42 CPU Time: 0 0: 8:52.34 (532.34 sec) Binary
2635 Time Step No. = 1380 Elapsed Time = 2.393121E+06 days
2636 Date: 02/14/07 Time: 10:42:53 CPU Time: 0 0: 9: 3.32 (543.32 sec) Binary
2638 Time Step No. = 1400 Elapsed Time = 2.401318E+06 days
2639 Date: 02/14/07 Time: 10:43:02 CPU Time: 0 0: 9:13.05 (553.05 sec) Binary
2641 Time Step No. = 1420 Elapsed Time = 2.468163E+06 days
2642 Date: 02/14/07 Time: 10:43:11 CPU Time: 0 0: 9:21.70 (561.70 sec) Binary
2644 Time Step No. = 1440 Elapsed Time = 2.865069E+06 days
2645 Date: 02/14/07 Time: 10:43:19 CPU Time: 0 0: 9:29.28 (569.28 sec) Binary
2647 Time Step No. = 1460 Elapsed Time = 3.265069E+06 days
2648 Date: 02/14/07 Time: 10:43:26 CPU Time: 0 0: 9:36.78 (576.78 sec) Binary
2651 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
2450 Date: 02/14/07 Time: 09:39:19 CPU Time: 0 0: 0:28.80 (28.80 sec) ASCII
2452 Time Step No. = 163 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:39:19 CPU Time: 0 0: 0:28.80 (28.80 sec) Binary
2455 Time Step No. = 180 Elapsed Time = 2.119576E-04 days
2456 Date: 02/14/07 Time: 09:39:22 CPU Time: 0 0: 0:32.42 (32.42 sec) Binary
2458 Time Step No. = 200 Elapsed Time = 1.880303E-02 days
2459 Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:35.33 (35.33 sec) Binary
2461 Time Step No. = 220 Elapsed Time = 1.631321E+00 days
2462 Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:38.45 (38.45 sec) Binary
2464 Time Step No. = 240 Elapsed Time = 2.774403E+01 days
2465 Date: 02/14/07 Time: 09:39:32 CPU Time: 0 0: 0:41.89 (41.89 sec) Binary
2467 Time Step No. = 260 Elapsed Time = 4.892922E+02 days
2468 Date: 02/14/07 Time: 09:39:36 CPU Time: 0 0: 0:46.37 (46.37 sec) Binary
2470 Time Step No. = 280 Elapsed Time = 4.026427E+03 days
2471 Date: 02/14/07 Time: 09:39:42 CPU Time: 0 0: 0:52.49 (52.49 sec) Binary
2473 Time Step No. = 300 Elapsed Time = 1.166868E+04 days
2474 Date: 02/14/07 Time: 09:39:50 CPU Time: 0 0: 0:59.93 (59.93 sec) Binary
2476 Time Step No. = 320 Elapsed Time = 2.296322E+04 days
2477 Date: 02/14/07 Time: 09:39:56 CPU Time: 0 0: 1: 6.17 (66.17 sec) Binary
2479 Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2480 Date: 02/14/07 Time: 09:40:09 CPU Time: 0 0: 1:18.93 (78.93 sec) Binary
2482 Time Step No. = 360 Elapsed Time = 3.652431E+04 days
2483 Date: 02/14/07 Time: 09:40:12 CPU Time: 0 0: 1:21.71 (81.71 sec) Binary
2485 Time Step No. = 380 Elapsed Time = 3.652431E+04 days
2486 Date: 02/14/07 Time: 09:40:14 CPU Time: 0 0: 1:24.68 (84.68 sec) Binary
2488 Time Step No. = 400 Elapsed Time = 3.652443E+04 days
2489 Date: 02/14/07 Time: 09:40:18 CPU Time: 0 0: 1:27.96 (87.96 sec) Binary
2491 Time Step No. = 420 Elapsed Time = 3.653512E+04 days
2492 Date: 02/14/07 Time: 09:40:21 CPU Time: 0 0: 1:30.92 (90.92 sec) Binary
2494 Time Step No. = 440 Elapsed Time = 3.668108E+04 days
2495 Date: 02/14/07 Time: 09:40:24 CPU Time: 0 0: 1:34.09 (94.09 sec) Binary
2497 Time Step No. = 460 Elapsed Time = 3.670152E+04 days
2498 Date: 02/14/07 Time: 09:40:26 CPU Time: 0 0: 1:36.32 (96.32 sec) Binary
2500 Time Step No. = 480 Elapsed Time = 3.726604E+04 days
2501 Date: 02/14/07 Time: 09:40:31 CPU Time: 0 0: 1:40.74 (100.74 sec) Binary
2503 Time Step No. = 500 Elapsed Time = 3.912333E+04 days
2504 Date: 02/14/07 Time: 09:40:38 CPU Time: 0 0: 1:48.09 (108.09 sec) Binary
2506 Time Step No. = 520 Elapsed Time = 7.687584E+04 days
2507 Date: 02/14/07 Time: 09:40:45 CPU Time: 0 0: 1:55.62 (115.62 sec) Binary
2509 Time Step No. = 540 Elapsed Time = 1.534551E+05 days
2510 Date: 02/14/07 Time: 09:40:55 CPU Time: 0 0: 2: 4.66 (124.66 sec) Binary

2512 Time Step No. = 560 Elapsed Time = 3.652432E+05 days
2513 Date: 02/14/07 Time: 09:41:04 CPU Time: 0 0: 2:13.73 (133.73 sec) Binary
2515 Time Step No. = 580 Elapsed Time = 3.652461E+05 days
2516 Date: 02/14/07 Time: 09:41:07 CPU Time: 0 0: 2:17.44 (137.44 sec) Binary
2518 Time Step No. = 600 Elapsed Time = 3.653145E+05 days
2519 Date: 02/14/07 Time: 09:41:13 CPU Time: 0 0: 2:22.90 (142.90 sec) Binary
2521 Time Step No. = 620 Elapsed Time = 3.663770E+05 days
2522 Date: 02/14/07 Time: 09:41:21 CPU Time: 0 0: 2:31.20 (151.20 sec) Binary
2524 Time Step No. = 640 Elapsed Time = 3.665294E+05 days
2525 Date: 02/14/07 Time: 09:41:24 CPU Time: 0 0: 2:33.91 (153.91 sec) Binary
2527 Time Step No. = 660 Elapsed Time = 3.667198E+05 days
2528 Date: 02/14/07 Time: 09:41:27 CPU Time: 0 0: 2:37.38 (157.38 sec) Binary
2530 Time Step No. = 680 Elapsed Time = 3.694667E+05 days
2531 Date: 02/14/07 Time: 09:41:35 CPU Time: 0 0: 2:45.12 (165.12 sec) Binary
2533 Time Step No. = 700 Elapsed Time = 3.697358E+05 days
2534 Date: 02/14/07 Time: 09:41:39 CPU Time: 0 0: 2:49.47 (169.47 sec) Binary
2536 Time Step No. = 720 Elapsed Time = 3.733002E+05 days
2537 Date: 02/14/07 Time: 09:41:47 CPU Time: 0 0: 2:56.71 (176.71 sec) Binary
2539 Time Step No. = 740 Elapsed Time = 3.764582E+05 days
2540 Date: 02/14/07 Time: 09:41:58 CPU Time: 0 0: 3: 7.76 (187.76 sec) Binary
2542 Time Step No. = 760 Elapsed Time = 3.766434E+05 days
2543 Date: 02/14/07 Time: 09:42:06 CPU Time: 0 0: 3:15.69 (195.69 sec) Binary
2545 Time Step No. = 780 Elapsed Time = 3.768308E+05 days
2546 Date: 02/14/07 Time: 09:42:12 CPU Time: 0 0: 3:21.79 (201.79 sec) Binary
2548 Time Step No. = 800 Elapsed Time = 3.769094E+05 days
2549 Date: 02/14/07 Time: 09:42:15 CPU Time: 0 0: 3:25.09 (205.09 sec) Binary
2551 Time Step No. = 820 Elapsed Time = 3.804952E+05 days
2552 Date: 02/14/07 Time: 09:42:24 CPU Time: 0 0: 3:33.60 (213.60 sec) Binary
2554 Time Step No. = 840 Elapsed Time = 3.807620E+05 days
2555 Date: 02/14/07 Time: 09:42:30 CPU Time: 0 0: 3:40.40 (220.40 sec) Binary
2557 Time Step No. = 860 Elapsed Time = 3.823931E+05 days
2558 Date: 02/14/07 Time: 09:42:39 CPU Time: 0 0: 3:49.17 (229.17 sec) Binary
2560 Time Step No. = 880 Elapsed Time = 3.824076E+05 days
2561 Date: 02/14/07 Time: 09:42:46 CPU Time: 0 0: 3:55.48 (235.48 sec) Binary
2563 Time Step No. = 900 Elapsed Time = 3.825485E+05 days
2564 Date: 02/14/07 Time: 09:42:53 CPU Time: 0 0: 4: 2.64 (242.64 sec) Binary
2566 Time Step No. = 920 Elapsed Time = 3.826760E+05 days
2567 Date: 02/14/07 Time: 09:42:57 CPU Time: 0 0: 4: 6.78 (246.78 sec) Binary
2569 Time Step No. = 940 Elapsed Time = 3.853540E+05 days
2570 Date: 02/14/07 Time: 09:43:05 CPU Time: 0 0: 4:15.03 (255.03 sec) Binary
2572 Time Step No. = 960 Elapsed Time = 3.854180E+05 days
2573 Date: 02/14/07 Time: 09:43:11 CPU Time: 0 0: 4:20.82 (260.82 sec) Binary
2575 Time Step No. = 980 Elapsed Time = 3.854555E+05 days
2576 Date: 02/14/07 Time: 09:43:17 CPU Time: 0 0: 4:26.54 (266.54 sec) Binary
2578 Time Step No. = 1000 Elapsed Time = 3.865421E+05 days
2579 Date: 02/14/07 Time: 09:43:21 CPU Time: 0 0: 4:31.04 (271.04 sec) Binary
2581 Time Step No. = 1020 Elapsed Time = 3.977998E+05 days
2582 Date: 02/14/07 Time: 09:43:29 CPU Time: 0 0: 4:39.14 (279.14 sec) Binary
2584 Time Step No. = 1040 Elapsed Time = 4.072582E+05 days
2585 Date: 02/14/07 Time: 09:43:38 CPU Time: 0 0: 4:47.84 (287.84 sec) Binary
2587 Time Step No. = 1060 Elapsed Time = 4.135174E+05 days
2588 Date: 02/14/07 Time: 09:43:45 CPU Time: 0 0: 4:54.49 (294.49 sec) Binary
2590 Time Step No. = 1080 Elapsed Time = 4.195838E+05 days
2591 Date: 02/14/07 Time: 09:43:51 CPU Time: 0 0: 5: 1.09 (301.09 sec) Binary
2593 Time Step No. = 1100 Elapsed Time = 4.376889E+05 days
2594 Date: 02/14/07 Time: 09:44:00 CPU Time: 0 0: 5: 9.65 (309.65 sec) Binary
2596 Time Step No. = 1120 Elapsed Time = 4.384404E+05 days
2597 Date: 02/14/07 Time: 09:44:06 CPU Time: 0 0: 5:15.44 (315.44 sec) Binary
2599 Time Step No. = 1140 Elapsed Time = 4.447569E+05 days
2600 Date: 02/14/07 Time: 09:44:11 CPU Time: 0 0: 5:21.08 (321.08 sec) Binary
2602 Time Step No. = 1160 Elapsed Time = 4.559149E+05 days
2603 Date: 02/14/07 Time: 09:44:22 CPU Time: 0 0: 5:31.27 (331.27 sec) Binary
2605 Time Step No. = 1180 Elapsed Time = 4.583726E+05 days
2606 Date: 02/14/07 Time: 09:44:27 CPU Time: 0 0: 5:37.06 (337.06 sec) Binary
2608 Time Step No. = 1200 Elapsed Time = 6.210292E+05 days
2609 Date: 02/14/07 Time: 09:44:34 CPU Time: 0 0: 5:43.20 (343.20 sec) Binary
2611 Time Step No. = 1220 Elapsed Time = 7.693890E+05 days
2612 Date: 02/14/07 Time: 09:44:46 CPU Time: 0 0: 5:55.70 (355.70 sec) Binary
2614 Time Step No. = 1240 Elapsed Time = 7.747455E+05 days
2615 Date: 02/14/07 Time: 09:44:50 CPU Time: 0 0: 5:59.71 (359.71 sec) Binary
2617 Time Step No. = 1260 Elapsed Time = 1.007898E+06 days
2618 Date: 02/14/07 Time: 09:44:57 CPU Time: 0 0: 6: 6.05 (366.05 sec) Binary
2620 Time Step No. = 1280 Elapsed Time = 1.308059E+06 days
2621 Date: 02/14/07 Time: 09:45:05 CPU Time: 0 0: 6:13.90 (373.90 sec) Binary
2623 Time Step No. = 1300 Elapsed Time = 1.328500E+06 days
2624 Date: 02/14/07 Time: 09:45:09 CPU Time: 0 0: 6:18.31 (378.31 sec) Binary


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2626 Time Step No. = 1320 Elapsed Time = 1.666428E+06 days
2627 Date: 02/14/07 Time: 09:45:15 CPU Time: 0 0: 6:24.18 ( 384.18 sec) Binary
2629 Time Step No. = 1340 Elapsed Time = 2.066428E+06 days
2630 Date: 02/14/07 Time: 09:45:20 CPU Time: 0 0: 6:29.48 ( 389.48 sec) Binary
2632 Time Step No. = 1360 Elapsed Time = 2.361834E+06 days
2633 Date: 02/14/07 Time: 09:45:29 CPU Time: 0 0: 6:37.92 ( 397.92 sec) Binary
2635 Time Step No. = 1380 Elapsed Time = 2.393121E+06 days
2636 Date: 02/14/07 Time: 09:45:37 CPU Time: 0 0: 6:45.79 ( 405.79 sec) Binary
2638 Time Step No. = 1400 Elapsed Time = 2.401318E+06 days
2639 Date: 02/14/07 Time: 09:45:44 CPU Time: 0 0: 6:52.81 ( 412.81 sec) Binary
2641 Time Step No. = 1420 Elapsed Time = 2.468163E+06 days
2642 Date: 02/14/07 Time: 09:45:50 CPU Time: 0 0: 6:59.54 ( 419.54 sec) Binary
2644 Time Step No. = 1440 Elapsed Time = 2.865069E+06 days
2645 Date: 02/14/07 Time: 09:45:56 CPU Time: 0 0: 7: 5.38 ( 425.38 sec) Binary
2647 Time Step No. = 1460 Elapsed Time = 3.265069E+06 days
2648 Date: 02/14/07 Time: 09:46:02 CPU Time: 0 0: 7:11.15 ( 431.15 sec) Binary
2651 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
2667 CPU Time (this time step) = 0.35 sec = 0.00010 hr
2668 CPU Time (total for run) = 583.97 sec = 0.16221 hr
2669 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
2667 CPU Time (this time step) = 0.27 sec = 0.00007 hr
2668 CPU Time (total for run) = 436.72 sec = 0.12131 hr
2669 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
3345 Date: 02/14/07 Time: 10:43:33 CPU Time: 0 0: 9:44.00 ( 584.00 sec) ASCII
3347 Time Step No. = 1480 Elapsed Time = 3.652431E+06 days
3348 Date: 02/14/07 Time: 10:43:33 CPU Time: 0 0: 9:44.00 ( 584.00 sec) Binary
3353 *****
3354 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3355 * Completed: 02/14/07 at 10:43:33 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
3356 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
3345 Date: 02/14/07 Time: 09:46:08 CPU Time: 0 0: 7:16.74 ( 436.74 sec) ASCII
3347 Time Step No. = 1480 Elapsed Time = 3.652431E+06 days
3348 Date: 02/14/07 Time: 09:46:08 CPU Time: 0 0: 7:16.74 ( 436.74 sec) Binary
3353 *****
3354 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3355 * Completed: 02/14/07 at 09:46:08 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3356 *****
*****
Number of difference sections found: 11
Number of difference records found: 150
```

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
```

BF2_QB0600_ES40_TEST7_V002_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
3 ** Begun on: 02/14/07 at 10:33:52 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
3 ** Begun on: 02/14/07 at 09:38:54 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_TEST7_V002.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
```

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61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
1772 CPU Time (this time step) = 0.26 sec = 0.00007 hr
1773 CPU Time (total for run) = 27.76 sec = 0.00771 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
1772 CPU Time (this time step) = 0.20 sec = 0.00006 hr
1773 CPU Time (total for run) = 21.05 sec = 0.00585 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
2450 Date: 02/14/07 Time: 10:34:20 CPU Time: 0 0: 0:27.78 ( 27.78 sec) ASCII
2452 Time Step No. = 127 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:34:20 CPU Time: 0 0: 0:27.79 ( 27.79 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 4.346098E-01 days
2456 Date: 02/14/07 Time: 10:34:23 CPU Time: 0 0: 0:31.32 ( 31.32 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 3.472291E+01 days
2459 Date: 02/14/07 Time: 10:34:28 CPU Time: 0 0: 0:36.40 ( 36.40 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.955883E+03 days
2462 Date: 02/14/07 Time: 10:34:35 CPU Time: 0 0: 0:43.23 ( 43.23 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 2.565631E+04 days
2465 Date: 02/14/07 Time: 10:34:44 CPU Time: 0 0: 0:51.68 ( 51.68 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.652584E+04 days
2468 Date: 02/14/07 Time: 10:34:58 CPU Time: 0 0: 1: 5.71 ( 65.71 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.659319E+04 days
2471 Date: 02/14/07 Time: 10:35:03 CPU Time: 0 0: 1:11.00 ( 71.00 sec) Binary
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2473 Time Step No. = 260 Elapsed Time = 3.666452E+04 days
2474 Date: 02/14/07 Time: 10:35:06 CPU Time: 0 0: 1:13.79 (73.79 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.678636E+04 days
2477 Date: 02/14/07 Time: 10:35:10 CPU Time: 0 0: 1:18.13 (78.13 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.918728E+04 days
2480 Date: 02/14/07 Time: 10:35:17 CPU Time: 0 0: 1:24.81 (84.81 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 5.812157E+04 days
2483 Date: 02/14/07 Time: 10:35:29 CPU Time: 0 0: 1:36.45 (96.45 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 9.710952E+04 days
2486 Date: 02/14/07 Time: 10:35:37 CPU Time: 0 0: 1:45.06 (105.06 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.570947E+05 days
2489 Date: 02/14/07 Time: 10:35:49 CPU Time: 0 0: 1:56.27 (116.27 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 3.652773E+05 days
2492 Date: 02/14/07 Time: 10:35:56 CPU Time: 0 0: 2: 3.59 (123.59 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.654045E+05 days
2495 Date: 02/14/07 Time: 10:36:03 CPU Time: 0 0: 2:10.82 (130.82 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 3.660244E+05 days
2498 Date: 02/14/07 Time: 10:36:12 CPU Time: 0 0: 2:19.42 (139.42 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.667476E+05 days
2501 Date: 02/14/07 Time: 10:36:15 CPU Time: 0 0: 2:22.30 (142.30 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 3.668694E+05 days
2504 Date: 02/14/07 Time: 10:36:18 CPU Time: 0 0: 2:25.28 (145.28 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 3.774372E+05 days
2507 Date: 02/14/07 Time: 10:36:24 CPU Time: 0 0: 2:31.73 (151.73 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 3.796809E+05 days
2510 Date: 02/14/07 Time: 10:36:32 CPU Time: 0 0: 2:39.70 (159.70 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 3.859590E+05 days
2513 Date: 02/14/07 Time: 10:36:38 CPU Time: 0 0: 2:45.39 (165.39 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 4.871131E+05 days
2516 Date: 02/14/07 Time: 10:36:50 CPU Time: 0 0: 2:57.12 (177.12 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 4.930836E+05 days
2519 Date: 02/14/07 Time: 10:36:58 CPU Time: 0 0: 3: 5.26 (185.26 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 5.535964E+05 days
2522 Date: 02/14/07 Time: 10:37:07 CPU Time: 0 0: 3:14.33 (194.33 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 5.724872E+05 days
2525 Date: 02/14/07 Time: 10:37:18 CPU Time: 0 0: 3:25.49 (205.49 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 5.734498E+05 days
2528 Date: 02/14/07 Time: 10:37:25 CPU Time: 0 0: 3:32.29 (212.29 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 5.775623E+05 days
2531 Date: 02/14/07 Time: 10:37:32 CPU Time: 0 0: 3:39.37 (219.37 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 6.407566E+05 days
2534 Date: 02/14/07 Time: 10:37:41 CPU Time: 0 0: 3:48.64 (228.64 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 6.744634E+05 days
2537 Date: 02/14/07 Time: 10:37:53 CPU Time: 0 0: 3:59.82 (239.82 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 6.751089E+05 days
2540 Date: 02/14/07 Time: 10:37:57 CPU Time: 0 0: 4: 4.26 (244.26 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 6.764870E+05 days
2543 Date: 02/14/07 Time: 10:38:08 CPU Time: 0 0: 4:15.44 (255.44 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 6.800027E+05 days
2546 Date: 02/14/07 Time: 10:38:15 CPU Time: 0 0: 4:22.48 (262.48 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 6.830843E+05 days
2549 Date: 02/14/07 Time: 10:38:21 CPU Time: 0 0: 4:28.26 (268.26 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 7.863709E+05 days
2552 Date: 02/14/07 Time: 10:38:30 CPU Time: 0 0: 4:37.52 (277.52 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 8.205738E+05 days
2555 Date: 02/14/07 Time: 10:38:39 CPU Time: 0 0: 4:45.72 (285.72 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 8.371328E+05 days
2558 Date: 02/14/07 Time: 10:38:49 CPU Time: 0 0: 4:56.52 (296.52 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 9.542887E+05 days
2561 Date: 02/14/07 Time: 10:39:00 CPU Time: 0 0: 5: 7.28 (307.28 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 9.666332E+05 days
2564 Date: 02/14/07 Time: 10:39:09 CPU Time: 0 0: 5:16.35 (316.35 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 9.777098E+05 days
2567 Date: 02/14/07 Time: 10:39:16 CPU Time: 0 0: 5:23.07 (323.07 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.062787E+06 days
2570 Date: 02/14/07 Time: 10:39:27 CPU Time: 0 0: 5:33.65 (333.65 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.075840E+06 days
2573 Date: 02/14/07 Time: 10:39:38 CPU Time: 0 0: 5:44.13 (344.13 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.078336E+06 days
2576 Date: 02/14/07 Time: 10:39:45 CPU Time: 0 0: 5:51.49 (351.49 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.145474E+06 days
2579 Date: 02/14/07 Time: 10:39:53 CPU Time: 0 0: 5:59.66 (359.66 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.476967E+06 days
2582 Date: 02/14/07 Time: 10:40:04 CPU Time: 0 0: 6:10.39 (370.39 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.647571E+06 days
2585 Date: 02/14/07 Time: 10:40:15 CPU Time: 0 0: 6:21.56 (381.56 sec) Binary

2587 Time Step No. = 1020 Elapsed Time = 1.741394E+06 days
2588 Date: 02/14/07 Time: 10:40:27 CPU Time: 0 0: 6:33.73 (393.73 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.760200E+06 days
2591 Date: 02/14/07 Time: 10:40:38 CPU Time: 0 0: 6:44.49 (404.49 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.854061E+06 days
2594 Date: 02/14/07 Time: 10:40:45 CPU Time: 0 0: 6:51.61 (411.61 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.147313E+06 days
2597 Date: 02/14/07 Time: 10:40:56 CPU Time: 0 0: 7: 2.71 (422.71 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 2.431481E+06 days
2600 Date: 02/14/07 Time: 10:41:08 CPU Time: 0 0: 7:14.76 (434.76 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 2.490074E+06 days
2603 Date: 02/14/07 Time: 10:41:19 CPU Time: 0 0: 7:25.59 (445.59 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 2.690910E+06 days
2606 Date: 02/14/07 Time: 10:41:34 CPU Time: 0 0: 7:39.89 (459.89 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 3.089099E+06 days
2609 Date: 02/14/07 Time: 10:41:44 CPU Time: 0 0: 7:50.65 (470.65 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 3.293784E+06 days
2612 Date: 02/14/07 Time: 10:42:03 CPU Time: 0 0: 8: 9.00 (489.00 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 3.347981E+06 days
2615 Date: 02/14/07 Time: 10:42:10 CPU Time: 0 0: 8:16.36 (496.36 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 3.418348E+06 days
2618 Date: 02/14/07 Time: 10:42:22 CPU Time: 0 0: 8:28.43 (508.43 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 3.499859E+06 days
2621 Date: 02/14/07 Time: 10:42:34 CPU Time: 0 0: 8:39.96 (519.96 sec) Binary
2624 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002|BF2_QB0600_ES47_TEST7_V002.OUT;1
2450 Date: 02/14/07 Time: 09:39:16 CPU Time: 0 0: 0:21.06 (21.06 sec) ASCII
2452 Time Step No. = 127 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:39:16 CPU Time: 0 0: 0:21.06 (21.06 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 4.346098E-01 days
2456 Date: 02/14/07 Time: 09:39:19 CPU Time: 0 0: 0:23.85 (23.85 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 3.472291E+01 days
2459 Date: 02/14/07 Time: 09:39:23 CPU Time: 0 0: 0:27.82 (27.82 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.955883E+03 days
2462 Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:33.15 (33.15 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 2.565631E+04 days
2465 Date: 02/14/07 Time: 09:39:34 CPU Time: 0 0: 0:39.74 (39.74 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.652584E+04 days
2468 Date: 02/14/07 Time: 09:39:45 CPU Time: 0 0: 0:49.98 (49.98 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.659319E+04 days
2471 Date: 02/14/07 Time: 09:39:49 CPU Time: 0 0: 0:53.86 (53.86 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.666452E+04 days
2474 Date: 02/14/07 Time: 09:39:51 CPU Time: 0 0: 0:55.94 (55.94 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.678636E+04 days
2477 Date: 02/14/07 Time: 09:39:54 CPU Time: 0 0: 0:59.36 (59.36 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.918728E+04 days
2480 Date: 02/14/07 Time: 09:39:59 CPU Time: 0 0: 1: 4.62 (64.62 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 5.812157E+04 days
2483 Date: 02/14/07 Time: 09:40:09 CPU Time: 0 0: 1:13.94 (73.94 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 9.710952E+04 days
2486 Date: 02/14/07 Time: 09:40:16 CPU Time: 0 0: 1:20.81 (80.81 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.570947E+05 days
2489 Date: 02/14/07 Time: 09:40:25 CPU Time: 0 0: 1:29.71 (89.71 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 3.652773E+05 days
2492 Date: 02/14/07 Time: 09:40:30 CPU Time: 0 0: 1:35.50 (95.50 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.654045E+05 days
2495 Date: 02/14/07 Time: 09:40:36 CPU Time: 0 0: 1:41.29 (101.29 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 3.660244E+05 days
2498 Date: 02/14/07 Time: 09:40:43 CPU Time: 0 0: 1:48.20 (108.20 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.667476E+05 days
2501 Date: 02/14/07 Time: 09:40:45 CPU Time: 0 0: 1:50.51 (110.51 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 3.668694E+05 days
2504 Date: 02/14/07 Time: 09:40:48 CPU Time: 0 0: 1:52.90 (112.90 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 3.774372E+05 days
2507 Date: 02/14/07 Time: 09:40:53 CPU Time: 0 0: 1:58.07 (118.07 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 3.796809E+05 days
2510 Date: 02/14/07 Time: 09:40:59 CPU Time: 0 0: 2: 4.43 (124.43 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 3.859590E+05 days
2513 Date: 02/14/07 Time: 09:41:04 CPU Time: 0 0: 2: 8.84 (128.84 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 4.871131E+05 days
2516 Date: 02/14/07 Time: 09:41:13 CPU Time: 0 0: 2:17.71 (137.71 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 4.930836E+05 days
2519 Date: 02/14/07 Time: 09:41:19 CPU Time: 0 0: 2:23.87 (143.87 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 5.535964E+05 days
2522 Date: 02/14/07 Time: 09:41:26 CPU Time: 0 0: 2:30.76 (150.76 sec) Binary

2524 Time Step No. = 600 Elapsed Time = 5.724872E+05 days
2525 Date: 02/14/07 Time: 09:41:34 CPU Time: 0 0: 2:39.44 (159.44 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 5.734498E+05 days
2528 Date: 02/14/07 Time: 09:41:40 CPU Time: 0 0: 2:44.75 (164.75 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 5.775623E+05 days
2531 Date: 02/14/07 Time: 09:41:46 CPU Time: 0 0: 2:50.32 (170.32 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 6.407566E+05 days
2534 Date: 02/14/07 Time: 09:41:53 CPU Time: 0 0: 2:57.55 (177.55 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 6.744634E+05 days
2537 Date: 02/14/07 Time: 09:42:02 CPU Time: 0 0: 3: 6.29 (186.29 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 6.751089E+05 days
2540 Date: 02/14/07 Time: 09:42:05 CPU Time: 0 0: 3: 9.80 (189.80 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 6.764870E+05 days
2543 Date: 02/14/07 Time: 09:42:14 CPU Time: 0 0: 3:18.46 (198.46 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 6.800027E+05 days
2546 Date: 02/14/07 Time: 09:42:19 CPU Time: 0 0: 3:23.52 (203.52 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 6.830843E+05 days
2549 Date: 02/14/07 Time: 09:42:23 CPU Time: 0 0: 3:27.71 (207.71 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 7.863709E+05 days
2552 Date: 02/14/07 Time: 09:42:30 CPU Time: 0 0: 3:34.43 (214.43 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 8.205738E+05 days
2555 Date: 02/14/07 Time: 09:42:36 CPU Time: 0 0: 3:40.39 (220.39 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 8.371328E+05 days
2558 Date: 02/14/07 Time: 09:42:43 CPU Time: 0 0: 3:48.11 (228.11 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 9.542887E+05 days
2561 Date: 02/14/07 Time: 09:42:51 CPU Time: 0 0: 3:55.91 (235.91 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 9.666332E+05 days
2564 Date: 02/14/07 Time: 09:42:58 CPU Time: 0 0: 4: 2.50 (242.50 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 9.777098E+05 days
2567 Date: 02/14/07 Time: 09:43:03 CPU Time: 0 0: 4: 7.38 (247.38 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.062787E+06 days
2570 Date: 02/14/07 Time: 09:43:10 CPU Time: 0 0: 4:15.04 (255.04 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.075840E+06 days
2573 Date: 02/14/07 Time: 09:43:18 CPU Time: 0 0: 4:22.63 (262.63 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.078336E+06 days
2576 Date: 02/14/07 Time: 09:43:24 CPU Time: 0 0: 4:28.19 (268.19 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.145474E+06 days
2579 Date: 02/14/07 Time: 09:43:30 CPU Time: 0 0: 4:34.42 (274.42 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.476967E+06 days
2582 Date: 02/14/07 Time: 09:43:38 CPU Time: 0 0: 4:42.58 (282.58 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.647571E+06 days
2585 Date: 02/14/07 Time: 09:43:47 CPU Time: 0 0: 4:51.06 (291.06 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 1.741394E+06 days
2588 Date: 02/14/07 Time: 09:43:56 CPU Time: 0 0: 5: 0.29 (300.29 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.760200E+06 days
2591 Date: 02/14/07 Time: 09:44:04 CPU Time: 0 0: 5: 8.46 (308.46 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.854061E+06 days
2594 Date: 02/14/07 Time: 09:44:09 CPU Time: 0 0: 5:13.90 (313.90 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.147313E+06 days
2597 Date: 02/14/07 Time: 09:44:18 CPU Time: 0 0: 5:22.32 (322.32 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 2.431481E+06 days
2600 Date: 02/14/07 Time: 09:44:27 CPU Time: 0 0: 5:31.82 (331.82 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 2.490074E+06 days
2603 Date: 02/14/07 Time: 09:44:36 CPU Time: 0 0: 5:40.41 (340.41 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 2.690910E+06 days
2606 Date: 02/14/07 Time: 09:44:47 CPU Time: 0 0: 5:51.68 (351.68 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 3.089099E+06 days
2609 Date: 02/14/07 Time: 09:44:56 CPU Time: 0 0: 6: 0.22 (360.22 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 3.293784E+06 days
2612 Date: 02/14/07 Time: 09:45:10 CPU Time: 0 0: 6:14.52 (374.52 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 3.347981E+06 days
2615 Date: 02/14/07 Time: 09:45:16 CPU Time: 0 0: 6:20.25 (380.25 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 3.418348E+06 days
2618 Date: 02/14/07 Time: 09:45:25 CPU Time: 0 0: 6:29.47 (389.47 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 3.499859E+06 days
2621 Date: 02/14/07 Time: 09:45:34 CPU Time: 0 0: 6:38.23 (398.23 sec) Binary
2624 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1

2640 CPU Time (this time step) = 0.44 sec = 0.00012 hr

2641 CPU Time (total for run) = 525.25 sec = 0.14590 hr

2642 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1

2640 CPU Time (this time step) = 0.34 sec = 0.00009 hr

Information Only

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2641 CPU Time (total for run) = 402.27 sec = 0.11174 hr
2642 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
3318 Date: 02/14/07 Time: 10:42:39 CPU Time: 0 0: 8:45.28 ( 525.28 sec) ASCII
3320 Time Step No. = 1254 Elapsed Time = 3.652431E+06 days
3321 Date: 02/14/07 Time: 10:42:39 CPU Time: 0 0: 8:45.29 ( 525.29 sec) Binary
3326 *****
3327 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3328 * Completed: 02/14/07 at 10:42:39 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
3329 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
3318 Date: 02/14/07 Time: 09:45:38 CPU Time: 0 0: 6:42.29 ( 402.29 sec) ASCII
3320 Time Step No. = 1254 Elapsed Time = 3.652431E+06 days
3321 Date: 02/14/07 Time: 09:45:38 CPU Time: 0 0: 6:42.29 ( 402.29 sec) Binary
3326 *****
3327 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3328 * Completed: 02/14/07 at 09:45:38 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3329 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 132

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
```

BF2_QB0600_ES40_TEST7_V003_OUT.DIF

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*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
 3 ** Begun on: 02/14/07 at 10:33:57 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 3 ** Begun on: 02/14/07 at 09:38:59 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
 61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_TEST7_V003.INP;2
 62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;2
 62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
 66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_CLOSURE.DAT;1
 67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_CLOSURE.DAT;1
 67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
 71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
 72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
 76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.SUM;1
 77 *****
*****
```

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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.SUM;1
 77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
 81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.BIN;1
 82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.BIN;1
 82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
 86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.ROT;1
 87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.ROT;1
 87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
1772 CPU Time (this time step) = 0.17 sec = 0.00005 hr
1773 CPU Time (total for run) = 30.11 sec = 0.00836 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
1772 CPU Time (this time step) = 0.14 sec = 0.00004 hr
1773 CPU Time (total for run) = 23.62 sec = 0.00656 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
2450 Date: 02/14/07 Time: 10:34:27 CPU Time: 0 0: 0:30.14 ( 30.14 sec) ASCII
2452 Time Step No. = 131 Elapsed Time = 0.00000E+00 days
2453 Date: 02/14/07 Time: 10:34:27 CPU Time: 0 0: 0:30.14 ( 30.14 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 1.290116E-01 days
2456 Date: 02/14/07 Time: 10:34:30 CPU Time: 0 0: 0:32.73 ( 32.73 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 7.082940E+00 days
2459 Date: 02/14/07 Time: 10:34:34 CPU Time: 0 0: 0:36.77 ( 36.77 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 2.340221E+02 days
2462 Date: 02/14/07 Time: 10:34:39 CPU Time: 0 0: 0:41.94 ( 41.94 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 2.227802E+03 days
2465 Date: 02/14/07 Time: 10:34:45 CPU Time: 0 0: 0:48.19 ( 48.19 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 2.172601E+04 days
2468 Date: 02/14/07 Time: 10:34:55 CPU Time: 0 0: 0:58.02 ( 58.02 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.652431E+04 days
2471 Date: 02/14/07 Time: 10:35:12 CPU Time: 0 0: 1:15.13 ( 75.13 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.652431E+04 days
2474 Date: 02/14/07 Time: 10:35:16 CPU Time: 0 0: 1:18.90 ( 78.90 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.652436E+04 days
2477 Date: 02/14/07 Time: 10:35:20 CPU Time: 0 0: 1:23.29 ( 83.29 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.652878E+04 days
2480 Date: 02/14/07 Time: 10:35:25 CPU Time: 0 0: 1:27.75 ( 87.75 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.664309E+04 days
2483 Date: 02/14/07 Time: 10:35:32 CPU Time: 0 0: 1:34.70 ( 94.70 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 3.666734E+04 days
2486 Date: 02/14/07 Time: 10:35:34 CPU Time: 0 0: 1:36.98 ( 96.98 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.683266E+04 days
2489 Date: 02/14/07 Time: 10:35:39 CPU Time: 0 0: 1:42.00 ( 102.00 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 4.360968E+04 days
2492 Date: 02/14/07 Time: 10:35:45 CPU Time: 0 0: 1:47.71 ( 107.71 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 1.385826E+05 days
2495 Date: 02/14/07 Time: 10:35:57 CPU Time: 0 0: 2: 0.21 ( 120.21 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 1.471271E+05 days
2498 Date: 02/14/07 Time: 10:36:10 CPU Time: 0 0: 2:13.33 ( 133.33 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 1.527317E+05 days
2501 Date: 02/14/07 Time: 10:36:19 CPU Time: 0 0: 2:21.97 ( 141.97 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 1.710125E+05 days
2504 Date: 02/14/07 Time: 10:36:30 CPU Time: 0 0: 2:32.70 ( 152.70 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 2.573034E+05 days
2507 Date: 02/14/07 Time: 10:36:44 CPU Time: 0 0: 2:46.41 ( 166.41 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 2.971722E+05 days
2510 Date: 02/14/07 Time: 10:36:56 CPU Time: 0 0: 2:59.04 ( 179.04 sec) Binary
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2512 Time Step No. = 520 Elapsed Time = 3.652468E+05 days
2513 Date: 02/14/07 Time: 10:37:04 CPU Time: 0 0: 3: 6.77 ( 186.77 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 3.653773E+05 days
2516 Date: 02/14/07 Time: 10:37:11 CPU Time: 0 0: 3:14.25 ( 194.25 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 3.659289E+05 days
2519 Date: 02/14/07 Time: 10:37:21 CPU Time: 0 0: 3:24.19 ( 204.19 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 3.665472E+05 days
2522 Date: 02/14/07 Time: 10:37:25 CPU Time: 0 0: 3:27.37 ( 207.37 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 3.666447E+05 days
2525 Date: 02/14/07 Time: 10:37:27 CPU Time: 0 0: 3:29.84 ( 209.84 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 3.703658E+05 days
2528 Date: 02/14/07 Time: 10:37:35 CPU Time: 0 0: 3:37.38 ( 217.38 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.798337E+05 days
2531 Date: 02/14/07 Time: 10:37:48 CPU Time: 0 0: 3:50.67 ( 230.67 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.939257E+05 days
2534 Date: 02/14/07 Time: 10:37:59 CPU Time: 0 0: 4: 1.17 ( 241.17 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 3.962038E+05 days
2537 Date: 02/14/07 Time: 10:38:08 CPU Time: 0 0: 4:10.61 ( 250.61 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 4.052779E+05 days
2540 Date: 02/14/07 Time: 10:38:15 CPU Time: 0 0: 4:17.56 ( 257.56 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 4.063093E+05 days
2543 Date: 02/14/07 Time: 10:38:24 CPU Time: 0 0: 4:26.70 ( 266.70 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 4.122326E+05 days
2546 Date: 02/14/07 Time: 10:38:34 CPU Time: 0 0: 4:36.88 ( 276.88 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 4.197205E+05 days
2549 Date: 02/14/07 Time: 10:38:42 CPU Time: 0 0: 4:44.47 ( 284.47 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 4.477240E+05 days
2552 Date: 02/14/07 Time: 10:38:53 CPU Time: 0 0: 4:55.18 ( 295.18 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 5.300302E+05 days
2555 Date: 02/14/07 Time: 10:39:04 CPU Time: 0 0: 5: 6.56 ( 306.56 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 6.962797E+05 days
2558 Date: 02/14/07 Time: 10:39:15 CPU Time: 0 0: 5:17.99 ( 317.99 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 6.976745E+05 days
2561 Date: 02/14/07 Time: 10:39:23 CPU Time: 0 0: 5:25.67 ( 325.67 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 7.510302E+05 days
2564 Date: 02/14/07 Time: 10:39:32 CPU Time: 0 0: 5:34.92 ( 334.92 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 1.039742E+06 days
2567 Date: 02/14/07 Time: 10:39:42 CPU Time: 0 0: 5:44.87 ( 344.87 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.429742E+06 days
2570 Date: 02/14/07 Time: 10:39:51 CPU Time: 0 0: 5:53.79 ( 353.79 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.739749E+06 days
2573 Date: 02/14/07 Time: 10:40:03 CPU Time: 0 0: 6: 4.99 ( 364.99 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 2.139749E+06 days
2576 Date: 02/14/07 Time: 10:40:10 CPU Time: 0 0: 6:12.32 ( 372.32 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 2.507874E+06 days
2579 Date: 02/14/07 Time: 10:40:19 CPU Time: 0 0: 6:21.25 ( 381.25 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 2.775406E+06 days
2582 Date: 02/14/07 Time: 10:40:27 CPU Time: 0 0: 6:29.61 ( 389.61 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 3.175406E+06 days
2585 Date: 02/14/07 Time: 10:40:35 CPU Time: 0 0: 6:37.28 ( 397.28 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 3.365099E+06 days
2588 Date: 02/14/07 Time: 10:40:46 CPU Time: 0 0: 6:48.81 ( 408.81 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 3.632948E+06 days
2591 Date: 02/14/07 Time: 10:40:56 CPU Time: 0 0: 6:58.63 ( 418.63 sec) Binary
2594 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
2450 Date: 02/14/07 Time: 09:39:23 CPU Time: 0 0: 0:23.63 ( 23.63 sec) ASCII
2452 Time Step No. = 131 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:39:23 CPU Time: 0 0: 0:23.63 ( 23.63 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 1.290116E-01 days
2456 Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:25.67 ( 25.67 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 7.082940E+00 days
2459 Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:28.88 ( 28.88 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 2.340221E+02 days
2462 Date: 02/14/07 Time: 09:39:33 CPU Time: 0 0: 0:33.00 ( 33.00 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 2.227802E+03 days
2465 Date: 02/14/07 Time: 09:39:37 CPU Time: 0 0: 0:37.92 ( 37.92 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 2.172601E+04 days
2468 Date: 02/14/07 Time: 09:39:45 CPU Time: 0 0: 0:45.69 ( 45.69 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.652431E+04 days
2471 Date: 02/14/07 Time: 09:39:59 CPU Time: 0 0: 0:59.17 ( 59.17 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.652431E+04 days
2474 Date: 02/14/07 Time: 09:40:02 CPU Time: 0 0: 1: 2.14 ( 62.14 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.652436E+04 days
2477 Date: 02/14/07 Time: 09:40:05 CPU Time: 0 0: 1: 5.32 ( 65.32 sec) Binary
```


2479 Time Step No. = 300 Elapsed Time = 3.652878E+04 days
2480 Date: 02/14/07 Time: 09:40:08 CPU Time: 0 0: 1: 8.54 (68.54 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.664309E+04 days
2483 Date: 02/14/07 Time: 09:40:13 CPU Time: 0 0: 1:13.49 (73.49 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 3.666734E+04 days
2486 Date: 02/14/07 Time: 09:40:15 CPU Time: 0 0: 1:15.14 (75.14 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.683266E+04 days
2489 Date: 02/14/07 Time: 09:40:18 CPU Time: 0 0: 1:18.69 (78.69 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 4.360968E+04 days
2492 Date: 02/14/07 Time: 09:40:23 CPU Time: 0 0: 1:23.08 (83.08 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 1.385826E+05 days
2495 Date: 02/14/07 Time: 09:40:32 CPU Time: 0 0: 1:32.44 (92.44 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 1.471271E+05 days
2498 Date: 02/14/07 Time: 09:40:42 CPU Time: 0 0: 1:42.55 (102.55 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 1.527317E+05 days
2501 Date: 02/14/07 Time: 09:40:49 CPU Time: 0 0: 1:49.23 (109.23 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 1.710125E+05 days
2504 Date: 02/14/07 Time: 09:40:57 CPU Time: 0 0: 1:57.52 (117.52 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 2.573034E+05 days
2507 Date: 02/14/07 Time: 09:41:08 CPU Time: 0 0: 2: 8.15 (128.15 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 2.971722E+05 days
2510 Date: 02/14/07 Time: 09:41:18 CPU Time: 0 0: 2:18.14 (138.14 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 3.652468E+05 days
2513 Date: 02/14/07 Time: 09:41:24 CPU Time: 0 0: 2:24.26 (144.26 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 3.653773E+05 days
2516 Date: 02/14/07 Time: 09:41:30 CPU Time: 0 0: 2:30.18 (150.18 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 3.659289E+05 days
2519 Date: 02/14/07 Time: 09:41:38 CPU Time: 0 0: 2:38.04 (158.04 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 3.665472E+05 days
2522 Date: 02/14/07 Time: 09:41:41 CPU Time: 0 0: 2:40.56 (160.56 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 3.666447E+05 days
2525 Date: 02/14/07 Time: 09:41:43 CPU Time: 0 0: 2:42.53 (162.53 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 3.703658E+05 days
2528 Date: 02/14/07 Time: 09:41:49 CPU Time: 0 0: 2:48.51 (168.51 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.798337E+05 days
2531 Date: 02/14/07 Time: 09:41:59 CPU Time: 0 0: 2:58.94 (178.94 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.939257E+05 days
2534 Date: 02/14/07 Time: 09:42:08 CPU Time: 0 0: 3: 7.22 (187.22 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 3.962038E+05 days
2537 Date: 02/14/07 Time: 09:42:15 CPU Time: 0 0: 3:14.65 (194.65 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 4.052779E+05 days
2540 Date: 02/14/07 Time: 09:42:21 CPU Time: 0 0: 3:20.17 (200.17 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 4.063093E+05 days
2543 Date: 02/14/07 Time: 09:42:28 CPU Time: 0 0: 3:27.30 (207.30 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 4.122326E+05 days
2546 Date: 02/14/07 Time: 09:42:36 CPU Time: 0 0: 3:35.27 (215.27 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 4.197205E+05 days
2549 Date: 02/14/07 Time: 09:42:42 CPU Time: 0 0: 3:41.21 (221.21 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 4.477240E+05 days
2552 Date: 02/14/07 Time: 09:42:50 CPU Time: 0 0: 3:49.50 (229.50 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 5.300302E+05 days
2555 Date: 02/14/07 Time: 09:42:59 CPU Time: 0 0: 3:58.42 (238.42 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 6.962797E+05 days
2558 Date: 02/14/07 Time: 09:43:08 CPU Time: 0 0: 4: 7.46 (247.46 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 6.976745E+05 days
2561 Date: 02/14/07 Time: 09:43:14 CPU Time: 0 0: 4:13.51 (253.51 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 7.510302E+05 days
2564 Date: 02/14/07 Time: 09:43:22 CPU Time: 0 0: 4:20.80 (260.80 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 1.039742E+06 days
2567 Date: 02/14/07 Time: 09:43:29 CPU Time: 0 0: 4:28.62 (268.62 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.429742E+06 days
2570 Date: 02/14/07 Time: 09:43:36 CPU Time: 0 0: 4:35.61 (275.61 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.739749E+06 days
2573 Date: 02/14/07 Time: 09:43:45 CPU Time: 0 0: 4:44.43 (284.43 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 2.139749E+06 days
2576 Date: 02/14/07 Time: 09:43:51 CPU Time: 0 0: 4:50.23 (290.23 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 2.507874E+06 days
2579 Date: 02/14/07 Time: 09:43:58 CPU Time: 0 0: 4:57.30 (297.30 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 2.775406E+06 days
2582 Date: 02/14/07 Time: 09:44:05 CPU Time: 0 0: 5: 3.90 (303.90 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 3.175406E+06 days
2585 Date: 02/14/07 Time: 09:44:11 CPU Time: 0 0: 5: 9.97 (309.97 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 3.365099E+06 days
2588 Date: 02/14/07 Time: 09:44:20 CPU Time: 0 0: 5:19.00 (319.00 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 3.632948E+06 days
2591 Date: 02/14/07 Time: 09:44:27 CPU Time: 0 0: 5:26.37 (326.37 sec) Binary

```
2594 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
2610 CPU Time (this time step) = 0.27 sec = 0.00008 hr
2611 CPU Time (total for run) = 419.26 sec = 0.11646 hr
2612 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
2610 CPU Time (this time step) = 0.20 sec = 0.00006 hr
2611 CPU Time (total for run) = 326.84 sec = 0.09079 hr
2612 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
3288 Date: 02/14/07 Time: 10:40:57 CPU Time: 0 0: 6:59.29 ( 419.29 sec) ASCII
3290 Time Step No. = 1042 Elapsed Time = 3.652431E+06 days
3291 Date: 02/14/07 Time: 10:40:57 CPU Time: 0 0: 6:59.30 ( 419.30 sec) Binary
3296 *****
3297 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3298 * Completed: 02/14/07 at 10:40:57 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
3299 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
3288 Date: 02/14/07 Time: 09:44:28 CPU Time: 0 0: 5:26.85 ( 326.85 sec) ASCII
3290 Time Step No. = 1042 Elapsed Time = 3.652431E+06 days
3291 Date: 02/14/07 Time: 09:44:28 CPU Time: 0 0: 5:26.85 ( 326.85 sec) Binary
3296 *****
3297 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3298 * Completed: 02/14/07 at 09:44:28 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3299 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 112

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
```

BF2_QB0600_ES40_TEST7_V004_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
3 ** Begun on: 02/14/07 at 10:41:03 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
3 ** Begun on: 02/14/07 at 09:39:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_TEST7_V004.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
72 *****
```

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
  1772 CPU Time (this time step) = 0.17 sec = 0.00005 hr
  1773 CPU Time (total for run) = 28.33 sec = 0.00787 hr
  1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
  1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
  1773 CPU Time (total for run) = 20.44 sec = 0.00568 hr
  1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
  2450 Date: 02/14/07 Time: 10:41:32 CPU Time: 0 0: 0:28.36 ( 28.36 sec) ASCII
  2452 Time Step No. = 126 Elapsed Time = 0.000000E+00 days
  2453 Date: 02/14/07 Time: 10:41:32 CPU Time: 0 0: 0:28.36 ( 28.36 sec) Binary
  2455 Time Step No. = 140 Elapsed Time = 4.883945E-01 days
  2456 Date: 02/14/07 Time: 10:41:36 CPU Time: 0 0: 0:32.27 ( 32.27 sec) Binary
  2458 Time Step No. = 160 Elapsed Time = 4.387923E+01 days
  2459 Date: 02/14/07 Time: 10:41:41 CPU Time: 0 0: 0:37.33 ( 37.33 sec) Binary
  2461 Time Step No. = 180 Elapsed Time = 1.702937E+03 days
  2462 Date: 02/14/07 Time: 10:41:47 CPU Time: 0 0: 0:44.08 ( 44.08 sec) Binary
  2464 Time Step No. = 200 Elapsed Time = 2.885022E+04 days
  2465 Date: 02/14/07 Time: 10:41:55 CPU Time: 0 0: 0:51.83 ( 51.83 sec) Binary
  2467 Time Step No. = 220 Elapsed Time = 3.655949E+04 days
  2468 Date: 02/14/07 Time: 10:42:02 CPU Time: 0 0: 0:58.68 ( 58.68 sec) Binary
  2470 Time Step No. = 240 Elapsed Time = 3.665992E+04 days
  2471 Date: 02/14/07 Time: 10:42:08 CPU Time: 0 0: 1: 4.12 ( 64.12 sec) Binary
  2473 Time Step No. = 260 Elapsed Time = 3.668547E+04 days
  2474 Date: 02/14/07 Time: 10:42:11 CPU Time: 0 0: 1: 7.20 ( 67.20 sec) Binary
  2476 Time Step No. = 280 Elapsed Time = 3.890170E+04 days
  2477 Date: 02/14/07 Time: 10:42:16 CPU Time: 0 0: 1:12.96 ( 72.96 sec) Binary
  2479 Time Step No. = 300 Elapsed Time = 7.425091E+04 days
  2480 Date: 02/14/07 Time: 10:42:26 CPU Time: 0 0: 1:22.99 ( 82.99 sec) Binary
  2482 Time Step No. = 320 Elapsed Time = 7.693372E+04 days
  2483 Date: 02/14/07 Time: 10:42:40 CPU Time: 0 0: 1:36.74 ( 96.74 sec) Binary
  2485 Time Step No. = 340 Elapsed Time = 7.782328E+04 days
  2486 Date: 02/14/07 Time: 10:42:45 CPU Time: 0 0: 1:41.64 ( 101.64 sec) Binary
  2488 Time Step No. = 360 Elapsed Time = 8.389603E+04 days
  2489 Date: 02/14/07 Time: 10:42:54 CPU Time: 0 0: 1:50.41 ( 110.41 sec) Binary
  2491 Time Step No. = 380 Elapsed Time = 1.126327E+05 days
  2492 Date: 02/14/07 Time: 10:43:05 CPU Time: 0 0: 2: 1.26 ( 121.26 sec) Binary
  2494 Time Step No. = 400 Elapsed Time = 1.247590E+05 days
  2495 Date: 02/14/07 Time: 10:43:18 CPU Time: 0 0: 2:14.82 ( 134.82 sec) Binary
```

2497 Time Step No. = 420 Elapsed Time = 1.251232E+05 days
2498 Date: 02/14/07 Time: 10:43:26 CPU Time: 0 0: 2:22.18 (142.18 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 1.256932E+05 days
2501 Date: 02/14/07 Time: 10:43:31 CPU Time: 0 0: 2:27.61 (147.61 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 1.297175E+05 days
2504 Date: 02/14/07 Time: 10:43:41 CPU Time: 0 0: 2:37.25 (157.25 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 1.536827E+05 days
2507 Date: 02/14/07 Time: 10:43:53 CPU Time: 0 0: 2:49.55 (169.55 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 1.675465E+05 days
2510 Date: 02/14/07 Time: 10:44:02 CPU Time: 0 0: 2:58.50 (178.50 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 1.683237E+05 days
2513 Date: 02/14/07 Time: 10:44:14 CPU Time: 0 0: 3: 9.81 (189.81 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 1.684494E+05 days
2516 Date: 02/14/07 Time: 10:44:19 CPU Time: 0 0: 3:15.33 (195.33 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 1.714114E+05 days
2519 Date: 02/14/07 Time: 10:44:26 CPU Time: 0 0: 3:21.71 (201.71 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 2.172821E+05 days
2522 Date: 02/14/07 Time: 10:44:35 CPU Time: 0 0: 3:31.44 (211.44 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 2.418381E+05 days
2525 Date: 02/14/07 Time: 10:44:44 CPU Time: 0 0: 3:40.54 (220.54 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 2.946886E+05 days
2528 Date: 02/14/07 Time: 10:44:55 CPU Time: 0 0: 3:50.95 (230.95 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.455559E+05 days
2531 Date: 02/14/07 Time: 10:45:08 CPU Time: 0 0: 4: 3.95 (243.95 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.475921E+05 days
2534 Date: 02/14/07 Time: 10:45:13 CPU Time: 0 0: 4: 8.60 (248.60 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 3.652432E+05 days
2537 Date: 02/14/07 Time: 10:45:22 CPU Time: 0 0: 4:17.37 (257.37 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 3.652449E+05 days
2540 Date: 02/14/07 Time: 10:45:25 CPU Time: 0 0: 4:21.15 (261.15 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.653298E+05 days
2543 Date: 02/14/07 Time: 10:45:30 CPU Time: 0 0: 4:25.99 (265.99 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.665963E+05 days
2546 Date: 02/14/07 Time: 10:45:37 CPU Time: 0 0: 4:32.23 (272.23 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.666047E+05 days
2549 Date: 02/14/07 Time: 10:45:39 CPU Time: 0 0: 4:34.62 (274.62 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.673309E+05 days
2552 Date: 02/14/07 Time: 10:45:43 CPU Time: 0 0: 4:38.94 (278.94 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.829760E+05 days
2555 Date: 02/14/07 Time: 10:45:52 CPU Time: 0 0: 4:48.02 (288.02 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 4.527294E+05 days
2558 Date: 02/14/07 Time: 10:46:03 CPU Time: 0 0: 4:58.95 (298.95 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 5.448080E+05 days
2561 Date: 02/14/07 Time: 10:46:13 CPU Time: 0 0: 5: 8.20 (308.20 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 7.104959E+05 days
2564 Date: 02/14/07 Time: 10:46:23 CPU Time: 0 0: 5:17.93 (317.93 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 7.696672E+05 days
2567 Date: 02/14/07 Time: 10:46:32 CPU Time: 0 0: 5:26.92 (326.92 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.049399E+06 days
2570 Date: 02/14/07 Time: 10:46:40 CPU Time: 0 0: 5:35.70 (335.70 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.449399E+06 days
2573 Date: 02/14/07 Time: 10:46:49 CPU Time: 0 0: 5:44.59 (344.59 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.476205E+06 days
2576 Date: 02/14/07 Time: 10:47:02 CPU Time: 0 0: 5:57.68 (357.68 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.728036E+06 days
2579 Date: 02/14/07 Time: 10:47:11 CPU Time: 0 0: 6: 6.09 (366.09 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.780697E+06 days
2582 Date: 02/14/07 Time: 10:47:20 CPU Time: 0 0: 6:15.42 (375.42 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.892708E+06 days
2585 Date: 02/14/07 Time: 10:47:32 CPU Time: 0 0: 6:27.29 (387.29 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 2.135160E+06 days
2588 Date: 02/14/07 Time: 10:47:41 CPU Time: 0 0: 6:36.10 (396.10 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 2.460527E+06 days
2591 Date: 02/14/07 Time: 10:47:51 CPU Time: 0 0: 6:45.79 (405.79 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 2.586092E+06 days
2594 Date: 02/14/07 Time: 10:48:00 CPU Time: 0 0: 6:54.74 (414.74 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.799611E+06 days
2597 Date: 02/14/07 Time: 10:48:10 CPU Time: 0 0: 7: 5.35 (425.35 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 3.059226E+06 days
2600 Date: 02/14/07 Time: 10:48:25 CPU Time: 0 0: 7:19.99 (439.99 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 3.185608E+06 days
2603 Date: 02/14/07 Time: 10:48:33 CPU Time: 0 0: 7:28.24 (448.24 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 3.288161E+06 days
2606 Date: 02/14/07 Time: 10:48:44 CPU Time: 0 0: 7:39.05 (459.05 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 3.615101E+06 days
2609 Date: 02/14/07 Time: 10:48:50 CPU Time: 0 0: 7:45.55 (465.55 sec) Binary

2612 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA: [ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
2450 Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:20.46 (20.46 sec) ASCII
2452 Time Step No. = 126 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:20.46 (20.46 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 4.883945E-01 days
2456 Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:23.30 (23.30 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 4.387923E+01 days
2459 Date: 02/14/07 Time: 09:39:32 CPU Time: 0 0: 0:26.98 (26.98 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.702937E+03 days
2462 Date: 02/14/07 Time: 09:39:37 CPU Time: 0 0: 0:32.01 (32.01 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 2.885022E+04 days
2465 Date: 02/14/07 Time: 09:39:42 CPU Time: 0 0: 0:37.91 (37.91 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.655949E+04 days
2468 Date: 02/14/07 Time: 09:39:48 CPU Time: 0 0: 0:43.22 (43.22 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.665992E+04 days
2471 Date: 02/14/07 Time: 09:39:52 CPU Time: 0 0: 0:47.32 (47.32 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.668547E+04 days
2474 Date: 02/14/07 Time: 09:39:54 CPU Time: 0 0: 0:49.54 (49.54 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.890170E+04 days
2477 Date: 02/14/07 Time: 09:39:58 CPU Time: 0 0: 0:53.73 (53.73 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 7.425091E+04 days
2480 Date: 02/14/07 Time: 09:40:06 CPU Time: 0 0: 1: 1.30 (61.30 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 7.693372E+04 days
2483 Date: 02/14/07 Time: 09:40:17 CPU Time: 0 0: 1:11.97 (71.97 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 7.782328E+04 days
2486 Date: 02/14/07 Time: 09:40:20 CPU Time: 0 0: 1:15.67 (75.67 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 8.389603E+04 days
2489 Date: 02/14/07 Time: 09:40:27 CPU Time: 0 0: 1:22.09 (82.09 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 1.126327E+05 days
2492 Date: 02/14/07 Time: 09:40:35 CPU Time: 0 0: 1:30.02 (90.02 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 1.247590E+05 days
2495 Date: 02/14/07 Time: 09:40:45 CPU Time: 0 0: 1:40.18 (100.18 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 1.251232E+05 days
2498 Date: 02/14/07 Time: 09:40:51 CPU Time: 0 0: 1:45.73 (105.73 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 1.256932E+05 days
2501 Date: 02/14/07 Time: 09:40:55 CPU Time: 0 0: 1:49.83 (109.83 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 1.297175E+05 days
2504 Date: 02/14/07 Time: 09:41:02 CPU Time: 0 0: 1:57.23 (117.23 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 1.536827E+05 days
2507 Date: 02/14/07 Time: 09:41:12 CPU Time: 0 0: 2: 6.75 (126.75 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 1.675465E+05 days
2510 Date: 02/14/07 Time: 09:41:19 CPU Time: 0 0: 2:13.69 (133.69 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 1.683237E+05 days
2513 Date: 02/14/07 Time: 09:41:27 CPU Time: 0 0: 2:22.46 (142.46 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 1.684494E+05 days
2516 Date: 02/14/07 Time: 09:41:32 CPU Time: 0 0: 2:26.63 (146.63 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 1.714114E+05 days
2519 Date: 02/14/07 Time: 09:41:36 CPU Time: 0 0: 2:31.45 (151.45 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 2.172821E+05 days
2522 Date: 02/14/07 Time: 09:41:44 CPU Time: 0 0: 2:38.78 (158.78 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 2.418381E+05 days
2525 Date: 02/14/07 Time: 09:41:51 CPU Time: 0 0: 2:45.64 (165.64 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 2.946886E+05 days
2528 Date: 02/14/07 Time: 09:41:59 CPU Time: 0 0: 2:53.36 (173.36 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.455559E+05 days
2531 Date: 02/14/07 Time: 09:42:09 CPU Time: 0 0: 3: 3.15 (183.15 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.475921E+05 days
2534 Date: 02/14/07 Time: 09:42:12 CPU Time: 0 0: 3: 6.67 (186.67 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 3.652432E+05 days
2537 Date: 02/14/07 Time: 09:42:19 CPU Time: 0 0: 3:13.28 (193.28 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 3.652449E+05 days
2540 Date: 02/14/07 Time: 09:42:22 CPU Time: 0 0: 3:16.15 (196.15 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.653298E+05 days
2543 Date: 02/14/07 Time: 09:42:25 CPU Time: 0 0: 3:19.79 (199.79 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.665963E+05 days
2546 Date: 02/14/07 Time: 09:42:30 CPU Time: 0 0: 3:24.49 (204.49 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.666047E+05 days
2549 Date: 02/14/07 Time: 09:42:32 CPU Time: 0 0: 3:26.28 (206.28 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.673309E+05 days
2552 Date: 02/14/07 Time: 09:42:35 CPU Time: 0 0: 3:29.52 (209.52 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.829760E+05 days
2555 Date: 02/14/07 Time: 09:42:42 CPU Time: 0 0: 3:36.31 (216.31 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 4.527294E+05 days
2558 Date: 02/14/07 Time: 09:42:50 CPU Time: 0 0: 3:44.55 (224.55 sec) Binary

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2560 Time Step No. = 840 Elapsed Time = 5.448080E+05 days
2561 Date: 02/14/07 Time: 09:42:57 CPU Time: 0 0: 3:51.49 ( 231.49 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 7.104959E+05 days
2564 Date: 02/14/07 Time: 09:43:04 CPU Time: 0 0: 3:58.81 ( 238.81 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 7.696672E+05 days
2567 Date: 02/14/07 Time: 09:43:11 CPU Time: 0 0: 4: 5.53 ( 245.53 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.049399E+06 days
2570 Date: 02/14/07 Time: 09:43:18 CPU Time: 0 0: 4:12.10 ( 252.10 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.449399E+06 days
2573 Date: 02/14/07 Time: 09:43:24 CPU Time: 0 0: 4:18.48 ( 258.48 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.476205E+06 days
2576 Date: 02/14/07 Time: 09:43:33 CPU Time: 0 0: 4:27.88 ( 267.88 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.728036E+06 days
2579 Date: 02/14/07 Time: 09:43:40 CPU Time: 0 0: 4:33.93 ( 273.93 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.780697E+06 days
2582 Date: 02/14/07 Time: 09:43:46 CPU Time: 0 0: 4:40.61 ( 280.61 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.892708E+06 days
2585 Date: 02/14/07 Time: 09:43:55 CPU Time: 0 0: 4:49.13 ( 289.13 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 2.135160E+06 days
2588 Date: 02/14/07 Time: 09:44:01 CPU Time: 0 0: 4:55.44 ( 295.44 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 2.460527E+06 days
2591 Date: 02/14/07 Time: 09:44:08 CPU Time: 0 0: 5: 2.26 ( 302.26 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 2.586092E+06 days
2594 Date: 02/14/07 Time: 09:44:14 CPU Time: 0 0: 5: 8.69 ( 308.69 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.799611E+06 days
2597 Date: 02/14/07 Time: 09:44:22 CPU Time: 0 0: 5:16.31 ( 316.31 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 3.059226E+06 days
2600 Date: 02/14/07 Time: 09:44:32 CPU Time: 0 0: 5:26.84 ( 326.84 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 3.185608E+06 days
2603 Date: 02/14/07 Time: 09:44:38 CPU Time: 0 0: 5:32.76 ( 332.76 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 3.288161E+06 days
2606 Date: 02/14/07 Time: 09:44:47 CPU Time: 0 0: 5:40.87 ( 340.87 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 3.615101E+06 days
2609 Date: 02/14/07 Time: 09:44:51 CPU Time: 0 0: 5:45.77 ( 345.77 sec) Binary
2612 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
2628 CPU Time (this time step) = 0.36 sec = 0.00010 hr
2629 CPU Time (total for run) = 466.26 sec = 0.12952 hr
2630 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
2628 CPU Time (this time step) = 0.27 sec = 0.00007 hr
2629 CPU Time (total for run) = 346.30 sec = 0.09619 hr
2630 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
3306 Date: 02/14/07 Time: 10:48:51 CPU Time: 0 0: 7:46.29 ( 466.29 sec) ASCII
3308 Time Step No. = 1162 Elapsed Time = 3.652431E+06 days
3309 Date: 02/14/07 Time: 10:48:51 CPU Time: 0 0: 7:46.30 ( 466.30 sec) Binary
3314 *****
3315 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3316 * Completed: 02/14/07 at 10:48:51 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
3317 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
3306 Date: 02/14/07 Time: 09:44:52 CPU Time: 0 0: 5:46.32 ( 346.32 sec) ASCII
3308 Time Step No. = 1162 Elapsed Time = 3.652431E+06 days
3309 Date: 02/14/07 Time: 09:44:52 CPU Time: 0 0: 5:46.32 ( 346.32 sec) Binary
3314 *****
3315 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3316 * Completed: 02/14/07 at 09:44:52 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3317 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 124

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
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BF2_QB0600_ES40_TEST7_V005_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
  3  ** Begun on: 02/14/07 at 10:42:46 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
  3  ** Begun on: 02/14/07 at 09:44:40 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_TEST7_V005.INP;2
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;2
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
  1772 CPU Time (this time step) = 0.18 sec = 0.00005 hr
  1773 CPU Time (total for run) = 34.54 sec = 0.00959 hr
  1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
  1772 CPU Time (this time step) = 0.14 sec = 0.00004 hr
  1773 CPU Time (total for run) = 25.47 sec = 0.00707 hr
```

```
1774 *****  
*****  
*****  
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1  
2450 Date: 02/14/07 Time: 10:43:20 CPU Time: 0 0: 0:34.56 ( 34.56 sec) ASCII  
2452 Time Step No. = 155 Elapsed Time = 0.000000E+00 days  
2453 Date: 02/14/07 Time: 10:43:20 CPU Time: 0 0: 0:34.57 ( 34.57 sec) Binary  
2455 Time Step No. = 160 Elapsed Time = 1.602936E-04 days  
2456 Date: 02/14/07 Time: 10:43:23 CPU Time: 0 0: 0:36.88 ( 36.88 sec) Binary  
2458 Time Step No. = 180 Elapsed Time = 2.060139E-02 days  
2459 Date: 02/14/07 Time: 10:43:27 CPU Time: 0 0: 0:40.76 ( 40.76 sec) Binary  
2461 Time Step No. = 200 Elapsed Time = 1.665882E+00 days  
2462 Date: 02/14/07 Time: 10:43:31 CPU Time: 0 0: 0:45.08 ( 45.08 sec) Binary  
2464 Time Step No. = 220 Elapsed Time = 6.830542E+01 days  
2465 Date: 02/14/07 Time: 10:43:36 CPU Time: 0 0: 0:49.84 ( 49.84 sec) Binary  
2467 Time Step No. = 240 Elapsed Time = 9.026859E+02 days  
2468 Date: 02/14/07 Time: 10:43:43 CPU Time: 0 0: 0:56.64 ( 56.64 sec) Binary  
2470 Time Step No. = 260 Elapsed Time = 5.565489E+03 days  
2471 Date: 02/14/07 Time: 10:43:51 CPU Time: 0 0: 1: 5.21 ( 65.21 sec) Binary  
2473 Time Step No. = 280 Elapsed Time = 1.541474E+04 days  
2474 Date: 02/14/07 Time: 10:44:03 CPU Time: 0 0: 1:16.84 ( 76.84 sec) Binary  
2476 Time Step No. = 300 Elapsed Time = 2.464433E+04 days  
2477 Date: 02/14/07 Time: 10:44:13 CPU Time: 0 0: 1:26.91 ( 86.91 sec) Binary  
2479 Time Step No. = 320 Elapsed Time = 2.540653E+04 days  
2480 Date: 02/14/07 Time: 10:44:22 CPU Time: 0 0: 1:36.18 ( 96.18 sec) Binary  
2482 Time Step No. = 340 Elapsed Time = 2.583713E+04 days  
2483 Date: 02/14/07 Time: 10:44:27 CPU Time: 0 0: 1:40.97 ( 100.97 sec) Binary  
2485 Time Step No. = 360 Elapsed Time = 3.095805E+04 days  
2486 Date: 02/14/07 Time: 10:44:37 CPU Time: 0 0: 1:50.55 ( 110.55 sec) Binary  
2488 Time Step No. = 380 Elapsed Time = 3.652922E+04 days  
2489 Date: 02/14/07 Time: 10:44:49 CPU Time: 0 0: 2: 3.11 ( 123.11 sec) Binary  
2491 Time Step No. = 400 Elapsed Time = 3.666828E+04 days  
2492 Date: 02/14/07 Time: 10:44:55 CPU Time: 0 0: 2: 8.63 ( 128.63 sec) Binary  
2494 Time Step No. = 420 Elapsed Time = 3.667257E+04 days  
2495 Date: 02/14/07 Time: 10:44:57 CPU Time: 0 0: 2:11.03 ( 131.03 sec) Binary  
2497 Time Step No. = 440 Elapsed Time = 3.689196E+04 days  
2498 Date: 02/14/07 Time: 10:45:03 CPU Time: 0 0: 2:16.30 ( 136.30 sec) Binary  
2500 Time Step No. = 460 Elapsed Time = 3.751198E+04 days  
2501 Date: 02/14/07 Time: 10:45:10 CPU Time: 0 0: 2:23.84 ( 143.84 sec) Binary  
2503 Time Step No. = 480 Elapsed Time = 3.782453E+04 days  
2504 Date: 02/14/07 Time: 10:45:15 CPU Time: 0 0: 2:28.48 ( 148.48 sec) Binary  
2506 Time Step No. = 500 Elapsed Time = 4.141513E+04 days  
2507 Date: 02/14/07 Time: 10:45:24 CPU Time: 0 0: 2:37.20 ( 157.20 sec) Binary  
2509 Time Step No. = 520 Elapsed Time = 5.494758E+04 days  
2510 Date: 02/14/07 Time: 10:45:35 CPU Time: 0 0: 2:48.49 ( 168.49 sec) Binary  
2512 Time Step No. = 540 Elapsed Time = 5.880383E+04 days  
2513 Date: 02/14/07 Time: 10:45:45 CPU Time: 0 0: 2:58.35 ( 178.35 sec) Binary  
2515 Time Step No. = 560 Elapsed Time = 6.677868E+04 days  
2516 Date: 02/14/07 Time: 10:45:56 CPU Time: 0 0: 3: 9.78 ( 189.78 sec) Binary  
2518 Time Step No. = 580 Elapsed Time = 7.749503E+04 days  
2519 Date: 02/14/07 Time: 10:46:05 CPU Time: 0 0: 3:18.94 ( 198.94 sec) Binary  
2521 Time Step No. = 600 Elapsed Time = 8.560082E+04 days  
2522 Date: 02/14/07 Time: 10:46:19 CPU Time: 0 0: 3:32.60 ( 212.60 sec) Binary  
2524 Time Step No. = 620 Elapsed Time = 8.561748E+04 days  
2525 Date: 02/14/07 Time: 10:46:24 CPU Time: 0 0: 3:37.26 ( 217.26 sec) Binary  
2527 Time Step No. = 640 Elapsed Time = 8.706305E+04 days  
2528 Date: 02/14/07 Time: 10:46:30 CPU Time: 0 0: 3:43.22 ( 223.22 sec) Binary  
2530 Time Step No. = 660 Elapsed Time = 8.948916E+04 days  
2531 Date: 02/14/07 Time: 10:46:38 CPU Time: 0 0: 3:51.66 ( 231.66 sec) Binary  
2533 Time Step No. = 680 Elapsed Time = 1.244434E+05 days  
2534 Date: 02/14/07 Time: 10:46:50 CPU Time: 0 0: 4: 3.76 ( 243.76 sec) Binary  
2536 Time Step No. = 700 Elapsed Time = 1.293962E+05 days  
2537 Date: 02/14/07 Time: 10:47:02 CPU Time: 0 0: 4:15.45 ( 255.45 sec) Binary  
2539 Time Step No. = 720 Elapsed Time = 2.352116E+05 days  
2540 Date: 02/14/07 Time: 10:47:13 CPU Time: 0 0: 4:25.93 ( 265.93 sec) Binary  
2542 Time Step No. = 740 Elapsed Time = 2.631586E+05 days  
2543 Date: 02/14/07 Time: 10:47:27 CPU Time: 0 0: 4:39.73 ( 279.73 sec) Binary  
2545 Time Step No. = 760 Elapsed Time = 2.692618E+05 days  
2546 Date: 02/14/07 Time: 10:47:35 CPU Time: 0 0: 4:48.54 ( 288.54 sec) Binary  
2548 Time Step No. = 780 Elapsed Time = 3.652431E+05 days  
2549 Date: 02/14/07 Time: 10:47:48 CPU Time: 0 0: 5: 1.31 ( 301.31 sec) Binary  
2551 Time Step No. = 800 Elapsed Time = 3.652437E+05 days  
2552 Date: 02/14/07 Time: 10:47:53 CPU Time: 0 0: 5: 5.65 ( 305.65 sec) Binary  
2554 Time Step No. = 820 Elapsed Time = 3.652474E+05 days  
2555 Date: 02/14/07 Time: 10:48:00 CPU Time: 0 0: 5:13.29 ( 313.29 sec) Binary  
2557 Time Step No. = 840 Elapsed Time = 3.654644E+05 days
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2558 Date: 02/14/07 Time: 10:48:09 CPU Time: 0 0: 5:21.78 (321.78 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 3.661978E+05 days
2561 Date: 02/14/07 Time: 10:48:21 CPU Time: 0 0: 5:33.87 (333.87 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 3.665118E+05 days
2564 Date: 02/14/07 Time: 10:48:29 CPU Time: 0 0: 5:41.68 (341.68 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 3.665161E+05 days
2567 Date: 02/14/07 Time: 10:48:32 CPU Time: 0 0: 5:44.64 (344.64 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 3.666517E+05 days
2570 Date: 02/14/07 Time: 10:48:39 CPU Time: 0 0: 5:52.14 (352.14 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 3.669134E+05 days
2573 Date: 02/14/07 Time: 10:48:49 CPU Time: 0 0: 6: 2.28 (362.28 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 3.696042E+05 days
2576 Date: 02/14/07 Time: 10:49:01 CPU Time: 0 0: 6:13.42 (373.42 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 3.704084E+05 days
2579 Date: 02/14/07 Time: 10:49:11 CPU Time: 0 0: 6:23.26 (383.26 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 3.707712E+05 days
2582 Date: 02/14/07 Time: 10:49:20 CPU Time: 0 0: 6:32.88 (392.88 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 3.722262E+05 days
2585 Date: 02/14/07 Time: 10:49:29 CPU Time: 0 0: 6:41.49 (401.49 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 3.909424E+05 days
2588 Date: 02/14/07 Time: 10:49:41 CPU Time: 0 0: 6:53.57 (413.57 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 4.040932E+05 days
2591 Date: 02/14/07 Time: 10:49:48 CPU Time: 0 0: 7: 0.40 (420.40 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 4.163997E+05 days
2594 Date: 02/14/07 Time: 10:50:00 CPU Time: 0 0: 7:12.50 (432.50 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 4.437624E+05 days
2597 Date: 02/14/07 Time: 10:50:07 CPU Time: 0 0: 7:19.63 (439.63 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 5.658621E+05 days
2600 Date: 02/14/07 Time: 10:50:18 CPU Time: 0 0: 7:30.39 (450.39 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 7.046705E+05 days
2603 Date: 02/14/07 Time: 10:50:28 CPU Time: 0 0: 7:40.86 (460.86 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 7.381612E+05 days
2606 Date: 02/14/07 Time: 10:50:35 CPU Time: 0 0: 7:47.91 (467.91 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 9.116476E+05 days
2609 Date: 02/14/07 Time: 10:50:48 CPU Time: 0 0: 8: 0.43 (480.43 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 9.684741E+05 days
2612 Date: 02/14/07 Time: 10:51:00 CPU Time: 0 0: 8:12.31 (492.31 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 1.022758E+06 days
2615 Date: 02/14/07 Time: 10:51:10 CPU Time: 0 0: 8:22.63 (502.63 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 1.304477E+06 days
2618 Date: 02/14/07 Time: 10:51:21 CPU Time: 0 0: 8:33.97 (513.97 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 1.335824E+06 days
2621 Date: 02/14/07 Time: 10:51:31 CPU Time: 0 0: 8:44.01 (524.01 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 1.393919E+06 days
2624 Date: 02/14/07 Time: 10:51:44 CPU Time: 0 0: 8:56.54 (536.54 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 1.425600E+06 days
2627 Date: 02/14/07 Time: 10:51:57 CPU Time: 0 0: 9: 8.99 (548.99 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 1.580399E+06 days
2630 Date: 02/14/07 Time: 10:52:08 CPU Time: 0 0: 9:20.68 (560.68 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 1.602750E+06 days
2633 Date: 02/14/07 Time: 10:52:19 CPU Time: 0 0: 9:30.92 (570.92 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 1.806216E+06 days
2636 Date: 02/14/07 Time: 10:52:30 CPU Time: 0 0: 9:42.21 (582.21 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 1.891443E+06 days
2639 Date: 02/14/07 Time: 10:52:39 CPU Time: 0 0: 9:51.58 (591.58 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 2.031879E+06 days
2642 Date: 02/14/07 Time: 10:52:53 CPU Time: 0 0:10: 5.18 (605.18 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 2.100194E+06 days
2645 Date: 02/14/07 Time: 10:53:00 CPU Time: 0 0:10:12.10 (612.10 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 2.116698E+06 days
2648 Date: 02/14/07 Time: 10:53:13 CPU Time: 0 0:10:24.86 (624.86 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 2.134148E+06 days
2651 Date: 02/14/07 Time: 10:53:25 CPU Time: 0 0:10:37.13 (637.13 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 2.145128E+06 days
2654 Date: 02/14/07 Time: 10:53:37 CPU Time: 0 0:10:48.85 (648.85 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 2.174866E+06 days
2657 Date: 02/14/07 Time: 10:53:47 CPU Time: 0 0:10:59.07 (659.07 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 2.195982E+06 days
2660 Date: 02/14/07 Time: 10:53:57 CPU Time: 0 0:11: 8.69 (668.69 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 2.260984E+06 days
2663 Date: 02/14/07 Time: 10:54:08 CPU Time: 0 0:11:20.30 (680.30 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 2.301705E+06 days
2666 Date: 02/14/07 Time: 10:54:18 CPU Time: 0 0:11:29.99 (689.99 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 2.432519E+06 days
2669 Date: 02/14/07 Time: 10:54:28 CPU Time: 0 0:11:40.09 (700.09 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 2.435587E+06 days

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2672 Date: 02/14/07 Time: 10:54:40 CPU Time: 0 0:11:51.96 ( 711.96 sec) Binary
2674 Time Step No. = 1620 Elapsed Time = 2.463476E+06 days
2675 Date: 02/14/07 Time: 10:54:46 CPU Time: 0 0:11:57.90 ( 717.90 sec) Binary
2677 Time Step No. = 1640 Elapsed Time = 2.821366E+06 days
2678 Date: 02/14/07 Time: 10:54:54 CPU Time: 0 0:12: 5.40 ( 725.40 sec) Binary
2680 Time Step No. = 1660 Elapsed Time = 2.999402E+06 days
2681 Date: 02/14/07 Time: 10:55:05 CPU Time: 0 0:12:16.87 ( 736.87 sec) Binary
2683 Time Step No. = 1680 Elapsed Time = 3.399402E+06 days
2684 Date: 02/14/07 Time: 10:55:12 CPU Time: 0 0:12:24.06 ( 744.06 sec) Binary
2686 Time Step No. = 1700 Elapsed Time = 3.449911E+06 days
2687 Date: 02/14/07 Time: 10:55:31 CPU Time: 0 0:12:42.61 ( 762.61 sec) Binary
2689 Time Step No. = 1720 Elapsed Time = 3.453010E+06 days
2690 Date: 02/14/07 Time: 10:55:45 CPU Time: 0 0:12:56.38 ( 776.38 sec) Binary
2692 Time Step No. = 1740 Elapsed Time = 3.454154E+06 days
2693 Date: 02/14/07 Time: 10:55:53 CPU Time: 0 0:13: 3.95 ( 783.95 sec) Binary
2695 Time Step No. = 1760 Elapsed Time = 3.456469E+06 days
2696 Date: 02/14/07 Time: 10:56:04 CPU Time: 0 0:13:15.41 ( 795.41 sec) Binary
2698 Time Step No. = 1780 Elapsed Time = 3.459213E+06 days
2699 Date: 02/14/07 Time: 10:56:15 CPU Time: 0 0:13:26.68 ( 806.68 sec) Binary
2701 Time Step No. = 1800 Elapsed Time = 3.461847E+06 days
2702 Date: 02/14/07 Time: 10:56:25 CPU Time: 0 0:13:36.68 ( 816.68 sec) Binary
2704 Time Step No. = 1820 Elapsed Time = 3.465426E+06 days
2705 Date: 02/14/07 Time: 10:56:36 CPU Time: 0 0:13:47.69 ( 827.69 sec) Binary
2707 Time Step No. = 1840 Elapsed Time = 3.468037E+06 days
2708 Date: 02/14/07 Time: 10:56:49 CPU Time: 0 0:14: 0.64 ( 840.64 sec) Binary
2710 Time Step No. = 1860 Elapsed Time = 3.471327E+06 days
2711 Date: 02/14/07 Time: 10:57:02 CPU Time: 0 0:14:12.92 ( 852.92 sec) Binary
2713 Time Step No. = 1880 Elapsed Time = 3.473863E+06 days
2714 Date: 02/14/07 Time: 10:57:14 CPU Time: 0 0:14:24.98 ( 864.98 sec) Binary
2716 Time Step No. = 1900 Elapsed Time = 3.477561E+06 days
2717 Date: 02/14/07 Time: 10:57:27 CPU Time: 0 0:14:38.33 ( 878.33 sec) Binary
2719 Time Step No. = 1920 Elapsed Time = 3.480469E+06 days
2720 Date: 02/14/07 Time: 10:57:40 CPU Time: 0 0:14:51.22 ( 891.22 sec) Binary
2722 Time Step No. = 1940 Elapsed Time = 3.484165E+06 days
2723 Date: 02/14/07 Time: 10:57:52 CPU Time: 0 0:15: 3.14 ( 903.14 sec) Binary
2725 Time Step No. = 1960 Elapsed Time = 3.553867E+06 days
2726 Date: 02/14/07 Time: 10:57:59 CPU Time: 0 0:15: 9.69 ( 909.69 sec) Binary
2729 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
2450 Date: 02/14/07 Time: 09:45:06 CPU Time: 0 0: 0:25.49 ( 25.49 sec) ASCII
2452 Time Step No. = 155 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:45:06 CPU Time: 0 0: 0:25.50 ( 25.50 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 1.602936E-04 days
2456 Date: 02/14/07 Time: 09:45:07 CPU Time: 0 0: 0:27.35 ( 27.35 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 2.060139E-02 days
2459 Date: 02/14/07 Time: 09:45:11 CPU Time: 0 0: 0:30.48 ( 30.48 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 1.665882E+00 days
2462 Date: 02/14/07 Time: 09:45:14 CPU Time: 0 0: 0:33.96 ( 33.96 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 6.830542E+01 days
2465 Date: 02/14/07 Time: 09:45:18 CPU Time: 0 0: 0:37.78 ( 37.78 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 9.026859E+02 days
2468 Date: 02/14/07 Time: 09:45:23 CPU Time: 0 0: 0:43.13 ( 43.13 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 5.565489E+03 days
2471 Date: 02/14/07 Time: 09:45:30 CPU Time: 0 0: 0:49.76 ( 49.76 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 1.541474E+04 days
2474 Date: 02/14/07 Time: 09:45:39 CPU Time: 0 0: 0:58.84 ( 58.84 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 2.464433E+04 days
2477 Date: 02/14/07 Time: 09:45:47 CPU Time: 0 0: 1: 6.56 ( 66.56 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 2.540653E+04 days
2480 Date: 02/14/07 Time: 09:45:54 CPU Time: 0 0: 1:13.95 ( 73.95 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 2.583713E+04 days
2483 Date: 02/14/07 Time: 09:45:58 CPU Time: 0 0: 1:17.79 ( 77.79 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 3.095805E+04 days
2486 Date: 02/14/07 Time: 09:46:06 CPU Time: 0 0: 1:25.40 ( 85.40 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 3.652922E+04 days
2489 Date: 02/14/07 Time: 09:46:15 CPU Time: 0 0: 1:34.85 ( 94.85 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 3.666828E+04 days
2492 Date: 02/14/07 Time: 09:46:19 CPU Time: 0 0: 1:39.07 ( 99.07 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 3.667257E+04 days
2495 Date: 02/14/07 Time: 09:46:21 CPU Time: 0 0: 1:40.93 ( 100.93 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 3.689196E+04 days
2498 Date: 02/14/07 Time: 09:46:25 CPU Time: 0 0: 1:45.02 ( 105.02 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 3.751198E+04 days
2501 Date: 02/14/07 Time: 09:46:31 CPU Time: 0 0: 1:50.87 ( 110.87 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 3.782453E+04 days
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2504 Date: 02/14/07 Time: 09:46:35 CPU Time: 0 0: 1:54.50 (114.50 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 4.141513E+04 days
2507 Date: 02/14/07 Time: 09:46:42 CPU Time: 0 0: 2: 1.30 (121.30 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 5.494758E+04 days
2510 Date: 02/14/07 Time: 09:46:51 CPU Time: 0 0: 2:10.13 (130.13 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 5.880383E+04 days
2513 Date: 02/14/07 Time: 09:46:58 CPU Time: 0 0: 2:17.84 (137.84 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 6.677868E+04 days
2516 Date: 02/14/07 Time: 09:47:07 CPU Time: 0 0: 2:26.79 (146.79 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 7.749503E+04 days
2519 Date: 02/14/07 Time: 09:47:14 CPU Time: 0 0: 2:33.96 (153.96 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 8.560082E+04 days
2522 Date: 02/14/07 Time: 09:47:25 CPU Time: 0 0: 2:44.64 (164.64 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 8.561748E+04 days
2525 Date: 02/14/07 Time: 09:47:29 CPU Time: 0 0: 2:48.16 (168.16 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 8.706305E+04 days
2528 Date: 02/14/07 Time: 09:47:33 CPU Time: 0 0: 2:52.72 (172.72 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 8.948916E+04 days
2531 Date: 02/14/07 Time: 09:47:40 CPU Time: 0 0: 2:58.99 (178.99 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 1.244434E+05 days
2534 Date: 02/14/07 Time: 09:47:49 CPU Time: 0 0: 3: 8.21 (188.21 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 1.293962E+05 days
2537 Date: 02/14/07 Time: 09:47:58 CPU Time: 0 0: 3:17.38 (197.38 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 2.352116E+05 days
2540 Date: 02/14/07 Time: 09:48:06 CPU Time: 0 0: 3:25.58 (205.58 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 2.631586E+05 days
2543 Date: 02/14/07 Time: 09:48:17 CPU Time: 0 0: 3:36.36 (216.36 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 2.692618E+05 days
2546 Date: 02/14/07 Time: 09:48:24 CPU Time: 0 0: 3:43.24 (223.24 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.652431E+05 days
2549 Date: 02/14/07 Time: 09:48:34 CPU Time: 0 0: 3:53.23 (233.23 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.652437E+05 days
2552 Date: 02/14/07 Time: 09:48:37 CPU Time: 0 0: 3:56.50 (236.50 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 3.652474E+05 days
2555 Date: 02/14/07 Time: 09:48:43 CPU Time: 0 0: 4: 2.16 (242.16 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 3.654644E+05 days
2558 Date: 02/14/07 Time: 09:48:49 CPU Time: 0 0: 4: 8.40 (248.40 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 3.661978E+05 days
2561 Date: 02/14/07 Time: 09:48:58 CPU Time: 0 0: 4:17.21 (257.21 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 3.665118E+05 days
2564 Date: 02/14/07 Time: 09:49:04 CPU Time: 0 0: 4:22.90 (262.90 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 3.665161E+05 days
2567 Date: 02/14/07 Time: 09:49:06 CPU Time: 0 0: 4:25.15 (265.15 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 3.666517E+05 days
2570 Date: 02/14/07 Time: 09:49:12 CPU Time: 0 0: 4:30.82 (270.82 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 3.669134E+05 days
2573 Date: 02/14/07 Time: 09:49:19 CPU Time: 0 0: 4:38.50 (278.50 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 3.696042E+05 days
2576 Date: 02/14/07 Time: 09:49:28 CPU Time: 0 0: 4:47.16 (287.16 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 3.704084E+05 days
2579 Date: 02/14/07 Time: 09:49:36 CPU Time: 0 0: 4:54.86 (294.86 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 3.707712E+05 days
2582 Date: 02/14/07 Time: 09:49:43 CPU Time: 0 0: 5: 2.35 (302.35 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 3.722262E+05 days
2585 Date: 02/14/07 Time: 09:49:50 CPU Time: 0 0: 5: 9.10 (309.10 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 3.909424E+05 days
2588 Date: 02/14/07 Time: 09:50:00 CPU Time: 0 0: 5:18.53 (318.53 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 4.040932E+05 days
2591 Date: 02/14/07 Time: 09:50:05 CPU Time: 0 0: 5:23.87 (323.87 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 4.163997E+05 days
2594 Date: 02/14/07 Time: 09:50:14 CPU Time: 0 0: 5:33.29 (333.29 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 4.437624E+05 days
2597 Date: 02/14/07 Time: 09:50:20 CPU Time: 0 0: 5:38.85 (338.85 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 5.658621E+05 days
2600 Date: 02/14/07 Time: 09:50:28 CPU Time: 0 0: 5:47.25 (347.25 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 7.046705E+05 days
2603 Date: 02/14/07 Time: 09:50:36 CPU Time: 0 0: 5:55.37 (355.37 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 7.381612E+05 days
2606 Date: 02/14/07 Time: 09:50:42 CPU Time: 0 0: 6: 0.84 (360.84 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 9.116476E+05 days
2609 Date: 02/14/07 Time: 09:50:52 CPU Time: 0 0: 6:10.55 (370.55 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 9.684741E+05 days
2612 Date: 02/14/07 Time: 09:51:01 CPU Time: 0 0: 6:19.69 (379.69 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 1.022758E+06 days
2615 Date: 02/14/07 Time: 09:51:09 CPU Time: 0 0: 6:27.75 (387.75 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 1.304477E+06 days

2618 Date: 02/14/07 Time: 09:51:18 CPU Time: 0 0: 6:36.54 (396.54 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 1.335824E+06 days
2621 Date: 02/14/07 Time: 09:51:26 CPU Time: 0 0: 6:44.37 (404.37 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 1.393919E+06 days
2624 Date: 02/14/07 Time: 09:51:35 CPU Time: 0 0: 6:54.16 (414.16 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 1.425600E+06 days
2627 Date: 02/14/07 Time: 09:51:45 CPU Time: 0 0: 7: 3.87 (423.87 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 1.580399E+06 days
2630 Date: 02/14/07 Time: 09:51:54 CPU Time: 0 0: 7:12.96 (432.96 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 1.602750E+06 days
2633 Date: 02/14/07 Time: 09:52:02 CPU Time: 0 0: 7:20.92 (440.92 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 1.806216E+06 days
2636 Date: 02/14/07 Time: 09:52:11 CPU Time: 0 0: 7:29.74 (449.74 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 1.891443E+06 days
2639 Date: 02/14/07 Time: 09:52:18 CPU Time: 0 0: 7:37.11 (457.11 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 2.031879E+06 days
2642 Date: 02/14/07 Time: 09:52:29 CPU Time: 0 0: 7:47.71 (467.71 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 2.100194E+06 days
2645 Date: 02/14/07 Time: 09:52:34 CPU Time: 0 0: 7:53.12 (473.12 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 2.116698E+06 days
2648 Date: 02/14/07 Time: 09:52:44 CPU Time: 0 0: 8: 3.02 (483.02 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 2.134148E+06 days
2651 Date: 02/14/07 Time: 09:52:54 CPU Time: 0 0: 8:12.59 (492.59 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 2.145128E+06 days
2654 Date: 02/14/07 Time: 09:53:03 CPU Time: 0 0: 8:21.75 (501.75 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 2.174866E+06 days
2657 Date: 02/14/07 Time: 09:53:11 CPU Time: 0 0: 8:29.74 (509.74 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 2.195982E+06 days
2660 Date: 02/14/07 Time: 09:53:19 CPU Time: 0 0: 8:37.16 (517.16 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 2.260984E+06 days
2663 Date: 02/14/07 Time: 09:53:27 CPU Time: 0 0: 8:46.04 (526.04 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 2.301705E+06 days
2666 Date: 02/14/07 Time: 09:53:34 CPU Time: 0 0: 8:53.11 (533.11 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 2.432519E+06 days
2669 Date: 02/14/07 Time: 09:53:42 CPU Time: 0 0: 9: 0.50 (540.50 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 2.435587E+06 days
2672 Date: 02/14/07 Time: 09:53:51 CPU Time: 0 0: 9: 9.17 (549.17 sec) Binary
2674 Time Step No. = 1620 Elapsed Time = 2.463476E+06 days
2675 Date: 02/14/07 Time: 09:53:55 CPU Time: 0 0: 9:13.49 (553.49 sec) Binary
2677 Time Step No. = 1640 Elapsed Time = 2.821366E+06 days
2678 Date: 02/14/07 Time: 09:54:01 CPU Time: 0 0: 9:19.25 (559.25 sec) Binary
2680 Time Step No. = 1660 Elapsed Time = 2.999402E+06 days
2681 Date: 02/14/07 Time: 09:54:09 CPU Time: 0 0: 9:27.97 (567.97 sec) Binary
2683 Time Step No. = 1680 Elapsed Time = 3.399402E+06 days
2684 Date: 02/14/07 Time: 09:54:15 CPU Time: 0 0: 9:33.22 (573.22 sec) Binary
2686 Time Step No. = 1700 Elapsed Time = 3.449911E+06 days
2687 Date: 02/14/07 Time: 09:54:28 CPU Time: 0 0: 9:46.68 (586.68 sec) Binary
2689 Time Step No. = 1720 Elapsed Time = 3.453010E+06 days
2690 Date: 02/14/07 Time: 09:54:38 CPU Time: 0 0: 9:56.65 (596.65 sec) Binary
2692 Time Step No. = 1740 Elapsed Time = 3.454154E+06 days
2693 Date: 02/14/07 Time: 09:54:44 CPU Time: 0 0:10: 2.16 (602.16 sec) Binary
2695 Time Step No. = 1760 Elapsed Time = 3.456469E+06 days
2696 Date: 02/14/07 Time: 09:54:52 CPU Time: 0 0:10:10.52 (610.52 sec) Binary
2698 Time Step No. = 1780 Elapsed Time = 3.459213E+06 days
2699 Date: 02/14/07 Time: 09:55:00 CPU Time: 0 0:10:18.75 (618.75 sec) Binary
2701 Time Step No. = 1800 Elapsed Time = 3.461847E+06 days
2702 Date: 02/14/07 Time: 09:55:08 CPU Time: 0 0:10:26.21 (626.21 sec) Binary
2704 Time Step No. = 1820 Elapsed Time = 3.465426E+06 days
2705 Date: 02/14/07 Time: 09:55:16 CPU Time: 0 0:10:34.59 (634.59 sec) Binary
2707 Time Step No. = 1840 Elapsed Time = 3.468037E+06 days
2708 Date: 02/14/07 Time: 09:55:26 CPU Time: 0 0:10:44.40 (644.40 sec) Binary
2710 Time Step No. = 1860 Elapsed Time = 3.471327E+06 days
2711 Date: 02/14/07 Time: 09:55:35 CPU Time: 0 0:10:53.66 (653.66 sec) Binary
2713 Time Step No. = 1880 Elapsed Time = 3.473863E+06 days
2714 Date: 02/14/07 Time: 09:55:44 CPU Time: 0 0:11: 2.79 (662.79 sec) Binary
2716 Time Step No. = 1900 Elapsed Time = 3.477561E+06 days
2717 Date: 02/14/07 Time: 09:55:55 CPU Time: 0 0:11:12.94 (672.94 sec) Binary
2719 Time Step No. = 1920 Elapsed Time = 3.480469E+06 days
2720 Date: 02/14/07 Time: 09:56:04 CPU Time: 0 0:11:22.75 (682.75 sec) Binary
2722 Time Step No. = 1940 Elapsed Time = 3.484165E+06 days
2723 Date: 02/14/07 Time: 09:56:13 CPU Time: 0 0:11:31.45 (691.45 sec) Binary
2725 Time Step No. = 1960 Elapsed Time = 3.553867E+06 days
2726 Date: 02/14/07 Time: 09:56:18 CPU Time: 0 0:11:36.25 (696.25 sec) Binary
2729 Restart information has been written to I/O unit 2 in DISKW, file name:


```
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
2745 CPU Time (this time step) = 0.18 sec = 0.00005 hr
2746 CPU Time (total for run) = 911.23 sec = 0.25312 hr
2747 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
2745 CPU Time (this time step) = 0.13 sec = 0.00004 hr
2746 CPU Time (total for run) = 697.37 sec = 0.19371 hr
2747 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
3423 Date: 02/14/07 Time: 10:58:00 CPU Time: 0 0:15:11.26 ( 911.26 sec) ASCII
3425 Time Step No. = 1966 Elapsed Time = 3.652431E+06 days
3426 Date: 02/14/07 Time: 10:58:00 CPU Time: 0 0:15:11.27 ( 911.27 sec) Binary
3431 *****
3432 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3433 * Completed: 02/14/07 at 10:58:00 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
3434 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
3423 Date: 02/14/07 Time: 09:56:19 CPU Time: 0 0:11:37.39 ( 697.39 sec) ASCII
3425 Time Step No. = 1966 Elapsed Time = 3.652431E+06 days
3426 Date: 02/14/07 Time: 09:56:19 CPU Time: 0 0:11:37.39 ( 697.39 sec) Binary
3431 *****
3432 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3433 * Completed: 02/14/07 at 09:56:19 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3434 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 202

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
```

BF2_QB0600_ES40_TEST7_V006_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
3 ** Begun on: 02/14/07 at 10:43:40 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
3 ** Begun on: 02/14/07 at 09:45:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_TEST7_V006.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
```

```
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
1772 CPU Time (this time step) = 0.17 sec = 0.00005 hr
1773 CPU Time (total for run) = 36.38 sec = 0.01011 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
1772 CPU Time (this time step) = 0.14 sec = 0.00004 hr
1773 CPU Time (total for run) = 28.24 sec = 0.00784 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
2450 Date: 02/14/07 Time: 10:44:17 CPU Time: 0 0: 0:36.41 ( 36.41 sec) ASCII
2452 Time Step No. = 148 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:44:17 CPU Time: 0 0: 0:36.41 ( 36.41 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 1.693989E-02 days
2456 Date: 02/14/07 Time: 10:44:23 CPU Time: 0 0: 0:42.66 ( 42.66 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 1.499754E+00 days
2459 Date: 02/14/07 Time: 10:44:28 CPU Time: 0 0: 0:47.44 ( 47.44 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 6.033075E+01 days
2462 Date: 02/14/07 Time: 10:44:33 CPU Time: 0 0: 0:52.57 ( 52.57 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 2.893437E+02 days
2465 Date: 02/14/07 Time: 10:44:39 CPU Time: 0 0: 0:58.78 ( 58.78 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 1.396859E+03 days
2468 Date: 02/14/07 Time: 10:44:46 CPU Time: 0 0: 1: 5.62 ( 65.62 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 8.613100E+03 days
2471 Date: 02/14/07 Time: 10:44:55 CPU Time: 0 0: 1:14.44 ( 74.44 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 1.102377E+04 days
2474 Date: 02/14/07 Time: 10:45:00 CPU Time: 0 0: 1:19.56 ( 79.56 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 2.378052E+04 days
2477 Date: 02/14/07 Time: 10:45:09 CPU Time: 0 0: 1:28.79 ( 88.79 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 2.835195E+04 days
2480 Date: 02/14/07 Time: 10:45:16 CPU Time: 0 0: 1:35.62 ( 95.62 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2483 Date: 02/14/07 Time: 10:45:31 CPU Time: 0 0: 1:50.50 ( 110.50 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 3.652432E+04 days
2486 Date: 02/14/07 Time: 10:45:36 CPU Time: 0 0: 1:54.87 ( 114.87 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 3.652571E+04 days
2489 Date: 02/14/07 Time: 10:45:40 CPU Time: 0 0: 1:58.74 ( 118.74 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 3.660922E+04 days
2492 Date: 02/14/07 Time: 10:45:46 CPU Time: 0 0: 2: 5.32 ( 125.32 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 3.666204E+04 days
2495 Date: 02/14/07 Time: 10:45:49 CPU Time: 0 0: 2: 7.83 ( 127.83 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 3.681434E+04 days
2498 Date: 02/14/07 Time: 10:45:53 CPU Time: 0 0: 2:12.15 ( 132.15 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 4.034225E+04 days
```

2501 Date: 02/14/07 Time: 10:46:00 CPU Time: 0 0: 2:18.64 (138.64 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 1.114354E+05 days
2504 Date: 02/14/07 Time: 10:46:09 CPU Time: 0 0: 2:28.09 (148.09 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 1.517026E+05 days
2507 Date: 02/14/07 Time: 10:46:24 CPU Time: 0 0: 2:43.51 (163.51 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 1.887778E+05 days
2510 Date: 02/14/07 Time: 10:46:36 CPU Time: 0 0: 2:54.74 (174.74 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 2.709363E+05 days
2513 Date: 02/14/07 Time: 10:46:49 CPU Time: 0 0: 3: 7.87 (187.87 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 3.652431E+05 days
2516 Date: 02/14/07 Time: 10:47:02 CPU Time: 0 0: 3:20.94 (200.94 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 3.657082E+05 days
2519 Date: 02/14/07 Time: 10:47:08 CPU Time: 0 0: 3:26.52 (206.52 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 3.665648E+05 days
2522 Date: 02/14/07 Time: 10:47:12 CPU Time: 0 0: 3:30.75 (210.75 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 3.666428E+05 days
2525 Date: 02/14/07 Time: 10:47:15 CPU Time: 0 0: 3:33.81 (213.81 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 3.734062E+05 days
2528 Date: 02/14/07 Time: 10:47:21 CPU Time: 0 0: 3:40.36 (220.36 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 4.270734E+05 days
2531 Date: 02/14/07 Time: 10:47:33 CPU Time: 0 0: 3:52.00 (232.00 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 4.797087E+05 days
2534 Date: 02/14/07 Time: 10:47:48 CPU Time: 0 0: 4: 6.64 (246.64 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 4.872588E+05 days
2537 Date: 02/14/07 Time: 10:47:54 CPU Time: 0 0: 4:12.70 (252.70 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 5.487048E+05 days
2540 Date: 02/14/07 Time: 10:48:05 CPU Time: 0 0: 4:23.54 (263.54 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 6.367867E+05 days
2543 Date: 02/14/07 Time: 10:48:16 CPU Time: 0 0: 4:34.65 (274.65 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 7.447857E+05 days
2546 Date: 02/14/07 Time: 10:48:28 CPU Time: 0 0: 4:46.92 (286.92 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 9.573700E+05 days
2549 Date: 02/14/07 Time: 10:48:39 CPU Time: 0 0: 4:58.10 (298.10 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 1.131770E+06 days
2552 Date: 02/14/07 Time: 10:48:49 CPU Time: 0 0: 5: 7.75 (307.75 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 1.215464E+06 days
2555 Date: 02/14/07 Time: 10:49:01 CPU Time: 0 0: 5:20.18 (320.18 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 1.307642E+06 days
2558 Date: 02/14/07 Time: 10:49:12 CPU Time: 0 0: 5:30.29 (330.29 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 1.331147E+06 days
2561 Date: 02/14/07 Time: 10:49:21 CPU Time: 0 0: 5:39.40 (339.40 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 1.340543E+06 days
2564 Date: 02/14/07 Time: 10:49:29 CPU Time: 0 0: 5:47.83 (347.83 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 1.361885E+06 days
2567 Date: 02/14/07 Time: 10:49:36 CPU Time: 0 0: 5:54.81 (354.81 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 1.389921E+06 days
2570 Date: 02/14/07 Time: 10:49:49 CPU Time: 0 0: 6: 8.13 (368.13 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 1.395803E+06 days
2573 Date: 02/14/07 Time: 10:49:56 CPU Time: 0 0: 6:14.79 (374.79 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 1.396248E+06 days
2576 Date: 02/14/07 Time: 10:50:07 CPU Time: 0 0: 6:25.53 (385.53 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 1.400907E+06 days
2579 Date: 02/14/07 Time: 10:50:17 CPU Time: 0 0: 6:35.98 (395.98 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 1.401669E+06 days
2582 Date: 02/14/07 Time: 10:50:22 CPU Time: 0 0: 6:41.01 (401.01 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 1.452402E+06 days
2585 Date: 02/14/07 Time: 10:50:31 CPU Time: 0 0: 6:49.91 (409.91 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 1.481180E+06 days
2588 Date: 02/14/07 Time: 10:50:40 CPU Time: 0 0: 6:58.32 (418.32 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 1.516157E+06 days
2591 Date: 02/14/07 Time: 10:50:50 CPU Time: 0 0: 7: 8.15 (428.15 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 1.536729E+06 days
2594 Date: 02/14/07 Time: 10:50:56 CPU Time: 0 0: 7:14.58 (434.58 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 1.558583E+06 days
2597 Date: 02/14/07 Time: 10:51:08 CPU Time: 0 0: 7:26.96 (446.96 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 1.568030E+06 days
2600 Date: 02/14/07 Time: 10:51:14 CPU Time: 0 0: 7:32.80 (452.80 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 1.569625E+06 days
2603 Date: 02/14/07 Time: 10:51:23 CPU Time: 0 0: 7:40.99 (460.99 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 1.586975E+06 days
2606 Date: 02/14/07 Time: 10:51:29 CPU Time: 0 0: 7:47.26 (467.26 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 1.778016E+06 days
2609 Date: 02/14/07 Time: 10:51:41 CPU Time: 0 0: 7:58.89 (478.89 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 1.851752E+06 days
2612 Date: 02/14/07 Time: 10:51:54 CPU Time: 0 0: 8:12.59 (492.59 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 1.872533E+06 days

2615 Date: 02/14/07 Time: 10:52:02 CPU Time: 0 0: 8:20.33 (500.33 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 2.047943E+06 days
2618 Date: 02/14/07 Time: 10:52:15 CPU Time: 0 0: 8:33.54 (513.54 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 2.192064E+06 days
2621 Date: 02/14/07 Time: 10:52:27 CPU Time: 0 0: 8:45.42 (525.42 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 2.209031E+06 days
2624 Date: 02/14/07 Time: 10:52:37 CPU Time: 0 0: 8:54.95 (534.95 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 2.228198E+06 days
2627 Date: 02/14/07 Time: 10:52:46 CPU Time: 0 0: 9: 4.18 (544.18 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 2.477165E+06 days
2630 Date: 02/14/07 Time: 10:52:58 CPU Time: 0 0: 9:16.16 (556.16 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 2.582796E+06 days
2633 Date: 02/14/07 Time: 10:53:15 CPU Time: 0 0: 9:32.81 (572.81 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 2.658805E+06 days
2636 Date: 02/14/07 Time: 10:53:21 CPU Time: 0 0: 9:39.66 (579.66 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 2.660777E+06 days
2639 Date: 02/14/07 Time: 10:53:29 CPU Time: 0 0: 9:47.51 (587.51 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 2.694236E+06 days
2642 Date: 02/14/07 Time: 10:53:37 CPU Time: 0 0: 9:55.24 (595.24 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 2.897354E+06 days
2645 Date: 02/14/07 Time: 10:53:49 CPU Time: 0 0:10: 6.87 (606.87 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 3.068770E+06 days
2648 Date: 02/14/07 Time: 10:53:59 CPU Time: 0 0:10:17.40 (617.40 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 3.070972E+06 days
2651 Date: 02/14/07 Time: 10:54:07 CPU Time: 0 0:10:25.62 (625.62 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 3.092364E+06 days
2654 Date: 02/14/07 Time: 10:54:14 CPU Time: 0 0:10:32.38 (632.38 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 3.321015E+06 days
2657 Date: 02/14/07 Time: 10:54:25 CPU Time: 0 0:10:42.82 (642.82 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 3.330337E+06 days
2660 Date: 02/14/07 Time: 10:54:36 CPU Time: 0 0:10:53.66 (653.66 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 3.331762E+06 days
2663 Date: 02/14/07 Time: 10:54:43 CPU Time: 0 0:11: 0.99 (660.99 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 3.334405E+06 days
2666 Date: 02/14/07 Time: 10:54:50 CPU Time: 0 0:11: 8.19 (668.19 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 3.374435E+06 days
2669 Date: 02/14/07 Time: 10:55:01 CPU Time: 0 0:11:18.94 (678.94 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 3.552011E+06 days
2672 Date: 02/14/07 Time: 10:55:09 CPU Time: 0 0:11:26.16 (686.16 sec) Binary
2675 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA: [ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TBST7_V006.OUT;1
2450 Date: 02/14/07 Time: 09:45:32 CPU Time: 0 0: 0:28.26 (28.26 sec) ASCII
2452 Time Step No. = 148 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:45:32 CPU Time: 0 0: 0:28.26 (28.26 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 1.693989E-02 days
2456 Date: 02/14/07 Time: 09:45:37 CPU Time: 0 0: 0:33.21 (33.21 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 1.499754E+00 days
2459 Date: 02/14/07 Time: 09:45:41 CPU Time: 0 0: 0:36.96 (36.96 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 6.033075E+01 days
2462 Date: 02/14/07 Time: 09:45:45 CPU Time: 0 0: 0:40.92 (40.92 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 2.893437E+02 days
2465 Date: 02/14/07 Time: 09:45:50 CPU Time: 0 0: 0:45.59 (45.59 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 1.396859E+03 days
2468 Date: 02/14/07 Time: 09:45:55 CPU Time: 0 0: 0:50.76 (50.76 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 8.613100E+03 days
2471 Date: 02/14/07 Time: 09:46:02 CPU Time: 0 0: 0:57.35 (57.35 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 1.102377E+04 days
2474 Date: 02/14/07 Time: 09:46:06 CPU Time: 0 0: 1: 1.27 (61.27 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 2.378052E+04 days
2477 Date: 02/14/07 Time: 09:46:13 CPU Time: 0 0: 1: 8.51 (68.51 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 2.835195E+04 days
2480 Date: 02/14/07 Time: 09:46:18 CPU Time: 0 0: 1:13.81 (73.81 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2483 Date: 02/14/07 Time: 09:46:30 CPU Time: 0 0: 1:25.19 (85.19 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 3.652432E+04 days
2486 Date: 02/14/07 Time: 09:46:33 CPU Time: 0 0: 1:28.54 (88.54 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 3.652571E+04 days
2489 Date: 02/14/07 Time: 09:46:36 CPU Time: 0 0: 1:31.48 (91.48 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 3.660922E+04 days
2492 Date: 02/14/07 Time: 09:46:41 CPU Time: 0 0: 1:36.46 (96.46 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 3.666204E+04 days
2495 Date: 02/14/07 Time: 09:46:43 CPU Time: 0 0: 1:38.36 (98.36 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 3.681434E+04 days
2498 Date: 02/14/07 Time: 09:46:46 CPU Time: 0 0: 1:41.65 (101.65 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 4.034225E+04 days

2501 Date: 02/14/07 Time: 09:46:51 CPU Time: 0 0: 1:46.55 (106.55 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 1.114354E+05 days
2504 Date: 02/14/07 Time: 09:46:58 CPU Time: 0 0: 1:53.67 (113.67 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 1.517026E+05 days
2507 Date: 02/14/07 Time: 09:47:10 CPU Time: 0 0: 2: 5.27 (125.27 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 1.887778E+05 days
2510 Date: 02/14/07 Time: 09:47:19 CPU Time: 0 0: 2:13.77 (133.77 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 2.709363E+05 days
2513 Date: 02/14/07 Time: 09:47:29 CPU Time: 0 0: 2:23.77 (143.77 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 3.652431E+05 days
2516 Date: 02/14/07 Time: 09:47:39 CPU Time: 0 0: 2:33.83 (153.83 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 3.657082E+05 days
2519 Date: 02/14/07 Time: 09:47:43 CPU Time: 0 0: 2:38.11 (158.11 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 3.665648E+05 days
2522 Date: 02/14/07 Time: 09:47:46 CPU Time: 0 0: 2:41.37 (161.37 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 3.666428E+05 days
2525 Date: 02/14/07 Time: 09:47:48 CPU Time: 0 0: 2:43.69 (163.69 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 3.734062E+05 days
2528 Date: 02/14/07 Time: 09:47:53 CPU Time: 0 0: 2:48.61 (168.61 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 4.270734E+05 days
2531 Date: 02/14/07 Time: 09:48:02 CPU Time: 0 0: 2:57.35 (177.35 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 4.797087E+05 days
2534 Date: 02/14/07 Time: 09:48:13 CPU Time: 0 0: 3: 8.33 (188.33 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 4.872588E+05 days
2537 Date: 02/14/07 Time: 09:48:18 CPU Time: 0 0: 3:12.77 (192.77 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 5.487048E+05 days
2540 Date: 02/14/07 Time: 09:48:26 CPU Time: 0 0: 3:20.90 (200.90 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 6.367867E+05 days
2543 Date: 02/14/07 Time: 09:48:34 CPU Time: 0 0: 3:29.25 (209.25 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 7.447857E+05 days
2546 Date: 02/14/07 Time: 09:48:43 CPU Time: 0 0: 3:38.49 (218.49 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 9.573700E+05 days
2549 Date: 02/14/07 Time: 09:48:52 CPU Time: 0 0: 3:46.91 (226.91 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 1.131770E+06 days
2552 Date: 02/14/07 Time: 09:48:59 CPU Time: 0 0: 3:54.11 (234.11 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 1.215464E+06 days
2555 Date: 02/14/07 Time: 09:49:08 CPU Time: 0 0: 4: 3.22 (243.22 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 1.307642E+06 days
2558 Date: 02/14/07 Time: 09:49:16 CPU Time: 0 0: 4:11.03 (251.03 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 1.331147E+06 days
2561 Date: 02/14/07 Time: 09:49:23 CPU Time: 0 0: 4:18.01 (258.01 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 1.340543E+06 days
2564 Date: 02/14/07 Time: 09:49:29 CPU Time: 0 0: 4:24.36 (264.36 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 1.361885E+06 days
2567 Date: 02/14/07 Time: 09:49:35 CPU Time: 0 0: 4:29.62 (269.62 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 1.389921E+06 days
2570 Date: 02/14/07 Time: 09:49:45 CPU Time: 0 0: 4:39.62 (279.62 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 1.395803E+06 days
2573 Date: 02/14/07 Time: 09:49:50 CPU Time: 0 0: 4:44.64 (284.64 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 1.396248E+06 days
2576 Date: 02/14/07 Time: 09:49:58 CPU Time: 0 0: 4:52.67 (292.67 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 1.400907E+06 days
2579 Date: 02/14/07 Time: 09:50:06 CPU Time: 0 0: 5: 0.51 (300.51 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 1.401669E+06 days
2582 Date: 02/14/07 Time: 09:50:10 CPU Time: 0 0: 5: 4.31 (304.31 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 1.452402E+06 days
2585 Date: 02/14/07 Time: 09:50:16 CPU Time: 0 0: 5:11.00 (311.00 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 1.481180E+06 days
2588 Date: 02/14/07 Time: 09:50:23 CPU Time: 0 0: 5:17.36 (317.36 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 1.516157E+06 days
2591 Date: 02/14/07 Time: 09:50:30 CPU Time: 0 0: 5:24.66 (324.66 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 1.536729E+06 days
2594 Date: 02/14/07 Time: 09:50:35 CPU Time: 0 0: 5:29.45 (329.45 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 1.558583E+06 days
2597 Date: 02/14/07 Time: 09:50:44 CPU Time: 0 0: 5:38.71 (338.71 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 1.568030E+06 days
2600 Date: 02/14/07 Time: 09:50:49 CPU Time: 0 0: 5:43.11 (343.11 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 1.569625E+06 days
2603 Date: 02/14/07 Time: 09:50:55 CPU Time: 0 0: 5:49.27 (349.27 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 1.586975E+06 days
2606 Date: 02/14/07 Time: 09:50:59 CPU Time: 0 0: 5:54.01 (354.01 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 1.778016E+06 days
2609 Date: 02/14/07 Time: 09:51:08 CPU Time: 0 0: 6: 2.78 (362.78 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 1.851752E+06 days
2612 Date: 02/14/07 Time: 09:51:19 CPU Time: 0 0: 6:13.04 (373.04 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 1.872533E+06 days

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2615 Date: 02/14/07 Time: 09:51:24 CPU Time: 0 0: 6:18.86 ( 378.86 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 2.047943E+06 days
2618 Date: 02/14/07 Time: 09:51:34 CPU Time: 0 0: 6:28.80 ( 388.80 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 2.192064E+06 days
2621 Date: 02/14/07 Time: 09:51:43 CPU Time: 0 0: 6:37.73 ( 397.73 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 2.209031E+06 days
2624 Date: 02/14/07 Time: 09:51:50 CPU Time: 0 0: 6:44.90 ( 404.90 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 2.228198E+06 days
2627 Date: 02/14/07 Time: 09:51:58 CPU Time: 0 0: 6:51.87 ( 411.87 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 2.477165E+06 days
2630 Date: 02/14/07 Time: 09:52:07 CPU Time: 0 0: 7: 0.86 ( 420.86 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 2.582796E+06 days
2633 Date: 02/14/07 Time: 09:52:19 CPU Time: 0 0: 7:13.36 ( 433.36 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 2.658805E+06 days
2636 Date: 02/14/07 Time: 09:52:24 CPU Time: 0 0: 7:18.55 ( 438.55 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 2.660777E+06 days
2639 Date: 02/14/07 Time: 09:52:30 CPU Time: 0 0: 7:24.70 ( 444.70 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 2.694236E+06 days
2642 Date: 02/14/07 Time: 09:52:37 CPU Time: 0 0: 7:30.78 ( 450.78 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 2.897354E+06 days
2645 Date: 02/14/07 Time: 09:52:46 CPU Time: 0 0: 7:39.90 ( 459.90 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 3.068770E+06 days
2648 Date: 02/14/07 Time: 09:52:54 CPU Time: 0 0: 7:48.13 ( 468.13 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 3.070972E+06 days
2651 Date: 02/14/07 Time: 09:53:01 CPU Time: 0 0: 7:54.59 ( 474.59 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 3.092364E+06 days
2654 Date: 02/14/07 Time: 09:53:06 CPU Time: 0 0: 7:59.91 ( 479.91 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 3.321015E+06 days
2657 Date: 02/14/07 Time: 09:53:14 CPU Time: 0 0: 8: 8.13 ( 488.13 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 3.330337E+06 days
2660 Date: 02/14/07 Time: 09:53:23 CPU Time: 0 0: 8:16.71 ( 496.71 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 3.331762E+06 days
2663 Date: 02/14/07 Time: 09:53:29 CPU Time: 0 0: 8:22.53 ( 502.53 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 3.334405E+06 days
2666 Date: 02/14/07 Time: 09:53:34 CPU Time: 0 0: 8:28.18 ( 508.18 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 3.374435E+06 days
2669 Date: 02/14/07 Time: 09:53:43 CPU Time: 0 0: 8:36.62 ( 516.62 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 3.552011E+06 days
2672 Date: 02/14/07 Time: 09:53:48 CPU Time: 0 0: 8:42.29 ( 522.29 sec) Binary
2675 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
2691 CPU Time (this time step) = 0.27 sec = 0.00007 hr
2692 CPU Time (total for run) = 688.61 sec = 0.19128 hr
2693 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
2691 CPU Time (this time step) = 0.22 sec = 0.00006 hr
2692 CPU Time (total for run) = 524.22 sec = 0.14562 hr
2693 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
3369 Date: 02/14/07 Time: 10:55:11 CPU Time: 0 0:11:28.63 ( 688.63 sec) ASCII
3371 Time Step No. = 1606 Elapsed Time = 3.652431E+06 days
3372 Date: 02/14/07 Time: 10:55:11 CPU Time: 0 0:11:28.64 ( 688.64 sec) Binary
3377 *****
3378 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3379 * Completed: 02/14/07 at 10:55:11 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
3380 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
3369 Date: 02/14/07 Time: 09:53:50 CPU Time: 0 0: 8:44.24 ( 524.24 sec) ASCII
3371 Time Step No. = 1606 Elapsed Time = 3.652431E+06 days
3372 Date: 02/14/07 Time: 09:53:50 CPU Time: 0 0: 8:44.24 ( 524.24 sec) Binary
3377 *****
3378 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3379 * Completed: 02/14/07 at 09:53:50 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3380 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 166

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-

Information Only

PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006_OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006_OUT;1

BF2_QB0600_ES40_TEST7_V007_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007_OUT;1
  3  ** Begun on: 02/14/07 at 10:48:58 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007_OUT;1
  3  ** Begun on: 02/14/07 at 09:45:44 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007_OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_TEST7_V007_INP;2
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007_OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007_INP;2
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007_OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007_OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007_OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007_OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007_OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007_OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007_OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007_SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007_OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007_SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007_OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007_BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007_OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007_BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007_OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007_ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007_OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007_ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007_OUT;1
 1772 CPU Time (this time step) = 0.17 sec = 0.00005 hr
 1773 CPU Time (total for run) = 31.15 sec = 0.00865 hr
 1774 *****
```

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1

1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr

1773 CPU Time (total for run) = 22.28 sec = 0.00619 hr

1774

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007.OUT;1

2450 Date: 02/14/07 Time: 10:49:29 CPU Time: 0 0: 0:31.18 (31.18 sec) ASCII

2452 Time Step No. = 135 Elapsed Time = 0.000000E+00 days

2453 Date: 02/14/07 Time: 10:49:29 CPU Time: 0 0: 0:31.18 (31.18 sec) Binary

2455 Time Step No. = 140 Elapsed Time = 8.207031E-02 days

2456 Date: 02/14/07 Time: 10:49:31 CPU Time: 0 0: 0:32.61 (32.61 sec) Binary

2458 Time Step No. = 160 Elapsed Time = 6.773075E+00 days

2459 Date: 02/14/07 Time: 10:49:35 CPU Time: 0 0: 0:37.36 (37.36 sec) Binary

2461 Time Step No. = 180 Elapsed Time = 1.856436E+02 days

2462 Date: 02/14/07 Time: 10:49:40 CPU Time: 0 0: 0:42.38 (42.38 sec) Binary

2464 Time Step No. = 200 Elapsed Time = 1.266587E+03 days

2465 Date: 02/14/07 Time: 10:49:48 CPU Time: 0 0: 0:50.21 (50.21 sec) Binary

2467 Time Step No. = 220 Elapsed Time = 1.223245E+04 days

2468 Date: 02/14/07 Time: 10:49:56 CPU Time: 0 0: 0:58.40 (58.40 sec) Binary

2470 Time Step No. = 240 Elapsed Time = 3.652431E+04 days

2471 Date: 02/14/07 Time: 10:50:15 CPU Time: 0 0: 1:17.11 (77.11 sec) Binary

2473 Time Step No. = 260 Elapsed Time = 3.652431E+04 days

2474 Date: 02/14/07 Time: 10:50:19 CPU Time: 0 0: 1:20.85 (80.85 sec) Binary

2476 Time Step No. = 280 Elapsed Time = 3.652431E+04 days

2477 Date: 02/14/07 Time: 10:50:23 CPU Time: 0 0: 1:24.73 (84.73 sec) Binary

2479 Time Step No. = 300 Elapsed Time = 3.652448E+04 days

2480 Date: 02/14/07 Time: 10:50:27 CPU Time: 0 0: 1:29.16 (89.16 sec) Binary

2482 Time Step No. = 320 Elapsed Time = 3.653947E+04 days

2483 Date: 02/14/07 Time: 10:50:31 CPU Time: 0 0: 1:33.49 (93.49 sec) Binary

2485 Time Step No. = 340 Elapsed Time = 3.666343E+04 days

2486 Date: 02/14/07 Time: 10:50:35 CPU Time: 0 0: 1:37.38 (97.38 sec) Binary

2488 Time Step No. = 360 Elapsed Time = 3.669537E+04 days

2489 Date: 02/14/07 Time: 10:50:39 CPU Time: 0 0: 1:40.75 (100.75 sec) Binary

2491 Time Step No. = 380 Elapsed Time = 3.742515E+04 days

2492 Date: 02/14/07 Time: 10:50:45 CPU Time: 0 0: 1:47.12 (107.12 sec) Binary

2494 Time Step No. = 400 Elapsed Time = 3.822089E+04 days

2495 Date: 02/14/07 Time: 10:50:57 CPU Time: 0 0: 1:58.48 (118.48 sec) Binary

2497 Time Step No. = 420 Elapsed Time = 8.862956E+04 days

2498 Date: 02/14/07 Time: 10:51:05 CPU Time: 0 0: 2: 6.78 (126.78 sec) Binary

2500 Time Step No. = 440 Elapsed Time = 3.455379E+05 days

2501 Date: 02/14/07 Time: 10:51:18 CPU Time: 0 0: 2:19.52 (139.52 sec) Binary

2503 Time Step No. = 460 Elapsed Time = 3.652522E+05 days

2504 Date: 02/14/07 Time: 10:51:23 CPU Time: 0 0: 2:25.35 (145.35 sec) Binary

2506 Time Step No. = 480 Elapsed Time = 3.654410E+05 days

2507 Date: 02/14/07 Time: 10:51:30 CPU Time: 0 0: 2:31.53 (151.53 sec) Binary

2509 Time Step No. = 500 Elapsed Time = 3.666131E+05 days

2510 Date: 02/14/07 Time: 10:51:35 CPU Time: 0 0: 2:36.93 (156.93 sec) Binary

2512 Time Step No. = 520 Elapsed Time = 3.666386E+05 days

2513 Date: 02/14/07 Time: 10:51:37 CPU Time: 0 0: 2:39.23 (159.23 sec) Binary

2515 Time Step No. = 540 Elapsed Time = 3.688548E+05 days

2516 Date: 02/14/07 Time: 10:51:42 CPU Time: 0 0: 2:44.30 (164.30 sec) Binary

2518 Time Step No. = 560 Elapsed Time = 4.082584E+05 days

2519 Date: 02/14/07 Time: 10:51:53 CPU Time: 0 0: 2:55.25 (175.25 sec) Binary

2521 Time Step No. = 580 Elapsed Time = 4.458639E+05 days

2522 Date: 02/14/07 Time: 10:52:06 CPU Time: 0 0: 3: 8.15 (188.15 sec) Binary

2524 Time Step No. = 600 Elapsed Time = 4.463537E+05 days

2525 Date: 02/14/07 Time: 10:52:14 CPU Time: 0 0: 3:15.61 (195.61 sec) Binary

2527 Time Step No. = 620 Elapsed Time = 4.480015E+05 days

2528 Date: 02/14/07 Time: 10:52:20 CPU Time: 0 0: 3:21.21 (201.21 sec) Binary

2530 Time Step No. = 640 Elapsed Time = 4.604332E+05 days

2531 Date: 02/14/07 Time: 10:52:29 CPU Time: 0 0: 3:30.01 (210.01 sec) Binary

2533 Time Step No. = 660 Elapsed Time = 4.725391E+05 days

2534 Date: 02/14/07 Time: 10:52:35 CPU Time: 0 0: 3:36.45 (216.45 sec) Binary

2536 Time Step No. = 680 Elapsed Time = 6.319950E+05 days

2537 Date: 02/14/07 Time: 10:52:47 CPU Time: 0 0: 3:47.88 (227.88 sec) Binary

2539 Time Step No. = 700 Elapsed Time = 6.358626E+05 days

2540 Date: 02/14/07 Time: 10:52:54 CPU Time: 0 0: 3:55.58 (235.58 sec) Binary

2542 Time Step No. = 720 Elapsed Time = 6.368313E+05 days

2543 Date: 02/14/07 Time: 10:53:02 CPU Time: 0 0: 4: 3.26 (243.26 sec) Binary

2545 Time Step No. = 740 Elapsed Time = 6.464683E+05 days

2546 Date: 02/14/07 Time: 10:53:09 CPU Time: 0 0: 4:10.06 (250.06 sec) Binary

2548 Time Step No. = 760 Elapsed Time = 7.290303E+05 days

2549 Date: 02/14/07 Time: 10:53:18 CPU Time: 0 0: 4:19.09 (259.09 sec) Binary

2551 Time Step No. = 780 Elapsed Time = 7.323189E+05 days

Information Only

2552 Date: 02/14/07 Time: 10:53:26 CPU Time: 0 0: 4:26.72 (266.72 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 7.329267E+05 days
2555 Date: 02/14/07 Time: 10:53:30 CPU Time: 0 0: 4:31.68 (271.68 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 7.803047E+05 days
2558 Date: 02/14/07 Time: 10:53:38 CPU Time: 0 0: 4:39.23 (279.23 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 7.839760E+05 days
2561 Date: 02/14/07 Time: 10:53:46 CPU Time: 0 0: 4:46.84 (286.84 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 8.012233E+05 days
2564 Date: 02/14/07 Time: 10:53:56 CPU Time: 0 0: 4:57.43 (297.43 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 8.034431E+05 days
2567 Date: 02/14/07 Time: 10:54:06 CPU Time: 0 0: 5: 7.19 (307.19 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 8.062402E+05 days
2570 Date: 02/14/07 Time: 10:54:14 CPU Time: 0 0: 5:14.71 (314.71 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 8.139864E+05 days
2573 Date: 02/14/07 Time: 10:54:24 CPU Time: 0 0: 5:24.65 (324.65 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 8.431727E+05 days
2576 Date: 02/14/07 Time: 10:54:35 CPU Time: 0 0: 5:35.69 (335.69 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 8.666810E+05 days
2579 Date: 02/14/07 Time: 10:54:47 CPU Time: 0 0: 5:48.43 (348.43 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 8.821825E+05 days
2582 Date: 02/14/07 Time: 10:54:55 CPU Time: 0 0: 5:55.58 (355.58 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 9.002182E+05 days
2585 Date: 02/14/07 Time: 10:55:04 CPU Time: 0 0: 6: 5.05 (365.05 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 9.481091E+05 days
2588 Date: 02/14/07 Time: 10:55:13 CPU Time: 0 0: 6:13.97 (373.97 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.057089E+06 days
2591 Date: 02/14/07 Time: 10:55:24 CPU Time: 0 0: 6:25.07 (385.07 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.124317E+06 days
2594 Date: 02/14/07 Time: 10:55:31 CPU Time: 0 0: 6:31.83 (391.83 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 1.392966E+06 days
2597 Date: 02/14/07 Time: 10:55:42 CPU Time: 0 0: 6:42.36 (402.36 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 1.621571E+06 days
2600 Date: 02/14/07 Time: 10:55:50 CPU Time: 0 0: 6:50.83 (410.83 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 1.784068E+06 days
2603 Date: 02/14/07 Time: 10:56:05 CPU Time: 0 0: 7: 6.09 (426.09 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 1.895820E+06 days
2606 Date: 02/14/07 Time: 10:56:15 CPU Time: 0 0: 7:16.18 (436.18 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 1.978849E+06 days
2609 Date: 02/14/07 Time: 10:56:29 CPU Time: 0 0: 7:29.56 (449.56 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 2.136165E+06 days
2612 Date: 02/14/07 Time: 10:56:41 CPU Time: 0 0: 7:41.39 (461.39 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 2.233567E+06 days
2615 Date: 02/14/07 Time: 10:56:54 CPU Time: 0 0: 7:54.79 (474.79 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 2.507403E+06 days
2618 Date: 02/14/07 Time: 10:57:01 CPU Time: 0 0: 8: 2.09 (482.09 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 2.907403E+06 days
2621 Date: 02/14/07 Time: 10:57:09 CPU Time: 0 0: 8: 9.87 (489.87 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 3.307403E+06 days
2624 Date: 02/14/07 Time: 10:57:18 CPU Time: 0 0: 8:18.17 (498.17 sec) Binary
2627 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
2450 Date: 02/14/07 Time: 09:46:07 CPU Time: 0 0: 0:22.29 (22.29 sec) ASCII
2452 Time Step No. = 135 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:46:07 CPU Time: 0 0: 0:22.30 (22.30 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 8.207031E-02 days
2456 Date: 02/14/07 Time: 09:46:08 CPU Time: 0 0: 0:23.32 (23.32 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 6.773075E+00 days
2459 Date: 02/14/07 Time: 09:46:11 CPU Time: 0 0: 0:26.72 (26.72 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.856436E+02 days
2462 Date: 02/14/07 Time: 09:46:15 CPU Time: 0 0: 0:30.53 (30.53 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 1.266587E+03 days
2465 Date: 02/14/07 Time: 09:46:21 CPU Time: 0 0: 0:36.63 (36.63 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 1.223245E+04 days
2468 Date: 02/14/07 Time: 09:46:28 CPU Time: 0 0: 0:43.00 (43.00 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.652431E+04 days
2471 Date: 02/14/07 Time: 09:46:42 CPU Time: 0 0: 0:57.56 (57.56 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.652431E+04 days
2474 Date: 02/14/07 Time: 09:46:45 CPU Time: 0 0: 1: 0.49 (60.49 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.652431E+04 days
2477 Date: 02/14/07 Time: 09:46:48 CPU Time: 0 0: 1: 3.56 (63.56 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.652448E+04 days
2480 Date: 02/14/07 Time: 09:46:52 CPU Time: 0 0: 1: 7.05 (67.05 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.653947E+04 days
2483 Date: 02/14/07 Time: 09:46:55 CPU Time: 0 0: 1:10.48 (70.48 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 3.666343E+04 days

2486 Date: 02/14/07 Time: 09:46:58 CPU Time: 0 0: 1:13.55 (73.55 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.669537E+04 days
2489 Date: 02/14/07 Time: 09:47:01 CPU Time: 0 0: 1:16.20 (76.20 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 3.742515E+04 days
2492 Date: 02/14/07 Time: 09:47:06 CPU Time: 0 0: 1:21.20 (81.20 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.822089E+04 days
2495 Date: 02/14/07 Time: 09:47:15 CPU Time: 0 0: 1:29.92 (89.92 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 8.862956E+04 days
2498 Date: 02/14/07 Time: 09:47:21 CPU Time: 0 0: 1:36.35 (96.35 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.455379E+05 days
2501 Date: 02/14/07 Time: 09:47:31 CPU Time: 0 0: 1:46.27 (106.27 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 3.652522E+05 days
2504 Date: 02/14/07 Time: 09:47:36 CPU Time: 0 0: 1:50.87 (110.87 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 3.654410E+05 days
2507 Date: 02/14/07 Time: 09:47:41 CPU Time: 0 0: 1:55.75 (115.75 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 3.666131E+05 days
2510 Date: 02/14/07 Time: 09:47:45 CPU Time: 0 0: 2: 0.01 (120.01 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 3.666386E+05 days
2513 Date: 02/14/07 Time: 09:47:47 CPU Time: 0 0: 2: 1.83 (121.83 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 3.688548E+05 days
2516 Date: 02/14/07 Time: 09:47:51 CPU Time: 0 0: 2: 5.81 (125.81 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 4.082584E+05 days
2519 Date: 02/14/07 Time: 09:48:00 CPU Time: 0 0: 2:14.35 (134.35 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 4.458639E+05 days
2522 Date: 02/14/07 Time: 09:48:10 CPU Time: 0 0: 2:24.44 (144.44 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 4.463537E+05 days
2525 Date: 02/14/07 Time: 09:48:16 CPU Time: 0 0: 2:30.28 (150.28 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 4.480015E+05 days
2528 Date: 02/14/07 Time: 09:48:20 CPU Time: 0 0: 2:34.67 (154.67 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 4.604332E+05 days
2531 Date: 02/14/07 Time: 09:48:27 CPU Time: 0 0: 2:41.58 (161.58 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 4.725391E+05 days
2534 Date: 02/14/07 Time: 09:48:32 CPU Time: 0 0: 2:46.68 (166.68 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 6.319950E+05 days
2537 Date: 02/14/07 Time: 09:48:41 CPU Time: 0 0: 2:55.64 (175.64 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 6.358626E+05 days
2540 Date: 02/14/07 Time: 09:48:47 CPU Time: 0 0: 3: 1.65 (181.65 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 6.368313E+05 days
2543 Date: 02/14/07 Time: 09:48:53 CPU Time: 0 0: 3: 7.61 (187.61 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 6.464683E+05 days
2546 Date: 02/14/07 Time: 09:48:58 CPU Time: 0 0: 3:12.92 (192.92 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 7.290303E+05 days
2549 Date: 02/14/07 Time: 09:49:05 CPU Time: 0 0: 3:19.95 (199.95 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 7.323189E+05 days
2552 Date: 02/14/07 Time: 09:49:12 CPU Time: 0 0: 3:25.94 (205.94 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 7.329267E+05 days
2555 Date: 02/14/07 Time: 09:49:16 CPU Time: 0 0: 3:29.84 (209.84 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 7.803047E+05 days
2558 Date: 02/14/07 Time: 09:49:21 CPU Time: 0 0: 3:35.71 (215.71 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 7.839760E+05 days
2561 Date: 02/14/07 Time: 09:49:27 CPU Time: 0 0: 3:41.70 (221.70 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 8.012233E+05 days
2564 Date: 02/14/07 Time: 09:49:36 CPU Time: 0 0: 3:49.87 (229.87 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 8.034431E+05 days
2567 Date: 02/14/07 Time: 09:49:43 CPU Time: 0 0: 3:57.52 (237.52 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 8.062402E+05 days
2570 Date: 02/14/07 Time: 09:49:49 CPU Time: 0 0: 4: 3.44 (243.44 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 8.139864E+05 days
2573 Date: 02/14/07 Time: 09:49:57 CPU Time: 0 0: 4:11.24 (251.24 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 8.431727E+05 days
2576 Date: 02/14/07 Time: 09:50:06 CPU Time: 0 0: 4:19.95 (259.95 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 8.666810E+05 days
2579 Date: 02/14/07 Time: 09:50:16 CPU Time: 0 0: 4:29.98 (269.98 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 8.821825E+05 days
2582 Date: 02/14/07 Time: 09:50:22 CPU Time: 0 0: 4:35.57 (275.57 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 9.002182E+05 days
2585 Date: 02/14/07 Time: 09:50:29 CPU Time: 0 0: 4:42.92 (282.92 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 9.481091E+05 days
2588 Date: 02/14/07 Time: 09:50:36 CPU Time: 0 0: 4:49.87 (289.87 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.057089E+06 days
2591 Date: 02/14/07 Time: 09:50:45 CPU Time: 0 0: 4:58.48 (298.48 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.124317E+06 days
2594 Date: 02/14/07 Time: 09:50:50 CPU Time: 0 0: 5: 3.74 (303.74 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 1.392966E+06 days
2597 Date: 02/14/07 Time: 09:50:58 CPU Time: 0 0: 5:11.91 (311.91 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 1.621571E+06 days

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2600 Date: 02/14/07 Time: 09:51:05 CPU Time: 0 0: 5:18.52 ( 318.52 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 1.784068E+06 days
2603 Date: 02/14/07 Time: 09:51:17 CPU Time: 0 0: 5:30.45 ( 330.45 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 1.895820E+06 days
2606 Date: 02/14/07 Time: 09:51:25 CPU Time: 0 0: 5:38.36 ( 338.36 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 1.978849E+06 days
2609 Date: 02/14/07 Time: 09:51:35 CPU Time: 0 0: 5:48.86 ( 348.86 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 2.136165E+06 days
2612 Date: 02/14/07 Time: 09:51:45 CPU Time: 0 0: 5:58.18 ( 358.18 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 2.233567E+06 days
2615 Date: 02/14/07 Time: 09:51:55 CPU Time: 0 0: 6: 8.59 ( 368.59 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 2.507403E+06 days
2618 Date: 02/14/07 Time: 09:52:01 CPU Time: 0 0: 6:14.28 ( 374.28 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 2.907403E+06 days
2621 Date: 02/14/07 Time: 09:52:07 CPU Time: 0 0: 6:20.35 ( 380.35 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 3.307403E+06 days
2624 Date: 02/14/07 Time: 09:52:13 CPU Time: 0 0: 6:26.82 ( 386.82 sec) Binary
2627 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007.OUT;1
2643 CPU Time (this time step) = 0.36 sec = 0.00010 hr
2644 CPU Time (total for run) = 504.97 sec = 0.14027 hr
2645 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
2643 CPU Time (this time step) = 0.28 sec = 0.00008 hr
2644 CPU Time (total for run) = 392.16 sec = 0.10893 hr
2645 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007.OUT;1
3321 Date: 02/14/07 Time: 10:57:24 CPU Time: 0 0: 8:24.99 ( 504.99 sec) ASCII
3323 Time Step No. = 1278 Elapsed Time = 3.652431E+06 days
3324 Date: 02/14/07 Time: 10:57:24 CPU Time: 0 0: 8:24.99 ( 504.99 sec) Binary
3329 *****
3330 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3331 * Completed: 02/14/07 at 10:57:24 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
3332 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
3321 Date: 02/14/07 Time: 09:52:19 CPU Time: 0 0: 6:32.18 ( 392.18 sec) ASCII
3323 Time Step No. = 1278 Elapsed Time = 3.652431E+06 days
3324 Date: 02/14/07 Time: 09:52:19 CPU Time: 0 0: 6:32.19 ( 392.19 sec) Binary
3329 *****
3330 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3331 * Completed: 02/14/07 at 09:52:19 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3332 *****
*****
Number of difference sections found: 11
Number of difference records found: 134
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
```

BF2_QB0600_ES40_TEST7_V008_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
3 ** Begun on: 02/14/07 at 10:55:19 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
3 ** Begun on: 02/14/07 at 09:46:14 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_TEST7_V008.INP;2
62 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
1772 CPU Time (this time step) = 0.27 sec = 0.00008 hr
1773 CPU Time (total for run) = 45.55 sec = 0.01265 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
1772 CPU Time (this time step) = 0.19 sec = 0.00005 hr
1773 CPU Time (total for run) = 32.61 sec = 0.00906 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
2450 Date: 02/14/07 Time: 10:56:04 CPU Time: 0 0: 0:45.57 ( 45.57 sec) ASCII
2452 Time Step No. = 176 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:56:04 CPU Time: 0 0: 0:45.58 ( 45.58 sec) Binary
2455 Time Step No. = 180 Elapsed Time = 7.207031E-03 days
2456 Date: 02/14/07 Time: 10:56:07 CPU Time: 0 0: 0:48.50 ( 48.50 sec) Binary
2458 Time Step No. = 200 Elapsed Time = 1.053791E+00 days
2459 Date: 02/14/07 Time: 10:56:12 CPU Time: 0 0: 0:53.07 ( 53.07 sec) Binary
2461 Time Step No. = 220 Elapsed Time = 9.183050E+01 days
2462 Date: 02/14/07 Time: 10:56:18 CPU Time: 0 0: 0:59.30 ( 59.30 sec) Binary
2464 Time Step No. = 240 Elapsed Time = 2.153105E+03 days
2465 Date: 02/14/07 Time: 10:56:26 CPU Time: 0 0: 1: 7.22 ( 67.22 sec) Binary
2467 Time Step No. = 260 Elapsed Time = 5.087922E+03 days
2468 Date: 02/14/07 Time: 10:56:33 CPU Time: 0 0: 1:14.43 ( 74.43 sec) Binary
2470 Time Step No. = 280 Elapsed Time = 1.243792E+04 days
```


2471 Date: 02/14/07 Time: 10:56:42 CPU Time: 0 0: 1:23.72 (83.72 sec) Binary
2473 Time Step No. = 300 Elapsed Time = 1.314808E+04 days
2474 Date: 02/14/07 Time: 10:56:47 CPU Time: 0 0: 1:28.67 (88.67 sec) Binary
2476 Time Step No. = 320 Elapsed Time = 1.875956E+04 days
2477 Date: 02/14/07 Time: 10:56:56 CPU Time: 0 0: 1:37.38 (97.38 sec) Binary
2479 Time Step No. = 340 Elapsed Time = 3.652769E+04 days
2480 Date: 02/14/07 Time: 10:57:04 CPU Time: 0 0: 1:44.95 (104.95 sec) Binary
2482 Time Step No. = 360 Elapsed Time = 3.666039E+04 days
2483 Date: 02/14/07 Time: 10:57:10 CPU Time: 0 0: 1:51.35 (111.35 sec) Binary
2485 Time Step No. = 380 Elapsed Time = 3.666877E+04 days
2486 Date: 02/14/07 Time: 10:57:13 CPU Time: 0 0: 1:53.97 (113.97 sec) Binary
2488 Time Step No. = 400 Elapsed Time = 3.739498E+04 days
2489 Date: 02/14/07 Time: 10:57:18 CPU Time: 0 0: 1:58.85 (118.85 sec) Binary
2491 Time Step No. = 420 Elapsed Time = 5.109122E+04 days
2492 Date: 02/14/07 Time: 10:57:28 CPU Time: 0 0: 2: 9.19 (129.19 sec) Binary
2494 Time Step No. = 440 Elapsed Time = 5.170121E+04 days
2495 Date: 02/14/07 Time: 10:57:41 CPU Time: 0 0: 2:22.39 (142.39 sec) Binary
2497 Time Step No. = 460 Elapsed Time = 5.298682E+04 days
2498 Date: 02/14/07 Time: 10:57:50 CPU Time: 0 0: 2:30.71 (150.71 sec) Binary
2500 Time Step No. = 480 Elapsed Time = 7.084490E+04 days
2501 Date: 02/14/07 Time: 10:57:56 CPU Time: 0 0: 2:37.20 (157.20 sec) Binary
2503 Time Step No. = 500 Elapsed Time = 8.094102E+04 days
2504 Date: 02/14/07 Time: 10:58:07 CPU Time: 0 0: 2:47.80 (167.80 sec) Binary
2506 Time Step No. = 520 Elapsed Time = 8.631599E+04 days
2507 Date: 02/14/07 Time: 10:58:16 CPU Time: 0 0: 2:56.62 (176.62 sec) Binary
2509 Time Step No. = 540 Elapsed Time = 8.786148E+04 days
2510 Date: 02/14/07 Time: 10:58:20 CPU Time: 0 0: 3: 1.39 (181.39 sec) Binary
2512 Time Step No. = 560 Elapsed Time = 1.041757E+05 days
2513 Date: 02/14/07 Time: 10:58:30 CPU Time: 0 0: 3:10.66 (190.66 sec) Binary
2515 Time Step No. = 580 Elapsed Time = 1.043219E+05 days
2516 Date: 02/14/07 Time: 10:58:40 CPU Time: 0 0: 3:21.39 (201.39 sec) Binary
2518 Time Step No. = 600 Elapsed Time = 1.044755E+05 days
2519 Date: 02/14/07 Time: 10:58:45 CPU Time: 0 0: 3:26.21 (206.21 sec) Binary
2521 Time Step No. = 620 Elapsed Time = 1.065997E+05 days
2522 Date: 02/14/07 Time: 10:58:54 CPU Time: 0 0: 3:35.34 (215.34 sec) Binary
2524 Time Step No. = 640 Elapsed Time = 1.295978E+05 days
2525 Date: 02/14/07 Time: 10:59:06 CPU Time: 0 0: 3:46.49 (226.49 sec) Binary
2527 Time Step No. = 660 Elapsed Time = 1.484872E+05 days
2528 Date: 02/14/07 Time: 10:59:16 CPU Time: 0 0: 3:57.13 (237.13 sec) Binary
2530 Time Step No. = 680 Elapsed Time = 1.485303E+05 days
2531 Date: 02/14/07 Time: 10:59:24 CPU Time: 0 0: 4: 4.69 (244.69 sec) Binary
2533 Time Step No. = 700 Elapsed Time = 1.493933E+05 days
2534 Date: 02/14/07 Time: 10:59:29 CPU Time: 0 0: 4:10.26 (250.26 sec) Binary
2536 Time Step No. = 720 Elapsed Time = 1.593167E+05 days
2537 Date: 02/14/07 Time: 10:59:38 CPU Time: 0 0: 4:18.55 (258.55 sec) Binary
2539 Time Step No. = 740 Elapsed Time = 2.099806E+05 days
2540 Date: 02/14/07 Time: 10:59:51 CPU Time: 0 0: 4:31.47 (271.47 sec) Binary
2542 Time Step No. = 760 Elapsed Time = 2.105719E+05 days
2543 Date: 02/14/07 Time: 10:59:59 CPU Time: 0 0: 4:39.64 (279.64 sec) Binary
2545 Time Step No. = 780 Elapsed Time = 2.202234E+05 days
2546 Date: 02/14/07 Time: 11:00:05 CPU Time: 0 0: 4:45.55 (285.55 sec) Binary
2548 Time Step No. = 800 Elapsed Time = 3.150363E+05 days
2549 Date: 02/14/07 Time: 11:00:14 CPU Time: 0 0: 4:54.69 (294.69 sec) Binary
2551 Time Step No. = 820 Elapsed Time = 3.629194E+05 days
2552 Date: 02/14/07 Time: 11:00:27 CPU Time: 0 0: 5: 7.72 (307.72 sec) Binary
2554 Time Step No. = 840 Elapsed Time = 3.652535E+05 days
2555 Date: 02/14/07 Time: 11:00:38 CPU Time: 0 0: 5:18.35 (318.35 sec) Binary
2557 Time Step No. = 860 Elapsed Time = 3.653114E+05 days
2558 Date: 02/14/07 Time: 11:00:45 CPU Time: 0 0: 5:26.10 (326.10 sec) Binary
2560 Time Step No. = 880 Elapsed Time = 3.653632E+05 days
2561 Date: 02/14/07 Time: 11:00:55 CPU Time: 0 0: 5:35.99 (335.99 sec) Binary
2563 Time Step No. = 900 Elapsed Time = 3.658270E+05 days
2564 Date: 02/14/07 Time: 11:01:01 CPU Time: 0 0: 5:41.99 (341.99 sec) Binary
2566 Time Step No. = 920 Elapsed Time = 3.666406E+05 days
2567 Date: 02/14/07 Time: 11:01:05 CPU Time: 0 0: 5:45.62 (345.62 sec) Binary
2569 Time Step No. = 940 Elapsed Time = 3.666905E+05 days
2570 Date: 02/14/07 Time: 11:01:07 CPU Time: 0 0: 5:47.99 (347.99 sec) Binary
2572 Time Step No. = 960 Elapsed Time = 3.710191E+05 days
2573 Date: 02/14/07 Time: 11:01:13 CPU Time: 0 0: 5:53.61 (353.61 sec) Binary
2575 Time Step No. = 980 Elapsed Time = 3.996908E+05 days
2576 Date: 02/14/07 Time: 11:01:24 CPU Time: 0 0: 6: 4.64 (364.64 sec) Binary
2578 Time Step No. = 1000 Elapsed Time = 4.303223E+05 days
2579 Date: 02/14/07 Time: 11:01:31 CPU Time: 0 0: 6:11.65 (371.65 sec) Binary
2581 Time Step No. = 1020 Elapsed Time = 4.969452E+05 days
2582 Date: 02/14/07 Time: 11:01:43 CPU Time: 0 0: 6:23.95 (383.95 sec) Binary
2584 Time Step No. = 1040 Elapsed Time = 5.110604E+05 days

2585 Date: 02/14/07 Time: 11:01:55 CPU Time: 0 0: 6:35.50 (395.50 sec) Binary
2587 Time Step No. = 1060 Elapsed Time = 7.111569E+05 days
2588 Date: 02/14/07 Time: 11:02:09 CPU Time: 0 0: 6:49.75 (409.75 sec) Binary
2590 Time Step No. = 1080 Elapsed Time = 7.246704E+05 days
2591 Date: 02/14/07 Time: 11:02:16 CPU Time: 0 0: 6:56.96 (416.96 sec) Binary
2593 Time Step No. = 1100 Elapsed Time = 7.854601E+05 days
2594 Date: 02/14/07 Time: 11:02:28 CPU Time: 0 0: 7: 8.29 (428.29 sec) Binary
2596 Time Step No. = 1120 Elapsed Time = 7.901528E+05 days
2597 Date: 02/14/07 Time: 11:02:37 CPU Time: 0 0: 7:17.72 (437.72 sec) Binary
2599 Time Step No. = 1140 Elapsed Time = 8.541211E+05 days
2600 Date: 02/14/07 Time: 11:02:48 CPU Time: 0 0: 7:28.07 (448.07 sec) Binary
2602 Time Step No. = 1160 Elapsed Time = 8.709685E+05 days
2603 Date: 02/14/07 Time: 11:02:57 CPU Time: 0 0: 7:37.16 (457.16 sec) Binary
2605 Time Step No. = 1180 Elapsed Time = 9.290932E+05 days
2606 Date: 02/14/07 Time: 11:03:09 CPU Time: 0 0: 7:49.44 (469.44 sec) Binary
2608 Time Step No. = 1200 Elapsed Time = 9.435530E+05 days
2609 Date: 02/14/07 Time: 11:03:22 CPU Time: 0 0: 8: 2.19 (482.19 sec) Binary
2611 Time Step No. = 1220 Elapsed Time = 9.561082E+05 days
2612 Date: 02/14/07 Time: 11:03:32 CPU Time: 0 0: 8:12.34 (492.34 sec) Binary
2614 Time Step No. = 1240 Elapsed Time = 9.627294E+05 days
2615 Date: 02/14/07 Time: 11:03:42 CPU Time: 0 0: 8:22.66 (502.66 sec) Binary
2617 Time Step No. = 1260 Elapsed Time = 9.692275E+05 days
2618 Date: 02/14/07 Time: 11:03:56 CPU Time: 0 0: 8:36.10 (516.10 sec) Binary
2620 Time Step No. = 1280 Elapsed Time = 9.817318E+05 days
2621 Date: 02/14/07 Time: 11:04:03 CPU Time: 0 0: 8:43.75 (523.75 sec) Binary
2623 Time Step No. = 1300 Elapsed Time = 1.000743E+06 days
2624 Date: 02/14/07 Time: 11:04:14 CPU Time: 0 0: 8:54.00 (534.00 sec) Binary
2626 Time Step No. = 1320 Elapsed Time = 1.009513E+06 days
2627 Date: 02/14/07 Time: 11:04:26 CPU Time: 0 0: 9: 5.80 (545.80 sec) Binary
2629 Time Step No. = 1340 Elapsed Time = 1.018276E+06 days
2630 Date: 02/14/07 Time: 11:04:35 CPU Time: 0 0: 9:14.85 (554.85 sec) Binary
2632 Time Step No. = 1360 Elapsed Time = 1.025094E+06 days
2633 Date: 02/14/07 Time: 11:04:39 CPU Time: 0 0: 9:19.38 (559.38 sec) Binary
2635 Time Step No. = 1380 Elapsed Time = 1.066575E+06 days
2636 Date: 02/14/07 Time: 11:04:50 CPU Time: 0 0: 9:30.10 (570.10 sec) Binary
2638 Time Step No. = 1400 Elapsed Time = 1.078881E+06 days
2639 Date: 02/14/07 Time: 11:04:55 CPU Time: 0 0: 9:35.07 (575.07 sec) Binary
2641 Time Step No. = 1420 Elapsed Time = 1.161020E+06 days
2642 Date: 02/14/07 Time: 11:05:06 CPU Time: 0 0: 9:45.73 (585.73 sec) Binary
2644 Time Step No. = 1440 Elapsed Time = 1.265422E+06 days
2645 Date: 02/14/07 Time: 11:05:15 CPU Time: 0 0: 9:54.78 (594.78 sec) Binary
2647 Time Step No. = 1460 Elapsed Time = 1.472580E+06 days
2648 Date: 02/14/07 Time: 11:05:20 CPU Time: 0 0:10: 0.26 (600.26 sec) Binary
2650 Time Step No. = 1480 Elapsed Time = 1.872580E+06 days
2651 Date: 02/14/07 Time: 11:05:28 CPU Time: 0 0:10: 7.72 (607.72 sec) Binary
2653 Time Step No. = 1500 Elapsed Time = 2.099689E+06 days
2654 Date: 02/14/07 Time: 11:05:37 CPU Time: 0 0:10:17.24 (617.24 sec) Binary
2656 Time Step No. = 1520 Elapsed Time = 2.499689E+06 days
2657 Date: 02/14/07 Time: 11:05:44 CPU Time: 0 0:10:24.43 (624.43 sec) Binary
2659 Time Step No. = 1540 Elapsed Time = 2.899689E+06 days
2660 Date: 02/14/07 Time: 11:05:51 CPU Time: 0 0:10:30.93 (630.93 sec) Binary
2662 Time Step No. = 1560 Elapsed Time = 3.299689E+06 days
2663 Date: 02/14/07 Time: 11:05:57 CPU Time: 0 0:10:36.42 (636.42 sec) Binary
2666 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA: [ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
2450 Date: 02/14/07 Time: 09:46:47 CPU Time: 0 0: 0:32.62 (32.62 sec) ASCII
2452 Time Step No. = 176 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:46:47 CPU Time: 0 0: 0:32.62 (32.62 sec) Binary
2455 Time Step No. = 180 Elapsed Time = 7.207031E-03 days
2456 Date: 02/14/07 Time: 09:46:49 CPU Time: 0 0: 0:34.70 (34.70 sec) Binary
2458 Time Step No. = 200 Elapsed Time = 1.053791E+00 days
2459 Date: 02/14/07 Time: 09:46:52 CPU Time: 0 0: 0:38.00 (38.00 sec) Binary
2461 Time Step No. = 220 Elapsed Time = 9.183050E+01 days
2462 Date: 02/14/07 Time: 09:46:57 CPU Time: 0 0: 0:42.45 (42.45 sec) Binary
2464 Time Step No. = 240 Elapsed Time = 2.153105E+03 days
2465 Date: 02/14/07 Time: 09:47:02 CPU Time: 0 0: 0:48.11 (48.11 sec) Binary
2467 Time Step No. = 260 Elapsed Time = 5.087922E+03 days
2468 Date: 02/14/07 Time: 09:47:08 CPU Time: 0 0: 0:53.27 (53.27 sec) Binary
2470 Time Step No. = 280 Elapsed Time = 1.243792E+04 days
2471 Date: 02/14/07 Time: 09:47:14 CPU Time: 0 0: 0:59.94 (59.94 sec) Binary
2473 Time Step No. = 300 Elapsed Time = 1.314808E+04 days
2474 Date: 02/14/07 Time: 09:47:18 CPU Time: 0 0: 1: 3.51 (63.51 sec) Binary
2476 Time Step No. = 320 Elapsed Time = 1.875956E+04 days
2477 Date: 02/14/07 Time: 09:47:24 CPU Time: 0 0: 1: 9.66 (69.66 sec) Binary
2479 Time Step No. = 340 Elapsed Time = 3.652769E+04 days

2480 Date: 02/14/07 Time: 09:47:29 CPU Time: 0 0: 1:15.10 (75.10 sec) Binary
2482 Time Step No. = 360 Elapsed Time = 3.666039E+04 days
2483 Date: 02/14/07 Time: 09:47:34 CPU Time: 0 0: 1:19.71 (79.71 sec) Binary
2485 Time Step No. = 380 Elapsed Time = 3.666877E+04 days
2486 Date: 02/14/07 Time: 09:47:36 CPU Time: 0 0: 1:21.59 (81.59 sec) Binary
2488 Time Step No. = 400 Elapsed Time = 3.739498E+04 days
2489 Date: 02/14/07 Time: 09:47:40 CPU Time: 0 0: 1:25.10 (85.10 sec) Binary
2491 Time Step No. = 420 Elapsed Time = 5.109122E+04 days
2492 Date: 02/14/07 Time: 09:47:47 CPU Time: 0 0: 1:32.48 (92.48 sec) Binary
2494 Time Step No. = 440 Elapsed Time = 5.170121E+04 days
2495 Date: 02/14/07 Time: 09:47:56 CPU Time: 0 0: 1:41.94 (101.94 sec) Binary
2497 Time Step No. = 460 Elapsed Time = 5.298682E+04 days
2498 Date: 02/14/07 Time: 09:48:02 CPU Time: 0 0: 1:47.90 (107.90 sec) Binary
2500 Time Step No. = 480 Elapsed Time = 7.084490E+04 days
2501 Date: 02/14/07 Time: 09:48:07 CPU Time: 0 0: 1:52.56 (112.56 sec) Binary
2503 Time Step No. = 500 Elapsed Time = 8.094102E+04 days
2504 Date: 02/14/07 Time: 09:48:15 CPU Time: 0 0: 2: 0.20 (120.20 sec) Binary
2506 Time Step No. = 520 Elapsed Time = 8.631599E+04 days
2507 Date: 02/14/07 Time: 09:48:21 CPU Time: 0 0: 2: 6.55 (126.55 sec) Binary
2509 Time Step No. = 540 Elapsed Time = 8.786148E+04 days
2510 Date: 02/14/07 Time: 09:48:25 CPU Time: 0 0: 2: 9.99 (129.99 sec) Binary
2512 Time Step No. = 560 Elapsed Time = 1.041757E+05 days
2513 Date: 02/14/07 Time: 09:48:31 CPU Time: 0 0: 2:16.66 (136.66 sec) Binary
2515 Time Step No. = 580 Elapsed Time = 1.043219E+05 days
2516 Date: 02/14/07 Time: 09:48:39 CPU Time: 0 0: 2:24.39 (144.39 sec) Binary
2518 Time Step No. = 600 Elapsed Time = 1.044755E+05 days
2519 Date: 02/14/07 Time: 09:48:43 CPU Time: 0 0: 2:28.08 (148.08 sec) Binary
2521 Time Step No. = 620 Elapsed Time = 1.065997E+05 days
2522 Date: 02/14/07 Time: 09:48:50 CPU Time: 0 0: 2:35.09 (155.09 sec) Binary
2524 Time Step No. = 640 Elapsed Time = 1.295978E+05 days
2525 Date: 02/14/07 Time: 09:48:58 CPU Time: 0 0: 2:43.67 (163.67 sec) Binary
2527 Time Step No. = 660 Elapsed Time = 1.484872E+05 days
2528 Date: 02/14/07 Time: 09:49:06 CPU Time: 0 0: 2:51.84 (171.84 sec) Binary
2530 Time Step No. = 680 Elapsed Time = 1.485303E+05 days
2531 Date: 02/14/07 Time: 09:49:12 CPU Time: 0 0: 2:57.41 (177.41 sec) Binary
2533 Time Step No. = 700 Elapsed Time = 1.493933E+05 days
2534 Date: 02/14/07 Time: 09:49:16 CPU Time: 0 0: 3: 1.41 (181.41 sec) Binary
2536 Time Step No. = 720 Elapsed Time = 1.593167E+05 days
2537 Date: 02/14/07 Time: 09:49:22 CPU Time: 0 0: 3: 7.32 (187.32 sec) Binary
2539 Time Step No. = 740 Elapsed Time = 2.099806E+05 days
2540 Date: 02/14/07 Time: 09:49:31 CPU Time: 0 0: 3:16.43 (196.43 sec) Binary
2542 Time Step No. = 760 Elapsed Time = 2.105719E+05 days
2543 Date: 02/14/07 Time: 09:49:37 CPU Time: 0 0: 3:22.20 (202.20 sec) Binary
2545 Time Step No. = 780 Elapsed Time = 2.202234E+05 days
2546 Date: 02/14/07 Time: 09:49:41 CPU Time: 0 0: 3:26.39 (206.39 sec) Binary
2548 Time Step No. = 800 Elapsed Time = 3.150363E+05 days
2549 Date: 02/14/07 Time: 09:49:48 CPU Time: 0 0: 3:32.85 (212.85 sec) Binary
2551 Time Step No. = 820 Elapsed Time = 3.629194E+05 days
2552 Date: 02/14/07 Time: 09:49:57 CPU Time: 0 0: 3:42.09 (222.09 sec) Binary
2554 Time Step No. = 840 Elapsed Time = 3.652535E+05 days
2555 Date: 02/14/07 Time: 09:50:04 CPU Time: 0 0: 3:49.64 (229.64 sec) Binary
2557 Time Step No. = 860 Elapsed Time = 3.653114E+05 days
2558 Date: 02/14/07 Time: 09:50:10 CPU Time: 0 0: 3:55.16 (235.16 sec) Binary
2560 Time Step No. = 880 Elapsed Time = 3.653632E+05 days
2561 Date: 02/14/07 Time: 09:50:17 CPU Time: 0 0: 4: 2.23 (242.23 sec) Binary
2563 Time Step No. = 900 Elapsed Time = 3.658270E+05 days
2564 Date: 02/14/07 Time: 09:50:21 CPU Time: 0 0: 4: 6.46 (246.46 sec) Binary
2566 Time Step No. = 920 Elapsed Time = 3.666406E+05 days
2567 Date: 02/14/07 Time: 09:50:24 CPU Time: 0 0: 4: 9.04 (249.04 sec) Binary
2569 Time Step No. = 940 Elapsed Time = 3.666905E+05 days
2570 Date: 02/14/07 Time: 09:50:26 CPU Time: 0 0: 4:10.71 (250.71 sec) Binary
2572 Time Step No. = 960 Elapsed Time = 3.710191E+05 days
2573 Date: 02/14/07 Time: 09:50:30 CPU Time: 0 0: 4:14.70 (254.70 sec) Binary
2575 Time Step No. = 980 Elapsed Time = 3.996908E+05 days
2576 Date: 02/14/07 Time: 09:50:37 CPU Time: 0 0: 4:22.52 (262.52 sec) Binary
2578 Time Step No. = 1000 Elapsed Time = 4.303223E+05 days
2579 Date: 02/14/07 Time: 09:50:42 CPU Time: 0 0: 4:27.53 (267.53 sec) Binary
2581 Time Step No. = 1020 Elapsed Time = 4.969452E+05 days
2582 Date: 02/14/07 Time: 09:50:51 CPU Time: 0 0: 4:36.26 (276.26 sec) Binary
2584 Time Step No. = 1040 Elapsed Time = 5.110604E+05 days
2585 Date: 02/14/07 Time: 09:50:59 CPU Time: 0 0: 4:44.48 (284.48 sec) Binary
2587 Time Step No. = 1060 Elapsed Time = 7.111569E+05 days
2588 Date: 02/14/07 Time: 09:51:10 CPU Time: 0 0: 4:54.62 (294.62 sec) Binary
2590 Time Step No. = 1080 Elapsed Time = 7.246704E+05 days
2591 Date: 02/14/07 Time: 09:51:15 CPU Time: 0 0: 4:59.77 (299.77 sec) Binary
2593 Time Step No. = 1100 Elapsed Time = 7.854601E+05 days

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2594 Date: 02/14/07 Time: 09:51:23 CPU Time: 0 0: 5: 7.80 ( 307.80 sec) Binary
2596 Time Step No. = 1120 Elapsed Time = 7.901528E+05 days
2597 Date: 02/14/07 Time: 09:51:30 CPU Time: 0 0: 5:14.48 ( 314.48 sec) Binary
2599 Time Step No. = 1140 Elapsed Time = 8.541211E+05 days
2600 Date: 02/14/07 Time: 09:51:37 CPU Time: 0 0: 5:21.81 ( 321.81 sec) Binary
2602 Time Step No. = 1160 Elapsed Time = 8.709685E+05 days
2603 Date: 02/14/07 Time: 09:51:43 CPU Time: 0 0: 5:28.16 ( 328.16 sec) Binary
2605 Time Step No. = 1180 Elapsed Time = 9.290932E+05 days
2606 Date: 02/14/07 Time: 09:51:52 CPU Time: 0 0: 5:36.94 ( 336.94 sec) Binary
2608 Time Step No. = 1200 Elapsed Time = 9.435530E+05 days
2609 Date: 02/14/07 Time: 09:52:01 CPU Time: 0 0: 5:46.00 ( 346.00 sec) Binary
2611 Time Step No. = 1220 Elapsed Time = 9.561082E+05 days
2612 Date: 02/14/07 Time: 09:52:08 CPU Time: 0 0: 5:53.21 ( 353.21 sec) Binary
2614 Time Step No. = 1240 Elapsed Time = 9.627294E+05 days
2615 Date: 02/14/07 Time: 09:52:16 CPU Time: 0 0: 6: 0.55 ( 360.55 sec) Binary
2617 Time Step No. = 1260 Elapsed Time = 9.692275E+05 days
2618 Date: 02/14/07 Time: 09:52:25 CPU Time: 0 0: 6:10.21 ( 370.21 sec) Binary
2620 Time Step No. = 1280 Elapsed Time = 9.817318E+05 days
2621 Date: 02/14/07 Time: 09:52:31 CPU Time: 0 0: 6:15.94 ( 375.94 sec) Binary
2623 Time Step No. = 1300 Elapsed Time = 1.000743E+06 days
2624 Date: 02/14/07 Time: 09:52:39 CPU Time: 0 0: 6:23.60 ( 383.60 sec) Binary
2626 Time Step No. = 1320 Elapsed Time = 1.009513E+06 days
2627 Date: 02/14/07 Time: 09:52:48 CPU Time: 0 0: 6:32.43 ( 392.43 sec) Binary
2629 Time Step No. = 1340 Elapsed Time = 1.018276E+06 days
2630 Date: 02/14/07 Time: 09:52:54 CPU Time: 0 0: 6:39.16 ( 399.16 sec) Binary
2632 Time Step No. = 1360 Elapsed Time = 1.025094E+06 days
2633 Date: 02/14/07 Time: 09:52:58 CPU Time: 0 0: 6:42.55 ( 402.55 sec) Binary
2635 Time Step No. = 1380 Elapsed Time = 1.066575E+06 days
2636 Date: 02/14/07 Time: 09:53:06 CPU Time: 0 0: 6:50.59 ( 410.59 sec) Binary
2638 Time Step No. = 1400 Elapsed Time = 1.078881E+06 days
2639 Date: 02/14/07 Time: 09:53:10 CPU Time: 0 0: 6:54.29 ( 414.29 sec) Binary
2641 Time Step No. = 1420 Elapsed Time = 1.161020E+06 days
2642 Date: 02/14/07 Time: 09:53:18 CPU Time: 0 0: 7: 2.22 ( 422.22 sec) Binary
2644 Time Step No. = 1440 Elapsed Time = 1.265422E+06 days
2645 Date: 02/14/07 Time: 09:53:24 CPU Time: 0 0: 7: 8.96 ( 428.96 sec) Binary
2647 Time Step No. = 1460 Elapsed Time = 1.472580E+06 days
2648 Date: 02/14/07 Time: 09:53:28 CPU Time: 0 0: 7:13.09 ( 433.09 sec) Binary
2650 Time Step No. = 1480 Elapsed Time = 1.872580E+06 days
2651 Date: 02/14/07 Time: 09:53:34 CPU Time: 0 0: 7:18.70 ( 438.70 sec) Binary
2653 Time Step No. = 1500 Elapsed Time = 2.099689E+06 days
2654 Date: 02/14/07 Time: 09:53:41 CPU Time: 0 0: 7:25.83 ( 445.83 sec) Binary
2656 Time Step No. = 1520 Elapsed Time = 2.499689E+06 days
2657 Date: 02/14/07 Time: 09:53:47 CPU Time: 0 0: 7:31.23 ( 451.23 sec) Binary
2659 Time Step No. = 1540 Elapsed Time = 2.899689E+06 days
2660 Date: 02/14/07 Time: 09:53:51 CPU Time: 0 0: 7:35.99 ( 455.99 sec) Binary
2662 Time Step No. = 1560 Elapsed Time = 3.299689E+06 days
2663 Date: 02/14/07 Time: 09:53:56 CPU Time: 0 0: 7:40.13 ( 460.13 sec) Binary
2666 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
2682 CPU Time (this time step) = 0.27 sec = 0.00008 hr
2683 CPU Time (total for run) = 641.40 sec = 0.17817 hr
2684 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
2682 CPU Time (this time step) = 0.21 sec = 0.00006 hr
2683 CPU Time (total for run) = 463.86 sec = 0.12885 hr
2684 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
3360 Date: 02/14/07 Time: 11:06:02 CPU Time: 0 0:10:41.44 ( 641.44 sec) ASCII
3362 Time Step No. = 1578 Elapsed Time = 3.652431E+06 days
3363 Date: 02/14/07 Time: 11:06:02 CPU Time: 0 0:10:41.44 ( 641.44 sec) Binary
3368 *****
3369 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3370 * Completed: 02/14/07 at 11:06:02 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
3371 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
3360 Date: 02/14/07 Time: 09:53:59 CPU Time: 0 0: 7:43.88 ( 463.88 sec) ASCII
3362 Time Step No. = 1578 Elapsed Time = 3.652431E+06 days
3363 Date: 02/14/07 Time: 09:53:59 CPU Time: 0 0: 7:43.89 ( 463.89 sec) Binary
3368 *****
3369 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
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3370 * Completed: 02/14/07 at 09:53:59 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3371 *****

Number of difference sections found: 11
Number of difference records found: 160

DIFFERENCES /IGNORE={SPACING,TRAILING_SPACES,BLANK_LINES}/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008_OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008_OUT;1

BF2_QB0600_ES40_TEST7_V009_OUT.DIF

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009_OUT;1
3 ** Begun on: 02/14/07 at 10:57:31 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
4 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009_OUT;1
3 ** Begun on: 02/14/07 at 09:52:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009_OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_TEST7_V009_INP;2
62 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009_OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009_INP;2
62 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009_OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_CLOSURE.DAT;1
67 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009_OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_CLOSURE.DAT;1
67 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009_OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009_OUT;1
72 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009_OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009_OUT;1
72 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009_OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009_SUM;1
77 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009_OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009_SUM;1
77 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009_OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009_BIN;1
82 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009_OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009_BIN;1
82 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009_OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009_ROT;1
87 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009_OUT;1

```
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.OUT;1
1772 CPU Time (this time step) = 0.17 sec = 0.00005 hr
1773 CPU Time (total for run) = 82.18 sec = 0.02283 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 59.73 sec = 0.01659 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.OUT;1
2450 Date: 02/14/07 Time: 10:58:54 CPU Time: 0 0: 1:22.19 ( 82.19 sec) ASCII
2452 Time Step No. = 266 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:58:54 CPU Time: 0 0: 1:22.19 ( 82.19 sec) Binary
2455 Time Step No. = 280 Elapsed Time = 1.358585E-02 days
2456 Date: 02/14/07 Time: 10:59:01 CPU Time: 0 0: 1:29.14 ( 89.14 sec) Binary
2458 Time Step No. = 300 Elapsed Time = 8.176210E-01 days
2459 Date: 02/14/07 Time: 10:59:06 CPU Time: 0 0: 1:34.78 ( 94.78 sec) Binary
2461 Time Step No. = 320 Elapsed Time = 2.056227E+01 days
2462 Date: 02/14/07 Time: 10:59:11 CPU Time: 0 0: 1:39.04 ( 99.04 sec) Binary
2464 Time Step No. = 340 Elapsed Time = 3.883849E+02 days
2465 Date: 02/14/07 Time: 10:59:16 CPU Time: 0 0: 1:44.48 ( 104.48 sec) Binary
2467 Time Step No. = 360 Elapsed Time = 2.773294E+03 days
2468 Date: 02/14/07 Time: 10:59:24 CPU Time: 0 0: 1:52.49 ( 112.49 sec) Binary
2470 Time Step No. = 380 Elapsed Time = 6.744221E+03 days
2471 Date: 02/14/07 Time: 10:59:42 CPU Time: 0 0: 2:10.07 ( 130.07 sec) Binary
2473 Time Step No. = 400 Elapsed Time = 6.767595E+03 days
2474 Date: 02/14/07 Time: 10:59:45 CPU Time: 0 0: 2:12.93 ( 132.93 sec) Binary
2476 Time Step No. = 420 Elapsed Time = 6.921045E+03 days
2477 Date: 02/14/07 Time: 10:59:55 CPU Time: 0 0: 2:23.46 ( 143.46 sec) Binary
2479 Time Step No. = 440 Elapsed Time = 7.006907E+03 days
2480 Date: 02/14/07 Time: 10:59:59 CPU Time: 0 0: 2:27.13 ( 147.13 sec) Binary
2482 Time Step No. = 460 Elapsed Time = 7.220026E+03 days
2483 Date: 02/14/07 Time: 11:00:10 CPU Time: 0 0: 2:38.47 ( 158.47 sec) Binary
2485 Time Step No. = 480 Elapsed Time = 7.377731E+03 days
2486 Date: 02/14/07 Time: 11:00:14 CPU Time: 0 0: 2:42.58 ( 162.58 sec) Binary
2488 Time Step No. = 500 Elapsed Time = 8.413059E+03 days
2489 Date: 02/14/07 Time: 11:00:24 CPU Time: 0 0: 2:52.07 ( 172.07 sec) Binary
2491 Time Step No. = 520 Elapsed Time = 8.706621E+03 days
2492 Date: 02/14/07 Time: 11:00:35 CPU Time: 0 0: 3: 3.41 ( 183.41 sec) Binary
2494 Time Step No. = 540 Elapsed Time = 8.731156E+03 days
2495 Date: 02/14/07 Time: 11:00:38 CPU Time: 0 0: 3: 6.45 ( 186.45 sec) Binary
2497 Time Step No. = 560 Elapsed Time = 8.783097E+03 days
2498 Date: 02/14/07 Time: 11:00:48 CPU Time: 0 0: 3:16.68 ( 196.68 sec) Binary
2500 Time Step No. = 580 Elapsed Time = 8.873224E+03 days
2501 Date: 02/14/07 Time: 11:00:52 CPU Time: 0 0: 3:20.51 ( 200.51 sec) Binary
2503 Time Step No. = 600 Elapsed Time = 8.967808E+03 days
2504 Date: 02/14/07 Time: 11:01:02 CPU Time: 0 0: 3:30.69 ( 210.69 sec) Binary
2506 Time Step No. = 620 Elapsed Time = 9.629958E+03 days
2507 Date: 02/14/07 Time: 11:01:07 CPU Time: 0 0: 3:35.50 ( 215.50 sec) Binary
2509 Time Step No. = 640 Elapsed Time = 9.720759E+03 days
2510 Date: 02/14/07 Time: 11:01:18 CPU Time: 0 0: 3:46.67 ( 226.67 sec) Binary
2512 Time Step No. = 660 Elapsed Time = 9.817097E+03 days
2513 Date: 02/14/07 Time: 11:01:30 CPU Time: 0 0: 3:58.33 ( 238.33 sec) Binary
2515 Time Step No. = 680 Elapsed Time = 9.829974E+03 days
2516 Date: 02/14/07 Time: 11:01:33 CPU Time: 0 0: 4: 1.19 ( 241.19 sec) Binary
2518 Time Step No. = 700 Elapsed Time = 9.879586E+03 days
2519 Date: 02/14/07 Time: 11:01:43 CPU Time: 0 0: 4:11.00 ( 251.00 sec) Binary
2521 Time Step No. = 720 Elapsed Time = 9.926888E+03 days
2522 Date: 02/14/07 Time: 11:01:46 CPU Time: 0 0: 4:14.32 ( 254.32 sec) Binary
2524 Time Step No. = 740 Elapsed Time = 9.955795E+03 days
2525 Date: 02/14/07 Time: 11:01:56 CPU Time: 0 0: 4:24.31 ( 264.31 sec) Binary
2527 Time Step No. = 760 Elapsed Time = 1.004381E+04 days
2528 Date: 02/14/07 Time: 11:02:08 CPU Time: 0 0: 4:35.85 ( 275.85 sec) Binary
2530 Time Step No. = 780 Elapsed Time = 1.005117E+04 days
2531 Date: 02/14/07 Time: 11:02:11 CPU Time: 0 0: 4:38.37 ( 278.37 sec) Binary
2533 Time Step No. = 800 Elapsed Time = 1.011334E+04 days
2534 Date: 02/14/07 Time: 11:02:21 CPU Time: 0 0: 4:48.88 ( 288.88 sec) Binary
2536 Time Step No. = 820 Elapsed Time = 1.014038E+04 days
2537 Date: 02/14/07 Time: 11:02:24 CPU Time: 0 0: 4:51.91 ( 291.91 sec) Binary
2539 Time Step No. = 840 Elapsed Time = 1.021957E+04 days
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2540 Date: 02/14/07 Time: 11:02:34 CPU Time: 0 0: 5: 1.89 (301.89 sec) Binary
2542 Time Step No. = 860 Elapsed Time = 1.041817E+04 days
2543 Date: 02/14/07 Time: 11:02:39 CPU Time: 0 0: 5: 6.26 (306.26 sec) Binary
2545 Time Step No. = 880 Elapsed Time = 1.365675E+04 days
2546 Date: 02/14/07 Time: 11:02:46 CPU Time: 0 0: 5:13.56 (313.56 sec) Binary
2548 Time Step No. = 900 Elapsed Time = 1.556649E+04 days
2549 Date: 02/14/07 Time: 11:03:01 CPU Time: 0 0: 5:28.91 (328.91 sec) Binary
2551 Time Step No. = 920 Elapsed Time = 1.562828E+04 days
2552 Date: 02/14/07 Time: 11:03:05 CPU Time: 0 0: 5:32.77 (332.77 sec) Binary
2554 Time Step No. = 940 Elapsed Time = 1.939403E+04 days
2555 Date: 02/14/07 Time: 11:03:13 CPU Time: 0 0: 5:40.53 (340.53 sec) Binary
2557 Time Step No. = 960 Elapsed Time = 2.123309E+04 days
2558 Date: 02/14/07 Time: 11:03:29 CPU Time: 0 0: 5:56.24 (356.24 sec) Binary
2560 Time Step No. = 980 Elapsed Time = 2.131000E+04 days
2561 Date: 02/14/07 Time: 11:03:33 CPU Time: 0 0: 6: 0.44 (360.44 sec) Binary
2563 Time Step No. = 1000 Elapsed Time = 2.294013E+04 days
2564 Date: 02/14/07 Time: 11:03:50 CPU Time: 0 0: 6:17.25 (377.25 sec) Binary
2566 Time Step No. = 1020 Elapsed Time = 2.294896E+04 days
2567 Date: 02/14/07 Time: 11:03:53 CPU Time: 0 0: 6:20.03 (380.03 sec) Binary
2569 Time Step No. = 1040 Elapsed Time = 2.371476E+04 days
2570 Date: 02/14/07 Time: 11:03:58 CPU Time: 0 0: 6:25.45 (385.45 sec) Binary
2572 Time Step No. = 1060 Elapsed Time = 2.412100E+04 days
2573 Date: 02/14/07 Time: 11:04:13 CPU Time: 0 0: 6:40.22 (400.22 sec) Binary
2575 Time Step No. = 1080 Elapsed Time = 2.417691E+04 days
2576 Date: 02/14/07 Time: 11:04:25 CPU Time: 0 0: 6:52.05 (412.05 sec) Binary
2578 Time Step No. = 1100 Elapsed Time = 2.418063E+04 days
2579 Date: 02/14/07 Time: 11:04:27 CPU Time: 0 0: 6:54.45 (414.45 sec) Binary
2581 Time Step No. = 1120 Elapsed Time = 2.450356E+04 days
2582 Date: 02/14/07 Time: 11:04:32 CPU Time: 0 0: 6:59.27 (419.27 sec) Binary
2584 Time Step No. = 1140 Elapsed Time = 2.827711E+04 days
2585 Date: 02/14/07 Time: 11:04:44 CPU Time: 0 0: 7:11.15 (431.15 sec) Binary
2587 Time Step No. = 1160 Elapsed Time = 2.828638E+04 days
2588 Date: 02/14/07 Time: 11:04:54 CPU Time: 0 0: 7:21.35 (441.35 sec) Binary
2590 Time Step No. = 1180 Elapsed Time = 2.909021E+04 days
2591 Date: 02/14/07 Time: 11:05:00 CPU Time: 0 0: 7:26.87 (446.87 sec) Binary
2593 Time Step No. = 1200 Elapsed Time = 3.111835E+04 days
2594 Date: 02/14/07 Time: 11:05:16 CPU Time: 0 0: 7:43.21 (463.21 sec) Binary
2596 Time Step No. = 1220 Elapsed Time = 3.116449E+04 days
2597 Date: 02/14/07 Time: 11:05:20 CPU Time: 0 0: 7:47.14 (467.14 sec) Binary
2599 Time Step No. = 1240 Elapsed Time = 3.417846E+04 days
2600 Date: 02/14/07 Time: 11:05:27 CPU Time: 0 0: 7:54.18 (474.18 sec) Binary
2602 Time Step No. = 1260 Elapsed Time = 3.574682E+04 days
2603 Date: 02/14/07 Time: 11:05:44 CPU Time: 0 0: 8:10.43 (490.43 sec) Binary
2605 Time Step No. = 1280 Elapsed Time = 3.586166E+04 days
2606 Date: 02/14/07 Time: 11:05:48 CPU Time: 0 0: 8:14.88 (494.88 sec) Binary
2608 Time Step No. = 1300 Elapsed Time = 3.593185E+04 days
2609 Date: 02/14/07 Time: 11:05:59 CPU Time: 0 0: 8:25.48 (505.48 sec) Binary
2611 Time Step No. = 1320 Elapsed Time = 3.595645E+04 days
2612 Date: 02/14/07 Time: 11:06:10 CPU Time: 0 0: 8:36.21 (516.21 sec) Binary
2614 Time Step No. = 1340 Elapsed Time = 3.597432E+04 days
2615 Date: 02/14/07 Time: 11:06:13 CPU Time: 0 0: 8:39.43 (519.43 sec) Binary
2617 Time Step No. = 1360 Elapsed Time = 3.641887E+04 days
2618 Date: 02/14/07 Time: 11:06:25 CPU Time: 0 0: 8:51.48 (531.48 sec) Binary
2620 Time Step No. = 1380 Elapsed Time = 3.645168E+04 days
2621 Date: 02/14/07 Time: 11:06:29 CPU Time: 0 0: 8:55.23 (535.23 sec) Binary
2623 Time Step No. = 1400 Elapsed Time = 3.652004E+04 days
2624 Date: 02/14/07 Time: 11:06:39 CPU Time: 0 0: 9: 5.86 (545.86 sec) Binary
2626 Time Step No. = 1420 Elapsed Time = 3.652431E+04 days
2627 Date: 02/14/07 Time: 11:06:51 CPU Time: 0 0: 9:17.41 (557.41 sec) Binary
2629 Time Step No. = 1440 Elapsed Time = 3.652431E+04 days
2630 Date: 02/14/07 Time: 11:06:55 CPU Time: 0 0: 9:21.15 (561.15 sec) Binary
2632 Time Step No. = 1460 Elapsed Time = 3.652431E+04 days
2633 Date: 02/14/07 Time: 11:06:58 CPU Time: 0 0: 9:24.90 (564.90 sec) Binary
2635 Time Step No. = 1480 Elapsed Time = 3.652431E+04 days
2636 Date: 02/14/07 Time: 11:07:03 CPU Time: 0 0: 9:29.10 (569.10 sec) Binary
2638 Time Step No. = 1500 Elapsed Time = 3.652442E+04 days
2639 Date: 02/14/07 Time: 11:07:07 CPU Time: 0 0: 9:33.48 (573.48 sec) Binary
2641 Time Step No. = 1520 Elapsed Time = 3.653418E+04 days
2642 Date: 02/14/07 Time: 11:07:11 CPU Time: 0 0: 9:37.97 (577.97 sec) Binary
2644 Time Step No. = 1540 Elapsed Time = 3.666627E+04 days
2645 Date: 02/14/07 Time: 11:07:16 CPU Time: 0 0: 9:42.09 (582.09 sec) Binary
2647 Time Step No. = 1560 Elapsed Time = 3.668671E+04 days
2648 Date: 02/14/07 Time: 11:07:19 CPU Time: 0 0: 9:45.60 (585.60 sec) Binary
2650 Time Step No. = 1580 Elapsed Time = 3.670728E+04 days
2651 Date: 02/14/07 Time: 11:07:30 CPU Time: 0 0: 9:56.27 (596.27 sec) Binary
2653 Time Step No. = 1600 Elapsed Time = 3.678237E+04 days

2654	Date: 02/14/07	Time: 11:07:34	CPU Time: 0 0:10: 0.64 (600.64 sec)	Binary
2656	Time Step No. = 1620	Elapsed Time = 3.716779E+04 days		
2657	Date: 02/14/07	Time: 11:07:48	CPU Time: 0 0:10:14.23 (614.23 sec)	Binary
2659	Time Step No. = 1640	Elapsed Time = 3.718347E+04 days		
2660	Date: 02/14/07	Time: 11:07:51	CPU Time: 0 0:10:17.44 (617.44 sec)	Binary
2662	Time Step No. = 1660	Elapsed Time = 3.724390E+04 days		
2663	Date: 02/14/07	Time: 11:08:02	CPU Time: 0 0:10:28.65 (628.65 sec)	Binary
2665	Time Step No. = 1680	Elapsed Time = 3.730151E+04 days		
2666	Date: 02/14/07	Time: 11:08:07	CPU Time: 0 0:10:33.02 (633.02 sec)	Binary
2668	Time Step No. = 1700	Elapsed Time = 3.752349E+04 days		
2669	Date: 02/14/07	Time: 11:08:18	CPU Time: 0 0:10:44.24 (644.24 sec)	Binary
2671	Time Step No. = 1720	Elapsed Time = 3.773513E+04 days		
2672	Date: 02/14/07	Time: 11:08:23	CPU Time: 0 0:10:48.98 (648.98 sec)	Binary
2674	Time Step No. = 1740	Elapsed Time = 3.794042E+04 days		
2675	Date: 02/14/07	Time: 11:08:34	CPU Time: 0 0:11: 0.56 (660.56 sec)	Binary
2677	Time Step No. = 1760	Elapsed Time = 3.803760E+04 days		
2678	Date: 02/14/07	Time: 11:08:39	CPU Time: 0 0:11: 5.05 (665.05 sec)	Binary
2680	Time Step No. = 1780	Elapsed Time = 3.956208E+04 days		
2681	Date: 02/14/07	Time: 11:08:51	CPU Time: 0 0:11:17.34 (677.34 sec)	Binary
2683	Time Step No. = 1800	Elapsed Time = 4.088771E+04 days		
2684	Date: 02/14/07	Time: 11:09:11	CPU Time: 0 0:11:36.85 (696.85 sec)	Binary
2686	Time Step No. = 1820	Elapsed Time = 4.089527E+04 days		
2687	Date: 02/14/07	Time: 11:09:13	CPU Time: 0 0:11:39.72 (699.72 sec)	Binary
2689	Time Step No. = 1840	Elapsed Time = 4.155094E+04 days		
2690	Date: 02/14/07	Time: 11:09:19	CPU Time: 0 0:11:45.22 (705.22 sec)	Binary
2692	Time Step No. = 1860	Elapsed Time = 4.294061E+04 days		
2693	Date: 02/14/07	Time: 11:09:34	CPU Time: 0 0:12: 0.05 (720.05 sec)	Binary
2695	Time Step No. = 1880	Elapsed Time = 4.301587E+04 days		
2696	Date: 02/14/07	Time: 11:09:38	CPU Time: 0 0:12: 4.43 (724.43 sec)	Binary
2698	Time Step No. = 1900	Elapsed Time = 4.760255E+04 days		
2699	Date: 02/14/07	Time: 11:09:46	CPU Time: 0 0:12:12.49 (732.49 sec)	Binary
2701	Time Step No. = 1920	Elapsed Time = 4.987005E+04 days		
2702	Date: 02/14/07	Time: 11:10:03	CPU Time: 0 0:12:28.88 (748.88 sec)	Binary
2704	Time Step No. = 1940	Elapsed Time = 4.996373E+04 days		
2705	Date: 02/14/07	Time: 11:10:07	CPU Time: 0 0:12:33.36 (753.36 sec)	Binary
2707	Time Step No. = 1960	Elapsed Time = 5.010423E+04 days		
2708	Date: 02/14/07	Time: 11:10:18	CPU Time: 0 0:12:44.05 (764.05 sec)	Binary
2710	Time Step No. = 1980	Elapsed Time = 5.037876E+04 days		
2711	Date: 02/14/07	Time: 11:10:29	CPU Time: 0 0:12:55.58 (775.58 sec)	Binary
2713	Time Step No. = 2000	Elapsed Time = 5.039333E+04 days		
2714	Date: 02/14/07	Time: 11:10:33	CPU Time: 0 0:12:58.70 (778.70 sec)	Binary
2716	Time Step No. = 2020	Elapsed Time = 5.152954E+04 days		
2717	Date: 02/14/07	Time: 11:10:39	CPU Time: 0 0:13: 5.32 (785.32 sec)	Binary
2719	Time Step No. = 2040	Elapsed Time = 5.170355E+04 days		
2720	Date: 02/14/07	Time: 11:10:53	CPU Time: 0 0:13:18.74 (798.74 sec)	Binary
2722	Time Step No. = 2060	Elapsed Time = 5.179583E+04 days		
2723	Date: 02/14/07	Time: 11:11:05	CPU Time: 0 0:13:30.93 (810.93 sec)	Binary
2725	Time Step No. = 2080	Elapsed Time = 5.180198E+04 days		
2726	Date: 02/14/07	Time: 11:11:08	CPU Time: 0 0:13:33.69 (813.69 sec)	Binary
2728	Time Step No. = 2100	Elapsed Time = 5.184257E+04 days		
2729	Date: 02/14/07	Time: 11:11:18	CPU Time: 0 0:13:43.59 (823.59 sec)	Binary
2731	Time Step No. = 2120	Elapsed Time = 5.188772E+04 days		
2732	Date: 02/14/07	Time: 11:11:22	CPU Time: 0 0:13:47.59 (827.59 sec)	Binary
2734	Time Step No. = 2140	Elapsed Time = 5.191531E+04 days		
2735	Date: 02/14/07	Time: 11:11:32	CPU Time: 0 0:13:58.09 (838.09 sec)	Binary
2737	Time Step No. = 2160	Elapsed Time = 5.208117E+04 days		
2738	Date: 02/14/07	Time: 11:11:37	CPU Time: 0 0:14: 2.74 (842.74 sec)	Binary
2740	Time Step No. = 2180	Elapsed Time = 5.738239E+04 days		
2741	Date: 02/14/07	Time: 11:11:46	CPU Time: 0 0:14:11.76 (851.76 sec)	Binary
2743	Time Step No. = 2200	Elapsed Time = 5.874693E+04 days		
2744	Date: 02/14/07	Time: 11:12:04	CPU Time: 0 0:14:29.97 (869.97 sec)	Binary
2746	Time Step No. = 2220	Elapsed Time = 5.877274E+04 days		
2747	Date: 02/14/07	Time: 11:12:08	CPU Time: 0 0:14:33.56 (873.56 sec)	Binary
2749	Time Step No. = 2240	Elapsed Time = 6.101085E+04 days		
2750	Date: 02/14/07	Time: 11:12:14	CPU Time: 0 0:14:39.73 (879.73 sec)	Binary
2752	Time Step No. = 2260	Elapsed Time = 6.281765E+04 days		
2753	Date: 02/14/07	Time: 11:12:30	CPU Time: 0 0:14:56.03 (896.03 sec)	Binary
2755	Time Step No. = 2280	Elapsed Time = 6.294611E+04 days		
2756	Date: 02/14/07	Time: 11:12:35	CPU Time: 0 0:15: 0.56 (900.56 sec)	Binary
2758	Time Step No. = 2300	Elapsed Time = 6.313878E+04 days		
2759	Date: 02/14/07	Time: 11:12:45	CPU Time: 0 0:15:10.57 (910.57 sec)	Binary
2761	Time Step No. = 2320	Elapsed Time = 6.361068E+04 days		
2762	Date: 02/14/07	Time: 11:12:50	CPU Time: 0 0:15:15.76 (915.76 sec)	Binary
2764	Time Step No. = 2340	Elapsed Time = 6.737769E+04 days		
2765	Date: 02/14/07	Time: 11:13:08	CPU Time: 0 0:15:34.19 (934.19 sec)	Binary
2767	Time Step No. = 2360	Elapsed Time = 6.740478E+04 days		

2768 Date: 02/14/07 Time: 11:13:12 CPU Time: 0 0:15:37.76 (937.76 sec) Binary
2770 Time Step No. = 2380 Elapsed Time = 6.741391E+04 days
2771 Date: 02/14/07 Time: 11:13:22 CPU Time: 0 0:15:47.46 (947.46 sec) Binary
2773 Time Step No. = 2400 Elapsed Time = 6.761291E+04 days
2774 Date: 02/14/07 Time: 11:13:26 CPU Time: 0 0:15:52.19 (952.19 sec) Binary
2776 Time Step No. = 2420 Elapsed Time = 6.773452E+04 days
2777 Date: 02/14/07 Time: 11:13:38 CPU Time: 0 0:16: 3.31 (963.31 sec) Binary
2779 Time Step No. = 2440 Elapsed Time = 6.776699E+04 days
2780 Date: 02/14/07 Time: 11:13:48 CPU Time: 0 0:16:14.13 (974.13 sec) Binary
2782 Time Step No. = 2460 Elapsed Time = 6.779795E+04 days
2783 Date: 02/14/07 Time: 11:13:52 CPU Time: 0 0:16:17.87 (977.87 sec) Binary
2785 Time Step No. = 2480 Elapsed Time = 7.048314E+04 days
2786 Date: 02/14/07 Time: 11:13:58 CPU Time: 0 0:16:24.10 (984.10 sec) Binary
2788 Time Step No. = 2500 Elapsed Time = 8.118433E+04 days
2789 Date: 02/14/07 Time: 11:14:11 CPU Time: 0 0:16:36.66 (996.66 sec) Binary
2791 Time Step No. = 2520 Elapsed Time = 8.428954E+04 days
2792 Date: 02/14/07 Time: 11:14:27 CPU Time: 0 0:16:52.34 (1012.34 sec) Binary
2794 Time Step No. = 2540 Elapsed Time = 8.439398E+04 days
2795 Date: 02/14/07 Time: 11:14:31 CPU Time: 0 0:16:56.80 (1016.80 sec) Binary
2797 Time Step No. = 2560 Elapsed Time = 8.992246E+04 days
2798 Date: 02/14/07 Time: 11:14:39 CPU Time: 0 0:17: 4.94 (1024.94 sec) Binary
2800 Time Step No. = 2580 Elapsed Time = 9.139559E+04 days
2801 Date: 02/14/07 Time: 11:14:54 CPU Time: 0 0:17:19.94 (1039.94 sec) Binary
2803 Time Step No. = 2600 Elapsed Time = 9.153888E+04 days
2804 Date: 02/14/07 Time: 11:15:03 CPU Time: 0 0:17:28.91 (1048.91 sec) Binary
2806 Time Step No. = 2620 Elapsed Time = 9.175238E+04 days
2807 Date: 02/14/07 Time: 11:15:13 CPU Time: 0 0:17:38.25 (1058.25 sec) Binary
2809 Time Step No. = 2640 Elapsed Time = 9.184598E+04 days
2810 Date: 02/14/07 Time: 11:15:23 CPU Time: 0 0:17:48.75 (1068.75 sec) Binary
2812 Time Step No. = 2660 Elapsed Time = 9.190019E+04 days
2813 Date: 02/14/07 Time: 11:15:36 CPU Time: 0 0:18: 1.92 (1081.92 sec) Binary
2815 Time Step No. = 2680 Elapsed Time = 9.194215E+04 days
2816 Date: 02/14/07 Time: 11:15:45 CPU Time: 0 0:18:10.87 (1090.87 sec) Binary
2818 Time Step No. = 2700 Elapsed Time = 9.204832E+04 days
2819 Date: 02/14/07 Time: 11:15:56 CPU Time: 0 0:18:21.64 (1101.64 sec) Binary
2821 Time Step No. = 2720 Elapsed Time = 9.208378E+04 days
2822 Date: 02/14/07 Time: 11:16:10 CPU Time: 0 0:18:35.26 (1115.26 sec) Binary
2824 Time Step No. = 2740 Elapsed Time = 9.211140E+04 days
2825 Date: 02/14/07 Time: 11:16:23 CPU Time: 0 0:18:48.05 (1128.05 sec) Binary
2827 Time Step No. = 2760 Elapsed Time = 9.214645E+04 days
2828 Date: 02/14/07 Time: 11:16:37 CPU Time: 0 0:19: 2.60 (1142.60 sec) Binary
2830 Time Step No. = 2780 Elapsed Time = 9.216828E+04 days
2831 Date: 02/14/07 Time: 11:16:51 CPU Time: 0 0:19:15.94 (1155.94 sec) Binary
2833 Time Step No. = 2800 Elapsed Time = 9.218932E+04 days
2834 Date: 02/14/07 Time: 11:17:03 CPU Time: 0 0:19:28.05 (1168.05 sec) Binary
2836 Time Step No. = 2820 Elapsed Time = 9.220924E+04 days
2837 Date: 02/14/07 Time: 11:17:16 CPU Time: 0 0:19:41.00 (1181.00 sec) Binary
2839 Time Step No. = 2840 Elapsed Time = 9.222973E+04 days
2840 Date: 02/14/07 Time: 11:17:28 CPU Time: 0 0:19:53.65 (1193.65 sec) Binary
2842 Time Step No. = 2860 Elapsed Time = 9.225032E+04 days
2843 Date: 02/14/07 Time: 11:17:40 CPU Time: 0 0:20: 5.55 (1205.55 sec) Binary
2845 Time Step No. = 2880 Elapsed Time = 9.227070E+04 days
2846 Date: 02/14/07 Time: 11:17:55 CPU Time: 0 0:20:20.45 (1220.45 sec) Binary
2848 Time Step No. = 2900 Elapsed Time = 9.229232E+04 days
2849 Date: 02/14/07 Time: 11:18:09 CPU Time: 0 0:20:34.49 (1234.49 sec) Binary
2851 Time Step No. = 2920 Elapsed Time = 9.231037E+04 days
2852 Date: 02/14/07 Time: 11:18:21 CPU Time: 0 0:20:46.37 (1246.37 sec) Binary
2854 Time Step No. = 2940 Elapsed Time = 9.232895E+04 days
2855 Date: 02/14/07 Time: 11:18:32 CPU Time: 0 0:20:57.56 (1257.56 sec) Binary
2857 Time Step No. = 2960 Elapsed Time = 9.234552E+04 days
2858 Date: 02/14/07 Time: 11:18:42 CPU Time: 0 0:21: 7.67 (1267.67 sec) Binary
2860 Time Step No. = 2980 Elapsed Time = 9.236376E+04 days
2861 Date: 02/14/07 Time: 11:18:53 CPU Time: 0 0:21:18.09 (1278.09 sec) Binary
2863 Time Step No. = 3000 Elapsed Time = 9.238011E+04 days
2864 Date: 02/14/07 Time: 11:19:03 CPU Time: 0 0:21:27.97 (1287.97 sec) Binary
2866 Time Step No. = 3020 Elapsed Time = 9.239686E+04 days
2867 Date: 02/14/07 Time: 11:19:12 CPU Time: 0 0:21:37.16 (1297.16 sec) Binary
2869 Time Step No. = 3040 Elapsed Time = 9.241242E+04 days
2870 Date: 02/14/07 Time: 11:19:22 CPU Time: 0 0:21:47.08 (1307.08 sec) Binary
2872 Time Step No. = 3060 Elapsed Time = 9.242781E+04 days
2873 Date: 02/14/07 Time: 11:19:32 CPU Time: 0 0:21:56.31 (1316.31 sec) Binary
2875 Time Step No. = 3080 Elapsed Time = 9.244312E+04 days
2876 Date: 02/14/07 Time: 11:19:42 CPU Time: 0 0:22: 6.24 (1326.24 sec) Binary
2878 Time Step No. = 3100 Elapsed Time = 9.245725E+04 days
2879 Date: 02/14/07 Time: 11:19:51 CPU Time: 0 0:22:15.47 (1335.47 sec) Binary
2881 Time Step No. = 3120 Elapsed Time = 9.247181E+04 days

2882 Date: 02/14/07 Time: 11:20:00 CPU Time: 0 0:22:25.02 (1345.02 sec) Binary
2884 Time Step No. = 3140 Elapsed Time = 9.248478E+04 days
2885 Date: 02/14/07 Time: 11:20:09 CPU Time: 0 0:22:33.30 (1353.30 sec) Binary
2887 Time Step No. = 3160 Elapsed Time = 9.249861E+04 days
2888 Date: 02/14/07 Time: 11:20:18 CPU Time: 0 0:22:42.48 (1362.48 sec) Binary
2890 Time Step No. = 3180 Elapsed Time = 9.251140E+04 days
2891 Date: 02/14/07 Time: 11:20:26 CPU Time: 0 0:22:50.61 (1370.61 sec) Binary
2893 Time Step No. = 3200 Elapsed Time = 9.252410E+04 days
2894 Date: 02/14/07 Time: 11:20:35 CPU Time: 0 0:22:59.24 (1379.24 sec) Binary
2896 Time Step No. = 3220 Elapsed Time = 9.253757E+04 days
2897 Date: 02/14/07 Time: 11:20:43 CPU Time: 0 0:23: 7.17 (1387.17 sec) Binary
2899 Time Step No. = 3240 Elapsed Time = 9.255098E+04 days
2900 Date: 02/14/07 Time: 11:20:51 CPU Time: 0 0:23:15.26 (1395.26 sec) Binary
2902 Time Step No. = 3260 Elapsed Time = 9.256381E+04 days
2903 Date: 02/14/07 Time: 11:21:00 CPU Time: 0 0:23:23.96 (1403.96 sec) Binary
2905 Time Step No. = 3280 Elapsed Time = 9.257743E+04 days
2906 Date: 02/14/07 Time: 11:21:08 CPU Time: 0 0:23:31.91 (1411.91 sec) Binary
2908 Time Step No. = 3300 Elapsed Time = 9.259099E+04 days
2909 Date: 02/14/07 Time: 11:21:16 CPU Time: 0 0:23:40.56 (1420.56 sec) Binary
2911 Time Step No. = 3320 Elapsed Time = 9.260441E+04 days
2912 Date: 02/14/07 Time: 11:21:24 CPU Time: 0 0:23:48.57 (1428.57 sec) Binary
2914 Time Step No. = 3340 Elapsed Time = 9.261774E+04 days
2915 Date: 02/14/07 Time: 11:21:33 CPU Time: 0 0:23:57.27 (1437.27 sec) Binary
2917 Time Step No. = 3360 Elapsed Time = 9.263189E+04 days
2918 Date: 02/14/07 Time: 11:21:41 CPU Time: 0 0:24: 5.23 (1445.23 sec) Binary
2920 Time Step No. = 3380 Elapsed Time = 9.264596E+04 days
2921 Date: 02/14/07 Time: 11:21:49 CPU Time: 0 0:24:13.19 (1453.19 sec) Binary
2923 Time Step No. = 3400 Elapsed Time = 9.265943E+04 days
2924 Date: 02/14/07 Time: 11:21:58 CPU Time: 0 0:24:21.87 (1461.87 sec) Binary
2926 Time Step No. = 3420 Elapsed Time = 9.267372E+04 days
2927 Date: 02/14/07 Time: 11:22:05 CPU Time: 0 0:24:29.81 (1469.81 sec) Binary
2929 Time Step No. = 3440 Elapsed Time = 9.268795E+04 days
2930 Date: 02/14/07 Time: 11:22:14 CPU Time: 0 0:24:38.50 (1478.50 sec) Binary
2932 Time Step No. = 3460 Elapsed Time = 9.270205E+04 days
2933 Date: 02/14/07 Time: 11:22:22 CPU Time: 0 0:24:46.45 (1486.45 sec) Binary
2935 Time Step No. = 3480 Elapsed Time = 9.271604E+04 days
2936 Date: 02/14/07 Time: 11:22:31 CPU Time: 0 0:24:55.13 (1495.13 sec) Binary
2938 Time Step No. = 3500 Elapsed Time = 9.273088E+04 days
2939 Date: 02/14/07 Time: 11:22:39 CPU Time: 0 0:25: 3.08 (1503.08 sec) Binary
2941 Time Step No. = 3520 Elapsed Time = 9.274566E+04 days
2942 Date: 02/14/07 Time: 11:22:47 CPU Time: 0 0:25:11.06 (1511.06 sec) Binary
2944 Time Step No. = 3540 Elapsed Time = 9.275979E+04 days
2945 Date: 02/14/07 Time: 11:22:56 CPU Time: 0 0:25:19.74 (1519.74 sec) Binary
2947 Time Step No. = 3560 Elapsed Time = 9.277479E+04 days
2948 Date: 02/14/07 Time: 11:23:04 CPU Time: 0 0:25:27.68 (1527.68 sec) Binary
2950 Time Step No. = 3580 Elapsed Time = 9.278974E+04 days
2951 Date: 02/14/07 Time: 11:23:12 CPU Time: 0 0:25:36.33 (1536.33 sec) Binary
2953 Time Step No. = 3600 Elapsed Time = 9.280453E+04 days
2954 Date: 02/14/07 Time: 11:23:20 CPU Time: 0 0:25:44.28 (1544.28 sec) Binary
2956 Time Step No. = 3620 Elapsed Time = 9.281975E+04 days
2957 Date: 02/14/07 Time: 11:23:28 CPU Time: 0 0:25:52.22 (1552.22 sec) Binary
2959 Time Step No. = 3640 Elapsed Time = 9.283533E+04 days
2960 Date: 02/14/07 Time: 11:23:37 CPU Time: 0 0:26: 0.87 (1560.87 sec) Binary
2962 Time Step No. = 3660 Elapsed Time = 9.285137E+04 days
2963 Date: 02/14/07 Time: 11:23:45 CPU Time: 0 0:26: 8.81 (1568.81 sec) Binary
2965 Time Step No. = 3680 Elapsed Time = 9.286675E+04 days
2966 Date: 02/14/07 Time: 11:23:54 CPU Time: 0 0:26:17.68 (1577.68 sec) Binary
2968 Time Step No. = 3700 Elapsed Time = 9.288250E+04 days
2969 Date: 02/14/07 Time: 11:24:02 CPU Time: 0 0:26:25.60 (1585.60 sec) Binary
2971 Time Step No. = 3720 Elapsed Time = 9.289928E+04 days
2972 Date: 02/14/07 Time: 11:24:10 CPU Time: 0 0:26:34.24 (1594.24 sec) Binary
2974 Time Step No. = 3740 Elapsed Time = 9.291592E+04 days
2975 Date: 02/14/07 Time: 11:24:18 CPU Time: 0 0:26:42.19 (1602.19 sec) Binary
2977 Time Step No. = 3760 Elapsed Time = 9.293247E+04 days
2978 Date: 02/14/07 Time: 11:24:26 CPU Time: 0 0:26:50.17 (1610.17 sec) Binary
2980 Time Step No. = 3780 Elapsed Time = 9.294882E+04 days
2981 Date: 02/14/07 Time: 11:24:35 CPU Time: 0 0:26:58.83 (1618.83 sec) Binary
2983 Time Step No. = 3800 Elapsed Time = 9.296682E+04 days
2984 Date: 02/14/07 Time: 11:24:43 CPU Time: 0 0:27: 6.79 (1626.79 sec) Binary
2986 Time Step No. = 3820 Elapsed Time = 9.298414E+04 days
2987 Date: 02/14/07 Time: 11:24:52 CPU Time: 0 0:27:15.47 (1635.47 sec) Binary
2989 Time Step No. = 3840 Elapsed Time = 9.300189E+04 days
2990 Date: 02/14/07 Time: 11:25:00 CPU Time: 0 0:27:23.42 (1643.42 sec) Binary
2992 Time Step No. = 3860 Elapsed Time = 9.302014E+04 days
2993 Date: 02/14/07 Time: 11:25:08 CPU Time: 0 0:27:31.37 (1651.37 sec) Binary
2995 Time Step No. = 3880 Elapsed Time = 9.303884E+04 days

2996 Date: 02/14/07 Time: 11:25:16 CPU Time: 0 0:27:40.03 (1660.03 sec) Binary
2998 Time Step No. = 3900 Elapsed Time = 9.305808E+04 days
2999 Date: 02/14/07 Time: 11:25:24 CPU Time: 0 0:27:48.03 (1668.03 sec) Binary
3001 Time Step No. = 3920 Elapsed Time = 9.307720E+04 days
3002 Date: 02/14/07 Time: 11:25:33 CPU Time: 0 0:27:56.72 (1676.72 sec) Binary
3004 Time Step No. = 3940 Elapsed Time = 9.309678E+04 days
3005 Date: 02/14/07 Time: 11:25:41 CPU Time: 0 0:28: 4.70 (1684.70 sec) Binary
3007 Time Step No. = 3960 Elapsed Time = 9.311692E+04 days
3008 Date: 02/14/07 Time: 11:25:50 CPU Time: 0 0:28:13.40 (1693.40 sec) Binary
3010 Time Step No. = 3980 Elapsed Time = 9.313829E+04 days
3011 Date: 02/14/07 Time: 11:25:58 CPU Time: 0 0:28:21.36 (1701.36 sec) Binary
3013 Time Step No. = 4000 Elapsed Time = 9.316104E+04 days
3014 Date: 02/14/07 Time: 11:26:06 CPU Time: 0 0:28:29.50 (1709.50 sec) Binary
3016 Time Step No. = 4020 Elapsed Time = 9.318366E+04 days
3017 Date: 02/14/07 Time: 11:26:15 CPU Time: 0 0:28:38.17 (1718.17 sec) Binary
3019 Time Step No. = 4040 Elapsed Time = 9.320767E+04 days
3020 Date: 02/14/07 Time: 11:26:22 CPU Time: 0 0:28:46.11 (1726.11 sec) Binary
3022 Time Step No. = 4060 Elapsed Time = 9.323324E+04 days
3023 Date: 02/14/07 Time: 11:26:30 CPU Time: 0 0:28:54.12 (1734.12 sec) Binary
3025 Time Step No. = 4080 Elapsed Time = 9.325948E+04 days
3026 Date: 02/14/07 Time: 11:26:39 CPU Time: 0 0:29: 2.82 (1742.82 sec) Binary
3028 Time Step No. = 4100 Elapsed Time = 9.328834E+04 days
3029 Date: 02/14/07 Time: 11:26:47 CPU Time: 0 0:29:10.79 (1750.79 sec) Binary
3031 Time Step No. = 4120 Elapsed Time = 9.332128E+04 days
3032 Date: 02/14/07 Time: 11:26:56 CPU Time: 0 0:29:19.05 (1759.05 sec) Binary
3034 Time Step No. = 4140 Elapsed Time = 9.336491E+04 days
3035 Date: 02/14/07 Time: 11:27:05 CPU Time: 0 0:29:28.06 (1768.06 sec) Binary
3037 Time Step No. = 4160 Elapsed Time = 9.361676E+04 days
3038 Date: 02/14/07 Time: 11:27:14 CPU Time: 0 0:29:37.19 (1777.19 sec) Binary
3040 Time Step No. = 4180 Elapsed Time = 9.422795E+04 days
3041 Date: 02/14/07 Time: 11:27:26 CPU Time: 0 0:29:48.98 (1788.98 sec) Binary
3043 Time Step No. = 4200 Elapsed Time = 9.893912E+04 days
3044 Date: 02/14/07 Time: 11:27:36 CPU Time: 0 0:29:59.30 (1799.30 sec) Binary
3046 Time Step No. = 4220 Elapsed Time = 1.009195E+05 days
3047 Date: 02/14/07 Time: 11:27:55 CPU Time: 0 0:30:17.95 (1817.95 sec) Binary
3049 Time Step No. = 4240 Elapsed Time = 1.009222E+05 days
3050 Date: 02/14/07 Time: 11:28:03 CPU Time: 0 0:30:26.61 (1826.61 sec) Binary
3052 Time Step No. = 4260 Elapsed Time = 1.009250E+05 days
3053 Date: 02/14/07 Time: 11:28:11 CPU Time: 0 0:30:34.54 (1834.54 sec) Binary
3055 Time Step No. = 4280 Elapsed Time = 1.009279E+05 days
3056 Date: 02/14/07 Time: 11:28:19 CPU Time: 0 0:30:42.51 (1842.51 sec) Binary
3058 Time Step No. = 4300 Elapsed Time = 1.009308E+05 days
3059 Date: 02/14/07 Time: 11:28:28 CPU Time: 0 0:30:51.15 (1851.15 sec) Binary
3061 Time Step No. = 4320 Elapsed Time = 1.009339E+05 days
3062 Date: 02/14/07 Time: 11:28:36 CPU Time: 0 0:30:59.08 (1859.08 sec) Binary
3064 Time Step No. = 4340 Elapsed Time = 1.009372E+05 days
3065 Date: 02/14/07 Time: 11:28:44 CPU Time: 0 0:31: 7.04 (1867.04 sec) Binary
3067 Time Step No. = 4360 Elapsed Time = 1.009405E+05 days
3068 Date: 02/14/07 Time: 11:28:53 CPU Time: 0 0:31:15.70 (1875.70 sec) Binary
3070 Time Step No. = 4380 Elapsed Time = 1.009440E+05 days
3071 Date: 02/14/07 Time: 11:29:04 CPU Time: 0 0:31:27.15 (1887.15 sec) Binary
3073 Time Step No. = 4400 Elapsed Time = 1.009468E+05 days
3074 Date: 02/14/07 Time: 11:29:06 CPU Time: 0 0:31:29.56 (1889.56 sec) Binary
3076 Time Step No. = 4420 Elapsed Time = 1.011909E+05 days
3077 Date: 02/14/07 Time: 11:29:11 CPU Time: 0 0:31:34.40 (1894.40 sec) Binary
3079 Time Step No. = 4440 Elapsed Time = 1.024529E+05 days
3080 Date: 02/14/07 Time: 11:29:27 CPU Time: 0 0:31:50.35 (1910.35 sec) Binary
3082 Time Step No. = 4460 Elapsed Time = 1.026770E+05 days
3083 Date: 02/14/07 Time: 11:29:32 CPU Time: 0 0:31:55.07 (1915.07 sec) Binary
3085 Time Step No. = 4480 Elapsed Time = 1.041130E+05 days
3086 Date: 02/14/07 Time: 11:29:49 CPU Time: 0 0:32:11.77 (1931.77 sec) Binary
3088 Time Step No. = 4500 Elapsed Time = 1.041673E+05 days
3089 Date: 02/14/07 Time: 11:29:55 CPU Time: 0 0:32:18.28 (1938.28 sec) Binary
3091 Time Step No. = 4520 Elapsed Time = 1.049488E+05 days
3092 Date: 02/14/07 Time: 11:30:07 CPU Time: 0 0:32:30.26 (1950.26 sec) Binary
3094 Time Step No. = 4540 Elapsed Time = 1.066226E+05 days
3095 Date: 02/14/07 Time: 11:30:20 CPU Time: 0 0:32:43.24 (1963.24 sec) Binary
3097 Time Step No. = 4560 Elapsed Time = 1.087496E+05 days
3098 Date: 02/14/07 Time: 11:30:31 CPU Time: 0 0:32:54.44 (1974.44 sec) Binary
3100 Time Step No. = 4580 Elapsed Time = 1.143056E+05 days
3101 Date: 02/14/07 Time: 11:30:38 CPU Time: 0 0:33: 0.95 (1980.95 sec) Binary
3103 Time Step No. = 4600 Elapsed Time = 1.395547E+05 days
3104 Date: 02/14/07 Time: 11:30:50 CPU Time: 0 0:33:12.50 (1992.50 sec) Binary
3106 Time Step No. = 4620 Elapsed Time = 1.524241E+05 days
3107 Date: 02/14/07 Time: 11:31:04 CPU Time: 0 0:33:26.57 (2006.57 sec) Binary
3109 Time Step No. = 4640 Elapsed Time = 1.553196E+05 days

3110	Date: 02/14/07	Time: 11:31:16	CPU Time: 0 0:33:38.44 (2018.44 sec)	Binary
3112	Time Step No. = 4660	Elapsed Time = 1.591320E+05 days		
3113	Date: 02/14/07	Time: 11:31:27	CPU Time: 0 0:33:49.90 (2029.90 sec)	Binary
3115	Time Step No. = 4680	Elapsed Time = 1.721310E+05 days		
3116	Date: 02/14/07	Time: 11:31:39	CPU Time: 0 0:34: 2.23 (2042.23 sec)	Binary
3118	Time Step No. = 4700	Elapsed Time = 1.944112E+05 days		
3119	Date: 02/14/07	Time: 11:31:51	CPU Time: 0 0:34:13.59 (2053.59 sec)	Binary
3121	Time Step No. = 4720	Elapsed Time = 1.986996E+05 days		
3122	Date: 02/14/07	Time: 11:32:03	CPU Time: 0 0:34:25.81 (2065.81 sec)	Binary
3124	Time Step No. = 4740	Elapsed Time = 2.057306E+05 days		
3125	Date: 02/14/07	Time: 11:32:13	CPU Time: 0 0:34:36.08 (2076.08 sec)	Binary
3127	Time Step No. = 4760	Elapsed Time = 2.132912E+05 days		
3128	Date: 02/14/07	Time: 11:32:24	CPU Time: 0 0:34:46.32 (2086.32 sec)	Binary
3130	Time Step No. = 4780	Elapsed Time = 2.193162E+05 days		
3131	Date: 02/14/07	Time: 11:32:35	CPU Time: 0 0:34:57.36 (2097.36 sec)	Binary
3133	Time Step No. = 4800	Elapsed Time = 2.226687E+05 days		
3134	Date: 02/14/07	Time: 11:32:47	CPU Time: 0 0:35:10.26 (2110.26 sec)	Binary
3136	Time Step No. = 4820	Elapsed Time = 2.259834E+05 days		
3137	Date: 02/14/07	Time: 11:32:57	CPU Time: 0 0:35:19.35 (2119.35 sec)	Binary
3139	Time Step No. = 4840	Elapsed Time = 2.712249E+05 days		
3140	Date: 02/14/07	Time: 11:33:05	CPU Time: 0 0:35:27.31 (2127.31 sec)	Binary
3142	Time Step No. = 4860	Elapsed Time = 3.652431E+05 days		
3143	Date: 02/14/07	Time: 11:33:15	CPU Time: 0 0:35:37.82 (2137.82 sec)	Binary
3145	Time Step No. = 4880	Elapsed Time = 3.652444E+05 days		
3146	Date: 02/14/07	Time: 11:33:19	CPU Time: 0 0:35:41.46 (2141.46 sec)	Binary
3148	Time Step No. = 4900	Elapsed Time = 3.653026E+05 days		
3149	Date: 02/14/07	Time: 11:33:23	CPU Time: 0 0:35:45.53 (2145.53 sec)	Binary
3151	Time Step No. = 4920	Elapsed Time = 3.655257E+05 days		
3152	Date: 02/14/07	Time: 11:33:31	CPU Time: 0 0:35:54.01 (2154.01 sec)	Binary
3154	Time Step No. = 4940	Elapsed Time = 3.664875E+05 days		
3155	Date: 02/14/07	Time: 11:33:41	CPU Time: 0 0:36: 3.56 (2163.56 sec)	Binary
3157	Time Step No. = 4960	Elapsed Time = 3.665925E+05 days		
3158	Date: 02/14/07	Time: 11:33:43	CPU Time: 0 0:36: 5.71 (2165.71 sec)	Binary
3160	Time Step No. = 4980	Elapsed Time = 3.668305E+05 days		
3161	Date: 02/14/07	Time: 11:33:47	CPU Time: 0 0:36: 9.92 (2169.92 sec)	Binary
3163	Time Step No. = 5000	Elapsed Time = 3.681194E+05 days		
3164	Date: 02/14/07	Time: 11:33:57	CPU Time: 0 0:36:19.63 (2179.63 sec)	Binary
3166	Time Step No. = 5020	Elapsed Time = 3.709195E+05 days		
3167	Date: 02/14/07	Time: 11:34:06	CPU Time: 0 0:36:28.85 (2188.85 sec)	Binary
3169	Time Step No. = 5040	Elapsed Time = 4.282789E+05 days		
3170	Date: 02/14/07	Time: 11:34:16	CPU Time: 0 0:36:38.98 (2198.98 sec)	Binary
3172	Time Step No. = 5060	Elapsed Time = 4.653183E+05 days		
3173	Date: 02/14/07	Time: 11:34:27	CPU Time: 0 0:36:49.61 (2209.61 sec)	Binary
3175	Time Step No. = 5080	Elapsed Time = 4.900809E+05 days		
3176	Date: 02/14/07	Time: 11:34:37	CPU Time: 0 0:36:59.18 (2219.18 sec)	Binary
3178	Time Step No. = 5100	Elapsed Time = 5.157774E+05 days		
3179	Date: 02/14/07	Time: 11:34:45	CPU Time: 0 0:37: 7.51 (2227.51 sec)	Binary
3181	Time Step No. = 5120	Elapsed Time = 5.494751E+05 days		
3182	Date: 02/14/07	Time: 11:34:54	CPU Time: 0 0:37:16.65 (2236.65 sec)	Binary
3184	Time Step No. = 5140	Elapsed Time = 5.579649E+05 days		
3185	Date: 02/14/07	Time: 11:35:08	CPU Time: 0 0:37:30.86 (2250.86 sec)	Binary
3187	Time Step No. = 5160	Elapsed Time = 5.584439E+05 days		
3188	Date: 02/14/07	Time: 11:35:13	CPU Time: 0 0:37:35.83 (2255.83 sec)	Binary
3190	Time Step No. = 5180	Elapsed Time = 5.690395E+05 days		
3191	Date: 02/14/07	Time: 11:35:22	CPU Time: 0 0:37:44.12 (2264.12 sec)	Binary
3193	Time Step No. = 5200	Elapsed Time = 5.825788E+05 days		
3194	Date: 02/14/07	Time: 11:35:34	CPU Time: 0 0:37:56.18 (2276.18 sec)	Binary
3196	Time Step No. = 5220	Elapsed Time = 5.945658E+05 days		
3197	Date: 02/14/07	Time: 11:35:42	CPU Time: 0 0:38: 4.10 (2284.10 sec)	Binary
3199	Time Step No. = 5240	Elapsed Time = 6.257360E+05 days		
3200	Date: 02/14/07	Time: 11:35:50	CPU Time: 0 0:38:12.48 (2292.48 sec)	Binary
3202	Time Step No. = 5260	Elapsed Time = 6.705437E+05 days		
3203	Date: 02/14/07	Time: 11:36:02	CPU Time: 0 0:38:23.92 (2303.92 sec)	Binary
3205	Time Step No. = 5280	Elapsed Time = 7.337650E+05 days		
3206	Date: 02/14/07	Time: 11:36:13	CPU Time: 0 0:38:35.72 (2315.72 sec)	Binary
3208	Time Step No. = 5300	Elapsed Time = 7.882779E+05 days		
3209	Date: 02/14/07	Time: 11:36:25	CPU Time: 0 0:38:47.32 (2327.32 sec)	Binary
3211	Time Step No. = 5320	Elapsed Time = 9.160867E+05 days		
3212	Date: 02/14/07	Time: 11:36:38	CPU Time: 0 0:39: 0.31 (2340.31 sec)	Binary
3214	Time Step No. = 5340	Elapsed Time = 9.335625E+05 days		
3215	Date: 02/14/07	Time: 11:36:50	CPU Time: 0 0:39:12.56 (2352.56 sec)	Binary
3217	Time Step No. = 5360	Elapsed Time = 9.974253E+05 days		
3218	Date: 02/14/07	Time: 11:37:01	CPU Time: 0 0:39:23.70 (2363.70 sec)	Binary
3220	Time Step No. = 5380	Elapsed Time = 1.042229E+06 days		
3221	Date: 02/14/07	Time: 11:37:09	CPU Time: 0 0:39:31.46 (2371.46 sec)	Binary
3223	Time Step No. = 5400	Elapsed Time = 1.260820E+06 days		

3224 Date: 02/14/07 Time: 11:37:20 CPU Time: 0 0:39:41.92 (2381.92 sec) Binary
3226 Time Step No. = 5420 Elapsed Time = 1.334337E+06 days
3227 Date: 02/14/07 Time: 11:37:31 CPU Time: 0 0:39:52.83 (2392.83 sec) Binary
3229 Time Step No. = 5440 Elapsed Time = 1.345331E+06 days
3230 Date: 02/14/07 Time: 11:37:36 CPU Time: 0 0:39:58.39 (2398.39 sec) Binary
3232 Time Step No. = 5460 Elapsed Time = 1.427559E+06 days
3233 Date: 02/14/07 Time: 11:37:49 CPU Time: 0 0:40:11.65 (2411.65 sec) Binary
3235 Time Step No. = 5480 Elapsed Time = 1.441381E+06 days
3236 Date: 02/14/07 Time: 11:37:58 CPU Time: 0 0:40:20.58 (2420.58 sec) Binary
3238 Time Step No. = 5500 Elapsed Time = 1.579545E+06 days
3239 Date: 02/14/07 Time: 11:38:09 CPU Time: 0 0:40:30.84 (2430.84 sec) Binary
3241 Time Step No. = 5520 Elapsed Time = 1.722127E+06 days
3242 Date: 02/14/07 Time: 11:38:21 CPU Time: 0 0:40:43.07 (2443.07 sec) Binary
3244 Time Step No. = 5540 Elapsed Time = 1.729742E+06 days
3245 Date: 02/14/07 Time: 11:38:25 CPU Time: 0 0:40:47.53 (2447.53 sec) Binary
3247 Time Step No. = 5560 Elapsed Time = 1.756478E+06 days
3248 Date: 02/14/07 Time: 11:38:34 CPU Time: 0 0:40:56.51 (2456.51 sec) Binary
3250 Time Step No. = 5580 Elapsed Time = 1.769620E+06 days
3251 Date: 02/14/07 Time: 11:38:45 CPU Time: 0 0:41: 7.47 (2467.47 sec) Binary
3253 Time Step No. = 5600 Elapsed Time = 1.839288E+06 days
3254 Date: 02/14/07 Time: 11:38:55 CPU Time: 0 0:41:17.44 (2477.44 sec) Binary
3256 Time Step No. = 5620 Elapsed Time = 2.169142E+06 days
3257 Date: 02/14/07 Time: 11:39:06 CPU Time: 0 0:41:27.73 (2487.73 sec) Binary
3259 Time Step No. = 5640 Elapsed Time = 2.272625E+06 days
3260 Date: 02/14/07 Time: 11:39:13 CPU Time: 0 0:41:34.77 (2494.77 sec) Binary
3262 Time Step No. = 5660 Elapsed Time = 2.337198E+06 days
3263 Date: 02/14/07 Time: 11:39:22 CPU Time: 0 0:41:44.41 (2504.41 sec) Binary
3265 Time Step No. = 5680 Elapsed Time = 2.341430E+06 days
3266 Date: 02/14/07 Time: 11:39:32 CPU Time: 0 0:41:54.12 (2514.12 sec) Binary
3268 Time Step No. = 5700 Elapsed Time = 2.377641E+06 days
3269 Date: 02/14/07 Time: 11:39:39 CPU Time: 0 0:42: 0.81 (2520.81 sec) Binary
3271 Time Step No. = 5720 Elapsed Time = 2.750209E+06 days
3272 Date: 02/14/07 Time: 11:39:47 CPU Time: 0 0:42: 9.26 (2529.26 sec) Binary
3274 Time Step No. = 5740 Elapsed Time = 2.753701E+06 days
3275 Date: 02/14/07 Time: 11:39:58 CPU Time: 0 0:42:19.94 (2539.94 sec) Binary
3277 Time Step No. = 5760 Elapsed Time = 2.765715E+06 days
3278 Date: 02/14/07 Time: 11:40:06 CPU Time: 0 0:42:27.62 (2547.62 sec) Binary
3280 Time Step No. = 5780 Elapsed Time = 2.912561E+06 days
3281 Date: 02/14/07 Time: 11:40:16 CPU Time: 0 0:42:37.60 (2557.60 sec) Binary
3283 Time Step No. = 5800 Elapsed Time = 3.153612E+06 days
3284 Date: 02/14/07 Time: 11:40:26 CPU Time: 0 0:42:48.40 (2568.40 sec) Binary
3286 Time Step No. = 5820 Elapsed Time = 3.155082E+06 days
3287 Date: 02/14/07 Time: 11:40:37 CPU Time: 0 0:42:58.48 (2578.48 sec) Binary
3289 Time Step No. = 5840 Elapsed Time = 3.160573E+06 days
3290 Date: 02/14/07 Time: 11:40:42 CPU Time: 0 0:43: 4.20 (2584.20 sec) Binary
3292 Time Step No. = 5860 Elapsed Time = 3.171708E+06 days
3293 Date: 02/14/07 Time: 11:40:49 CPU Time: 0 0:43:11.09 (2591.09 sec) Binary
3295 Time Step No. = 5880 Elapsed Time = 3.314482E+06 days
3296 Date: 02/14/07 Time: 11:40:57 CPU Time: 0 0:43:19.13 (2599.13 sec) Binary
3298 Time Step No. = 5900 Elapsed Time = 3.592771E+06 days
3299 Date: 02/14/07 Time: 11:41:06 CPU Time: 0 0:43:27.48 (2607.48 sec) Binary
3302 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
2450 Date: 02/14/07 Time: 09:53:25 CPU Time: 0 0: 0:59.74 (59.74 sec) ASCII
2452 Time Step No. = 266 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:53:25 CPU Time: 0 0: 0:59.75 (59.75 sec) Binary
2455 Time Step No. = 280 Elapsed Time = 1.358585E-02 days
2456 Date: 02/14/07 Time: 09:53:30 CPU Time: 0 0: 1: 5.15 (65.15 sec) Binary
2458 Time Step No. = 300 Elapsed Time = 8.176210E-01 days
2459 Date: 02/14/07 Time: 09:53:35 CPU Time: 0 0: 1: 9.55 (69.55 sec) Binary
2461 Time Step No. = 320 Elapsed Time = 2.056227E+01 days
2462 Date: 02/14/07 Time: 09:53:38 CPU Time: 0 0: 1:12.89 (72.89 sec) Binary
2464 Time Step No. = 340 Elapsed Time = 3.883849E+02 days
2465 Date: 02/14/07 Time: 09:53:42 CPU Time: 0 0: 1:17.15 (77.15 sec) Binary
2467 Time Step No. = 360 Elapsed Time = 2.773294E+03 days
2468 Date: 02/14/07 Time: 09:53:49 CPU Time: 0 0: 1:23.42 (83.42 sec) Binary
2470 Time Step No. = 380 Elapsed Time = 6.744221E+03 days
2471 Date: 02/14/07 Time: 09:54:02 CPU Time: 0 0: 1:37.17 (97.17 sec) Binary
2473 Time Step No. = 400 Elapsed Time = 6.767595E+03 days
2474 Date: 02/14/07 Time: 09:54:05 CPU Time: 0 0: 1:39.45 (99.45 sec) Binary
2476 Time Step No. = 420 Elapsed Time = 6.921045E+03 days
2477 Date: 02/14/07 Time: 09:54:13 CPU Time: 0 0: 1:47.65 (107.65 sec) Binary
2479 Time Step No. = 440 Elapsed Time = 7.006907E+03 days
2480 Date: 02/14/07 Time: 09:54:16 CPU Time: 0 0: 1:50.59 (110.59 sec) Binary
2482 Time Step No. = 460 Elapsed Time = 7.220026E+03 days

2483 Date: 02/14/07 Time: 09:54:25 CPU Time: 0 0: 1:59.64 (119.64 sec) Binary
2485 Time Step No. = 480 Elapsed Time = 7.377731E+03 days
2486 Date: 02/14/07 Time: 09:54:28 CPU Time: 0 0: 2: 2.92 (122.92 sec) Binary
2488 Time Step No. = 500 Elapsed Time = 8.413059E+03 days
2489 Date: 02/14/07 Time: 09:54:36 CPU Time: 0 0: 2:10.47 (130.47 sec) Binary
2491 Time Step No. = 520 Elapsed Time = 8.706621E+03 days
2492 Date: 02/14/07 Time: 09:54:45 CPU Time: 0 0: 2:19.54 (139.54 sec) Binary
2494 Time Step No. = 540 Elapsed Time = 8.731156E+03 days
2495 Date: 02/14/07 Time: 09:54:47 CPU Time: 0 0: 2:21.99 (141.99 sec) Binary
2497 Time Step No. = 560 Elapsed Time = 8.783097E+03 days
2498 Date: 02/14/07 Time: 09:54:56 CPU Time: 0 0: 2:30.13 (150.13 sec) Binary
2500 Time Step No. = 580 Elapsed Time = 8.873224E+03 days
2501 Date: 02/14/07 Time: 09:54:59 CPU Time: 0 0: 2:33.21 (153.21 sec) Binary
2503 Time Step No. = 600 Elapsed Time = 8.967808E+03 days
2504 Date: 02/14/07 Time: 09:55:07 CPU Time: 0 0: 2:41.33 (161.33 sec) Binary
2506 Time Step No. = 620 Elapsed Time = 9.629958E+03 days
2507 Date: 02/14/07 Time: 09:55:11 CPU Time: 0 0: 2:45.19 (165.19 sec) Binary
2509 Time Step No. = 640 Elapsed Time = 9.720759E+03 days
2510 Date: 02/14/07 Time: 09:55:20 CPU Time: 0 0: 2:54.09 (174.09 sec) Binary
2512 Time Step No. = 660 Elapsed Time = 9.817097E+03 days
2513 Date: 02/14/07 Time: 09:55:29 CPU Time: 0 0: 3: 3.42 (183.42 sec) Binary
2515 Time Step No. = 680 Elapsed Time = 9.829974E+03 days
2516 Date: 02/14/07 Time: 09:55:31 CPU Time: 0 0: 3: 5.70 (185.70 sec) Binary
2518 Time Step No. = 700 Elapsed Time = 9.879586E+03 days
2519 Date: 02/14/07 Time: 09:55:39 CPU Time: 0 0: 3:13.56 (193.56 sec) Binary
2521 Time Step No. = 720 Elapsed Time = 9.926888E+03 days
2522 Date: 02/14/07 Time: 09:55:42 CPU Time: 0 0: 3:16.22 (196.22 sec) Binary
2524 Time Step No. = 740 Elapsed Time = 9.955795E+03 days
2525 Date: 02/14/07 Time: 09:55:50 CPU Time: 0 0: 3:24.20 (204.20 sec) Binary
2527 Time Step No. = 760 Elapsed Time = 1.004381E+04 days
2528 Date: 02/14/07 Time: 09:55:59 CPU Time: 0 0: 3:33.37 (213.37 sec) Binary
2530 Time Step No. = 780 Elapsed Time = 1.005117E+04 days
2531 Date: 02/14/07 Time: 09:56:01 CPU Time: 0 0: 3:35.40 (215.40 sec) Binary
2533 Time Step No. = 800 Elapsed Time = 1.011334E+04 days
2534 Date: 02/14/07 Time: 09:56:10 CPU Time: 0 0: 3:43.80 (223.80 sec) Binary
2536 Time Step No. = 820 Elapsed Time = 1.014038E+04 days
2537 Date: 02/14/07 Time: 09:56:12 CPU Time: 0 0: 3:46.20 (226.20 sec) Binary
2539 Time Step No. = 840 Elapsed Time = 1.021957E+04 days
2540 Date: 02/14/07 Time: 09:56:20 CPU Time: 0 0: 3:53.85 (233.85 sec) Binary
2542 Time Step No. = 860 Elapsed Time = 1.041817E+04 days
2543 Date: 02/14/07 Time: 09:56:23 CPU Time: 0 0: 3:57.18 (237.18 sec) Binary
2545 Time Step No. = 880 Elapsed Time = 1.365675E+04 days
2546 Date: 02/14/07 Time: 09:56:29 CPU Time: 0 0: 4: 2.87 (242.87 sec) Binary
2548 Time Step No. = 900 Elapsed Time = 1.556649E+04 days
2549 Date: 02/14/07 Time: 09:56:41 CPU Time: 0 0: 4:14.94 (254.94 sec) Binary
2551 Time Step No. = 920 Elapsed Time = 1.562828E+04 days
2552 Date: 02/14/07 Time: 09:56:44 CPU Time: 0 0: 4:18.01 (258.01 sec) Binary
2554 Time Step No. = 940 Elapsed Time = 1.939403E+04 days
2555 Date: 02/14/07 Time: 09:56:51 CPU Time: 0 0: 4:24.20 (264.20 sec) Binary
2557 Time Step No. = 960 Elapsed Time = 2.123309E+04 days
2558 Date: 02/14/07 Time: 09:57:03 CPU Time: 0 0: 4:36.67 (276.67 sec) Binary
2560 Time Step No. = 980 Elapsed Time = 2.131000E+04 days
2561 Date: 02/14/07 Time: 09:57:06 CPU Time: 0 0: 4:40.02 (280.02 sec) Binary
2563 Time Step No. = 1000 Elapsed Time = 2.294013E+04 days
2564 Date: 02/14/07 Time: 09:57:20 CPU Time: 0 0: 4:53.40 (293.40 sec) Binary
2566 Time Step No. = 1020 Elapsed Time = 2.294896E+04 days
2567 Date: 02/14/07 Time: 09:57:22 CPU Time: 0 0: 4:55.43 (295.43 sec) Binary
2569 Time Step No. = 1040 Elapsed Time = 2.371476E+04 days
2570 Date: 02/14/07 Time: 09:57:26 CPU Time: 0 0: 4:59.39 (299.39 sec) Binary
2572 Time Step No. = 1060 Elapsed Time = 2.412100E+04 days
2573 Date: 02/14/07 Time: 09:57:37 CPU Time: 0 0: 5:10.13 (310.13 sec) Binary
2575 Time Step No. = 1080 Elapsed Time = 2.417691E+04 days
2576 Date: 02/14/07 Time: 09:57:46 CPU Time: 0 0: 5:19.31 (319.31 sec) Binary
2578 Time Step No. = 1100 Elapsed Time = 2.418063E+04 days
2579 Date: 02/14/07 Time: 09:57:48 CPU Time: 0 0: 5:21.22 (321.22 sec) Binary
2581 Time Step No. = 1120 Elapsed Time = 2.450356E+04 days
2582 Date: 02/14/07 Time: 09:57:51 CPU Time: 0 0: 5:24.98 (324.98 sec) Binary
2584 Time Step No. = 1140 Elapsed Time = 2.827711E+04 days
2585 Date: 02/14/07 Time: 09:58:01 CPU Time: 0 0: 5:34.23 (334.23 sec) Binary
2587 Time Step No. = 1160 Elapsed Time = 2.828638E+04 days
2588 Date: 02/14/07 Time: 09:58:09 CPU Time: 0 0: 5:42.19 (342.19 sec) Binary
2590 Time Step No. = 1180 Elapsed Time = 2.909021E+04 days
2591 Date: 02/14/07 Time: 09:58:13 CPU Time: 0 0: 5:46.52 (346.52 sec) Binary
2593 Time Step No. = 1200 Elapsed Time = 3.111835E+04 days
2594 Date: 02/14/07 Time: 09:58:26 CPU Time: 0 0: 5:59.27 (359.27 sec) Binary
2596 Time Step No. = 1220 Elapsed Time = 3.116449E+04 days

2597 Date: 02/14/07 Time: 09:58:29 CPU Time: 0 0: 6: 2.34 (362.34 sec) Binary
2599 Time Step No. = 1240 Elapsed Time = 3.417846E+04 days
2600 Date: 02/14/07 Time: 09:58:35 CPU Time: 0 0: 6: 7.83 (367.83 sec) Binary
2602 Time Step No. = 1260 Elapsed Time = 3.574682E+04 days
2603 Date: 02/14/07 Time: 09:58:47 CPU Time: 0 0: 6:20.42 (380.42 sec) Binary
2605 Time Step No. = 1280 Elapsed Time = 3.586166E+04 days
2606 Date: 02/14/07 Time: 09:58:51 CPU Time: 0 0: 6:23.93 (383.93 sec) Binary
2608 Time Step No. = 1300 Elapsed Time = 3.593185E+04 days
2609 Date: 02/14/07 Time: 09:58:59 CPU Time: 0 0: 6:32.02 (392.02 sec) Binary
2611 Time Step No. = 1320 Elapsed Time = 3.595645E+04 days
2612 Date: 02/14/07 Time: 09:59:07 CPU Time: 0 0: 6:40.37 (400.37 sec) Binary
2614 Time Step No. = 1340 Elapsed Time = 3.597432E+04 days
2615 Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 6:42.90 (402.90 sec) Binary
2617 Time Step No. = 1360 Elapsed Time = 3.641887E+04 days
2618 Date: 02/14/07 Time: 09:59:19 CPU Time: 0 0: 6:52.29 (412.29 sec) Binary
2620 Time Step No. = 1380 Elapsed Time = 3.645168E+04 days
2621 Date: 02/14/07 Time: 09:59:22 CPU Time: 0 0: 6:55.23 (415.23 sec) Binary
2623 Time Step No. = 1400 Elapsed Time = 3.652004E+04 days
2624 Date: 02/14/07 Time: 09:59:30 CPU Time: 0 0: 7: 3.54 (423.54 sec) Binary
2626 Time Step No. = 1420 Elapsed Time = 3.652431E+04 days
2627 Date: 02/14/07 Time: 09:59:39 CPU Time: 0 0: 7:12.52 (432.52 sec) Binary
2629 Time Step No. = 1440 Elapsed Time = 3.652431E+04 days
2630 Date: 02/14/07 Time: 09:59:42 CPU Time: 0 0: 7:15.51 (435.51 sec) Binary
2632 Time Step No. = 1460 Elapsed Time = 3.652431E+04 days
2633 Date: 02/14/07 Time: 09:59:45 CPU Time: 0 0: 7:18.52 (438.52 sec) Binary
2635 Time Step No. = 1480 Elapsed Time = 3.652431E+04 days
2636 Date: 02/14/07 Time: 09:59:49 CPU Time: 0 0: 7:21.89 (441.89 sec) Binary
2638 Time Step No. = 1500 Elapsed Time = 3.652442E+04 days
2639 Date: 02/14/07 Time: 09:59:52 CPU Time: 0 0: 7:25.40 (445.40 sec) Binary
2641 Time Step No. = 1520 Elapsed Time = 3.653418E+04 days
2642 Date: 02/14/07 Time: 09:59:56 CPU Time: 0 0: 7:28.98 (448.98 sec) Binary
2644 Time Step No. = 1540 Elapsed Time = 3.666627E+04 days
2645 Date: 02/14/07 Time: 09:59:59 CPU Time: 0 0: 7:32.25 (452.25 sec) Binary
2647 Time Step No. = 1560 Elapsed Time = 3.668671E+04 days
2648 Date: 02/14/07 Time: 10:00:02 CPU Time: 0 0: 7:35.05 (455.05 sec) Binary
2650 Time Step No. = 1580 Elapsed Time = 3.670728E+04 days
2651 Date: 02/14/07 Time: 10:00:11 CPU Time: 0 0: 7:43.51 (463.51 sec) Binary
2653 Time Step No. = 1600 Elapsed Time = 3.678237E+04 days
2654 Date: 02/14/07 Time: 10:00:14 CPU Time: 0 0: 7:47.02 (467.02 sec) Binary
2656 Time Step No. = 1620 Elapsed Time = 3.716779E+04 days
2657 Date: 02/14/07 Time: 10:00:25 CPU Time: 0 0: 7:57.83 (477.83 sec) Binary
2659 Time Step No. = 1640 Elapsed Time = 3.718347E+04 days
2660 Date: 02/14/07 Time: 10:00:27 CPU Time: 0 0: 8: 0.40 (480.40 sec) Binary
2662 Time Step No. = 1660 Elapsed Time = 3.724390E+04 days
2663 Date: 02/14/07 Time: 10:00:36 CPU Time: 0 0: 8: 9.12 (489.12 sec) Binary
2665 Time Step No. = 1680 Elapsed Time = 3.730151E+04 days
2666 Date: 02/14/07 Time: 10:00:40 CPU Time: 0 0: 8:12.54 (492.54 sec) Binary
2668 Time Step No. = 1700 Elapsed Time = 3.752349E+04 days
2669 Date: 02/14/07 Time: 10:00:48 CPU Time: 0 0: 8:21.25 (501.25 sec) Binary
2671 Time Step No. = 1720 Elapsed Time = 3.773513E+04 days
2672 Date: 02/14/07 Time: 10:00:52 CPU Time: 0 0: 8:24.96 (504.96 sec) Binary
2674 Time Step No. = 1740 Elapsed Time = 3.794042E+04 days
2675 Date: 02/14/07 Time: 10:01:01 CPU Time: 0 0: 8:33.96 (513.96 sec) Binary
2677 Time Step No. = 1760 Elapsed Time = 3.803760E+04 days
2678 Date: 02/14/07 Time: 10:01:05 CPU Time: 0 0: 8:37.46 (517.46 sec) Binary
2680 Time Step No. = 1780 Elapsed Time = 3.956208E+04 days
2681 Date: 02/14/07 Time: 10:01:14 CPU Time: 0 0: 8:46.92 (526.92 sec) Binary
2683 Time Step No. = 1800 Elapsed Time = 4.088771E+04 days
2684 Date: 02/14/07 Time: 10:01:29 CPU Time: 0 0: 9: 2.11 (542.11 sec) Binary
2686 Time Step No. = 1820 Elapsed Time = 4.089527E+04 days
2687 Date: 02/14/07 Time: 10:01:31 CPU Time: 0 0: 9: 4.35 (544.35 sec) Binary
2689 Time Step No. = 1840 Elapsed Time = 4.155094E+04 days
2690 Date: 02/14/07 Time: 10:01:36 CPU Time: 0 0: 9: 8.61 (548.61 sec) Binary
2692 Time Step No. = 1860 Elapsed Time = 4.294061E+04 days
2693 Date: 02/14/07 Time: 10:01:47 CPU Time: 0 0: 9:20.17 (560.17 sec) Binary
2695 Time Step No. = 1880 Elapsed Time = 4.301587E+04 days
2696 Date: 02/14/07 Time: 10:01:51 CPU Time: 0 0: 9:23.59 (563.59 sec) Binary
2698 Time Step No. = 1900 Elapsed Time = 4.760255E+04 days
2699 Date: 02/14/07 Time: 10:01:57 CPU Time: 0 0: 9:29.87 (569.87 sec) Binary
2701 Time Step No. = 1920 Elapsed Time = 4.987005E+04 days
2702 Date: 02/14/07 Time: 10:02:10 CPU Time: 0 0: 9:42.61 (582.61 sec) Binary
2704 Time Step No. = 1940 Elapsed Time = 4.996373E+04 days
2705 Date: 02/14/07 Time: 10:02:13 CPU Time: 0 0: 9:46.10 (586.10 sec) Binary
2707 Time Step No. = 1960 Elapsed Time = 5.010423E+04 days
2708 Date: 02/14/07 Time: 10:02:22 CPU Time: 0 0: 9:54.39 (594.39 sec) Binary
2710 Time Step No. = 1980 Elapsed Time = 5.037876E+04 days

2711 Date: 02/14/07 Time: 10:02:31 CPU Time: 0 0:10: 3.37 (603.37 sec) Binary
2713 Time Step No. = 2000 Elapsed Time = 5.039333E+04 days
2714 Date: 02/14/07 Time: 10:02:33 CPU Time: 0 0:10: 5.81 (605.81 sec) Binary
2716 Time Step No. = 2020 Elapsed Time = 5.152954E+04 days
2717 Date: 02/14/07 Time: 10:02:38 CPU Time: 0 0:10:10.98 (610.98 sec) Binary
2719 Time Step No. = 2040 Elapsed Time = 5.170355E+04 days
2720 Date: 02/14/07 Time: 10:02:49 CPU Time: 0 0:10:21.44 (621.44 sec) Binary
2722 Time Step No. = 2060 Elapsed Time = 5.179583E+04 days
2723 Date: 02/14/07 Time: 10:02:58 CPU Time: 0 0:10:30.92 (630.92 sec) Binary
2725 Time Step No. = 2080 Elapsed Time = 5.180198E+04 days
2726 Date: 02/14/07 Time: 10:03:00 CPU Time: 0 0:10:33.09 (633.09 sec) Binary
2728 Time Step No. = 2100 Elapsed Time = 5.184257E+04 days
2729 Date: 02/14/07 Time: 10:03:08 CPU Time: 0 0:10:40.75 (640.75 sec) Binary
2731 Time Step No. = 2120 Elapsed Time = 5.188772E+04 days
2732 Date: 02/14/07 Time: 10:03:11 CPU Time: 0 0:10:43.90 (643.90 sec) Binary
2734 Time Step No. = 2140 Elapsed Time = 5.191531E+04 days
2735 Date: 02/14/07 Time: 10:03:19 CPU Time: 0 0:10:52.07 (652.07 sec) Binary
2737 Time Step No. = 2160 Elapsed Time = 5.208117E+04 days
2738 Date: 02/14/07 Time: 10:03:23 CPU Time: 0 0:10:55.69 (655.69 sec) Binary
2740 Time Step No. = 2180 Elapsed Time = 5.738239E+04 days
2741 Date: 02/14/07 Time: 10:03:30 CPU Time: 0 0:11: 2.72 (662.72 sec) Binary
2743 Time Step No. = 2200 Elapsed Time = 5.874693E+04 days
2744 Date: 02/14/07 Time: 10:03:44 CPU Time: 0 0:11:16.72 (676.72 sec) Binary
2746 Time Step No. = 2220 Elapsed Time = 5.877274E+04 days
2747 Date: 02/14/07 Time: 10:03:47 CPU Time: 0 0:11:19.53 (679.53 sec) Binary
2749 Time Step No. = 2240 Elapsed Time = 6.101085E+04 days
2750 Date: 02/14/07 Time: 10:03:52 CPU Time: 0 0:11:24.32 (684.32 sec) Binary
2752 Time Step No. = 2260 Elapsed Time = 6.281765E+04 days
2753 Date: 02/14/07 Time: 10:04:05 CPU Time: 0 0:11:37.13 (697.13 sec) Binary
2755 Time Step No. = 2280 Elapsed Time = 6.294611E+04 days
2756 Date: 02/14/07 Time: 10:04:09 CPU Time: 0 0:11:40.77 (700.77 sec) Binary
2758 Time Step No. = 2300 Elapsed Time = 6.313878E+04 days
2759 Date: 02/14/07 Time: 10:04:17 CPU Time: 0 0:11:48.74 (708.74 sec) Binary
2761 Time Step No. = 2320 Elapsed Time = 6.361068E+04 days
2762 Date: 02/14/07 Time: 10:04:21 CPU Time: 0 0:11:52.88 (712.88 sec) Binary
2764 Time Step No. = 2340 Elapsed Time = 6.737769E+04 days
2765 Date: 02/14/07 Time: 10:04:35 CPU Time: 0 0:12: 7.53 (727.53 sec) Binary
2767 Time Step No. = 2360 Elapsed Time = 6.740478E+04 days
2768 Date: 02/14/07 Time: 10:04:38 CPU Time: 0 0:12:10.40 (730.40 sec) Binary
2770 Time Step No. = 2380 Elapsed Time = 6.741391E+04 days
2771 Date: 02/14/07 Time: 10:04:46 CPU Time: 0 0:12:18.11 (738.11 sec) Binary
2773 Time Step No. = 2400 Elapsed Time = 6.761291E+04 days
2774 Date: 02/14/07 Time: 10:04:50 CPU Time: 0 0:12:21.91 (741.91 sec) Binary
2776 Time Step No. = 2420 Elapsed Time = 6.773452E+04 days
2777 Date: 02/14/07 Time: 10:04:59 CPU Time: 0 0:12:30.71 (750.71 sec) Binary
2779 Time Step No. = 2440 Elapsed Time = 6.776699E+04 days
2780 Date: 02/14/07 Time: 10:05:07 CPU Time: 0 0:12:39.15 (759.15 sec) Binary
2782 Time Step No. = 2460 Elapsed Time = 6.779795E+04 days
2783 Date: 02/14/07 Time: 10:05:10 CPU Time: 0 0:12:42.10 (762.10 sec) Binary
2785 Time Step No. = 2480 Elapsed Time = 7.048314E+04 days
2786 Date: 02/14/07 Time: 10:05:15 CPU Time: 0 0:12:46.90 (766.90 sec) Binary
2788 Time Step No. = 2500 Elapsed Time = 8.118433E+04 days
2789 Date: 02/14/07 Time: 10:05:25 CPU Time: 0 0:12:56.52 (776.52 sec) Binary
2791 Time Step No. = 2520 Elapsed Time = 8.428954E+04 days
2792 Date: 02/14/07 Time: 10:05:37 CPU Time: 0 0:13: 8.96 (788.96 sec) Binary
2794 Time Step No. = 2540 Elapsed Time = 8.439398E+04 days
2795 Date: 02/14/07 Time: 10:05:41 CPU Time: 0 0:13:12.55 (792.55 sec) Binary
2797 Time Step No. = 2560 Elapsed Time = 8.992246E+04 days
2798 Date: 02/14/07 Time: 10:05:47 CPU Time: 0 0:13:19.01 (799.01 sec) Binary
2800 Time Step No. = 2580 Elapsed Time = 9.139559E+04 days
2801 Date: 02/14/07 Time: 10:05:59 CPU Time: 0 0:13:30.78 (810.78 sec) Binary
2803 Time Step No. = 2600 Elapsed Time = 9.153888E+04 days
2804 Date: 02/14/07 Time: 10:06:06 CPU Time: 0 0:13:37.89 (817.89 sec) Binary
2806 Time Step No. = 2620 Elapsed Time = 9.175238E+04 days
2807 Date: 02/14/07 Time: 10:06:14 CPU Time: 0 0:13:45.32 (825.32 sec) Binary
2809 Time Step No. = 2640 Elapsed Time = 9.184598E+04 days
2810 Date: 02/14/07 Time: 10:06:22 CPU Time: 0 0:13:53.65 (833.65 sec) Binary
2812 Time Step No. = 2660 Elapsed Time = 9.190019E+04 days
2813 Date: 02/14/07 Time: 10:06:32 CPU Time: 0 0:14: 4.08 (844.08 sec) Binary
2815 Time Step No. = 2680 Elapsed Time = 9.194215E+04 days
2816 Date: 02/14/07 Time: 10:06:40 CPU Time: 0 0:14:11.21 (851.21 sec) Binary
2818 Time Step No. = 2700 Elapsed Time = 9.204832E+04 days
2819 Date: 02/14/07 Time: 10:06:48 CPU Time: 0 0:14:19.76 (859.76 sec) Binary
2821 Time Step No. = 2720 Elapsed Time = 9.208378E+04 days
2822 Date: 02/14/07 Time: 10:06:59 CPU Time: 0 0:14:30.59 (870.59 sec) Binary
2824 Time Step No. = 2740 Elapsed Time = 9.211140E+04 days

2825 Date: 02/14/07 Time: 10:07:09 CPU Time: 0 0:14:40.74 (880.74 sec) Binary
2827 Time Step No. = 2760 Elapsed Time = 9.214645E+04 days
2828 Date: 02/14/07 Time: 10:07:21 CPU Time: 0 0:14:52.32 (892.32 sec) Binary
2830 Time Step No. = 2780 Elapsed Time = 9.216828E+04 days
2831 Date: 02/14/07 Time: 10:07:31 CPU Time: 0 0:15: 2.56 (902.56 sec) Binary
2833 Time Step No. = 2800 Elapsed Time = 9.218932E+04 days
2834 Date: 02/14/07 Time: 10:07:41 CPU Time: 0 0:15:11.69 (911.69 sec) Binary
2836 Time Step No. = 2820 Elapsed Time = 9.220924E+04 days
2837 Date: 02/14/07 Time: 10:07:50 CPU Time: 0 0:15:21.53 (921.53 sec) Binary
2839 Time Step No. = 2840 Elapsed Time = 9.222973E+04 days
2840 Date: 02/14/07 Time: 10:08:00 CPU Time: 0 0:15:31.06 (931.06 sec) Binary
2842 Time Step No. = 2860 Elapsed Time = 9.225032E+04 days
2843 Date: 02/14/07 Time: 10:08:09 CPU Time: 0 0:15:40.31 (940.31 sec) Binary
2845 Time Step No. = 2880 Elapsed Time = 9.227070E+04 days
2846 Date: 02/14/07 Time: 10:08:21 CPU Time: 0 0:15:51.78 (951.78 sec) Binary
2848 Time Step No. = 2900 Elapsed Time = 9.229232E+04 days
2849 Date: 02/14/07 Time: 10:08:32 CPU Time: 0 0:16: 2.69 (962.69 sec) Binary
2851 Time Step No. = 2920 Elapsed Time = 9.231037E+04 days
2852 Date: 02/14/07 Time: 10:08:41 CPU Time: 0 0:16:11.94 (971.94 sec) Binary
2854 Time Step No. = 2940 Elapsed Time = 9.232895E+04 days
2855 Date: 02/14/07 Time: 10:08:50 CPU Time: 0 0:16:20.61 (980.61 sec) Binary
2857 Time Step No. = 2960 Elapsed Time = 9.234552E+04 days
2858 Date: 02/14/07 Time: 10:08:58 CPU Time: 0 0:16:28.50 (988.50 sec) Binary
2860 Time Step No. = 2980 Elapsed Time = 9.236376E+04 days
2861 Date: 02/14/07 Time: 10:09:06 CPU Time: 0 0:16:36.64 (996.64 sec) Binary
2863 Time Step No. = 3000 Elapsed Time = 9.238011E+04 days
2864 Date: 02/14/07 Time: 10:09:14 CPU Time: 0 0:16:44.37 (1004.37 sec) Binary
2866 Time Step No. = 3020 Elapsed Time = 9.239686E+04 days
2867 Date: 02/14/07 Time: 10:09:21 CPU Time: 0 0:16:51.55 (1011.55 sec) Binary
2869 Time Step No. = 3040 Elapsed Time = 9.241242E+04 days
2870 Date: 02/14/07 Time: 10:09:29 CPU Time: 0 0:16:59.27 (1019.27 sec) Binary
2872 Time Step No. = 3060 Elapsed Time = 9.242781E+04 days
2873 Date: 02/14/07 Time: 10:09:36 CPU Time: 0 0:17: 6.44 (1026.44 sec) Binary
2875 Time Step No. = 3080 Elapsed Time = 9.244312E+04 days
2876 Date: 02/14/07 Time: 10:09:43 CPU Time: 0 0:17:14.18 (1034.18 sec) Binary
2878 Time Step No. = 3100 Elapsed Time = 9.245725E+04 days
2879 Date: 02/14/07 Time: 10:09:51 CPU Time: 0 0:17:21.35 (1041.35 sec) Binary
2881 Time Step No. = 3120 Elapsed Time = 9.247181E+04 days
2882 Date: 02/14/07 Time: 10:09:58 CPU Time: 0 0:17:28.80 (1048.80 sec) Binary
2884 Time Step No. = 3140 Elapsed Time = 9.248478E+04 days
2885 Date: 02/14/07 Time: 10:10:05 CPU Time: 0 0:17:35.29 (1055.29 sec) Binary
2887 Time Step No. = 3160 Elapsed Time = 9.249861E+04 days
2888 Date: 02/14/07 Time: 10:10:12 CPU Time: 0 0:17:42.01 (1062.01 sec) Binary
2890 Time Step No. = 3180 Elapsed Time = 9.251140E+04 days
2891 Date: 02/14/07 Time: 10:10:17 CPU Time: 0 0:17:47.89 (1067.89 sec) Binary
2893 Time Step No. = 3200 Elapsed Time = 9.252410E+04 days
2894 Date: 02/14/07 Time: 10:10:24 CPU Time: 0 0:17:54.18 (1074.18 sec) Binary
2896 Time Step No. = 3220 Elapsed Time = 9.253757E+04 days
2897 Date: 02/14/07 Time: 10:10:30 CPU Time: 0 0:17:59.95 (1079.95 sec) Binary
2899 Time Step No. = 3240 Elapsed Time = 9.255098E+04 days
2900 Date: 02/14/07 Time: 10:10:35 CPU Time: 0 0:18: 5.71 (1085.71 sec) Binary
2902 Time Step No. = 3260 Elapsed Time = 9.256381E+04 days
2903 Date: 02/14/07 Time: 10:10:42 CPU Time: 0 0:18:11.99 (1091.99 sec) Binary
2905 Time Step No. = 3280 Elapsed Time = 9.257743E+04 days
2906 Date: 02/14/07 Time: 10:10:47 CPU Time: 0 0:18:17.75 (1097.75 sec) Binary
2908 Time Step No. = 3300 Elapsed Time = 9.259099E+04 days
2909 Date: 02/14/07 Time: 10:10:54 CPU Time: 0 0:18:24.04 (1104.04 sec) Binary
2911 Time Step No. = 3320 Elapsed Time = 9.260441E+04 days
2912 Date: 02/14/07 Time: 10:10:59 CPU Time: 0 0:18:29.81 (1109.81 sec) Binary
2914 Time Step No. = 3340 Elapsed Time = 9.261774E+04 days
2915 Date: 02/14/07 Time: 10:11:06 CPU Time: 0 0:18:36.11 (1116.11 sec) Binary
2917 Time Step No. = 3360 Elapsed Time = 9.263189E+04 days
2918 Date: 02/14/07 Time: 10:11:12 CPU Time: 0 0:18:41.88 (1121.88 sec) Binary
2920 Time Step No. = 3380 Elapsed Time = 9.264596E+04 days
2921 Date: 02/14/07 Time: 10:11:17 CPU Time: 0 0:18:47.65 (1127.65 sec) Binary
2923 Time Step No. = 3400 Elapsed Time = 9.265943E+04 days
2924 Date: 02/14/07 Time: 10:11:24 CPU Time: 0 0:18:53.93 (1133.93 sec) Binary
2926 Time Step No. = 3420 Elapsed Time = 9.267372E+04 days
2927 Date: 02/14/07 Time: 10:11:29 CPU Time: 0 0:18:59.70 (1139.70 sec) Binary
2929 Time Step No. = 3440 Elapsed Time = 9.268795E+04 days
2930 Date: 02/14/07 Time: 10:11:36 CPU Time: 0 0:19: 5.98 (1145.98 sec) Binary
2932 Time Step No. = 3460 Elapsed Time = 9.270205E+04 days
2933 Date: 02/14/07 Time: 10:11:41 CPU Time: 0 0:19:11.76 (1151.76 sec) Binary
2935 Time Step No. = 3480 Elapsed Time = 9.271604E+04 days
2936 Date: 02/14/07 Time: 10:11:48 CPU Time: 0 0:19:18.05 (1158.05 sec) Binary
2938 Time Step No. = 3500 Elapsed Time = 9.273088E+04 days

2939 Date: 02/14/07 Time: 10:11:54 CPU Time: 0 0:19:24.26 (1164.26 sec) Binary
2941 Time Step No. = 3520 Elapsed Time = 9.274566E+04 days
2942 Date: 02/14/07 Time: 10:12:00 CPU Time: 0 0:19:30.48 (1170.48 sec) Binary
2944 Time Step No. = 3540 Elapsed Time = 9.275979E+04 days
2945 Date: 02/14/07 Time: 10:12:07 CPU Time: 0 0:19:37.23 (1177.23 sec) Binary
2947 Time Step No. = 3560 Elapsed Time = 9.277479E+04 days
2948 Date: 02/14/07 Time: 10:12:13 CPU Time: 0 0:19:43.43 (1183.43 sec) Binary
2950 Time Step No. = 3580 Elapsed Time = 9.278974E+04 days
2951 Date: 02/14/07 Time: 10:12:20 CPU Time: 0 0:19:50.19 (1190.19 sec) Binary
2953 Time Step No. = 3600 Elapsed Time = 9.280453E+04 days
2954 Date: 02/14/07 Time: 10:12:26 CPU Time: 0 0:19:56.38 (1196.38 sec) Binary
2956 Time Step No. = 3620 Elapsed Time = 9.281975E+04 days
2957 Date: 02/14/07 Time: 10:12:32 CPU Time: 0 0:20: 2.59 (1202.59 sec) Binary
2959 Time Step No. = 3640 Elapsed Time = 9.283533E+04 days
2960 Date: 02/14/07 Time: 10:12:39 CPU Time: 0 0:20: 9.36 (1209.36 sec) Binary
2962 Time Step No. = 3660 Elapsed Time = 9.285137E+04 days
2963 Date: 02/14/07 Time: 10:12:45 CPU Time: 0 0:20:15.56 (1215.56 sec) Binary
2965 Time Step No. = 3680 Elapsed Time = 9.286675E+04 days
2966 Date: 02/14/07 Time: 10:12:52 CPU Time: 0 0:20:22.31 (1222.31 sec) Binary
2968 Time Step No. = 3700 Elapsed Time = 9.288250E+04 days
2969 Date: 02/14/07 Time: 10:12:58 CPU Time: 0 0:20:28.51 (1228.51 sec) Binary
2971 Time Step No. = 3720 Elapsed Time = 9.289928E+04 days
2972 Date: 02/14/07 Time: 10:13:05 CPU Time: 0 0:20:35.27 (1235.27 sec) Binary
2974 Time Step No. = 3740 Elapsed Time = 9.291592E+04 days
2975 Date: 02/14/07 Time: 10:13:11 CPU Time: 0 0:20:41.48 (1241.48 sec) Binary
2977 Time Step No. = 3760 Elapsed Time = 9.293247E+04 days
2978 Date: 02/14/07 Time: 10:13:17 CPU Time: 0 0:20:47.36 (1247.36 sec) Binary
2980 Time Step No. = 3780 Elapsed Time = 9.294882E+04 days
2981 Date: 02/14/07 Time: 10:13:23 CPU Time: 0 0:20:53.65 (1253.65 sec) Binary
2983 Time Step No. = 3800 Elapsed Time = 9.296682E+04 days
2984 Date: 02/14/07 Time: 10:13:29 CPU Time: 0 0:20:59.43 (1259.43 sec) Binary
2986 Time Step No. = 3820 Elapsed Time = 9.298414E+04 days
2987 Date: 02/14/07 Time: 10:13:36 CPU Time: 0 0:21: 5.74 (1265.74 sec) Binary
2989 Time Step No. = 3840 Elapsed Time = 9.300189E+04 days
2990 Date: 02/14/07 Time: 10:13:41 CPU Time: 0 0:21:11.53 (1271.53 sec) Binary
2992 Time Step No. = 3860 Elapsed Time = 9.302014E+04 days
2993 Date: 02/14/07 Time: 10:13:47 CPU Time: 0 0:21:17.32 (1277.32 sec) Binary
2995 Time Step No. = 3880 Elapsed Time = 9.303884E+04 days
2996 Date: 02/14/07 Time: 10:13:53 CPU Time: 0 0:21:23.61 (1283.61 sec) Binary
2998 Time Step No. = 3900 Elapsed Time = 9.305808E+04 days
2999 Date: 02/14/07 Time: 10:13:59 CPU Time: 0 0:21:29.41 (1289.41 sec) Binary
3001 Time Step No. = 3920 Elapsed Time = 9.307720E+04 days
3002 Date: 02/14/07 Time: 10:14:06 CPU Time: 0 0:21:35.98 (1295.98 sec) Binary
3004 Time Step No. = 3940 Elapsed Time = 9.309678E+04 days
3005 Date: 02/14/07 Time: 10:14:12 CPU Time: 0 0:21:42.19 (1302.19 sec) Binary
3007 Time Step No. = 3960 Elapsed Time = 9.311692E+04 days
3008 Date: 02/14/07 Time: 10:14:19 CPU Time: 0 0:21:48.91 (1308.91 sec) Binary
3010 Time Step No. = 3980 Elapsed Time = 9.313829E+04 days
3011 Date: 02/14/07 Time: 10:14:25 CPU Time: 0 0:21:55.11 (1315.11 sec) Binary
3013 Time Step No. = 4000 Elapsed Time = 9.316104E+04 days
3014 Date: 02/14/07 Time: 10:14:31 CPU Time: 0 0:22: 1.47 (1321.47 sec) Binary
3016 Time Step No. = 4020 Elapsed Time = 9.318366E+04 days
3017 Date: 02/14/07 Time: 10:14:38 CPU Time: 0 0:22: 8.23 (1328.23 sec) Binary
3019 Time Step No. = 4040 Elapsed Time = 9.320767E+04 days
3020 Date: 02/14/07 Time: 10:14:44 CPU Time: 0 0:22:14.39 (1334.39 sec) Binary
3022 Time Step No. = 4060 Elapsed Time = 9.323324E+04 days
3023 Date: 02/14/07 Time: 10:14:51 CPU Time: 0 0:22:20.62 (1340.62 sec) Binary
3025 Time Step No. = 4080 Elapsed Time = 9.325948E+04 days
3026 Date: 02/14/07 Time: 10:14:57 CPU Time: 0 0:22:27.46 (1347.46 sec) Binary
3028 Time Step No. = 4100 Elapsed Time = 9.328834E+04 days
3029 Date: 02/14/07 Time: 10:15:04 CPU Time: 0 0:22:33.82 (1353.82 sec) Binary
3031 Time Step No. = 4120 Elapsed Time = 9.332128E+04 days
3032 Date: 02/14/07 Time: 10:15:10 CPU Time: 0 0:22:40.33 (1360.33 sec) Binary
3034 Time Step No. = 4140 Elapsed Time = 9.336491E+04 days
3035 Date: 02/14/07 Time: 10:15:18 CPU Time: 0 0:22:47.50 (1367.50 sec) Binary
3037 Time Step No. = 4160 Elapsed Time = 9.361676E+04 days
3038 Date: 02/14/07 Time: 10:15:25 CPU Time: 0 0:22:54.75 (1374.75 sec) Binary
3040 Time Step No. = 4180 Elapsed Time = 9.422795E+04 days
3041 Date: 02/14/07 Time: 10:15:34 CPU Time: 0 0:23: 4.12 (1384.12 sec) Binary
3043 Time Step No. = 4200 Elapsed Time = 9.893912E+04 days
3044 Date: 02/14/07 Time: 10:15:42 CPU Time: 0 0:23:12.17 (1392.17 sec) Binary
3046 Time Step No. = 4220 Elapsed Time = 1.009195E+05 days
3047 Date: 02/14/07 Time: 10:15:56 CPU Time: 0 0:23:26.30 (1406.30 sec) Binary
3049 Time Step No. = 4240 Elapsed Time = 1.009222E+05 days
3050 Date: 02/14/07 Time: 10:16:03 CPU Time: 0 0:23:32.98 (1412.98 sec) Binary
3052 Time Step No. = 4260 Elapsed Time = 1.009250E+05 days

3053	Date: 02/14/07	Time: 10:16:10	CPU Time: 0 0:23:39.31 (1419.31 sec)	Binary
3055	Time Step No. = 4280	Elapsed Time = 1.009279E+05 days		
3056	Date: 02/14/07	Time: 10:16:16	CPU Time: 0 0:23:45.65 (1425.65 sec)	Binary
3058	Time Step No. = 4300	Elapsed Time = 1.009308E+05 days		
3059	Date: 02/14/07	Time: 10:16:23	CPU Time: 0 0:23:52.56 (1432.56 sec)	Binary
3061	Time Step No. = 4320	Elapsed Time = 1.009339E+05 days		
3062	Date: 02/14/07	Time: 10:16:29	CPU Time: 0 0:23:58.88 (1438.88 sec)	Binary
3064	Time Step No. = 4340	Elapsed Time = 1.009372E+05 days		
3065	Date: 02/14/07	Time: 10:16:36	CPU Time: 0 0:24: 5.23 (1445.23 sec)	Binary
3067	Time Step No. = 4360	Elapsed Time = 1.009405E+05 days		
3068	Date: 02/14/07	Time: 10:16:43	CPU Time: 0 0:24:12.13 (1452.13 sec)	Binary
3070	Time Step No. = 4380	Elapsed Time = 1.009440E+05 days		
3071	Date: 02/14/07	Time: 10:16:52	CPU Time: 0 0:24:21.23 (1461.23 sec)	Binary
3073	Time Step No. = 4400	Elapsed Time = 1.009468E+05 days		
3074	Date: 02/14/07	Time: 10:16:54	CPU Time: 0 0:24:23.19 (1463.19 sec)	Binary
3076	Time Step No. = 4420	Elapsed Time = 1.011909E+05 days		
3077	Date: 02/14/07	Time: 10:16:58	CPU Time: 0 0:24:27.03 (1467.03 sec)	Binary
3079	Time Step No. = 4440	Elapsed Time = 1.024529E+05 days		
3080	Date: 02/14/07	Time: 10:17:11	CPU Time: 0 0:24:39.78 (1479.78 sec)	Binary
3082	Time Step No. = 4460	Elapsed Time = 1.026770E+05 days		
3083	Date: 02/14/07	Time: 10:17:14	CPU Time: 0 0:24:43.55 (1483.55 sec)	Binary
3085	Time Step No. = 4480	Elapsed Time = 1.041130E+05 days		
3086	Date: 02/14/07	Time: 10:17:28	CPU Time: 0 0:24:56.86 (1496.86 sec)	Binary
3088	Time Step No. = 4500	Elapsed Time = 1.041673E+05 days		
3089	Date: 02/14/07	Time: 10:17:33	CPU Time: 0 0:25: 1.82 (1501.82 sec)	Binary
3091	Time Step No. = 4520	Elapsed Time = 1.049488E+05 days		
3092	Date: 02/14/07	Time: 10:17:42	CPU Time: 0 0:25:11.13 (1511.13 sec)	Binary
3094	Time Step No. = 4540	Elapsed Time = 1.066226E+05 days		
3095	Date: 02/14/07	Time: 10:17:52	CPU Time: 0 0:25:21.22 (1521.22 sec)	Binary
3097	Time Step No. = 4560	Elapsed Time = 1.087496E+05 days		
3098	Date: 02/14/07	Time: 10:18:01	CPU Time: 0 0:25:29.93 (1529.93 sec)	Binary
3100	Time Step No. = 4580	Elapsed Time = 1.143056E+05 days		
3101	Date: 02/14/07	Time: 10:18:06	CPU Time: 0 0:25:35.01 (1535.01 sec)	Binary
3103	Time Step No. = 4600	Elapsed Time = 1.395547E+05 days		
3104	Date: 02/14/07	Time: 10:18:15	CPU Time: 0 0:25:43.98 (1543.98 sec)	Binary
3106	Time Step No. = 4620	Elapsed Time = 1.524241E+05 days		
3107	Date: 02/14/07	Time: 10:18:26	CPU Time: 0 0:25:54.92 (1554.92 sec)	Binary
3109	Time Step No. = 4640	Elapsed Time = 1.553196E+05 days		
3110	Date: 02/14/07	Time: 10:18:35	CPU Time: 0 0:26: 4.08 (1564.08 sec)	Binary
3112	Time Step No. = 4660	Elapsed Time = 1.591320E+05 days		
3113	Date: 02/14/07	Time: 10:18:44	CPU Time: 0 0:26:12.77 (1572.77 sec)	Binary
3115	Time Step No. = 4680	Elapsed Time = 1.721310E+05 days		
3116	Date: 02/14/07	Time: 10:18:53	CPU Time: 0 0:26:22.15 (1582.15 sec)	Binary
3118	Time Step No. = 4700	Elapsed Time = 1.944112E+05 days		
3119	Date: 02/14/07	Time: 10:19:02	CPU Time: 0 0:26:30.77 (1590.77 sec)	Binary
3121	Time Step No. = 4720	Elapsed Time = 1.986996E+05 days		
3122	Date: 02/14/07	Time: 10:19:11	CPU Time: 0 0:26:40.02 (1600.02 sec)	Binary
3124	Time Step No. = 4740	Elapsed Time = 2.057306E+05 days		
3125	Date: 02/14/07	Time: 10:19:19	CPU Time: 0 0:26:47.82 (1607.82 sec)	Binary
3127	Time Step No. = 4760	Elapsed Time = 2.132912E+05 days		
3128	Date: 02/14/07	Time: 10:19:26	CPU Time: 0 0:26:55.61 (1615.61 sec)	Binary
3130	Time Step No. = 4780	Elapsed Time = 2.193162E+05 days		
3131	Date: 02/14/07	Time: 10:19:35	CPU Time: 0 0:27: 4.02 (1624.02 sec)	Binary
3133	Time Step No. = 4800	Elapsed Time = 2.226687E+05 days		
3134	Date: 02/14/07	Time: 10:19:45	CPU Time: 0 0:27:13.81 (1633.81 sec)	Binary
3136	Time Step No. = 4820	Elapsed Time = 2.259834E+05 days		
3137	Date: 02/14/07	Time: 10:19:52	CPU Time: 0 0:27:20.63 (1640.63 sec)	Binary
3139	Time Step No. = 4840	Elapsed Time = 2.712249E+05 days		
3140	Date: 02/14/07	Time: 10:19:58	CPU Time: 0 0:27:26.68 (1646.68 sec)	Binary
3142	Time Step No. = 4860	Elapsed Time = 3.652431E+05 days		
3143	Date: 02/14/07	Time: 10:20:06	CPU Time: 0 0:27:34.69 (1654.69 sec)	Binary
3145	Time Step No. = 4880	Elapsed Time = 3.652444E+05 days		
3146	Date: 02/14/07	Time: 10:20:08	CPU Time: 0 0:27:37.49 (1657.49 sec)	Binary
3148	Time Step No. = 4900	Elapsed Time = 3.653026E+05 days		
3149	Date: 02/14/07	Time: 10:20:12	CPU Time: 0 0:27:40.63 (1660.63 sec)	Binary
3151	Time Step No. = 4920	Elapsed Time = 3.655257E+05 days		
3152	Date: 02/14/07	Time: 10:20:18	CPU Time: 0 0:27:47.05 (1667.05 sec)	Binary
3154	Time Step No. = 4940	Elapsed Time = 3.664875E+05 days		
3155	Date: 02/14/07	Time: 10:20:25	CPU Time: 0 0:27:54.29 (1674.29 sec)	Binary
3157	Time Step No. = 4960	Elapsed Time = 3.665925E+05 days		
3158	Date: 02/14/07	Time: 10:20:27	CPU Time: 0 0:27:55.94 (1675.94 sec)	Binary
3160	Time Step No. = 4980	Elapsed Time = 3.668305E+05 days		
3161	Date: 02/14/07	Time: 10:20:30	CPU Time: 0 0:27:59.13 (1679.13 sec)	Binary
3163	Time Step No. = 5000	Elapsed Time = 3.681194E+05 days		
3164	Date: 02/14/07	Time: 10:20:38	CPU Time: 0 0:28: 6.47 (1686.47 sec)	Binary
3166	Time Step No. = 5020	Elapsed Time = 3.709195E+05 days		

3167 Date: 02/14/07 Time: 10:20:44 CPU Time: 0 0:28:13.19 (1693.19 sec) Binary
3169 Time Step No. = 5040 Elapsed Time = 4.282789E+05 days
3170 Date: 02/14/07 Time: 10:20:52 CPU Time: 0 0:28:20.55 (1700.55 sec) Binary
3172 Time Step No. = 5060 Elapsed Time = 4.653183E+05 days
3173 Date: 02/14/07 Time: 10:21:00 CPU Time: 0 0:28:28.25 (1708.25 sec) Binary
3175 Time Step No. = 5080 Elapsed Time = 4.900809E+05 days
3176 Date: 02/14/07 Time: 10:21:06 CPU Time: 0 0:28:35.17 (1715.17 sec) Binary
3178 Time Step No. = 5100 Elapsed Time = 5.157774E+05 days
3179 Date: 02/14/07 Time: 10:21:12 CPU Time: 0 0:28:41.18 (1721.18 sec) Binary
3181 Time Step No. = 5120 Elapsed Time = 5.494751E+05 days
3182 Date: 02/14/07 Time: 10:21:19 CPU Time: 0 0:28:47.85 (1727.85 sec) Binary
3184 Time Step No. = 5140 Elapsed Time = 5.579649E+05 days
3185 Date: 02/14/07 Time: 10:21:29 CPU Time: 0 0:28:58.11 (1738.11 sec) Binary
3187 Time Step No. = 5160 Elapsed Time = 5.584439E+05 days
3188 Date: 02/14/07 Time: 10:21:33 CPU Time: 0 0:29: 1.74 (1741.74 sec) Binary
3190 Time Step No. = 5180 Elapsed Time = 5.690395E+05 days
3191 Date: 02/14/07 Time: 10:21:39 CPU Time: 0 0:29: 7.97 (1747.97 sec) Binary
3193 Time Step No. = 5200 Elapsed Time = 5.825788E+05 days
3194 Date: 02/14/07 Time: 10:21:48 CPU Time: 0 0:29:17.13 (1757.13 sec) Binary
3196 Time Step No. = 5220 Elapsed Time = 5.945658E+05 days
3197 Date: 02/14/07 Time: 10:21:55 CPU Time: 0 0:29:23.17 (1763.17 sec) Binary
3199 Time Step No. = 5240 Elapsed Time = 6.257360E+05 days
3200 Date: 02/14/07 Time: 10:22:01 CPU Time: 0 0:29:29.47 (1769.47 sec) Binary
3202 Time Step No. = 5260 Elapsed Time = 6.705437E+05 days
3203 Date: 02/14/07 Time: 10:22:10 CPU Time: 0 0:29:38.51 (1778.51 sec) Binary
3205 Time Step No. = 5280 Elapsed Time = 7.337650E+05 days
3206 Date: 02/14/07 Time: 10:22:19 CPU Time: 0 0:29:47.88 (1787.88 sec) Binary
3208 Time Step No. = 5300 Elapsed Time = 7.882779E+05 days
3209 Date: 02/14/07 Time: 10:22:28 CPU Time: 0 0:29:56.92 (1796.92 sec) Binary
3211 Time Step No. = 5320 Elapsed Time = 9.160867E+05 days
3212 Date: 02/14/07 Time: 10:22:38 CPU Time: 0 0:30: 6.98 (1806.98 sec) Binary
3214 Time Step No. = 5340 Elapsed Time = 9.335625E+05 days
3215 Date: 02/14/07 Time: 10:22:48 CPU Time: 0 0:30:16.46 (1816.46 sec) Binary
3217 Time Step No. = 5360 Elapsed Time = 9.974253E+05 days
3218 Date: 02/14/07 Time: 10:22:57 CPU Time: 0 0:30:25.13 (1825.13 sec) Binary
3220 Time Step No. = 5380 Elapsed Time = 1.042229E+06 days
3221 Date: 02/14/07 Time: 10:23:03 CPU Time: 0 0:30:31.16 (1831.16 sec) Binary
3223 Time Step No. = 5400 Elapsed Time = 1.260820E+06 days
3224 Date: 02/14/07 Time: 10:23:11 CPU Time: 0 0:30:39.28 (1839.28 sec) Binary
3226 Time Step No. = 5420 Elapsed Time = 1.334337E+06 days
3227 Date: 02/14/07 Time: 10:23:19 CPU Time: 0 0:30:47.75 (1847.75 sec) Binary
3229 Time Step No. = 5440 Elapsed Time = 1.345331E+06 days
3230 Date: 02/14/07 Time: 10:23:24 CPU Time: 0 0:30:52.06 (1852.06 sec) Binary
3232 Time Step No. = 5460 Elapsed Time = 1.427559E+06 days
3233 Date: 02/14/07 Time: 10:23:34 CPU Time: 0 0:31: 2.34 (1862.34 sec) Binary
3235 Time Step No. = 5480 Elapsed Time = 1.441381E+06 days
3236 Date: 02/14/07 Time: 10:23:41 CPU Time: 0 0:31: 9.28 (1869.28 sec) Binary
3238 Time Step No. = 5500 Elapsed Time = 1.579545E+06 days
3239 Date: 02/14/07 Time: 10:23:49 CPU Time: 0 0:31:17.25 (1877.25 sec) Binary
3241 Time Step No. = 5520 Elapsed Time = 1.722127E+06 days
3242 Date: 02/14/07 Time: 10:23:58 CPU Time: 0 0:31:26.76 (1886.76 sec) Binary
3244 Time Step No. = 5540 Elapsed Time = 1.729742E+06 days
3245 Date: 02/14/07 Time: 10:24:02 CPU Time: 0 0:31:30.25 (1890.25 sec) Binary
3247 Time Step No. = 5560 Elapsed Time = 1.756478E+06 days
3248 Date: 02/14/07 Time: 10:24:09 CPU Time: 0 0:31:37.26 (1897.26 sec) Binary
3250 Time Step No. = 5580 Elapsed Time = 1.769620E+06 days
3251 Date: 02/14/07 Time: 10:24:17 CPU Time: 0 0:31:45.78 (1905.78 sec) Binary
3253 Time Step No. = 5600 Elapsed Time = 1.839288E+06 days
3254 Date: 02/14/07 Time: 10:24:25 CPU Time: 0 0:31:53.40 (1913.40 sec) Binary
3256 Time Step No. = 5620 Elapsed Time = 2.169142E+06 days
3257 Date: 02/14/07 Time: 10:24:33 CPU Time: 0 0:32: 1.39 (1921.39 sec) Binary
3259 Time Step No. = 5640 Elapsed Time = 2.272625E+06 days
3260 Date: 02/14/07 Time: 10:24:39 CPU Time: 0 0:32: 6.85 (1926.85 sec) Binary
3262 Time Step No. = 5660 Elapsed Time = 2.337198E+06 days
3263 Date: 02/14/07 Time: 10:24:46 CPU Time: 0 0:32:14.32 (1934.32 sec) Binary
3265 Time Step No. = 5680 Elapsed Time = 2.341430E+06 days
3266 Date: 02/14/07 Time: 10:24:54 CPU Time: 0 0:32:21.87 (1941.87 sec) Binary
3268 Time Step No. = 5700 Elapsed Time = 2.377641E+06 days
3269 Date: 02/14/07 Time: 10:24:59 CPU Time: 0 0:32:27.06 (1947.06 sec) Binary
3271 Time Step No. = 5720 Elapsed Time = 2.750209E+06 days
3272 Date: 02/14/07 Time: 10:25:05 CPU Time: 0 0:32:33.63 (1953.63 sec) Binary
3274 Time Step No. = 5740 Elapsed Time = 2.753701E+06 days
3275 Date: 02/14/07 Time: 10:25:14 CPU Time: 0 0:32:41.92 (1961.92 sec) Binary
3277 Time Step No. = 5760 Elapsed Time = 2.765715E+06 days
3278 Date: 02/14/07 Time: 10:25:20 CPU Time: 0 0:32:47.88 (1967.88 sec) Binary
3280 Time Step No. = 5780 Elapsed Time = 2.912561E+06 days

3281 Date: 02/14/07 Time: 10:25:27 CPU Time: 0 0:32:55.64 (1975.64 sec) Binary
3283 Time Step No. = 5800 Elapsed Time = 3.153612E+06 days
3284 Date: 02/14/07 Time: 10:25:36 CPU Time: 0 0:33: 3.99 (1983.99 sec) Binary
3286 Time Step No. = 5820 Elapsed Time = 3.155082E+06 days
3287 Date: 02/14/07 Time: 10:25:44 CPU Time: 0 0:33:11.82 (1991.82 sec) Binary
3289 Time Step No. = 5840 Elapsed Time = 3.160573E+06 days
3290 Date: 02/14/07 Time: 10:25:48 CPU Time: 0 0:33:16.26 (1996.26 sec) Binary
3292 Time Step No. = 5860 Elapsed Time = 3.171708E+06 days
3293 Date: 02/14/07 Time: 10:25:54 CPU Time: 0 0:33:21.65 (2001.65 sec) Binary
3295 Time Step No. = 5880 Elapsed Time = 3.314482E+06 days
3296 Date: 02/14/07 Time: 10:26:00 CPU Time: 0 0:33:27.88 (2007.88 sec) Binary
3298 Time Step No. = 5900 Elapsed Time = 3.592771E+06 days
3299 Date: 02/14/07 Time: 10:26:06 CPU Time: 0 0:33:34.32 (2014.32 sec) Binary
3302 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.OUT;1
3318 CPU Time (this time step) = 0.37 sec = 0.00010 hr
3319 CPU Time (total for run) = 2608.58 sec = 0.72461 hr
3320 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
3318 CPU Time (this time step) = 0.30 sec = 0.00008 hr
3319 CPU Time (total for run) = 2015.18 sec = 0.55977 hr
3320 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.OUT;1
3996 Date: 02/14/07 Time: 11:41:07 CPU Time: 0 0:43:28.61 (2608.61 sec) ASCII
3998 Time Step No. = 5903 Elapsed Time = 3.652431E+06 days
3999 Date: 02/14/07 Time: 11:41:07 CPU Time: 0 0:43:28.61 (2608.61 sec) Binary
4004 *****
4005 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
4006 * Completed: 02/14/07 at 11:41:07 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
4007 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
3996 Date: 02/14/07 Time: 10:26:07 CPU Time: 0 0:33:35.20 (2015.20 sec) ASCII
3998 Time Step No. = 5903 Elapsed Time = 3.652431E+06 days
3999 Date: 02/14/07 Time: 10:26:07 CPU Time: 0 0:33:35.20 (2015.20 sec) Binary
4004 *****
4005 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
4006 * Completed: 02/14/07 at 10:26:07 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
4007 *****

Number of difference sections found: 11
Number of difference records found: 584

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1

BF2_QB0600_ES40_TEST7_V010_OUT.DIF

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
3 ** Begun on: 02/14/07 at 10:58:09 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
4 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
3 ** Begun on: 02/14/07 at 09:53:57 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_TEST7_V010.INP;2
62 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;2
62 *****

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*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
 1772 CPU Time (this time step) = 0.17 sec = 0.00005 hr
 1773 CPU Time (total for run) = 31.35 sec = 0.00871 hr
 1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
 1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773 CPU Time (total for run) = 23.38 sec = 0.00649 hr
 1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
2450 Date: 02/14/07 Time: 10:58:40 CPU Time: 0 0: 0:31.38 ( 31.38 sec) ASCII
2452 Time Step No. = 138 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:58:40 CPU Time: 0 0: 0:31.39 ( 31.39 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 1.927161E-02 days
2456 Date: 02/14/07 Time: 10:58:41 CPU Time: 0 0: 0:32.01 ( 32.01 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 3.062646E+00 days
2459 Date: 02/14/07 Time: 10:58:46 CPU Time: 0 0: 0:37.00 ( 37.00 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.478092E+02 days
2462 Date: 02/14/07 Time: 10:58:51 CPU Time: 0 0: 0:42.34 ( 42.34 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 2.616479E+03 days
2465 Date: 02/14/07 Time: 10:58:58 CPU Time: 0 0: 0:49.73 ( 49.73 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 1.564322E+04 days
2468 Date: 02/14/07 Time: 10:59:10 CPU Time: 0 0: 1: 1.08 ( 61.08 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 1.570228E+04 days
2471 Date: 02/14/07 Time: 10:59:18 CPU Time: 0 0: 1: 9.41 ( 69.41 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 1.636574E+04 days
2474 Date: 02/14/07 Time: 10:59:24 CPU Time: 0 0: 1:15.39 ( 75.39 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 2.627969E+04 days
```

2477 Date: 02/14/07 Time: 10:59:31 CPU Time: 0 0: 1:22.17 (82.17 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.052605E+04 days
2480 Date: 02/14/07 Time: 10:59:43 CPU Time: 0 0: 1:33.87 (93.87 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.082160E+04 days
2483 Date: 02/14/07 Time: 10:59:52 CPU Time: 0 0: 1:42.72 (102.72 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 3.098990E+04 days
2486 Date: 02/14/07 Time: 10:59:56 CPU Time: 0 0: 1:47.12 (107.12 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.652480E+04 days
2489 Date: 02/14/07 Time: 11:00:06 CPU Time: 0 0: 1:57.64 (117.64 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 3.654799E+04 days
2492 Date: 02/14/07 Time: 11:00:11 CPU Time: 0 0: 2: 2.19 (122.19 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.665586E+04 days
2495 Date: 02/14/07 Time: 11:00:16 CPU Time: 0 0: 2: 7.02 (127.02 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 3.668780E+04 days
2498 Date: 02/14/07 Time: 11:00:19 CPU Time: 0 0: 2:10.28 (130.28 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.849288E+04 days
2501 Date: 02/14/07 Time: 11:00:25 CPU Time: 0 0: 2:16.50 (136.50 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 4.259472E+04 days
2504 Date: 02/14/07 Time: 11:00:32 CPU Time: 0 0: 2:23.04 (143.04 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 4.286084E+04 days
2507 Date: 02/14/07 Time: 11:00:40 CPU Time: 0 0: 2:30.91 (150.91 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 4.373619E+04 days
2510 Date: 02/14/07 Time: 11:00:45 CPU Time: 0 0: 2:36.42 (156.42 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 6.235496E+04 days
2513 Date: 02/14/07 Time: 11:00:54 CPU Time: 0 0: 2:45.06 (165.06 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 7.292165E+04 days
2516 Date: 02/14/07 Time: 11:01:04 CPU Time: 0 0: 2:55.50 (175.50 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 7.898391E+04 days
2519 Date: 02/14/07 Time: 11:01:14 CPU Time: 0 0: 3: 5.53 (185.53 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 9.913502E+04 days
2522 Date: 02/14/07 Time: 11:01:24 CPU Time: 0 0: 3:15.20 (195.20 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 1.286357E+05 days
2525 Date: 02/14/07 Time: 11:01:34 CPU Time: 0 0: 3:24.78 (204.78 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 1.645239E+05 days
2528 Date: 02/14/07 Time: 11:01:42 CPU Time: 0 0: 3:33.27 (213.27 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 1.856670E+05 days
2531 Date: 02/14/07 Time: 11:01:55 CPU Time: 0 0: 3:45.62 (225.62 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 2.030085E+05 days
2534 Date: 02/14/07 Time: 11:02:05 CPU Time: 0 0: 3:56.39 (236.39 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 2.179414E+05 days
2537 Date: 02/14/07 Time: 11:02:18 CPU Time: 0 0: 4: 8.89 (248.89 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 2.337832E+05 days
2540 Date: 02/14/07 Time: 11:02:29 CPU Time: 0 0: 4:20.19 (260.19 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 2.687785E+05 days
2543 Date: 02/14/07 Time: 11:02:38 CPU Time: 0 0: 4:29.10 (269.10 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.009523E+05 days
2546 Date: 02/14/07 Time: 11:02:50 CPU Time: 0 0: 4:40.88 (280.88 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.218089E+05 days
2549 Date: 02/14/07 Time: 11:03:02 CPU Time: 0 0: 4:52.79 (292.79 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.391516E+05 days
2552 Date: 02/14/07 Time: 11:03:12 CPU Time: 0 0: 5: 2.78 (302.78 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.652438E+05 days
2555 Date: 02/14/07 Time: 11:03:20 CPU Time: 0 0: 5:10.75 (310.75 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 3.652885E+05 days
2558 Date: 02/14/07 Time: 11:03:24 CPU Time: 0 0: 5:14.34 (314.34 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 3.665818E+05 days
2561 Date: 02/14/07 Time: 11:03:27 CPU Time: 0 0: 5:18.10 (318.10 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 3.665902E+05 days
2564 Date: 02/14/07 Time: 11:03:29 CPU Time: 0 0: 5:19.95 (319.95 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 3.673164E+05 days
2567 Date: 02/14/07 Time: 11:03:33 CPU Time: 0 0: 5:23.46 (323.46 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 3.787894E+05 days
2570 Date: 02/14/07 Time: 11:03:41 CPU Time: 0 0: 5:31.15 (331.15 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 3.981376E+05 days
2573 Date: 02/14/07 Time: 11:03:51 CPU Time: 0 0: 5:41.88 (341.88 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 4.776050E+05 days
2576 Date: 02/14/07 Time: 11:04:01 CPU Time: 0 0: 5:51.89 (351.89 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 6.163774E+05 days
2579 Date: 02/14/07 Time: 11:04:11 CPU Time: 0 0: 6: 1.76 (361.76 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 8.538495E+05 days
2582 Date: 02/14/07 Time: 11:04:23 CPU Time: 0 0: 6:13.36 (373.36 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.041013E+06 days
2585 Date: 02/14/07 Time: 11:04:34 CPU Time: 0 0: 6:24.11 (384.11 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 1.426013E+06 days
2588 Date: 02/14/07 Time: 11:04:42 CPU Time: 0 0: 6:32.34 (392.34 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.569664E+06 days

2591 Date: 02/14/07 Time: 11:04:52 CPU Time: 0 0: 6:42.42 (402.42 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.838319E+06 days
2594 Date: 02/14/07 Time: 11:05:02 CPU Time: 0 0: 6:52.58 (412.58 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.081785E+06 days
2597 Date: 02/14/07 Time: 11:05:09 CPU Time: 0 0: 6:58.98 (418.98 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 2.372417E+06 days
2600 Date: 02/14/07 Time: 11:05:17 CPU Time: 0 0: 7: 7.15 (427.15 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 2.772417E+06 days
2603 Date: 02/14/07 Time: 11:05:22 CPU Time: 0 0: 7:12.78 (432.78 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 3.172417E+06 days
2606 Date: 02/14/07 Time: 11:05:28 CPU Time: 0 0: 7:18.24 (438.24 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 3.572417E+06 days
2609 Date: 02/14/07 Time: 11:05:33 CPU Time: 0 0: 7:23.58 (443.58 sec) Binary
2612 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1

2450 Date: 02/14/07 Time: 09:54:21 CPU Time: 0 0: 0:23.39 (23.39 sec) ASCII
2452 Time Step No. = 138 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:54:21 CPU Time: 0 0: 0:23.40 (23.40 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 1.927161E-02 days
2456 Date: 02/14/07 Time: 09:54:21 CPU Time: 0 0: 0:23.87 (23.87 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 3.062646E+00 days
2459 Date: 02/14/07 Time: 09:54:25 CPU Time: 0 0: 0:27.65 (27.65 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.478092E+02 days
2462 Date: 02/14/07 Time: 09:54:29 CPU Time: 0 0: 0:31.69 (31.69 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 2.616479E+03 days
2465 Date: 02/14/07 Time: 09:54:35 CPU Time: 0 0: 0:37.25 (37.25 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 1.564322E+04 days
2468 Date: 02/14/07 Time: 09:54:43 CPU Time: 0 0: 0:45.86 (45.86 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 1.570228E+04 days
2471 Date: 02/14/07 Time: 09:54:50 CPU Time: 0 0: 0:52.16 (52.16 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 1.636574E+04 days
2474 Date: 02/14/07 Time: 09:54:54 CPU Time: 0 0: 0:56.68 (56.68 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 2.627969E+04 days
2477 Date: 02/14/07 Time: 09:54:59 CPU Time: 0 0: 1: 1.80 (61.80 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.052605E+04 days
2480 Date: 02/14/07 Time: 09:55:08 CPU Time: 0 0: 1:10.47 (70.47 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.082160E+04 days
2483 Date: 02/14/07 Time: 09:55:14 CPU Time: 0 0: 1:16.74 (76.74 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 3.098990E+04 days
2486 Date: 02/14/07 Time: 09:55:17 CPU Time: 0 0: 1:19.98 (79.98 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.652480E+04 days
2489 Date: 02/14/07 Time: 09:55:26 CPU Time: 0 0: 1:28.15 (88.15 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 3.654799E+04 days
2492 Date: 02/14/07 Time: 09:55:29 CPU Time: 0 0: 1:31.69 (91.69 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.665586E+04 days
2495 Date: 02/14/07 Time: 09:55:33 CPU Time: 0 0: 1:35.44 (95.44 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 3.668780E+04 days
2498 Date: 02/14/07 Time: 09:55:35 CPU Time: 0 0: 1:37.97 (97.97 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.849288E+04 days
2501 Date: 02/14/07 Time: 09:55:40 CPU Time: 0 0: 1:42.81 (102.81 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 4.259472E+04 days
2504 Date: 02/14/07 Time: 09:55:45 CPU Time: 0 0: 1:47.90 (107.90 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 4.286084E+04 days
2507 Date: 02/14/07 Time: 09:55:52 CPU Time: 0 0: 1:54.02 (114.02 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 4.373619E+04 days
2510 Date: 02/14/07 Time: 09:55:56 CPU Time: 0 0: 1:58.30 (118.30 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 6.235496E+04 days
2513 Date: 02/14/07 Time: 09:56:03 CPU Time: 0 0: 2: 4.96 (124.96 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 7.292165E+04 days
2516 Date: 02/14/07 Time: 09:56:10 CPU Time: 0 0: 2:12.94 (132.94 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 7.898391E+04 days
2519 Date: 02/14/07 Time: 09:56:18 CPU Time: 0 0: 2:20.64 (140.64 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 9.913502E+04 days
2522 Date: 02/14/07 Time: 09:56:26 CPU Time: 0 0: 2:28.07 (148.07 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 1.286357E+05 days
2525 Date: 02/14/07 Time: 09:56:33 CPU Time: 0 0: 2:35.50 (155.50 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 1.645239E+05 days
2528 Date: 02/14/07 Time: 09:56:40 CPU Time: 0 0: 2:41.94 (161.94 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 1.856670E+05 days
2531 Date: 02/14/07 Time: 09:56:49 CPU Time: 0 0: 2:51.42 (171.42 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 2.030085E+05 days
2534 Date: 02/14/07 Time: 09:56:57 CPU Time: 0 0: 2:59.53 (179.53 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 2.179414E+05 days
2537 Date: 02/14/07 Time: 09:57:07 CPU Time: 0 0: 3: 9.09 (189.09 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 2.337832E+05 days


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2540 Date: 02/14/07 Time: 09:57:15 CPU Time: 0 0: 3:17.84 ( 197.84 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 2.687785E+05 days
2543 Date: 02/14/07 Time: 09:57:22 CPU Time: 0 0: 3:24.76 ( 204.76 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.009523E+05 days
2546 Date: 02/14/07 Time: 09:57:31 CPU Time: 0 0: 3:33.78 ( 213.78 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.218089E+05 days
2549 Date: 02/14/07 Time: 09:57:40 CPU Time: 0 0: 3:42.74 ( 222.74 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.391516E+05 days
2552 Date: 02/14/07 Time: 09:57:48 CPU Time: 0 0: 3:49.95 ( 229.95 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.652438E+05 days
2555 Date: 02/14/07 Time: 09:57:53 CPU Time: 0 0: 3:55.62 ( 235.62 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 3.652885E+05 days
2558 Date: 02/14/07 Time: 09:57:56 CPU Time: 0 0: 3:58.15 ( 238.15 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 3.665818E+05 days
2561 Date: 02/14/07 Time: 09:57:59 CPU Time: 0 0: 4: 0.84 ( 240.84 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 3.665902E+05 days
2564 Date: 02/14/07 Time: 09:58:00 CPU Time: 0 0: 4: 2.17 ( 242.17 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 3.673164E+05 days
2567 Date: 02/14/07 Time: 09:58:03 CPU Time: 0 0: 4: 4.70 ( 244.70 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 3.787894E+05 days
2570 Date: 02/14/07 Time: 09:58:08 CPU Time: 0 0: 4:10.23 ( 250.23 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 3.981376E+05 days
2573 Date: 02/14/07 Time: 09:58:16 CPU Time: 0 0: 4:17.91 ( 257.91 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 4.776050E+05 days
2576 Date: 02/14/07 Time: 09:58:23 CPU Time: 0 0: 4:25.08 ( 265.08 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 6.163774E+05 days
2579 Date: 02/14/07 Time: 09:58:31 CPU Time: 0 0: 4:32.12 ( 272.12 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 8.538495E+05 days
2582 Date: 02/14/07 Time: 09:58:39 CPU Time: 0 0: 4:40.41 ( 280.41 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.041013E+06 days
2585 Date: 02/14/07 Time: 09:58:47 CPU Time: 0 0: 4:48.64 ( 288.64 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 1.426013E+06 days
2588 Date: 02/14/07 Time: 09:58:54 CPU Time: 0 0: 4:55.14 ( 295.14 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.569664E+06 days
2591 Date: 02/14/07 Time: 09:59:02 CPU Time: 0 0: 5: 3.12 ( 303.12 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.838319E+06 days
2594 Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 5:11.14 ( 311.14 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.081785E+06 days
2597 Date: 02/14/07 Time: 09:59:15 CPU Time: 0 0: 5:16.21 ( 316.21 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 2.372417E+06 days
2600 Date: 02/14/07 Time: 09:59:22 CPU Time: 0 0: 5:22.67 ( 322.67 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 2.772417E+06 days
2603 Date: 02/14/07 Time: 09:59:26 CPU Time: 0 0: 5:27.13 ( 327.13 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 3.172417E+06 days
2606 Date: 02/14/07 Time: 09:59:31 CPU Time: 0 0: 5:31.46 ( 331.46 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 3.572417E+06 days
2609 Date: 02/14/07 Time: 09:59:35 CPU Time: 0 0: 5:35.70 ( 335.70 sec) Binary
2612 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
2628 CPU Time (this time step) = 0.10 sec = 0.00003 hr
2629 CPU Time (total for run) = 444.75 sec = 0.12354 hr
2630 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
2628 CPU Time (this time step) = 0.07 sec = 0.00002 hr
2629 CPU Time (total for run) = 336.61 sec = 0.09350 hr
2630 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
3306 Date: 02/14/07 Time: 11:05:34 CPU Time: 0 0: 7:24.78 ( 444.78 sec) ASCII
3308 Time Step No. = 1165 Elapsed Time = 3.652431E+06 days
3309 Date: 02/14/07 Time: 11:05:34 CPU Time: 0 0: 7:24.79 ( 444.79 sec) Binary
3314 *****
3315 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3316 * Completed: 02/14/07 at 11:05:34 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
3317 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
3306 Date: 02/14/07 Time: 09:59:36 CPU Time: 0 0: 5:36.64 ( 336.64 sec) ASCII
3308 Time Step No. = 1165 Elapsed Time = 3.652431E+06 days
3309 Date: 02/14/07 Time: 09:59:36 CPU Time: 0 0: 5:36.64 ( 336.64 sec) Binary
3314 *****
3315 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
```

3316 * Completed: 02/14/07 at 09:59:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3317 *****

Number of difference sections found: 11
Number of difference records found: 124

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010_OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010_OUT;1

BF2_QB0600_ES40_TEST7_V011_OUT.DIF

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011_OUT;1
3 ** Begun on: 02/14/07 at 11:05:41 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
4 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011_OUT;1
3 ** Begun on: 02/14/07 at 09:54:06 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011_OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_TEST7_V011_INP;2
62 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011_OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011_INP;2
62 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011_OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_CLOSURE.DAT;1
67 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011_OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_CLOSURE.DAT;1
67 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011_OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011_OUT;1
72 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011_OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011_OUT;1
72 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011_OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011_SUM;1
77 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011_OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011_SUM;1
77 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011_OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011_BIN;1
82 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011_OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011_BIN;1
82 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011_OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011_ROT;1
87 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011_OUT;1

```
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.OUT;1
1772 CPU Time (this time step) = 0.18 sec = 0.00005 hr
1773 CPU Time (total for run) = 33.38 sec = 0.00927 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
1772 CPU Time (this time step) = 0.14 sec = 0.00004 hr
1773 CPU Time (total for run) = 25.63 sec = 0.00712 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.OUT;1
2450 Date: 02/14/07 Time: 11:06:15 CPU Time: 0 0: 0:33.40 ( 33.40 sec) ASCII
2452 Time Step No. = 142 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 11:06:15 CPU Time: 0 0: 0:33.41 ( 33.41 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 1.064671E-03 days
2456 Date: 02/14/07 Time: 11:06:20 CPU Time: 0 0: 0:38.07 ( 38.07 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 9.402002E-02 days
2459 Date: 02/14/07 Time: 11:06:24 CPU Time: 0 0: 0:42.38 ( 42.38 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 5.514852E+00 days
2462 Date: 02/14/07 Time: 11:06:28 CPU Time: 0 0: 0:46.70 ( 46.70 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 2.178362E+02 days
2465 Date: 02/14/07 Time: 11:06:34 CPU Time: 0 0: 0:52.06 ( 52.06 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 2.221380E+03 days
2468 Date: 02/14/07 Time: 11:06:42 CPU Time: 0 0: 1: 0.18 ( 60.18 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 5.532745E+03 days
2471 Date: 02/14/07 Time: 11:06:52 CPU Time: 0 0: 1:10.52 ( 70.52 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 5.850050E+03 days
2474 Date: 02/14/07 Time: 11:06:59 CPU Time: 0 0: 1:17.86 ( 77.86 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 7.163773E+03 days
2477 Date: 02/14/07 Time: 11:07:09 CPU Time: 0 0: 1:27.57 ( 87.57 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 7.646916E+03 days
2480 Date: 02/14/07 Time: 11:07:17 CPU Time: 0 0: 1:35.86 ( 95.86 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 8.451464E+03 days
2483 Date: 02/14/07 Time: 11:07:24 CPU Time: 0 0: 1:42.55 ( 102.55 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 8.495154E+03 days
2486 Date: 02/14/07 Time: 11:07:32 CPU Time: 0 0: 1:50.03 ( 110.03 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 8.550791E+03 days
2489 Date: 02/14/07 Time: 11:07:38 CPU Time: 0 0: 1:56.64 ( 116.64 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 8.902588E+03 days
2492 Date: 02/14/07 Time: 11:07:46 CPU Time: 0 0: 2: 4.40 ( 124.40 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 1.392947E+04 days
2495 Date: 02/14/07 Time: 11:07:54 CPU Time: 0 0: 2:12.67 ( 132.67 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 1.478125E+04 days
2498 Date: 02/14/07 Time: 11:08:02 CPU Time: 0 0: 2:20.25 ( 140.25 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 1.657464E+04 days
2501 Date: 02/14/07 Time: 11:08:10 CPU Time: 0 0: 2:28.45 ( 148.45 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 1.869145E+04 days
2504 Date: 02/14/07 Time: 11:08:20 CPU Time: 0 0: 2:38.42 ( 158.42 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 1.980385E+04 days
2507 Date: 02/14/07 Time: 11:08:27 CPU Time: 0 0: 2:45.06 ( 165.06 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 2.165433E+04 days
2510 Date: 02/14/07 Time: 11:08:36 CPU Time: 0 0: 2:54.04 ( 174.04 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 2.189594E+04 days
2513 Date: 02/14/07 Time: 11:08:44 CPU Time: 0 0: 3: 2.43 ( 182.43 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 2.219046E+04 days
2516 Date: 02/14/07 Time: 11:08:53 CPU Time: 0 0: 3:11.60 ( 191.60 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 2.441063E+04 days
2519 Date: 02/14/07 Time: 11:09:00 CPU Time: 0 0: 3:18.39 ( 198.39 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 2.696736E+04 days
2522 Date: 02/14/07 Time: 11:09:10 CPU Time: 0 0: 3:27.82 ( 207.82 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 3.055720E+04 days
2525 Date: 02/14/07 Time: 11:09:19 CPU Time: 0 0: 3:37.16 ( 217.16 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 3.382226E+04 days
2528 Date: 02/14/07 Time: 11:09:26 CPU Time: 0 0: 3:44.62 ( 224.62 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 3.652433E+04 days
2531 Date: 02/14/07 Time: 11:09:37 CPU Time: 0 0: 3:55.41 ( 235.41 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 3.652532E+04 days
2534 Date: 02/14/07 Time: 11:09:41 CPU Time: 0 0: 3:59.19 ( 239.19 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 3.656608E+04 days
2537 Date: 02/14/07 Time: 11:09:46 CPU Time: 0 0: 4: 4.05 ( 244.05 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 3.665527E+04 days
```

2540 Date: 02/14/07 Time: 11:09:49 CPU Time: 0 0: 4: 7.48 (247.48 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 3.669519E+04 days
2543 Date: 02/14/07 Time: 11:09:53 CPU Time: 0 0: 4:10.73 (250.73 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 3.766504E+04 days
2546 Date: 02/14/07 Time: 11:09:59 CPU Time: 0 0: 4:17.15 (257.15 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.934114E+04 days
2549 Date: 02/14/07 Time: 11:10:12 CPU Time: 0 0: 4:30.29 (270.29 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.965251E+04 days
2552 Date: 02/14/07 Time: 11:10:20 CPU Time: 0 0: 4:38.16 (278.16 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 4.316593E+04 days
2555 Date: 02/14/07 Time: 11:10:27 CPU Time: 0 0: 4:44.97 (284.97 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 4.553491E+04 days
2558 Date: 02/14/07 Time: 11:10:34 CPU Time: 0 0: 4:52.12 (292.12 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 4.659621E+04 days
2561 Date: 02/14/07 Time: 11:10:43 CPU Time: 0 0: 5: 0.78 (300.78 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 4.893931E+04 days
2564 Date: 02/14/07 Time: 11:10:49 CPU Time: 0 0: 5: 7.14 (307.14 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 5.227856E+04 days
2567 Date: 02/14/07 Time: 11:10:57 CPU Time: 0 0: 5:15.41 (315.41 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 5.601875E+04 days
2570 Date: 02/14/07 Time: 11:11:04 CPU Time: 0 0: 5:22.26 (322.26 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 6.489817E+04 days
2573 Date: 02/14/07 Time: 11:11:15 CPU Time: 0 0: 5:32.66 (332.66 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 8.093757E+04 days
2576 Date: 02/14/07 Time: 11:11:24 CPU Time: 0 0: 5:41.85 (341.85 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 9.509876E+04 days
2579 Date: 02/14/07 Time: 11:11:33 CPU Time: 0 0: 5:50.42 (350.42 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 1.828252E+05 days
2582 Date: 02/14/07 Time: 11:11:43 CPU Time: 0 0: 6: 0.54 (360.54 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 1.900656E+05 days
2585 Date: 02/14/07 Time: 11:11:55 CPU Time: 0 0: 6:12.58 (372.58 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 1.905214E+05 days
2588 Date: 02/14/07 Time: 11:12:04 CPU Time: 0 0: 6:21.65 (381.65 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 1.961906E+05 days
2591 Date: 02/14/07 Time: 11:12:10 CPU Time: 0 0: 6:27.99 (387.99 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 2.299386E+05 days
2594 Date: 02/14/07 Time: 11:12:20 CPU Time: 0 0: 6:37.68 (397.68 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 2.596134E+05 days
2597 Date: 02/14/07 Time: 11:12:29 CPU Time: 0 0: 6:46.54 (406.54 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 3.652468E+05 days
2600 Date: 02/14/07 Time: 11:12:40 CPU Time: 0 0: 6:57.77 (417.77 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 3.653374E+05 days
2603 Date: 02/14/07 Time: 11:12:45 CPU Time: 0 0: 7: 2.90 (422.90 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 3.666344E+05 days
2606 Date: 02/14/07 Time: 11:12:52 CPU Time: 0 0: 7: 9.35 (429.35 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 3.666427E+05 days
2609 Date: 02/14/07 Time: 11:12:54 CPU Time: 0 0: 7:11.38 (431.38 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 3.673690E+05 days
2612 Date: 02/14/07 Time: 11:12:58 CPU Time: 0 0: 7:16.22 (436.22 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 3.729208E+05 days
2615 Date: 02/14/07 Time: 11:13:07 CPU Time: 0 0: 7:24.49 (444.49 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 4.158995E+05 days
2618 Date: 02/14/07 Time: 11:13:18 CPU Time: 0 0: 7:35.33 (455.33 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 5.845356E+05 days
2621 Date: 02/14/07 Time: 11:13:29 CPU Time: 0 0: 7:46.53 (466.53 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 6.132993E+05 days
2624 Date: 02/14/07 Time: 11:13:38 CPU Time: 0 0: 7:55.56 (475.56 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 7.292501E+05 days
2627 Date: 02/14/07 Time: 11:13:48 CPU Time: 0 0: 8: 5.53 (485.53 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 8.282454E+05 days
2630 Date: 02/14/07 Time: 11:14:02 CPU Time: 0 0: 8:19.71 (499.71 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 9.166550E+05 days
2633 Date: 02/14/07 Time: 11:14:13 CPU Time: 0 0: 8:30.23 (510.23 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 1.068826E+06 days
2636 Date: 02/14/07 Time: 11:14:24 CPU Time: 0 0: 8:40.93 (520.93 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 1.100765E+06 days
2639 Date: 02/14/07 Time: 11:14:31 CPU Time: 0 0: 8:48.08 (528.08 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 1.227518E+06 days
2642 Date: 02/14/07 Time: 11:14:42 CPU Time: 0 0: 8:58.95 (538.95 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 1.298193E+06 days
2645 Date: 02/14/07 Time: 11:14:53 CPU Time: 0 0: 9: 9.85 (549.85 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 1.579761E+06 days
2648 Date: 02/14/07 Time: 11:15:04 CPU Time: 0 0: 9:20.37 (560.37 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 1.705411E+06 days
2651 Date: 02/14/07 Time: 11:15:15 CPU Time: 0 0: 9:31.49 (571.49 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 1.791793E+06 days

2654 Date: 02/14/07 Time: 11:15:26 CPU Time: 0 0: 9:42.53 (582.53 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 1.801222E+06 days
2657 Date: 02/14/07 Time: 11:15:38 CPU Time: 0 0: 9:54.63 (594.63 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 1.841044E+06 days
2660 Date: 02/14/07 Time: 11:15:46 CPU Time: 0 0:10: 3.12 (603.12 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 1.955743E+06 days
2663 Date: 02/14/07 Time: 11:15:59 CPU Time: 0 0:10:15.92 (615.92 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 1.990221E+06 days
2666 Date: 02/14/07 Time: 11:16:08 CPU Time: 0 0:10:24.30 (624.30 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 2.118411E+06 days
2669 Date: 02/14/07 Time: 11:16:18 CPU Time: 0 0:10:34.53 (634.53 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 2.133494E+06 days
2672 Date: 02/14/07 Time: 11:16:30 CPU Time: 0 0:10:46.39 (646.39 sec) Binary
2674 Time Step No. = 1620 Elapsed Time = 2.148308E+06 days
2675 Date: 02/14/07 Time: 11:16:39 CPU Time: 0 0:10:56.05 (656.05 sec) Binary
2677 Time Step No. = 1640 Elapsed Time = 2.159609E+06 days
2678 Date: 02/14/07 Time: 11:16:49 CPU Time: 0 0:11: 5.72 (665.72 sec) Binary
2680 Time Step No. = 1660 Elapsed Time = 2.165261E+06 days
2681 Date: 02/14/07 Time: 11:17:02 CPU Time: 0 0:11:18.78 (678.78 sec) Binary
2683 Time Step No. = 1680 Elapsed Time = 2.170603E+06 days
2684 Date: 02/14/07 Time: 11:17:13 CPU Time: 0 0:11:29.72 (689.72 sec) Binary
2686 Time Step No. = 1700 Elapsed Time = 2.174318E+06 days
2687 Date: 02/14/07 Time: 11:17:21 CPU Time: 0 0:11:37.94 (697.94 sec) Binary
2689 Time Step No. = 1720 Elapsed Time = 2.176154E+06 days
2690 Date: 02/14/07 Time: 11:17:30 CPU Time: 0 0:11:46.90 (706.90 sec) Binary
2692 Time Step No. = 1740 Elapsed Time = 2.179173E+06 days
2693 Date: 02/14/07 Time: 11:17:37 CPU Time: 0 0:11:54.01 (714.01 sec) Binary
2695 Time Step No. = 1760 Elapsed Time = 2.198642E+06 days
2696 Date: 02/14/07 Time: 11:17:47 CPU Time: 0 0:12: 3.57 (723.57 sec) Binary
2698 Time Step No. = 1780 Elapsed Time = 2.238214E+06 days
2699 Date: 02/14/07 Time: 11:17:53 CPU Time: 0 0:12: 9.86 (729.86 sec) Binary
2701 Time Step No. = 1800 Elapsed Time = 2.265291E+06 days
2702 Date: 02/14/07 Time: 11:18:04 CPU Time: 0 0:12:19.94 (739.94 sec) Binary
2704 Time Step No. = 1820 Elapsed Time = 2.290810E+06 days
2705 Date: 02/14/07 Time: 11:18:14 CPU Time: 0 0:12:30.83 (750.83 sec) Binary
2707 Time Step No. = 1840 Elapsed Time = 2.381658E+06 days
2708 Date: 02/14/07 Time: 11:18:21 CPU Time: 0 0:12:37.63 (757.63 sec) Binary
2710 Time Step No. = 1860 Elapsed Time = 2.781658E+06 days
2711 Date: 02/14/07 Time: 11:18:27 CPU Time: 0 0:12:43.15 (763.15 sec) Binary
2713 Time Step No. = 1880 Elapsed Time = 3.181658E+06 days
2714 Date: 02/14/07 Time: 11:18:32 CPU Time: 0 0:12:48.52 (768.52 sec) Binary
2716 Time Step No. = 1900 Elapsed Time = 3.581658E+06 days
2717 Date: 02/14/07 Time: 11:18:38 CPU Time: 0 0:12:53.90 (773.90 sec) Binary
2720 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA: [ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
2450 Date: 02/14/07 Time: 09:54:32 CPU Time: 0 0: 0:25.64 (25.64 sec) ASCII
2452 Time Step No. = 142 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:54:32 CPU Time: 0 0: 0:25.65 (25.65 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 1.064671E-03 days
2456 Date: 02/14/07 Time: 09:54:35 CPU Time: 0 0: 0:29.24 (29.24 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 9.402002E-02 days
2459 Date: 02/14/07 Time: 09:54:38 CPU Time: 0 0: 0:32.57 (32.57 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 5.514852E+00 days
2462 Date: 02/14/07 Time: 09:54:42 CPU Time: 0 0: 0:35.90 (35.90 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 2.178362E+02 days
2465 Date: 02/14/07 Time: 09:54:46 CPU Time: 0 0: 0:40.05 (40.05 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 2.221380E+03 days
2468 Date: 02/14/07 Time: 09:54:52 CPU Time: 0 0: 0:46.31 (46.31 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 5.532745E+03 days
2471 Date: 02/14/07 Time: 09:55:00 CPU Time: 0 0: 0:54.27 (54.27 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 5.850050E+03 days
2474 Date: 02/14/07 Time: 09:55:06 CPU Time: 0 0: 0:59.92 (59.92 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 7.163773E+03 days
2477 Date: 02/14/07 Time: 09:55:13 CPU Time: 0 0: 1: 7.39 (67.39 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 7.646916E+03 days
2480 Date: 02/14/07 Time: 09:55:20 CPU Time: 0 0: 1:13.55 (73.55 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 8.451464E+03 days
2483 Date: 02/14/07 Time: 09:55:24 CPU Time: 0 0: 1:18.35 (78.35 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 8.495154E+03 days
2486 Date: 02/14/07 Time: 09:55:30 CPU Time: 0 0: 1:23.72 (83.72 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 8.550791E+03 days
2489 Date: 02/14/07 Time: 09:55:35 CPU Time: 0 0: 1:28.46 (88.46 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 8.902588E+03 days
2492 Date: 02/14/07 Time: 09:55:40 CPU Time: 0 0: 1:34.02 (94.02 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 1.392947E+04 days

2495 Date: 02/14/07 Time: 09:55:46 CPU Time: 0 0: 1:39.96 (99.96 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 1.478125E+04 days
2498 Date: 02/14/07 Time: 09:55:52 CPU Time: 0 0: 1:45.40 (105.40 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 1.657464E+04 days
2501 Date: 02/14/07 Time: 09:55:57 CPU Time: 0 0: 1:51.29 (111.29 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 1.869145E+04 days
2504 Date: 02/14/07 Time: 09:56:05 CPU Time: 0 0: 1:58.40 (118.40 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 1.980385E+04 days
2507 Date: 02/14/07 Time: 09:56:10 CPU Time: 0 0: 2: 3.52 (123.52 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 2.165433E+04 days
2510 Date: 02/14/07 Time: 09:56:17 CPU Time: 0 0: 2:10.59 (130.59 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 2.189594E+04 days
2513 Date: 02/14/07 Time: 09:56:23 CPU Time: 0 0: 2:17.18 (137.18 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 2.219046E+04 days
2516 Date: 02/14/07 Time: 09:56:30 CPU Time: 0 0: 2:23.84 (143.84 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 2.441063E+04 days
2519 Date: 02/14/07 Time: 09:56:35 CPU Time: 0 0: 2:28.71 (148.71 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 2.696736E+04 days
2522 Date: 02/14/07 Time: 09:56:42 CPU Time: 0 0: 2:35.49 (155.49 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 3.055720E+04 days
2525 Date: 02/14/07 Time: 09:56:49 CPU Time: 0 0: 2:42.17 (162.17 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 3.382226E+04 days
2528 Date: 02/14/07 Time: 09:56:54 CPU Time: 0 0: 2:47.54 (167.54 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 3.652433E+04 days
2531 Date: 02/14/07 Time: 09:57:02 CPU Time: 0 0: 2:55.35 (175.35 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 3.652532E+04 days
2534 Date: 02/14/07 Time: 09:57:05 CPU Time: 0 0: 2:58.07 (178.07 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 3.656608E+04 days
2537 Date: 02/14/07 Time: 09:57:08 CPU Time: 0 0: 3: 1.55 (181.55 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 3.665527E+04 days
2540 Date: 02/14/07 Time: 09:57:11 CPU Time: 0 0: 3: 4.02 (184.02 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 3.669519E+04 days
2543 Date: 02/14/07 Time: 09:57:13 CPU Time: 0 0: 3: 6.38 (186.38 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 3.766504E+04 days
2546 Date: 02/14/07 Time: 09:57:18 CPU Time: 0 0: 3:10.97 (190.97 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.934114E+04 days
2549 Date: 02/14/07 Time: 09:57:27 CPU Time: 0 0: 3:20.67 (200.67 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.965251E+04 days
2552 Date: 02/14/07 Time: 09:57:33 CPU Time: 0 0: 3:26.52 (206.52 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 4.316593E+04 days
2555 Date: 02/14/07 Time: 09:57:38 CPU Time: 0 0: 3:31.59 (211.59 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 4.553491E+04 days
2558 Date: 02/14/07 Time: 09:57:44 CPU Time: 0 0: 3:36.92 (216.92 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 4.659621E+04 days
2561 Date: 02/14/07 Time: 09:57:50 CPU Time: 0 0: 3:43.38 (223.38 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 4.893931E+04 days
2564 Date: 02/14/07 Time: 09:57:55 CPU Time: 0 0: 3:48.11 (228.11 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 5.227856E+04 days
2567 Date: 02/14/07 Time: 09:58:02 CPU Time: 0 0: 3:54.29 (234.29 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 5.601875E+04 days
2570 Date: 02/14/07 Time: 09:58:07 CPU Time: 0 0: 3:59.43 (239.43 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 6.489817E+04 days
2573 Date: 02/14/07 Time: 09:58:15 CPU Time: 0 0: 4: 7.20 (247.20 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 8.093757E+04 days
2576 Date: 02/14/07 Time: 09:58:21 CPU Time: 0 0: 4:14.05 (254.05 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 9.509876E+04 days
2579 Date: 02/14/07 Time: 09:58:28 CPU Time: 0 0: 4:20.44 (260.44 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 1.828252E+05 days
2582 Date: 02/14/07 Time: 09:58:36 CPU Time: 0 0: 4:28.01 (268.01 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 1.900656E+05 days
2585 Date: 02/14/07 Time: 09:58:45 CPU Time: 0 0: 4:36.92 (276.92 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 1.905214E+05 days
2588 Date: 02/14/07 Time: 09:58:51 CPU Time: 0 0: 4:43.71 (283.71 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 1.961906E+05 days
2591 Date: 02/14/07 Time: 09:58:56 CPU Time: 0 0: 4:48.46 (288.46 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 2.299386E+05 days
2594 Date: 02/14/07 Time: 09:59:04 CPU Time: 0 0: 4:55.72 (295.72 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 2.596134E+05 days
2597 Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 5: 2.33 (302.33 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 3.652468E+05 days
2600 Date: 02/14/07 Time: 09:59:19 CPU Time: 0 0: 5:10.69 (310.69 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 3.653374E+05 days
2603 Date: 02/14/07 Time: 09:59:22 CPU Time: 0 0: 5:14.53 (314.53 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 3.666344E+05 days
2606 Date: 02/14/07 Time: 09:59:28 CPU Time: 0 0: 5:19.36 (319.36 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 3.666427E+05 days

2609 Date: 02/14/07 Time: 09:59:29 CPU Time: 0 0: 5:20.89 (320.89 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 3.673690E+05 days
2612 Date: 02/14/07 Time: 09:59:33 CPU Time: 0 0: 5:24.49 (324.49 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 3.729208E+05 days
2615 Date: 02/14/07 Time: 09:59:39 CPU Time: 0 0: 5:30.69 (330.69 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 4.158995E+05 days
2618 Date: 02/14/07 Time: 09:59:47 CPU Time: 0 0: 5:38.82 (338.82 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 5.845356E+05 days
2621 Date: 02/14/07 Time: 09:59:56 CPU Time: 0 0: 5:47.21 (347.21 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 6.132993E+05 days
2624 Date: 02/14/07 Time: 10:00:02 CPU Time: 0 0: 5:53.95 (353.95 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 7.292501E+05 days
2627 Date: 02/14/07 Time: 10:00:10 CPU Time: 0 0: 6: 1.41 (361.41 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 8.282454E+05 days
2630 Date: 02/14/07 Time: 10:00:20 CPU Time: 0 0: 6:11.96 (371.96 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 9.166550E+05 days
2633 Date: 02/14/07 Time: 10:00:28 CPU Time: 0 0: 6:19.81 (379.81 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 1.068826E+06 days
2636 Date: 02/14/07 Time: 10:00:36 CPU Time: 0 0: 6:27.79 (387.79 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 1.100765E+06 days
2639 Date: 02/14/07 Time: 10:00:42 CPU Time: 0 0: 6:33.15 (393.15 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 1.227518E+06 days
2642 Date: 02/14/07 Time: 10:00:50 CPU Time: 0 0: 6:41.25 (401.25 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 1.298193E+06 days
2645 Date: 02/14/07 Time: 10:00:58 CPU Time: 0 0: 6:49.28 (409.28 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 1.579761E+06 days
2648 Date: 02/14/07 Time: 10:01:06 CPU Time: 0 0: 6:57.14 (417.14 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 1.705411E+06 days
2651 Date: 02/14/07 Time: 10:01:14 CPU Time: 0 0: 7: 5.45 (425.45 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 1.791793E+06 days
2654 Date: 02/14/07 Time: 10:01:22 CPU Time: 0 0: 7:13.70 (433.70 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 1.801222E+06 days
2657 Date: 02/14/07 Time: 10:01:31 CPU Time: 0 0: 7:22.72 (442.72 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 1.841044E+06 days
2660 Date: 02/14/07 Time: 10:01:38 CPU Time: 0 0: 7:29.05 (449.05 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 1.955743E+06 days
2663 Date: 02/14/07 Time: 10:01:47 CPU Time: 0 0: 7:38.61 (458.61 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 1.990221E+06 days
2666 Date: 02/14/07 Time: 10:01:54 CPU Time: 0 0: 7:44.88 (464.88 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 2.118411E+06 days
2669 Date: 02/14/07 Time: 10:02:01 CPU Time: 0 0: 7:52.53 (472.53 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 2.133494E+06 days
2672 Date: 02/14/07 Time: 10:02:10 CPU Time: 0 0: 8: 1.38 (481.38 sec) Binary
2674 Time Step No. = 1620 Elapsed Time = 2.148308E+06 days
2675 Date: 02/14/07 Time: 10:02:17 CPU Time: 0 0: 8: 8.59 (488.59 sec) Binary
2677 Time Step No. = 1640 Elapsed Time = 2.159609E+06 days
2678 Date: 02/14/07 Time: 10:02:25 CPU Time: 0 0: 8:15.77 (495.77 sec) Binary
2680 Time Step No. = 1660 Elapsed Time = 2.165261E+06 days
2681 Date: 02/14/07 Time: 10:02:34 CPU Time: 0 0: 8:25.54 (505.54 sec) Binary
2683 Time Step No. = 1680 Elapsed Time = 2.170603E+06 days
2684 Date: 02/14/07 Time: 10:02:43 CPU Time: 0 0: 8:33.74 (513.74 sec) Binary
2686 Time Step No. = 1700 Elapsed Time = 2.174318E+06 days
2687 Date: 02/14/07 Time: 10:02:49 CPU Time: 0 0: 8:39.90 (519.90 sec) Binary
2689 Time Step No. = 1720 Elapsed Time = 2.176154E+06 days
2690 Date: 02/14/07 Time: 10:02:56 CPU Time: 0 0: 8:46.64 (526.64 sec) Binary
2692 Time Step No. = 1740 Elapsed Time = 2.179173E+06 days
2693 Date: 02/14/07 Time: 10:03:01 CPU Time: 0 0: 8:52.00 (532.00 sec) Binary
2695 Time Step No. = 1760 Elapsed Time = 2.198642E+06 days
2696 Date: 02/14/07 Time: 10:03:09 CPU Time: 0 0: 8:59.23 (539.23 sec) Binary
2698 Time Step No. = 1780 Elapsed Time = 2.238214E+06 days
2699 Date: 02/14/07 Time: 10:03:13 CPU Time: 0 0: 9: 4.11 (544.11 sec) Binary
2701 Time Step No. = 1800 Elapsed Time = 2.265291E+06 days
2702 Date: 02/14/07 Time: 10:03:21 CPU Time: 0 0: 9:11.98 (551.98 sec) Binary
2704 Time Step No. = 1820 Elapsed Time = 2.290810E+06 days
2705 Date: 02/14/07 Time: 10:03:30 CPU Time: 0 0: 9:20.52 (560.52 sec) Binary
2707 Time Step No. = 1840 Elapsed Time = 2.381658E+06 days
2708 Date: 02/14/07 Time: 10:03:35 CPU Time: 0 0: 9:25.86 (565.86 sec) Binary
2710 Time Step No. = 1860 Elapsed Time = 2.781658E+06 days
2711 Date: 02/14/07 Time: 10:03:40 CPU Time: 0 0: 9:30.25 (570.25 sec) Binary
2713 Time Step No. = 1880 Elapsed Time = 3.181658E+06 days
2714 Date: 02/14/07 Time: 10:03:44 CPU Time: 0 0: 9:34.48 (574.48 sec) Binary
2716 Time Step No. = 1900 Elapsed Time = 3.581658E+06 days
2717 Date: 02/14/07 Time: 10:03:48 CPU Time: 0 0: 9:38.73 (578.73 sec) Binary
2720 Restart information has been written to I/O unit 2 in DISKW, file name:


```
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.OUT;1
2736 CPU Time (this time step) = 0.18 sec = 0.00005 hr
2737 CPU Time (total for run) = 774.88 sec = 0.21524 hr
2738 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
2736 CPU Time (this time step) = 0.15 sec = 0.00004 hr
2737 CPU Time (total for run) = 579.52 sec = 0.16098 hr
2738 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.OUT;1
3414 Date: 02/14/07 Time: 11:18:39 CPU Time: 0 0:12:54.91 ( 774.91 sec) ASCII
3416 Time Step No. = 1904 Elapsed Time = 3.652431E+06 days
3417 Date: 02/14/07 Time: 11:18:39 CPU Time: 0 0:12:54.91 ( 774.91 sec) Binary
3422 *****
3423 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3424 * Completed: 02/14/07 at 11:18:39 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
3425 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
3414 Date: 10/14/07 Time: 10:03:49 CPU Time: 0 0: 9:39.53 ( 579.53 sec) ASCII
3416 Time Step No. = 1904 Elapsed Time = 3.652431E+06 days
3417 Date: 02/14/07 Time: 10:03:49 CPU Time: 0 0: 9:39.54 ( 579.54 sec) Binary
3422 *****
3423 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3424 * Completed: 02/14/07 at 10:03:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3425 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 196

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
```

BF2_QB0600_ES40_TEST7_V012_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
3 ** Begun on: 02/14/07 at 11:06:09 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
3 ** Begun on: 02/14/07 at 09:56:26 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_TEST7_V012.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
```



```
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
1772 CPU Time (this time step) = 0.17 sec = 0.00005 hr
1773 CPU Time (total for run) = 30.60 sec = 0.00850 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 23.20 sec = 0.00644 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
2450 Date: 02/14/07 Time: 11:06:40 CPU Time: 0 0: 0:30.62 ( 30.62 sec) ASCII
2452 Time Step No. = 131 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 11:06:40 CPU Time: 0 0: 0:30.63 ( 30.63 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 1.728808E-01 days
2456 Date: 02/14/07 Time: 11:06:42 CPU Time: 0 0: 0:33.14 ( 33.14 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 1.502175E+01 days
2459 Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:38.22 ( 38.22 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 7.625276E+02 days
2462 Date: 02/14/07 Time: 11:06:54 CPU Time: 0 0: 0:44.25 ( 44.25 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 6.318104E+03 days
2465 Date: 02/14/07 Time: 11:07:02 CPU Time: 0 0: 0:52.77 ( 52.77 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.653252E+04 days
2468 Date: 02/14/07 Time: 11:07:14 CPU Time: 0 0: 1: 4.29 ( 64.29 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.665724E+04 days
2471 Date: 02/14/07 Time: 11:07:19 CPU Time: 0 0: 1: 9.04 ( 69.04 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.667033E+04 days
2474 Date: 02/14/07 Time: 11:07:21 CPU Time: 0 0: 1:11.69 ( 71.69 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.708680E+04 days
2477 Date: 02/14/07 Time: 11:07:27 CPU Time: 0 0: 1:17.32 ( 77.32 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 5.092008E+04 days
2480 Date: 02/14/07 Time: 11:07:34 CPU Time: 0 0: 1:24.35 ( 84.35 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 2.039729E+05 days
2483 Date: 02/14/07 Time: 11:07:45 CPU Time: 0 0: 1:35.15 ( 95.15 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 2.274452E+05 days
2486 Date: 02/14/07 Time: 11:07:57 CPU Time: 0 0: 1:47.44 ( 107.44 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.652467E+05 days
2489 Date: 02/14/07 Time: 11:08:07 CPU Time: 0 0: 1:57.63 ( 117.63 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 3.652814E+05 days
2492 Date: 02/14/07 Time: 11:08:15 CPU Time: 0 0: 2: 5.82 ( 125.82 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.655778E+05 days
2495 Date: 02/14/07 Time: 11:08:24 CPU Time: 0 0: 2:13.96 ( 133.96 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 3.666037E+05 days
2498 Date: 02/14/07 Time: 11:08:33 CPU Time: 0 0: 2:23.53 ( 143.53 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.666104E+05 days
```

2501 Date: 02/14/07 Time: 11:08:36 CPU Time: 0 0: 2:26.10 (146.10 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 3.671914E+05 days
2504 Date: 02/14/07 Time: 11:08:41 CPU Time: 0 0: 2:31.35 (151.35 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 3.687879E+05 days
2507 Date: 02/14/07 Time: 11:08:50 CPU Time: 0 0: 2:40.66 (160.66 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 3.778499E+05 days
2510 Date: 02/14/07 Time: 11:09:03 CPU Time: 0 0: 2:52.99 (172.99 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 3.789049E+05 days
2513 Date: 02/14/07 Time: 11:09:12 CPU Time: 0 0: 3: 2.76 (182.76 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 3.809367E+05 days
2516 Date: 02/14/07 Time: 11:09:22 CPU Time: 0 0: 3:12.19 (192.19 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 3.809693E+05 days
2519 Date: 02/14/07 Time: 11:09:25 CPU Time: 0 0: 3:15.55 (195.55 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 3.836875E+05 days
2522 Date: 02/14/07 Time: 11:09:32 CPU Time: 0 0: 3:22.42 (202.42 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 3.871760E+05 days
2525 Date: 02/14/07 Time: 11:09:42 CPU Time: 0 0: 3:31.88 (211.88 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 3.879593E+05 days
2528 Date: 02/14/07 Time: 11:09:47 CPU Time: 0 0: 3:37.26 (217.26 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.964171E+05 days
2531 Date: 02/14/07 Time: 11:09:55 CPU Time: 0 0: 3:44.74 (224.74 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.984106E+05 days
2534 Date: 02/14/07 Time: 11:10:01 CPU Time: 0 0: 3:51.07 (231.07 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 4.040124E+05 days
2537 Date: 02/14/07 Time: 11:10:13 CPU Time: 0 0: 4: 2.77 (242.77 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 4.084891E+05 days
2540 Date: 02/14/07 Time: 11:10:19 CPU Time: 0 0: 4: 9.28 (249.28 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 4.148775E+05 days
2543 Date: 02/14/07 Time: 11:10:30 CPU Time: 0 0: 4:19.83 (259.83 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 4.152695E+05 days
2546 Date: 02/14/07 Time: 11:10:35 CPU Time: 0 0: 4:25.27 (265.27 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 4.155957E+05 days
2549 Date: 02/14/07 Time: 11:10:40 CPU Time: 0 0: 4:30.55 (270.55 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 4.159067E+05 days
2552 Date: 02/14/07 Time: 11:10:47 CPU Time: 0 0: 4:37.06 (277.06 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 4.230351E+05 days
2555 Date: 02/14/07 Time: 11:10:56 CPU Time: 0 0: 4:46.52 (286.52 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 4.231681E+05 days
2558 Date: 02/14/07 Time: 11:11:01 CPU Time: 0 0: 4:51.56 (291.56 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 4.246312E+05 days
2561 Date: 02/14/07 Time: 11:11:07 CPU Time: 0 0: 4:56.58 (296.58 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 4.284259E+05 days
2564 Date: 02/14/07 Time: 11:11:14 CPU Time: 0 0: 5: 4.25 (304.25 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 4.288881E+05 days
2567 Date: 02/14/07 Time: 11:11:22 CPU Time: 0 0: 5:12.36 (312.36 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 4.293308E+05 days
2570 Date: 02/14/07 Time: 11:11:28 CPU Time: 0 0: 5:18.35 (318.35 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 4.432583E+05 days
2573 Date: 02/14/07 Time: 11:11:37 CPU Time: 0 0: 5:27.10 (327.10 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 4.443255E+05 days
2576 Date: 02/14/07 Time: 11:11:45 CPU Time: 0 0: 5:35.24 (335.24 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 4.483126E+05 days
2579 Date: 02/14/07 Time: 11:11:54 CPU Time: 0 0: 5:43.87 (343.87 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 4.534391E+05 days
2582 Date: 02/14/07 Time: 11:12:00 CPU Time: 0 0: 5:50.13 (350.13 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 4.699167E+05 days
2585 Date: 02/14/07 Time: 11:12:10 CPU Time: 0 0: 5:59.95 (359.95 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 4.858432E+05 days
2588 Date: 02/14/07 Time: 11:12:20 CPU Time: 0 0: 6: 9.77 (369.77 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 4.937961E+05 days
2591 Date: 02/14/07 Time: 11:12:27 CPU Time: 0 0: 6:16.70 (376.70 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 5.466139E+05 days
2594 Date: 02/14/07 Time: 11:12:38 CPU Time: 0 0: 6:28.13 (388.13 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 5.780318E+05 days
2597 Date: 02/14/07 Time: 11:12:51 CPU Time: 0 0: 6:40.45 (400.45 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 6.270315E+05 days
2600 Date: 02/14/07 Time: 11:13:02 CPU Time: 0 0: 6:52.33 (412.33 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 7.054870E+05 days
2603 Date: 02/14/07 Time: 11:13:12 CPU Time: 0 0: 7: 1.81 (421.81 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 7.169027E+05 days
2606 Date: 02/14/07 Time: 11:13:21 CPU Time: 0 0: 7:11.25 (431.25 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 7.402913E+05 days
2609 Date: 02/14/07 Time: 11:13:32 CPU Time: 0 0: 7:22.24 (442.24 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 7.847129E+05 days
2612 Date: 02/14/07 Time: 11:13:42 CPU Time: 0 0: 7:31.83 (451.83 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 8.332294E+05 days

2615 Date: 02/14/07 Time: 11:13:56 CPU Time: 0 0: 7:45.90 (465.90 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 8.509701E+05 days
2618 Date: 02/14/07 Time: 11:14:05 CPU Time: 0 0: 7:54.39 (474.39 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 9.067910E+05 days
2621 Date: 02/14/07 Time: 11:14:19 CPU Time: 0 0: 8: 8.61 (488.61 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 9.383181E+05 days
2624 Date: 02/14/07 Time: 11:14:30 CPU Time: 0 0: 8:18.96 (498.96 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 9.948692E+05 days
2627 Date: 02/14/07 Time: 11:14:41 CPU Time: 0 0: 8:29.94 (509.94 sec) Binary
2629 Time Step No. = 1300 Elapsed Time = 1.246977E+06 days
2630 Date: 02/14/07 Time: 11:14:50 CPU Time: 0 0: 8:39.68 (519.68 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 1.378669E+06 days
2633 Date: 02/14/07 Time: 11:15:04 CPU Time: 0 0: 8:53.20 (533.20 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 1.477485E+06 days
2636 Date: 02/14/07 Time: 11:15:12 CPU Time: 0 0: 9: 1.61 (541.61 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 1.512368E+06 days
2639 Date: 02/14/07 Time: 11:15:25 CPU Time: 0 0: 9:14.41 (554.41 sec) Binary
2641 Time Step No. = 1380 Elapsed Time = 1.528588E+06 days
2642 Date: 02/14/07 Time: 11:15:37 CPU Time: 0 0: 9:25.82 (565.82 sec) Binary
2644 Time Step No. = 1400 Elapsed Time = 1.544193E+06 days
2645 Date: 02/14/07 Time: 11:15:46 CPU Time: 0 0: 9:35.50 (575.50 sec) Binary
2647 Time Step No. = 1420 Elapsed Time = 1.579430E+06 days
2648 Date: 02/14/07 Time: 11:15:57 CPU Time: 0 0: 9:46.40 (586.40 sec) Binary
2650 Time Step No. = 1440 Elapsed Time = 1.605319E+06 days
2651 Date: 02/14/07 Time: 11:16:06 CPU Time: 0 0: 9:55.54 (595.54 sec) Binary
2653 Time Step No. = 1460 Elapsed Time = 1.707900E+06 days
2654 Date: 02/14/07 Time: 11:16:18 CPU Time: 0 0:10: 6.89 (606.89 sec) Binary
2656 Time Step No. = 1480 Elapsed Time = 1.729509E+06 days
2657 Date: 02/14/07 Time: 11:16:27 CPU Time: 0 0:10:16.37 (616.37 sec) Binary
2659 Time Step No. = 1500 Elapsed Time = 1.810878E+06 days
2660 Date: 02/14/07 Time: 11:16:36 CPU Time: 0 0:10:25.48 (625.48 sec) Binary
2662 Time Step No. = 1520 Elapsed Time = 1.877326E+06 days
2663 Date: 02/14/07 Time: 11:16:48 CPU Time: 0 0:10:36.69 (636.69 sec) Binary
2665 Time Step No. = 1540 Elapsed Time = 1.994765E+06 days
2666 Date: 02/14/07 Time: 11:16:58 CPU Time: 0 0:10:46.86 (646.86 sec) Binary
2668 Time Step No. = 1560 Elapsed Time = 2.126096E+06 days
2669 Date: 02/14/07 Time: 11:17:10 CPU Time: 0 0:10:59.04 (659.04 sec) Binary
2671 Time Step No. = 1580 Elapsed Time = 2.173060E+06 days
2672 Date: 02/14/07 Time: 11:17:15 CPU Time: 0 0:11: 4.05 (664.05 sec) Binary
2674 Time Step No. = 1600 Elapsed Time = 2.558345E+06 days
2675 Date: 02/14/07 Time: 11:17:21 CPU Time: 0 0:11: 9.58 (669.58 sec) Binary
2677 Time Step No. = 1620 Elapsed Time = 2.958345E+06 days
2678 Date: 02/14/07 Time: 11:17:26 CPU Time: 0 0:11:14.93 (674.93 sec) Binary
2680 Time Step No. = 1640 Elapsed Time = 3.358345E+06 days
2681 Date: 02/14/07 Time: 11:17:31 CPU Time: 0 0:11:20.03 (680.03 sec) Binary
2684 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA: [ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
2450 Date: 02/14/07 Time: 09:56:50 CPU Time: 0 0: 0:23.22 (23.22 sec) ASCII
2452 Time Step No. = 131 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:56:50 CPU Time: 0 0: 0:23.22 (23.22 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 1.728808E-01 days
2456 Date: 02/14/07 Time: 09:56:52 CPU Time: 0 0: 0:25.17 (25.17 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 1.502175E+01 days
2459 Date: 02/14/07 Time: 09:56:55 CPU Time: 0 0: 0:29.11 (29.11 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 7.625276E+02 days
2462 Date: 02/14/07 Time: 09:57:00 CPU Time: 0 0: 0:33.77 (33.77 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 6.318104E+03 days
2465 Date: 02/14/07 Time: 09:57:07 CPU Time: 0 0: 0:40.16 (40.16 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.653252E+04 days
2468 Date: 02/14/07 Time: 09:57:15 CPU Time: 0 0: 0:48.80 (48.80 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.665724E+04 days
2471 Date: 02/14/07 Time: 09:57:19 CPU Time: 0 0: 0:52.38 (52.38 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.667033E+04 days
2474 Date: 02/14/07 Time: 09:57:21 CPU Time: 0 0: 0:54.43 (54.43 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.708680E+04 days
2477 Date: 02/14/07 Time: 09:57:25 CPU Time: 0 0: 0:58.88 (58.88 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 5.092008E+04 days
2480 Date: 02/14/07 Time: 09:57:31 CPU Time: 0 0: 1: 4.46 (64.46 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 2.039729E+05 days
2483 Date: 02/14/07 Time: 09:57:40 CPU Time: 0 0: 1:13.01 (73.01 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 2.274452E+05 days
2486 Date: 02/14/07 Time: 09:57:49 CPU Time: 0 0: 1:22.77 (82.77 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.652467E+05 days
2489 Date: 02/14/07 Time: 09:57:58 CPU Time: 0 0: 1:30.87 (90.87 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 3.652814E+05 days

2492 Date: 02/14/07 Time: 09:58:04 CPU Time: 0 0: 1:37.34 (97.34 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.655778E+05 days
2495 Date: 02/14/07 Time: 09:58:11 CPU Time: 0 0: 1:43.81 (103.81 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 3.666037E+05 days
2498 Date: 02/14/07 Time: 09:58:18 CPU Time: 0 0: 1:51.39 (111.39 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.666104E+05 days
2501 Date: 02/14/07 Time: 09:58:20 CPU Time: 0 0: 1:53.43 (113.43 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 3.671914E+05 days
2504 Date: 02/14/07 Time: 09:58:25 CPU Time: 0 0: 1:57.61 (117.61 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 3.687879E+05 days
2507 Date: 02/14/07 Time: 09:58:32 CPU Time: 0 0: 2: 4.83 (124.83 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 3.778499E+05 days
2510 Date: 02/14/07 Time: 09:58:42 CPU Time: 0 0: 2:14.54 (134.54 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 3.789049E+05 days
2513 Date: 02/14/07 Time: 09:58:49 CPU Time: 0 0: 2:21.59 (141.59 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 3.809367E+05 days
2516 Date: 02/14/07 Time: 09:58:55 CPU Time: 0 0: 2:28.36 (148.36 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 3.809693E+05 days
2519 Date: 02/14/07 Time: 09:58:58 CPU Time: 0 0: 2:30.77 (150.77 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 3.836875E+05 days
2522 Date: 02/14/07 Time: 09:59:03 CPU Time: 0 0: 2:35.71 (155.71 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 3.871760E+05 days
2525 Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 2:42.48 (162.48 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 3.879593E+05 days
2528 Date: 02/14/07 Time: 09:59:13 CPU Time: 0 0: 2:46.34 (166.34 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.964171E+05 days
2531 Date: 02/14/07 Time: 09:59:19 CPU Time: 0 0: 2:51.71 (171.71 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.984106E+05 days
2534 Date: 02/14/07 Time: 09:59:23 CPU Time: 0 0: 2:56.26 (176.26 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 4.040124E+05 days
2537 Date: 02/14/07 Time: 09:59:32 CPU Time: 0 0: 3: 4.67 (184.67 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 4.084891E+05 days
2540 Date: 02/14/07 Time: 09:59:37 CPU Time: 0 0: 3: 9.34 (189.34 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 4.148775E+05 days
2543 Date: 02/14/07 Time: 09:59:45 CPU Time: 0 0: 3:17.23 (197.23 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 4.152695E+05 days
2546 Date: 02/14/07 Time: 09:59:49 CPU Time: 0 0: 3:21.47 (201.47 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 4.155957E+05 days
2549 Date: 02/14/07 Time: 09:59:53 CPU Time: 0 0: 3:25.54 (205.54 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 4.159067E+05 days
2552 Date: 02/14/07 Time: 09:59:58 CPU Time: 0 0: 3:30.57 (210.57 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 4.230351E+05 days
2555 Date: 02/14/07 Time: 10:00:06 CPU Time: 0 0: 3:37.88 (217.88 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 4.231681E+05 days
2558 Date: 02/14/07 Time: 10:00:09 CPU Time: 0 0: 3:41.77 (221.77 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 4.246312E+05 days
2561 Date: 02/14/07 Time: 10:00:13 CPU Time: 0 0: 3:45.65 (225.65 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 4.284259E+05 days
2564 Date: 02/14/07 Time: 10:00:19 CPU Time: 0 0: 3:51.58 (231.58 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 4.288881E+05 days
2567 Date: 02/14/07 Time: 10:00:26 CPU Time: 0 0: 3:57.85 (237.85 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 4.293308E+05 days
2570 Date: 02/14/07 Time: 10:00:30 CPU Time: 0 0: 4: 2.54 (242.54 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 4.432583E+05 days
2573 Date: 02/14/07 Time: 10:00:37 CPU Time: 0 0: 4: 9.44 (249.44 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 4.443255E+05 days
2576 Date: 02/14/07 Time: 10:00:44 CPU Time: 0 0: 4:15.87 (255.87 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 4.483126E+05 days
2579 Date: 02/14/07 Time: 10:00:50 CPU Time: 0 0: 4:22.56 (262.56 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 4.534391E+05 days
2582 Date: 02/14/07 Time: 10:00:55 CPU Time: 0 0: 4:27.48 (267.48 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 4.699167E+05 days
2585 Date: 02/14/07 Time: 10:01:03 CPU Time: 0 0: 4:35.26 (275.26 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 4.858432E+05 days
2588 Date: 02/14/07 Time: 10:01:11 CPU Time: 0 0: 4:43.04 (283.04 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 4.937961E+05 days
2591 Date: 02/14/07 Time: 10:01:17 CPU Time: 0 0: 4:48.52 (288.52 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 5.466139E+05 days
2594 Date: 02/14/07 Time: 10:01:26 CPU Time: 0 0: 4:57.51 (297.51 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 5.780318E+05 days
2597 Date: 02/14/07 Time: 10:01:35 CPU Time: 0 0: 5: 7.24 (307.24 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 6.270315E+05 days
2600 Date: 02/14/07 Time: 10:01:45 CPU Time: 0 0: 5:16.63 (316.63 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 7.054870E+05 days
2603 Date: 02/14/07 Time: 10:01:52 CPU Time: 0 0: 5:24.14 (324.14 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 7.169027E+05 days

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2606 Date: 02/14/07 Time: 10:02:00 CPU Time: 0 0: 5:31.57 ( 331.57 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 7.402913E+05 days
2609 Date: 02/14/07 Time: 10:02:08 CPU Time: 0 0: 5:40.26 ( 340.26 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 7.847129E+05 days
2612 Date: 02/14/07 Time: 10:02:16 CPU Time: 0 0: 5:47.86 ( 347.86 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 8.332294E+05 days
2615 Date: 02/14/07 Time: 10:02:27 CPU Time: 0 0: 5:59.01 ( 359.01 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 8.509701E+05 days
2618 Date: 02/14/07 Time: 10:02:34 CPU Time: 0 0: 6: 5.77 ( 365.77 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 9.067910E+05 days
2621 Date: 02/14/07 Time: 10:02:45 CPU Time: 0 0: 6:17.02 ( 377.02 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 9.383181E+05 days
2624 Date: 02/14/07 Time: 10:02:54 CPU Time: 0 0: 6:25.21 ( 385.21 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 9.948692E+05 days
2627 Date: 02/14/07 Time: 10:03:02 CPU Time: 0 0: 6:33.92 ( 393.92 sec) Binary
2629 Time Step No. = 1300 Elapsed Time = 1.246977E+06 days
2630 Date: 02/14/07 Time: 10:03:10 CPU Time: 0 0: 6:41.33 ( 401.33 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 1.378669E+06 days
2633 Date: 02/14/07 Time: 10:03:19 CPU Time: 0 0: 6:51.09 ( 411.09 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 1.477485E+06 days
2636 Date: 02/14/07 Time: 10:03:26 CPU Time: 0 0: 6:57.17 ( 417.17 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 1.512368E+06 days
2639 Date: 02/14/07 Time: 10:03:35 CPU Time: 0 0: 7: 6.42 ( 426.42 sec) Binary
2641 Time Step No. = 1380 Elapsed Time = 1.528588E+06 days
2642 Date: 02/14/07 Time: 10:03:43 CPU Time: 0 0: 7:14.66 ( 434.66 sec) Binary
2644 Time Step No. = 1400 Elapsed Time = 1.544193E+06 days
2645 Date: 02/14/07 Time: 10:03:50 CPU Time: 0 0: 7:21.63 ( 441.63 sec) Binary
2647 Time Step No. = 1420 Elapsed Time = 1.579430E+06 days
2648 Date: 02/14/07 Time: 10:03:58 CPU Time: 0 0: 7:29.70 ( 449.70 sec) Binary
2650 Time Step No. = 1440 Elapsed Time = 1.605319E+06 days
2651 Date: 02/14/07 Time: 10:04:05 CPU Time: 0 0: 7:36.78 ( 456.78 sec) Binary
2653 Time Step No. = 1460 Elapsed Time = 1.707900E+06 days
2654 Date: 02/14/07 Time: 10:04:14 CPU Time: 0 0: 7:45.54 ( 465.54 sec) Binary
2656 Time Step No. = 1480 Elapsed Time = 1.729509E+06 days
2657 Date: 02/14/07 Time: 10:04:22 CPU Time: 0 0: 7:52.89 ( 472.89 sec) Binary
2659 Time Step No. = 1500 Elapsed Time = 1.810878E+06 days
2660 Date: 02/14/07 Time: 10:04:29 CPU Time: 0 0: 7:59.97 ( 479.97 sec) Binary
2662 Time Step No. = 1520 Elapsed Time = 1.877326E+06 days
2663 Date: 02/14/07 Time: 10:04:37 CPU Time: 0 0: 8: 8.67 ( 488.67 sec) Binary
2665 Time Step No. = 1540 Elapsed Time = 1.994765E+06 days
2666 Date: 02/14/07 Time: 10:04:45 CPU Time: 0 0: 8:16.55 ( 496.55 sec) Binary
2668 Time Step No. = 1560 Elapsed Time = 2.126096E+06 days
2669 Date: 02/14/07 Time: 10:04:55 CPU Time: 0 0: 8:25.99 ( 505.99 sec) Binary
2671 Time Step No. = 1580 Elapsed Time = 2.173060E+06 days
2672 Date: 02/14/07 Time: 10:04:59 CPU Time: 0 0: 8:29.90 ( 509.90 sec) Binary
2674 Time Step No. = 1600 Elapsed Time = 2.558345E+06 days
2675 Date: 02/14/07 Time: 10:05:03 CPU Time: 0 0: 8:34.31 ( 514.31 sec) Binary
2677 Time Step No. = 1620 Elapsed Time = 2.958345E+06 days
2678 Date: 02/14/07 Time: 10:05:07 CPU Time: 0 0: 8:38.42 ( 518.42 sec) Binary
2680 Time Step No. = 1640 Elapsed Time = 3.358345E+06 days
2681 Date: 02/14/07 Time: 10:05:11 CPU Time: 0 0: 8:42.20 ( 522.20 sec) Binary
2684 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
2700 CPU Time (this time step) = 0.26 sec = 0.00007 hr
2701 CPU Time (total for run) = 684.04 sec = 0.19001 hr
2702 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
2700 CPU Time (this time step) = 0.20 sec = 0.00006 hr
2701 CPU Time (total for run) = 525.21 sec = 0.14589 hr
2702 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
3378 Date: 02/14/07 Time: 11:17:35 CPU Time: 0 0:11:24.08 ( 684.08 sec) ASCII
3380 Time Step No. = 1655 Elapsed Time = 3.652431E+06 days
3381 Date: 02/14/07 Time: 11:17:35 CPU Time: 0 0:11:24.08 ( 684.08 sec) Binary
3386 *****
3387 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3388 * Completed: 02/14/07 at 11:17:35 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
3389 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
3378 Date: 02/14/07 Time: 10:05:14 CPU Time: 0 0: 8:45.24 ( 525.24 sec) ASCII
```

```
3380 Time Step No. = 1655 Elapsed Time = 3.652431E+06 days
3381 Date: 02/14/07 Time: 10:05:14 CPU Time: 0 0: 8:45.24 { 525.24 sec} Binary
3386 *****
3387 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3388 * Completed: 02/14/07 at 10:05:14 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3389 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 172

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
```

BF2_QB0600_ES40_TEST7_V013_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
 3 ** Begun on: 02/14/07 at 11:17:43 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 3 ** Begun on: 02/14/07 at 09:59:42 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
 61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_TEST7_V013.INP;2
 62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;2
 62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
 66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_CLOSURE.DAT;1
 67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_CLOSURE.DAT;1
 67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
 71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
 72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
 76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.SUM;1
 77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.SUM;1
 77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
 81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.BIN;1
 82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.BIN;1
 82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
```

```
86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
1772 CPU Time (this time step) = 0.17 sec = 0.00005 hr
1773 CPU Time (total for run) = 29.79 sec = 0.00828 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 21.39 sec = 0.00594 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
2450 Date: 02/14/07 Time: 11:18:13 CPU Time: 0 0: 0:29.81 ( 29.81 sec) ASCII
2452 Time Step No. = 140 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 11:18:13 CPU Time: 0 0: 0:29.82 ( 29.82 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 3.349069E-03 days
2456 Date: 02/14/07 Time: 11:18:18 CPU Time: 0 0: 0:34.78 ( 34.78 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 2.938345E-01 days
2459 Date: 02/14/07 Time: 11:18:22 CPU Time: 0 0: 0:39.39 ( 39.39 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 2.474097E+01 days
2462 Date: 02/14/07 Time: 11:18:27 CPU Time: 0 0: 0:44.09 ( 44.09 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 8.724359E+02 days
2465 Date: 02/14/07 Time: 11:18:34 CPU Time: 0 0: 0:51.32 ( 51.32 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 1.061273E+04 days
2468 Date: 02/14/07 Time: 11:18:42 CPU Time: 0 0: 0:59.49 ( 59.49 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 2.155677E+04 days
2471 Date: 02/14/07 Time: 11:18:52 CPU Time: 0 0: 1: 9.00 ( 69.00 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 3.652647E+04 days
2474 Date: 02/14/07 Time: 11:18:59 CPU Time: 0 0: 1:16.33 ( 76.33 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 3.665348E+04 days
2477 Date: 02/14/07 Time: 11:19:06 CPU Time: 0 0: 1:22.41 ( 82.41 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 3.665883E+04 days
2480 Date: 02/14/07 Time: 11:19:08 CPU Time: 0 0: 1:24.85 ( 84.85 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 3.699010E+04 days
2483 Date: 02/14/07 Time: 11:19:13 CPU Time: 0 0: 1:29.99 ( 89.99 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 6.033302E+04 days
2486 Date: 02/14/07 Time: 11:19:20 CPU Time: 0 0: 1:37.04 ( 97.04 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 1.684360E+05 days
2489 Date: 02/14/07 Time: 11:19:31 CPU Time: 0 0: 1:47.84 ( 107.84 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 3.612153E+05 days
2492 Date: 02/14/07 Time: 11:19:43 CPU Time: 0 0: 1:59.40 ( 119.40 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 3.652431E+05 days
2495 Date: 02/14/07 Time: 11:19:54 CPU Time: 0 0: 2:10.81 ( 130.81 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 3.652431E+05 days
2498 Date: 02/14/07 Time: 11:19:58 CPU Time: 0 0: 2:14.38 ( 134.38 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 3.652440E+05 days
2501 Date: 02/14/07 Time: 11:20:01 CPU Time: 0 0: 2:17.94 ( 137.94 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 3.652772E+05 days
2504 Date: 02/14/07 Time: 11:20:08 CPU Time: 0 0: 2:24.31 ( 144.31 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 3.654262E+05 days
2507 Date: 02/14/07 Time: 11:20:17 CPU Time: 0 0: 2:33.50 ( 153.50 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 3.662645E+05 days
2510 Date: 02/14/07 Time: 11:20:23 CPU Time: 0 0: 2:39.34 ( 159.34 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 3.667286E+05 days
2513 Date: 02/14/07 Time: 11:20:25 CPU Time: 0 0: 2:41.97 ( 161.97 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 3.669189E+05 days
2516 Date: 02/14/07 Time: 11:20:29 CPU Time: 0 0: 2:45.47 ( 165.47 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 3.688841E+05 days
2519 Date: 02/14/07 Time: 11:20:39 CPU Time: 0 0: 2:56.22 ( 176.22 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 3.692609E+05 days
2522 Date: 02/14/07 Time: 11:20:47 CPU Time: 0 0: 3: 3.56 ( 183.56 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 3.727217E+05 days
2525 Date: 02/14/07 Time: 11:20:57 CPU Time: 0 0: 3:13.75 ( 193.75 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 3.728322E+05 days
2528 Date: 02/14/07 Time: 11:21:04 CPU Time: 0 0: 3:20.72 ( 200.72 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 3.736573E+05 days
2531 Date: 02/14/07 Time: 11:21:10 CPU Time: 0 0: 3:26.19 ( 206.19 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 3.751879E+05 days
```

2534 Date: 02/14/07 Time: 11:21:20 CPU Time: 0 0: 3:36.29 (216.29 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 3.753562E+05 days
2537 Date: 02/14/07 Time: 11:21:27 CPU Time: 0 0: 3:43.94 (223.94 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 3.760316E+05 days
2540 Date: 02/14/07 Time: 11:21:33 CPU Time: 0 0: 3:49.96 (229.96 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 3.825332E+05 days
2543 Date: 02/14/07 Time: 11:21:41 CPU Time: 0 0: 3:57.88 (237.88 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 3.866955E+05 days
2546 Date: 02/14/07 Time: 11:21:49 CPU Time: 0 0: 4: 5.44 (245.44 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.873444E+05 days
2549 Date: 02/14/07 Time: 11:21:57 CPU Time: 0 0: 4:13.32 (253.32 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.889694E+05 days
2552 Date: 02/14/07 Time: 11:22:04 CPU Time: 0 0: 4:20.55 (260.55 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 4.148787E+05 days
2555 Date: 02/14/07 Time: 11:22:12 CPU Time: 0 0: 4:28.57 (268.57 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 4.172059E+05 days
2558 Date: 02/14/07 Time: 11:22:21 CPU Time: 0 0: 4:37.23 (277.23 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 4.696437E+05 days
2561 Date: 02/14/07 Time: 11:22:29 CPU Time: 0 0: 4:45.24 (285.24 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 4.778589E+05 days
2564 Date: 02/14/07 Time: 11:22:37 CPU Time: 0 0: 4:53.79 (293.79 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 5.620786E+05 days
2567 Date: 02/14/07 Time: 11:22:48 CPU Time: 0 0: 5: 4.85 (304.85 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 6.268580E+05 days
2570 Date: 02/14/07 Time: 11:23:01 CPU Time: 0 0: 5:17.57 (317.57 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 6.704336E+05 days
2573 Date: 02/14/07 Time: 11:23:10 CPU Time: 0 0: 5:26.12 (326.12 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 9.857664E+05 days
2576 Date: 02/14/07 Time: 11:23:21 CPU Time: 0 0: 5:37.86 (337.86 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 1.073310E+06 days
2579 Date: 02/14/07 Time: 11:23:31 CPU Time: 0 0: 5:47.38 (347.38 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 1.150990E+06 days
2582 Date: 02/14/07 Time: 11:23:42 CPU Time: 0 0: 5:57.99 (357.99 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 1.287816E+06 days
2585 Date: 02/14/07 Time: 11:23:53 CPU Time: 0 0: 6: 9.12 (369.12 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 1.308346E+06 days
2588 Date: 02/14/07 Time: 11:24:04 CPU Time: 0 0: 6:20.22 (380.22 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 1.456825E+06 days
2591 Date: 02/14/07 Time: 11:24:11 CPU Time: 0 0: 6:26.91 (386.91 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 1.537825E+06 days
2594 Date: 02/14/07 Time: 11:24:21 CPU Time: 0 0: 6:36.75 (396.75 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 1.696934E+06 days
2597 Date: 02/14/07 Time: 11:24:32 CPU Time: 0 0: 6:48.46 (408.46 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 1.751881E+06 days
2600 Date: 02/14/07 Time: 11:24:43 CPU Time: 0 0: 6:59.31 (419.31 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 1.820898E+06 days
2603 Date: 02/14/07 Time: 11:24:55 CPU Time: 0 0: 7:11.55 (431.55 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 1.881985E+06 days
2606 Date: 02/14/07 Time: 11:25:04 CPU Time: 0 0: 7:20.04 (440.04 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 1.916306E+06 days
2609 Date: 02/14/07 Time: 11:25:17 CPU Time: 0 0: 7:32.71 (452.71 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 1.918460E+06 days
2612 Date: 02/14/07 Time: 11:25:26 CPU Time: 0 0: 7:41.95 (461.95 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 1.946643E+06 days
2615 Date: 02/14/07 Time: 11:25:34 CPU Time: 0 0: 7:50.23 (470.23 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 1.960029E+06 days
2618 Date: 02/14/07 Time: 11:25:44 CPU Time: 0 0: 8: 0.18 (480.18 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 2.008712E+06 days
2621 Date: 02/14/07 Time: 11:25:52 CPU Time: 0 0: 8: 7.78 (487.78 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 2.077272E+06 days
2624 Date: 02/14/07 Time: 11:26:04 CPU Time: 0 0: 8:20.30 (500.30 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 2.097683E+06 days
2627 Date: 02/14/07 Time: 11:26:14 CPU Time: 0 0: 8:29.65 (509.65 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 2.146337E+06 days
2630 Date: 02/14/07 Time: 11:26:25 CPU Time: 0 0: 8:40.76 (520.76 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 2.165527E+06 days
2633 Date: 02/14/07 Time: 11:26:35 CPU Time: 0 0: 8:50.71 (530.71 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 2.287329E+06 days
2636 Date: 02/14/07 Time: 11:26:41 CPU Time: 0 0: 8:56.91 (536.91 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 2.468490E+06 days
2639 Date: 02/14/07 Time: 11:26:51 CPU Time: 0 0: 9: 7.56 (547.56 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 2.868490E+06 days
2642 Date: 02/14/07 Time: 11:26:59 CPU Time: 0 0: 9:15.17 (555.17 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 2.934390E+06 days
2645 Date: 02/14/07 Time: 11:27:08 CPU Time: 0 0: 9:24.36 (564.36 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 2.959040E+06 days

2648 Date: 02/14/07 Time: 11:27:18 CPU Time: 0 0: 9:34.32 (574.32 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 2.965271E+06 days
2651 Date: 02/14/07 Time: 11:27:23 CPU Time: 0 0: 9:39.47 (579.47 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 3.018341E+06 days
2654 Date: 02/14/07 Time: 11:27:34 CPU Time: 0 0: 9:49.59 (589.59 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 3.091685E+06 days
2657 Date: 02/14/07 Time: 11:27:44 CPU Time: 0 0:10: 0.06 (600.06 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 3.113442E+06 days
2660 Date: 02/14/07 Time: 11:27:51 CPU Time: 0 0:10: 7.00 (607.00 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 3.431278E+06 days
2663 Date: 02/14/07 Time: 11:27:57 CPU Time: 0 0:10:13.20 (613.20 sec) Binary
2666 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
2450 Date: 02/14/07 Time: 10:00:03 CPU Time: 0 0: 0:21.41 (21.41 sec) ASCII
2452 Time Step No. = 140 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:00:03 CPU Time: 0 0: 0:21.41 (21.41 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 3.349069E-03 days
2456 Date: 02/14/07 Time: 10:00:07 CPU Time: 0 0: 0:24.99 (24.99 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 2.938345E-01 days
2459 Date: 02/14/07 Time: 10:00:10 CPU Time: 0 0: 0:28.33 (28.33 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 2.474097E+01 days
2462 Date: 02/14/07 Time: 10:00:14 CPU Time: 0 0: 0:31.73 (31.73 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 8.724359E+02 days
2465 Date: 02/14/07 Time: 10:00:19 CPU Time: 0 0: 0:36.96 (36.96 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 1.061273E+04 days
2468 Date: 02/14/07 Time: 10:00:25 CPU Time: 0 0: 0:42.87 (42.87 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 2.155677E+04 days
2471 Date: 02/14/07 Time: 10:00:32 CPU Time: 0 0: 0:49.72 (49.72 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 3.652647E+04 days
2474 Date: 02/14/07 Time: 10:00:37 CPU Time: 0 0: 0:55.02 (55.02 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 3.665348E+04 days
2477 Date: 02/14/07 Time: 10:00:41 CPU Time: 0 0: 0:59.42 (59.42 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 3.665883E+04 days
2480 Date: 02/14/07 Time: 10:00:43 CPU Time: 0 0: 1: 1.18 (61.18 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 3.699010E+04 days
2483 Date: 02/14/07 Time: 10:00:47 CPU Time: 0 0: 1: 4.89 (64.89 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 6.033302E+04 days
2486 Date: 02/14/07 Time: 10:00:52 CPU Time: 0 0: 1: 9.99 (69.99 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 1.684360E+05 days
2489 Date: 02/14/07 Time: 10:01:00 CPU Time: 0 0: 1:17.78 (77.78 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 3.612153E+05 days
2492 Date: 02/14/07 Time: 10:01:08 CPU Time: 0 0: 1:26.16 (86.16 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 3.652431E+05 days
2495 Date: 02/14/07 Time: 10:01:16 CPU Time: 0 0: 1:34.41 (94.41 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 3.652431E+05 days
2498 Date: 02/14/07 Time: 10:01:19 CPU Time: 0 0: 1:37.00 (97.00 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 3.652440E+05 days
2501 Date: 02/14/07 Time: 10:01:22 CPU Time: 0 0: 1:39.59 (99.59 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 3.652772E+05 days
2504 Date: 02/14/07 Time: 10:01:26 CPU Time: 0 0: 1:44.20 (104.20 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 3.654262E+05 days
2507 Date: 02/14/07 Time: 10:01:33 CPU Time: 0 0: 1:50.81 (110.81 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 3.662645E+05 days
2510 Date: 02/14/07 Time: 10:01:37 CPU Time: 0 0: 1:55.04 (115.04 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 3.667286E+05 days
2513 Date: 02/14/07 Time: 10:01:39 CPU Time: 0 0: 1:56.94 (116.94 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 3.669189E+05 days
2516 Date: 02/14/07 Time: 10:01:41 CPU Time: 0 0: 1:59.48 (119.48 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 3.688841E+05 days
2519 Date: 02/14/07 Time: 10:01:49 CPU Time: 0 0: 2: 7.23 (127.23 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 3.692609E+05 days
2522 Date: 02/14/07 Time: 10:01:55 CPU Time: 0 0: 2:12.52 (132.52 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 3.727217E+05 days
2525 Date: 02/14/07 Time: 10:02:02 CPU Time: 0 0: 2:19.78 (139.78 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 3.728322E+05 days
2528 Date: 02/14/07 Time: 10:02:07 CPU Time: 0 0: 2:24.81 (144.81 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 3.736573E+05 days
2531 Date: 02/14/07 Time: 10:02:11 CPU Time: 0 0: 2:28.79 (148.79 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 3.751879E+05 days
2534 Date: 02/14/07 Time: 10:02:18 CPU Time: 0 0: 2:36.13 (156.13 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 3.753562E+05 days
2537 Date: 02/14/07 Time: 10:02:24 CPU Time: 0 0: 2:41.67 (161.67 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 3.760316E+05 days
2540 Date: 02/14/07 Time: 10:02:28 CPU Time: 0 0: 2:46.00 (166.00 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 3.825332E+05 days

2543 Date: 02/14/07 Time: 10:02:34 CPU Time: 0 0: 2:51.74 (171.74 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 3.866955E+05 days
2546 Date: 02/14/07 Time: 10:02:40 CPU Time: 0 0: 2:57.23 (177.23 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.873444E+05 days
2549 Date: 02/14/07 Time: 10:02:45 CPU Time: 0 0: 3: 2.89 (182.89 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.889694E+05 days
2552 Date: 02/14/07 Time: 10:02:51 CPU Time: 0 0: 3: 8.13 (188.13 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 4.148787E+05 days
2555 Date: 02/14/07 Time: 10:02:56 CPU Time: 0 0: 3:13.93 (193.93 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 4.172059E+05 days
2558 Date: 02/14/07 Time: 10:03:03 CPU Time: 0 0: 3:20.19 (200.19 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 4.696437E+05 days
2561 Date: 02/14/07 Time: 10:03:09 CPU Time: 0 0: 3:26.00 (206.00 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 4.778589E+05 days
2564 Date: 02/14/07 Time: 10:03:15 CPU Time: 0 0: 3:32.43 (212.43 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 5.620786E+05 days
2567 Date: 02/14/07 Time: 10:03:23 CPU Time: 0 0: 3:40.80 (220.80 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 6.268580E+05 days
2570 Date: 02/14/07 Time: 10:03:33 CPU Time: 0 0: 3:50.44 (230.44 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 6.704336E+05 days
2573 Date: 02/14/07 Time: 10:03:40 CPU Time: 0 0: 3:56.93 (236.93 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 9.857664E+05 days
2576 Date: 02/14/07 Time: 10:03:49 CPU Time: 0 0: 4: 5.76 (245.76 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 1.073310E+06 days
2579 Date: 02/14/07 Time: 10:03:56 CPU Time: 0 0: 4:13.00 (253.00 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 1.150990E+06 days
2582 Date: 02/14/07 Time: 10:04:04 CPU Time: 0 0: 4:21.02 (261.02 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 1.287816E+06 days
2585 Date: 02/14/07 Time: 10:04:12 CPU Time: 0 0: 4:29.33 (269.33 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 1.308346E+06 days
2588 Date: 02/14/07 Time: 10:04:21 CPU Time: 0 0: 4:37.72 (277.72 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 1.456825E+06 days
2591 Date: 02/14/07 Time: 10:04:26 CPU Time: 0 0: 4:42.82 (282.82 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 1.537825E+06 days
2594 Date: 02/14/07 Time: 10:04:33 CPU Time: 0 0: 4:50.27 (290.27 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 1.696934E+06 days
2597 Date: 02/14/07 Time: 10:04:42 CPU Time: 0 0: 4:59.13 (299.13 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 1.751881E+06 days
2600 Date: 02/14/07 Time: 10:04:50 CPU Time: 0 0: 5: 7.35 (307.35 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 1.820898E+06 days
2603 Date: 02/14/07 Time: 10:05:00 CPU Time: 0 0: 5:16.62 (316.62 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 1.881985E+06 days
2606 Date: 02/14/07 Time: 10:05:06 CPU Time: 0 0: 5:23.09 (323.09 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 1.916306E+06 days
2609 Date: 02/14/07 Time: 10:05:16 CPU Time: 0 0: 5:33.16 (333.16 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 1.918460E+06 days
2612 Date: 02/14/07 Time: 10:05:23 CPU Time: 0 0: 5:40.34 (340.34 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 1.946643E+06 days
2615 Date: 02/14/07 Time: 10:05:30 CPU Time: 0 0: 5:46.69 (346.69 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 1.960029E+06 days
2618 Date: 02/14/07 Time: 10:05:37 CPU Time: 0 0: 5:54.42 (354.42 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 2.008712E+06 days
2621 Date: 02/14/07 Time: 10:05:43 CPU Time: 0 0: 6: 0.32 (360.32 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 2.077272E+06 days
2624 Date: 02/14/07 Time: 10:05:53 CPU Time: 0 0: 6:10.03 (370.03 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 2.097683E+06 days
2627 Date: 02/14/07 Time: 10:06:00 CPU Time: 0 0: 6:17.28 (377.28 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 2.146337E+06 days
2630 Date: 02/14/07 Time: 10:06:09 CPU Time: 0 0: 6:25.64 (385.64 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 2.165527E+06 days
2633 Date: 02/14/07 Time: 10:06:16 CPU Time: 0 0: 6:32.86 (392.86 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 2.287329E+06 days
2636 Date: 02/14/07 Time: 10:06:21 CPU Time: 0 0: 6:37.40 (397.40 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 2.468490E+06 days
2639 Date: 02/14/07 Time: 10:06:28 CPU Time: 0 0: 6:45.00 (405.00 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 2.868490E+06 days
2642 Date: 02/14/07 Time: 10:06:34 CPU Time: 0 0: 6:50.47 (410.47 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 2.934390E+06 days
2645 Date: 02/14/07 Time: 10:06:40 CPU Time: 0 0: 6:57.02 (417.02 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 2.959040E+06 days
2648 Date: 02/14/07 Time: 10:06:48 CPU Time: 0 0: 7: 4.18 (424.18 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 2.965271E+06 days
2651 Date: 02/14/07 Time: 10:06:51 CPU Time: 0 0: 7: 7.89 (427.89 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 3.018341E+06 days
2654 Date: 02/14/07 Time: 10:06:59 CPU Time: 0 0: 7:15.19 (435.19 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 3.091685E+06 days

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2657 Date: 02/14/07 Time: 10:07:06 CPU Time: 0 0: 7:22.74 ( 442.74 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 3.113442E+06 days
2660 Date: 02/14/07 Time: 10:07:11 CPU Time: 0 0: 7:27.70 ( 447.70 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 3.431278E+06 days
2663 Date: 02/14/07 Time: 10:07:16 CPU Time: 0 0: 7:32.17 ( 452.17 sec) Binary
2666 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
2682 CPU Time (this time step) = 0.18 sec = 0.00005 hr
2683 CPU Time (total for run) = 616.66 sec = 0.17129 hr
2684 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
2682 CPU Time (this time step) = 0.13 sec = 0.00004 hr
2683 CPU Time (total for run) = 454.65 sec = 0.12629 hr
2684 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
3360 Date: 02/14/07 Time: 11:28:01 CPU Time: 0 0:10:16.68 ( 616.68 sec) ASCII
3362 Time Step No. = 1552 Elapsed Time = 3.652431E+06 days
3363 Date: 02/14/07 Time: 11:28:01 CPU Time: 0 0:10:16.69 ( 616.69 sec) Binary
3368 *****
3369 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3370 * Completed: 02/14/07 at 11:28:01 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
3371 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
3360 Date: 02/14/07 Time: 10:07:18 CPU Time: 0 0: 7:34.66 ( 454.66 sec) ASCII
3362 Time Step No. = 1552 Elapsed Time = 3.652431E+06 days
3363 Date: 02/14/07 Time: 10:07:18 CPU Time: 0 0: 7:34.66 ( 454.66 sec) Binary
3368 *****
3369 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3370 * Completed: 02/14/07 at 10:07:18 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3371 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 160

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
```

BF2_QB0600_ES40_TEST7_V014_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
3 ** Begun on: 02/14/07 at 11:18:47 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
3 ** Begun on: 02/14/07 at 10:03:56 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_TEST7_V014.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_CLOSURE.DAT;1
67 *****
```

```
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
  1772 CPU Time (this time step) = 0.18 sec = 0.00005 hr
  1773 CPU Time (total for run) = 37.02 sec = 0.01028 hr
  1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
  1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
  1773 CPU Time (total for run) = 26.91 sec = 0.00747 hr
  1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
  2450 Date: 02/14/07 Time: 11:19:24 CPU Time: 0 0: 0:37.04 ( 37.04 sec) ASCII
  2452 Time Step No. = 143 Elapsed Time = 0.000000E+00 days
  2453 Date: 02/14/07 Time: 11:19:24 CPU Time: 0 0: 0:37.05 ( 37.05 sec) Binary
  2455 Time Step No. = 160 Elapsed Time = 1.888386E-01 days
  2456 Date: 02/14/07 Time: 11:19:31 CPU Time: 0 0: 0:43.87 ( 43.87 sec) Binary
  2458 Time Step No. = 180 Elapsed Time = 1.049209E+01 days
  2459 Date: 02/14/07 Time: 11:19:37 CPU Time: 0 0: 0:49.56 ( 49.56 sec) Binary
  2461 Time Step No. = 200 Elapsed Time = 7.381917E+01 days
  2462 Date: 02/14/07 Time: 11:19:43 CPU Time: 0 0: 0:55.59 ( 55.59 sec) Binary
  2464 Time Step No. = 220 Elapsed Time = 1.303821E+03 days
  2465 Date: 02/14/07 Time: 11:19:51 CPU Time: 0 0: 1: 3.41 ( 63.41 sec) Binary
  2467 Time Step No. = 240 Elapsed Time = 1.029855E+04 days
  2468 Date: 02/14/07 Time: 11:20:00 CPU Time: 0 0: 1:12.06 ( 72.06 sec) Binary
  2470 Time Step No. = 260 Elapsed Time = 1.453486E+04 days
  2471 Date: 02/14/07 Time: 11:20:06 CPU Time: 0 0: 1:18.12 ( 78.12 sec) Binary
  2473 Time Step No. = 280 Elapsed Time = 1.897038E+04 days
  2474 Date: 02/14/07 Time: 11:20:13 CPU Time: 0 0: 1:25.34 ( 85.34 sec) Binary
  2476 Time Step No. = 300 Elapsed Time = 3.655441E+04 days
  2477 Date: 02/14/07 Time: 11:20:24 CPU Time: 0 0: 1:36.79 ( 96.79 sec) Binary
  2479 Time Step No. = 320 Elapsed Time = 3.665178E+04 days
  2480 Date: 02/14/07 Time: 11:20:31 CPU Time: 0 0: 1:43.05 ( 103.05 sec) Binary
  2482 Time Step No. = 340 Elapsed Time = 3.666487E+04 days
  2483 Date: 02/14/07 Time: 11:20:33 CPU Time: 0 0: 1:45.91 ( 105.91 sec) Binary
  2485 Time Step No. = 360 Elapsed Time = 3.745088E+04 days
  2486 Date: 02/14/07 Time: 11:20:39 CPU Time: 0 0: 1:51.17 ( 111.17 sec) Binary
  2488 Time Step No. = 380 Elapsed Time = 6.127717E+04 days
```

2489 Date: 02/14/07 Time: 11:20:48 CPU Time: 0 0: 2: 0.21 (120.21 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 6.603191E+04 days
2492 Date: 02/14/07 Time: 11:20:56 CPU Time: 0 0: 2: 8.21 (128.21 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 7.703200E+04 days
2495 Date: 02/14/07 Time: 11:21:03 CPU Time: 0 0: 2:15.18 (135.18 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 1.085280E+05 days
2498 Date: 02/14/07 Time: 11:21:18 CPU Time: 0 0: 2:30.76 (150.76 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 1.090970E+05 days
2501 Date: 02/14/07 Time: 11:21:29 CPU Time: 0 0: 2:41.22 (161.22 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 1.344497E+05 days
2504 Date: 02/14/07 Time: 11:21:44 CPU Time: 0 0: 2:56.32 (176.32 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 1.371412E+05 days
2507 Date: 02/14/07 Time: 11:21:50 CPU Time: 0 0: 3: 2.23 (182.23 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 1.661861E+05 days
2510 Date: 02/14/07 Time: 11:22:03 CPU Time: 0 0: 3:15.87 (195.87 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 1.808157E+05 days
2513 Date: 02/14/07 Time: 11:22:15 CPU Time: 0 0: 3:27.23 (207.23 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 1.870527E+05 days
2516 Date: 02/14/07 Time: 11:22:26 CPU Time: 0 0: 3:38.69 (218.69 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 1.979271E+05 days
2519 Date: 02/14/07 Time: 11:22:39 CPU Time: 0 0: 3:51.91 (231.91 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 2.023248E+05 days
2522 Date: 02/14/07 Time: 11:22:51 CPU Time: 0 0: 4: 3.45 (243.45 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 2.067971E+05 days
2525 Date: 02/14/07 Time: 11:23:02 CPU Time: 0 0: 4:14.41 (254.41 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 2.087652E+05 days
2528 Date: 02/14/07 Time: 11:23:11 CPU Time: 0 0: 4:23.18 (263.18 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 2.118872E+05 days
2531 Date: 02/14/07 Time: 11:23:20 CPU Time: 0 0: 4:32.24 (272.24 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 2.157256E+05 days
2534 Date: 02/14/07 Time: 11:23:29 CPU Time: 0 0: 4:41.48 (281.48 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 2.321898E+05 days
2537 Date: 02/14/07 Time: 11:23:44 CPU Time: 0 0: 4:56.55 (296.55 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 2.494542E+05 days
2540 Date: 02/14/07 Time: 11:23:53 CPU Time: 0 0: 5: 5.66 (305.66 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 3.250039E+05 days
2543 Date: 02/14/07 Time: 11:24:07 CPU Time: 0 0: 5:18.92 (318.92 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 3.652439E+05 days
2546 Date: 02/14/07 Time: 11:24:18 CPU Time: 0 0: 5:30.11 (330.11 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.653114E+05 days
2549 Date: 02/14/07 Time: 11:24:23 CPU Time: 0 0: 5:35.11 (335.11 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.659945E+05 days
2552 Date: 02/14/07 Time: 11:24:30 CPU Time: 0 0: 5:41.89 (341.89 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 3.665915E+05 days
2555 Date: 02/14/07 Time: 11:24:32 CPU Time: 0 0: 5:44.29 (344.29 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 3.667438E+05 days
2558 Date: 02/14/07 Time: 11:24:35 CPU Time: 0 0: 5:47.24 (347.24 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 3.702620E+05 days
2561 Date: 02/14/07 Time: 11:24:42 CPU Time: 0 0: 5:54.55 (354.55 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 4.022279E+05 days
2564 Date: 02/14/07 Time: 11:24:52 CPU Time: 0 0: 6: 4.26 (364.26 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 4.058413E+05 days
2567 Date: 02/14/07 Time: 11:25:03 CPU Time: 0 0: 6:15.35 (375.35 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 4.157257E+05 days
2570 Date: 02/14/07 Time: 11:25:12 CPU Time: 0 0: 6:24.77 (384.77 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 4.680020E+05 days
2573 Date: 02/14/07 Time: 11:25:24 CPU Time: 0 0: 6:36.41 (396.41 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 4.960207E+05 days
2576 Date: 02/14/07 Time: 11:25:33 CPU Time: 0 0: 6:45.51 (405.51 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 5.004681E+05 days
2579 Date: 02/14/07 Time: 11:25:44 CPU Time: 0 0: 6:55.87 (415.87 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 5.185227E+05 days
2582 Date: 02/14/07 Time: 11:25:52 CPU Time: 0 0: 7: 3.57 (423.57 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 5.256549E+05 days
2585 Date: 02/14/07 Time: 11:26:00 CPU Time: 0 0: 7:11.89 (431.89 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 5.710331E+05 days
2588 Date: 02/14/07 Time: 11:26:08 CPU Time: 0 0: 7:20.01 (440.01 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 5.995540E+05 days
2591 Date: 02/14/07 Time: 11:26:17 CPU Time: 0 0: 7:29.30 (449.30 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 6.468026E+05 days
2594 Date: 02/14/07 Time: 11:26:27 CPU Time: 0 0: 7:39.48 (459.48 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 7.581412E+05 days
2597 Date: 02/14/07 Time: 11:26:38 CPU Time: 0 0: 7:49.83 (469.83 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 7.595371E+05 days
2600 Date: 02/14/07 Time: 11:26:47 CPU Time: 0 0: 7:58.95 (478.95 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 7.605376E+05 days

2603 Date: 02/14/07 Time: 11:26:55 CPU Time: 0 0: 8: 7.31 (487.31 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 8.320140E+05 days
2606 Date: 02/14/07 Time: 11:27:02 CPU Time: 0 0: 8:13.73 (493.73 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 8.885727E+05 days
2609 Date: 02/14/07 Time: 11:27:15 CPU Time: 0 0: 8:26.93 (506.93 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 8.890150E+05 days
2612 Date: 02/14/07 Time: 11:27:23 CPU Time: 0 0: 8:34.64 (514.64 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 8.899916E+05 days
2615 Date: 02/14/07 Time: 11:27:29 CPU Time: 0 0: 8:40.74 (520.74 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 8.947272E+05 days
2618 Date: 02/14/07 Time: 11:27:35 CPU Time: 0 0: 8:46.46 (526.46 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 9.437904E+05 days
2621 Date: 02/14/07 Time: 11:27:42 CPU Time: 0 0: 8:53.88 (533.88 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 1.213758E+06 days
2624 Date: 02/14/07 Time: 11:27:58 CPU Time: 0 0: 9:10.30 (550.30 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 1.226074E+06 days
2627 Date: 02/14/07 Time: 11:28:06 CPU Time: 0 0: 9:17.43 (557.43 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 1.335351E+06 days
2630 Date: 02/14/07 Time: 11:28:19 CPU Time: 0 0: 9:31.01 (571.01 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 1.355313E+06 days
2633 Date: 02/14/07 Time: 11:28:25 CPU Time: 0 0: 9:36.84 (576.84 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 1.691414E+06 days
2636 Date: 02/14/07 Time: 11:28:36 CPU Time: 0 0: 9:48.04 (588.04 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 1.935904E+06 days
2639 Date: 02/14/07 Time: 11:28:49 CPU Time: 0 0:10: 0.40 (600.40 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 2.156829E+06 days
2642 Date: 02/14/07 Time: 11:28:59 CPU Time: 0 0:10:10.94 (610.94 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 2.385035E+06 days
2645 Date: 02/14/07 Time: 11:29:12 CPU Time: 0 0:10:23.79 (623.79 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 2.388859E+06 days
2648 Date: 02/14/07 Time: 11:29:21 CPU Time: 0 0:10:32.74 (632.74 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 2.446663E+06 days
2651 Date: 02/14/07 Time: 11:29:30 CPU Time: 0 0:10:41.41 (641.41 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 2.487155E+06 days
2654 Date: 02/14/07 Time: 11:29:43 CPU Time: 0 0:10:54.82 (654.82 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 2.546664E+06 days
2657 Date: 02/14/07 Time: 11:29:55 CPU Time: 0 0:11: 6.12 (666.12 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 2.746584E+06 days
2660 Date: 02/14/07 Time: 11:30:03 CPU Time: 0 0:11:14.16 (674.16 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 2.785922E+06 days
2663 Date: 02/14/07 Time: 11:30:15 CPU Time: 0 0:11:26.18 (686.18 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 2.839066E+06 days
2666 Date: 02/14/07 Time: 11:30:26 CPU Time: 0 0:11:37.61 (697.61 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 2.853716E+06 days
2669 Date: 02/14/07 Time: 11:30:37 CPU Time: 0 0:11:48.60 (708.60 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 2.906230E+06 days
2672 Date: 02/14/07 Time: 11:30:49 CPU Time: 0 0:11:59.97 (719.97 sec) Binary
2674 Time Step No. = 1620 Elapsed Time = 3.005066E+06 days
2675 Date: 02/14/07 Time: 11:31:01 CPU Time: 0 0:12:12.40 (732.40 sec) Binary
2677 Time Step No. = 1640 Elapsed Time = 3.035896E+06 days
2678 Date: 02/14/07 Time: 11:31:13 CPU Time: 0 0:12:24.23 (744.23 sec) Binary
2680 Time Step No. = 1660 Elapsed Time = 3.044398E+06 days
2681 Date: 02/14/07 Time: 11:31:26 CPU Time: 0 0:12:36.77 (756.77 sec) Binary
2683 Time Step No. = 1680 Elapsed Time = 3.057017E+06 days
2684 Date: 02/14/07 Time: 11:31:35 CPU Time: 0 0:12:46.21 (766.21 sec) Binary
2686 Time Step No. = 1700 Elapsed Time = 3.100833E+06 days
2687 Date: 02/14/07 Time: 11:31:43 CPU Time: 0 0:12:54.14 (774.14 sec) Binary
2689 Time Step No. = 1720 Elapsed Time = 3.124165E+06 days
2690 Date: 02/14/07 Time: 11:31:55 CPU Time: 0 0:13: 6.03 (786.03 sec) Binary
2692 Time Step No. = 1740 Elapsed Time = 3.186781E+06 days
2693 Date: 02/14/07 Time: 11:32:05 CPU Time: 0 0:13:16.31 (796.31 sec) Binary
2695 Time Step No. = 1760 Elapsed Time = 3.196106E+06 days
2696 Date: 02/14/07 Time: 11:32:11 CPU Time: 0 0:13:22.12 (802.12 sec) Binary
2698 Time Step No. = 1780 Elapsed Time = 3.298901E+06 days
2699 Date: 02/14/07 Time: 11:32:21 CPU Time: 0 0:13:32.56 (812.56 sec) Binary
2701 Time Step No. = 1800 Elapsed Time = 3.409211E+06 days
2702 Date: 02/14/07 Time: 11:32:34 CPU Time: 0 0:13:45.27 (825.27 sec) Binary
2704 Time Step No. = 1820 Elapsed Time = 3.458423E+06 days
2705 Date: 02/14/07 Time: 11:32:38 CPU Time: 0 0:13:49.65 (829.65 sec) Binary
2708 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
2450 Date: 02/14/07 Time: 10:04:23 CPU Time: 0 0: 0:26.93 (26.93 sec) ASCII
2452 Time Step No. = 143 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:04:23 CPU Time: 0 0: 0:26.93 (26.93 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 1.888386E-01 days

2456 Date: 02/14/07 Time: 10:04:28 CPU Time: 0 0: 0:31.89 (31.89 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 1.049209E+01 days
2459 Date: 02/14/07 Time: 10:04:32 CPU Time: 0 0: 0:36.02 (36.02 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 7.381917E+01 days
2462 Date: 02/14/07 Time: 10:04:37 CPU Time: 0 0: 0:40.41 (40.41 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 1.303821E+03 days
2465 Date: 02/14/07 Time: 10:04:42 CPU Time: 0 0: 0:46.07 (46.07 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 1.029855E+04 days
2468 Date: 02/14/07 Time: 10:04:49 CPU Time: 0 0: 0:52.32 (52.32 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 1.453486E+04 days
2471 Date: 02/14/07 Time: 10:04:53 CPU Time: 0 0: 0:56.71 (56.71 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 1.897038E+04 days
2474 Date: 02/14/07 Time: 10:04:58 CPU Time: 0 0: 1: 1.94 (61.94 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 3.655441E+04 days
2477 Date: 02/14/07 Time: 10:05:07 CPU Time: 0 0: 1:10.21 (70.21 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 3.665178E+04 days
2480 Date: 02/14/07 Time: 10:05:11 CPU Time: 0 0: 1:14.75 (74.75 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 3.666487E+04 days
2483 Date: 02/14/07 Time: 10:05:13 CPU Time: 0 0: 1:16.82 (76.82 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 3.745088E+04 days
2486 Date: 02/14/07 Time: 10:05:17 CPU Time: 0 0: 1:20.62 (80.62 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 6.127717E+04 days
2489 Date: 02/14/07 Time: 10:05:24 CPU Time: 0 0: 1:27.44 (87.44 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 6.603191E+04 days
2492 Date: 02/14/07 Time: 10:05:30 CPU Time: 0 0: 1:33.46 (93.46 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 7.703200E+04 days
2495 Date: 02/14/07 Time: 10:05:35 CPU Time: 0 0: 1:38.69 (98.69 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 1.085280E+05 days
2498 Date: 02/14/07 Time: 10:05:47 CPU Time: 0 0: 1:50.38 (110.38 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 1.090970E+05 days
2501 Date: 02/14/07 Time: 10:05:55 CPU Time: 0 0: 1:58.25 (118.25 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 1.344497E+05 days
2504 Date: 02/14/07 Time: 10:06:06 CPU Time: 0 0: 2: 9.56 (129.56 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 1.371412E+05 days
2507 Date: 02/14/07 Time: 10:06:11 CPU Time: 0 0: 2:14.04 (134.04 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 1.661861E+05 days
2510 Date: 02/14/07 Time: 10:06:21 CPU Time: 0 0: 2:24.25 (144.25 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 1.808157E+05 days
2513 Date: 02/14/07 Time: 10:06:29 CPU Time: 0 0: 2:32.79 (152.79 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 1.870527E+05 days
2516 Date: 02/14/07 Time: 10:06:38 CPU Time: 0 0: 2:41.42 (161.42 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 1.979271E+05 days
2519 Date: 02/14/07 Time: 10:06:48 CPU Time: 0 0: 2:51.58 (171.58 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 2.023248E+05 days
2522 Date: 02/14/07 Time: 10:06:57 CPU Time: 0 0: 3: 0.53 (180.53 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 2.067971E+05 days
2525 Date: 02/14/07 Time: 10:07:06 CPU Time: 0 0: 3: 9.00 (189.00 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 2.087652E+05 days
2528 Date: 02/14/07 Time: 10:07:13 CPU Time: 0 0: 3:15.78 (195.78 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 2.118872E+05 days
2531 Date: 02/14/07 Time: 10:07:20 CPU Time: 0 0: 3:22.79 (202.79 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 2.157256E+05 days
2534 Date: 02/14/07 Time: 10:07:27 CPU Time: 0 0: 3:29.88 (209.88 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 2.321898E+05 days
2537 Date: 02/14/07 Time: 10:07:39 CPU Time: 0 0: 3:41.79 (221.79 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 2.494542E+05 days
2540 Date: 02/14/07 Time: 10:07:46 CPU Time: 0 0: 3:48.88 (228.88 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 3.250039E+05 days
2543 Date: 02/14/07 Time: 10:07:57 CPU Time: 0 0: 3:59.31 (239.31 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 3.652439E+05 days
2546 Date: 02/14/07 Time: 10:08:06 CPU Time: 0 0: 4: 8.15 (248.15 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.653114E+05 days
2549 Date: 02/14/07 Time: 10:08:10 CPU Time: 0 0: 4:12.13 (252.13 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.659945E+05 days
2552 Date: 02/14/07 Time: 10:08:15 CPU Time: 0 0: 4:17.51 (257.51 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 3.665915E+05 days
2555 Date: 02/14/07 Time: 10:08:17 CPU Time: 0 0: 4:19.43 (259.43 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 3.667438E+05 days
2558 Date: 02/14/07 Time: 10:08:20 CPU Time: 0 0: 4:21.79 (261.79 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 3.702620E+05 days
2561 Date: 02/14/07 Time: 10:08:26 CPU Time: 0 0: 4:27.60 (267.60 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 4.022279E+05 days
2564 Date: 02/14/07 Time: 10:08:33 CPU Time: 0 0: 4:35.32 (275.32 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 4.058413E+05 days
2567 Date: 02/14/07 Time: 10:08:42 CPU Time: 0 0: 4:44.10 (284.10 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 4.157257E+05 days

2570 Date: 02/14/07 Time: 10:08:49 CPU Time: 0 0: 4:51.54 (291.54 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 4.680020E+05 days
2573 Date: 02/14/07 Time: 10:08:59 CPU Time: 0 0: 5: 0.75 (300.75 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 4.960207E+05 days
2576 Date: 02/14/07 Time: 10:09:06 CPU Time: 0 0: 5: 7.97 (307.97 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 5.004681E+05 days
2579 Date: 02/14/07 Time: 10:09:14 CPU Time: 0 0: 5:16.19 (316.19 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 5.185227E+05 days
2582 Date: 02/14/07 Time: 10:09:20 CPU Time: 0 0: 5:22.28 (322.28 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 5.256549E+05 days
2585 Date: 02/14/07 Time: 10:09:27 CPU Time: 0 0: 5:28.87 (328.87 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 5.710331E+05 days
2588 Date: 02/14/07 Time: 10:09:33 CPU Time: 0 0: 5:35.32 (335.32 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 5.995540E+05 days
2591 Date: 02/14/07 Time: 10:09:41 CPU Time: 0 0: 5:42.67 (342.67 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 6.468026E+05 days
2594 Date: 02/14/07 Time: 10:09:49 CPU Time: 0 0: 5:50.75 (350.75 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 7.581412E+05 days
2597 Date: 02/14/07 Time: 10:09:57 CPU Time: 0 0: 5:58.97 (358.97 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 7.595371E+05 days
2600 Date: 02/14/07 Time: 10:10:04 CPU Time: 0 0: 6: 6.17 (366.17 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 7.605376E+05 days
2603 Date: 02/14/07 Time: 10:10:11 CPU Time: 0 0: 6:12.69 (372.69 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 8.320140E+05 days
2606 Date: 02/14/07 Time: 10:10:16 CPU Time: 0 0: 6:17.80 (377.80 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 8.885727E+05 days
2609 Date: 02/14/07 Time: 10:10:27 CPU Time: 0 0: 6:28.25 (388.25 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 8.890150E+05 days
2612 Date: 02/14/07 Time: 10:10:33 CPU Time: 0 0: 6:34.36 (394.36 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 8.899916E+05 days
2615 Date: 02/14/07 Time: 10:10:38 CPU Time: 0 0: 6:39.20 (399.20 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 8.947272E+05 days
2618 Date: 02/14/07 Time: 10:10:42 CPU Time: 0 0: 6:43.74 (403.74 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 9.437904E+05 days
2621 Date: 02/14/07 Time: 10:10:48 CPU Time: 0 0: 6:49.61 (409.61 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 1.213758E+06 days
2624 Date: 02/14/07 Time: 10:11:01 CPU Time: 0 0: 7: 2.61 (422.61 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 1.226074E+06 days
2627 Date: 02/14/07 Time: 10:11:07 CPU Time: 0 0: 7: 8.26 (428.26 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 1.335351E+06 days
2630 Date: 02/14/07 Time: 10:11:18 CPU Time: 0 0: 7:19.01 (439.01 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 1.355313E+06 days
2633 Date: 02/14/07 Time: 10:11:22 CPU Time: 0 0: 7:23.61 (443.61 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 1.691414E+06 days
2636 Date: 02/14/07 Time: 10:11:31 CPU Time: 0 0: 7:32.45 (452.45 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 1.935904E+06 days
2639 Date: 02/14/07 Time: 10:11:41 CPU Time: 0 0: 7:42.07 (462.07 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 2.156829E+06 days
2642 Date: 02/14/07 Time: 10:11:49 CPU Time: 0 0: 7:50.15 (470.15 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 2.385035E+06 days
2645 Date: 02/14/07 Time: 10:11:58 CPU Time: 0 0: 7:59.43 (479.43 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 2.388859E+06 days
2648 Date: 02/14/07 Time: 10:12:05 CPU Time: 0 0: 8: 5.88 (485.88 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 2.446663E+06 days
2651 Date: 02/14/07 Time: 10:12:11 CPU Time: 0 0: 8:12.12 (492.12 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 2.487155E+06 days
2654 Date: 02/14/07 Time: 10:12:21 CPU Time: 0 0: 8:21.81 (501.81 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 2.546664E+06 days
2657 Date: 02/14/07 Time: 10:12:29 CPU Time: 0 0: 8:29.85 (509.85 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 2.746584E+06 days
2660 Date: 02/14/07 Time: 10:12:35 CPU Time: 0 0: 8:35.65 (515.65 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 2.785922E+06 days
2663 Date: 02/14/07 Time: 10:12:44 CPU Time: 0 0: 8:44.34 (524.34 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 2.839066E+06 days
2666 Date: 02/14/07 Time: 10:12:52 CPU Time: 0 0: 8:52.59 (532.59 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 2.853716E+06 days
2669 Date: 02/14/07 Time: 10:13:00 CPU Time: 0 0: 9: 0.53 (540.53 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 2.906230E+06 days
2672 Date: 02/14/07 Time: 10:13:08 CPU Time: 0 0: 9: 8.72 (548.72 sec) Binary
2674 Time Step No. = 1620 Elapsed Time = 3.005066E+06 days
2675 Date: 02/14/07 Time: 10:13:17 CPU Time: 0 0: 9:18.08 (558.08 sec) Binary
2677 Time Step No. = 1640 Elapsed Time = 3.035896E+06 days
2678 Date: 02/14/07 Time: 10:13:27 CPU Time: 0 0: 9:27.41 (567.41 sec) Binary
2680 Time Step No. = 1660 Elapsed Time = 3.044398E+06 days
2681 Date: 02/14/07 Time: 10:13:37 CPU Time: 0 0: 9:37.30 (577.30 sec) Binary
2683 Time Step No. = 1680 Elapsed Time = 3.057017E+06 days


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2684 Date: 02/14/07 Time: 10:13:44 CPU Time: 0 0: 9:44.77 ( 584.77 sec) Binary
2686 Time Step No. = 1700 Elapsed Time = 3.100833E+06 days
2687 Date: 02/14/07 Time: 10:13:50 CPU Time: 0 0: 9:51.05 ( 591.05 sec) Binary
2689 Time Step No. = 1720 Elapsed Time = 3.124165E+06 days
2690 Date: 02/14/07 Time: 10:14:00 CPU Time: 0 0:10: 0.43 ( 600.43 sec) Binary
2692 Time Step No. = 1740 Elapsed Time = 3.186781E+06 days
2693 Date: 02/14/07 Time: 10:14:08 CPU Time: 0 0:10: 8.20 ( 608.20 sec) Binary
2695 Time Step No. = 1760 Elapsed Time = 3.196106E+06 days
2696 Date: 02/14/07 Time: 10:14:12 CPU Time: 0 0:10:12.70 ( 612.70 sec) Binary
2698 Time Step No. = 1780 Elapsed Time = 3.298901E+06 days
2699 Date: 02/14/07 Time: 10:14:21 CPU Time: 0 0:10:21.00 ( 621.00 sec) Binary
2701 Time Step No. = 1800 Elapsed Time = 3.409211E+06 days
2702 Date: 02/14/07 Time: 10:14:31 CPU Time: 0 0:10:31.05 ( 631.05 sec) Binary
2704 Time Step No. = 1820 Elapsed Time = 3.458423E+06 days
2705 Date: 02/14/07 Time: 10:14:34 CPU Time: 0 0:10:34.52 ( 634.52 sec) Binary
2708 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
2724 CPU Time (this time step) = 0.28 sec = 0.00008 hr
2725 CPU Time (total for run) = 834.90 sec = 0.23192 hr
2726 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
2724 CPU Time (this time step) = 0.21 sec = 0.00006 hr
2725 CPU Time (total for run) = 638.67 sec = 0.17741 hr
2726 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
3402 Date: 02/14/07 Time: 11:32:44 CPU Time: 0 0:13:54.92 ( 834.92 sec) ASCII
3404 Time Step No. = 1833 Elapsed Time = 3.652431E+06 days
3405 Date: 02/14/07 Time: 11:32:44 CPU Time: 0 0:13:54.92 ( 834.92 sec) Binary
3410 *****
3411 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3412 * Completed: 02/14/07 at 11:32:44 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
3413 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
3402 Date: 02/14/07 Time: 10:14:38 CPU Time: 0 0:10:38.68 ( 638.68 sec) ASCII
3404 Time Step No. = 1833 Elapsed Time = 3.652431E+06 days
3405 Date: 02/14/07 Time: 10:14:38 CPU Time: 0 0:10:38.69 ( 638.69 sec) Binary
3410 *****
3411 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3412 * Completed: 02/14/07 at 10:14:38 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3413 *****
*****
Number of difference sections found: 11
Number of difference records found: 188
```

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
```

BF2_QB0600_ES40_TEST7_V015_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
3 ** Begun on: 02/14/07 at 11:28:08 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
3 ** Begun on: 02/14/07 at 10:05:21 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_TEST7_V015.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;2
```

```
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
1772 CPU Time (this time step) = 0.18 sec = 0.00005 hr
1773 CPU Time (total for run) = 50.33 sec = 0.01398 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
1772 CPU Time (this time step) = 0.12 sec = 0.00003 hr
1773 CPU Time (total for run) = 36.30 sec = 0.01008 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
2450 Date: 02/14/07 Time: 11:28:58 CPU Time: 0 0: 0:50.35 ( 50.35 sec) ASCII
2452 Time Step No. = 210 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 11:28:58 CPU Time: 0 0: 0:50.36 ( 50.36 sec) Binary
2455 Time Step No. = 220 Elapsed Time = 2.536995E-06 days
2456 Date: 02/14/07 Time: 11:29:02 CPU Time: 0 0: 0:54.26 ( 54.26 sec) Binary
2458 Time Step No. = 240 Elapsed Time = 2.462139E-04 days
2459 Date: 02/14/07 Time: 11:29:06 CPU Time: 0 0: 0:57.85 ( 57.85 sec) Binary
2461 Time Step No. = 260 Elapsed Time = 2.138181E-02 days
2462 Date: 02/14/07 Time: 11:29:10 CPU Time: 0 0: 1: 1.79 ( 61.79 sec) Binary
2464 Time Step No. = 280 Elapsed Time = 8.282803E-01 days
2465 Date: 02/14/07 Time: 11:29:17 CPU Time: 0 0: 1: 8.39 ( 68.39 sec) Binary
2467 Time Step No. = 300 Elapsed Time = 9.304805E+00 days
2468 Date: 02/14/07 Time: 11:29:23 CPU Time: 0 0: 1:14.80 ( 74.80 sec) Binary
2470 Time Step No. = 320 Elapsed Time = 3.446185E+01 days
2471 Date: 02/14/07 Time: 11:29:30 CPU Time: 0 0: 1:21.33 ( 81.33 sec) Binary
2473 Time Step No. = 340 Elapsed Time = 3.301301E+02 days
```

2474 Date: 02/14/07 Time: 11:29:36 CPU Time: 0 0: 1:27.49 (87.49 sec) Binary
2476 Time Step No. = 360 Elapsed Time = 3.883799E+03 days
2477 Date: 02/14/07 Time: 11:29:44 CPU Time: 0 0: 1:35.96 (95.96 sec) Binary
2479 Time Step No. = 380 Elapsed Time = 9.380975E+03 days
2480 Date: 02/14/07 Time: 11:29:52 CPU Time: 0 0: 1:43.87 (103.87 sec) Binary
2482 Time Step No. = 400 Elapsed Time = 1.987397E+04 days
2483 Date: 02/14/07 Time: 11:29:59 CPU Time: 0 0: 1:50.24 (110.24 sec) Binary
2485 Time Step No. = 420 Elapsed Time = 2.958099E+04 days
2486 Date: 02/14/07 Time: 11:30:10 CPU Time: 0 0: 2: 1.27 (121.27 sec) Binary
2488 Time Step No. = 440 Elapsed Time = 3.655662E+04 days
2489 Date: 02/14/07 Time: 11:30:18 CPU Time: 0 0: 2:10.08 (130.08 sec) Binary
2491 Time Step No. = 460 Elapsed Time = 3.667440E+04 days
2492 Date: 02/14/07 Time: 11:30:22 CPU Time: 0 0: 2:13.67 (133.67 sec) Binary
2494 Time Step No. = 480 Elapsed Time = 3.673678E+04 days
2495 Date: 02/14/07 Time: 11:30:26 CPU Time: 0 0: 2:17.29 (137.29 sec) Binary
2497 Time Step No. = 500 Elapsed Time = 3.915452E+04 days
2498 Date: 02/14/07 Time: 11:30:32 CPU Time: 0 0: 2:23.78 (143.78 sec) Binary
2500 Time Step No. = 520 Elapsed Time = 7.353667E+04 days
2501 Date: 02/14/07 Time: 11:30:42 CPU Time: 0 0: 2:33.95 (153.95 sec) Binary
2503 Time Step No. = 540 Elapsed Time = 1.617796E+05 days
2504 Date: 02/14/07 Time: 11:30:57 CPU Time: 0 0: 2:48.36 (168.36 sec) Binary
2506 Time Step No. = 560 Elapsed Time = 1.667678E+05 days
2507 Date: 02/14/07 Time: 11:31:10 CPU Time: 0 0: 3: 1.74 (181.74 sec) Binary
2509 Time Step No. = 580 Elapsed Time = 1.677068E+05 days
2510 Date: 02/14/07 Time: 11:31:17 CPU Time: 0 0: 3: 8.09 (188.09 sec) Binary
2512 Time Step No. = 600 Elapsed Time = 1.761057E+05 days
2513 Date: 02/14/07 Time: 11:31:26 CPU Time: 0 0: 3:17.48 (197.48 sec) Binary
2515 Time Step No. = 620 Elapsed Time = 2.548561E+05 days
2516 Date: 02/14/07 Time: 11:31:38 CPU Time: 0 0: 3:29.34 (209.34 sec) Binary
2518 Time Step No. = 640 Elapsed Time = 3.342697E+05 days
2519 Date: 02/14/07 Time: 11:31:51 CPU Time: 0 0: 3:42.15 (222.15 sec) Binary
2521 Time Step No. = 660 Elapsed Time = 3.395756E+05 days
2522 Date: 02/14/07 Time: 11:32:05 CPU Time: 0 0: 3:56.01 (236.01 sec) Binary
2524 Time Step No. = 680 Elapsed Time = 3.398686E+05 days
2525 Date: 02/14/07 Time: 11:32:09 CPU Time: 0 0: 4: 0.16 (240.16 sec) Binary
2527 Time Step No. = 700 Elapsed Time = 3.453184E+05 days
2528 Date: 02/14/07 Time: 11:32:18 CPU Time: 0 0: 4: 8.74 (248.74 sec) Binary
2530 Time Step No. = 720 Elapsed Time = 3.619564E+05 days
2531 Date: 02/14/07 Time: 11:32:28 CPU Time: 0 0: 4:19.27 (259.27 sec) Binary
2533 Time Step No. = 740 Elapsed Time = 3.652437E+05 days
2534 Date: 02/14/07 Time: 11:32:34 CPU Time: 0 0: 4:25.43 (265.43 sec) Binary
2536 Time Step No. = 760 Elapsed Time = 3.652836E+05 days
2537 Date: 02/14/07 Time: 11:32:40 CPU Time: 0 0: 4:31.43 (271.43 sec) Binary
2539 Time Step No. = 780 Elapsed Time = 3.659700E+05 days
2540 Date: 02/14/07 Time: 11:32:47 CPU Time: 0 0: 4:38.45 (278.45 sec) Binary
2542 Time Step No. = 800 Elapsed Time = 3.665230E+05 days
2543 Date: 02/14/07 Time: 11:32:50 CPU Time: 0 0: 4:41.00 (281.00 sec) Binary
2545 Time Step No. = 820 Elapsed Time = 3.666753E+05 days
2546 Date: 02/14/07 Time: 11:32:52 CPU Time: 0 0: 4:43.36 (283.36 sec) Binary
2548 Time Step No. = 840 Elapsed Time = 3.798850E+05 days
2549 Date: 02/14/07 Time: 11:32:58 CPU Time: 0 0: 4:49.37 (289.37 sec) Binary
2551 Time Step No. = 860 Elapsed Time = 3.879056E+05 days
2552 Date: 02/14/07 Time: 11:33:05 CPU Time: 0 0: 4:56.00 (296.00 sec) Binary
2554 Time Step No. = 880 Elapsed Time = 3.946995E+05 days
2555 Date: 02/14/07 Time: 11:33:19 CPU Time: 0 0: 5: 9.54 (309.54 sec) Binary
2557 Time Step No. = 900 Elapsed Time = 3.975263E+05 days
2558 Date: 02/14/07 Time: 11:33:27 CPU Time: 0 0: 5:17.38 (317.38 sec) Binary
2560 Time Step No. = 920 Elapsed Time = 4.345875E+05 days
2561 Date: 02/14/07 Time: 11:33:37 CPU Time: 0 0: 5:27.69 (327.69 sec) Binary
2563 Time Step No. = 940 Elapsed Time = 4.372829E+05 days
2564 Date: 02/14/07 Time: 11:33:45 CPU Time: 0 0: 5:35.27 (335.27 sec) Binary
2566 Time Step No. = 960 Elapsed Time = 4.689932E+05 days
2567 Date: 02/14/07 Time: 11:33:57 CPU Time: 0 0: 5:47.30 (347.30 sec) Binary
2569 Time Step No. = 980 Elapsed Time = 4.690669E+05 days
2570 Date: 02/14/07 Time: 11:34:03 CPU Time: 0 0: 5:53.23 (353.23 sec) Binary
2572 Time Step No. = 1000 Elapsed Time = 4.692436E+05 days
2573 Date: 02/14/07 Time: 11:34:11 CPU Time: 0 0: 6: 1.20 (361.20 sec) Binary
2575 Time Step No. = 1020 Elapsed Time = 4.727425E+05 days
2576 Date: 02/14/07 Time: 11:34:16 CPU Time: 0 0: 6: 6.06 (366.06 sec) Binary
2578 Time Step No. = 1040 Elapsed Time = 4.959067E+05 days
2579 Date: 02/14/07 Time: 11:34:27 CPU Time: 0 0: 6:17.02 (377.02 sec) Binary
2581 Time Step No. = 1060 Elapsed Time = 4.961354E+05 days
2582 Date: 02/14/07 Time: 11:34:36 CPU Time: 0 0: 6:25.94 (385.94 sec) Binary
2584 Time Step No. = 1080 Elapsed Time = 4.962283E+05 days
2585 Date: 02/14/07 Time: 11:34:42 CPU Time: 0 0: 6:31.95 (391.95 sec) Binary
2587 Time Step No. = 1100 Elapsed Time = 4.963551E+05 days

2588 Date: 02/14/07 Time: 11:34:51 CPU Time: 0 0: 6:40.94 (400.94 sec) Binary
2590 Time Step No. = 1120 Elapsed Time = 4.965395E+05 days
2591 Date: 02/14/07 Time: 11:34:58 CPU Time: 0 0: 6:47.84 (407.84 sec) Binary
2593 Time Step No. = 1140 Elapsed Time = 4.967846E+05 days
2594 Date: 02/14/07 Time: 11:35:05 CPU Time: 0 0: 6:55.54 (415.54 sec) Binary
2596 Time Step No. = 1160 Elapsed Time = 4.970089E+05 days
2597 Date: 02/14/07 Time: 11:35:12 CPU Time: 0 0: 7: 2.09 (422.09 sec) Binary
2599 Time Step No. = 1180 Elapsed Time = 5.106798E+05 days
2600 Date: 02/14/07 Time: 11:35:18 CPU Time: 0 0: 7: 8.49 (428.49 sec) Binary
2602 Time Step No. = 1200 Elapsed Time = 6.282308E+05 days
2603 Date: 02/14/07 Time: 11:35:29 CPU Time: 0 0: 7:19.48 (439.48 sec) Binary
2605 Time Step No. = 1220 Elapsed Time = 6.292016E+05 days
2606 Date: 02/14/07 Time: 11:35:37 CPU Time: 0 0: 7:26.83 (446.83 sec) Binary
2608 Time Step No. = 1240 Elapsed Time = 6.724873E+05 days
2609 Date: 02/14/07 Time: 11:35:42 CPU Time: 0 0: 7:32.49 (452.49 sec) Binary
2611 Time Step No. = 1260 Elapsed Time = 7.595756E+05 days
2612 Date: 02/14/07 Time: 11:35:59 CPU Time: 0 0: 7:49.61 (469.61 sec) Binary
2614 Time Step No. = 1280 Elapsed Time = 7.597863E+05 days
2615 Date: 02/14/07 Time: 11:36:05 CPU Time: 0 0: 7:55.80 (475.80 sec) Binary
2617 Time Step No. = 1300 Elapsed Time = 7.652157E+05 days
2618 Date: 02/14/07 Time: 11:36:12 CPU Time: 0 0: 8: 1.99 (481.99 sec) Binary
2620 Time Step No. = 1320 Elapsed Time = 9.698579E+05 days
2621 Date: 02/14/07 Time: 11:36:23 CPU Time: 0 0: 8:13.09 (493.09 sec) Binary
2623 Time Step No. = 1340 Elapsed Time = 1.034415E+06 days
2624 Date: 02/14/07 Time: 11:36:34 CPU Time: 0 0: 8:24.23 (504.23 sec) Binary
2626 Time Step No. = 1360 Elapsed Time = 1.037401E+06 days
2627 Date: 02/14/07 Time: 11:36:41 CPU Time: 0 0: 8:31.59 (511.59 sec) Binary
2629 Time Step No. = 1380 Elapsed Time = 1.041328E+06 days
2630 Date: 02/14/07 Time: 11:36:47 CPU Time: 0 0: 8:37.25 (517.25 sec) Binary
2632 Time Step No. = 1400 Elapsed Time = 1.098365E+06 days
2633 Date: 02/14/07 Time: 11:36:57 CPU Time: 0 0: 8:47.29 (527.29 sec) Binary
2635 Time Step No. = 1420 Elapsed Time = 1.141983E+06 days
2636 Date: 02/14/07 Time: 11:37:11 CPU Time: 0 0: 9: 1.46 (541.46 sec) Binary
2638 Time Step No. = 1440 Elapsed Time = 1.153665E+06 days
2639 Date: 02/14/07 Time: 11:37:18 CPU Time: 0 0: 9: 7.92 (547.92 sec) Binary
2641 Time Step No. = 1460 Elapsed Time = 1.335324E+06 days
2642 Date: 02/14/07 Time: 11:37:30 CPU Time: 0 0: 9:20.63 (560.63 sec) Binary
2644 Time Step No. = 1480 Elapsed Time = 1.341276E+06 days
2645 Date: 02/14/07 Time: 11:37:40 CPU Time: 0 0: 9:30.25 (570.25 sec) Binary
2647 Time Step No. = 1500 Elapsed Time = 1.507144E+06 days
2648 Date: 02/14/07 Time: 11:37:50 CPU Time: 0 0: 9:39.77 (579.77 sec) Binary
2650 Time Step No. = 1520 Elapsed Time = 1.542314E+06 days
2651 Date: 02/14/07 Time: 11:38:01 CPU Time: 0 0: 9:51.16 (591.16 sec) Binary
2653 Time Step No. = 1540 Elapsed Time = 1.584898E+06 days
2654 Date: 02/14/07 Time: 11:38:17 CPU Time: 0 0:10: 7.49 (607.49 sec) Binary
2656 Time Step No. = 1560 Elapsed Time = 1.593257E+06 days
2657 Date: 02/14/07 Time: 11:38:24 CPU Time: 0 0:10:13.76 (613.76 sec) Binary
2659 Time Step No. = 1580 Elapsed Time = 1.610328E+06 days
2660 Date: 02/14/07 Time: 11:38:37 CPU Time: 0 0:10:27.18 (627.18 sec) Binary
2662 Time Step No. = 1600 Elapsed Time = 1.612772E+06 days
2663 Date: 02/14/07 Time: 11:38:42 CPU Time: 0 0:10:32.48 (632.48 sec) Binary
2665 Time Step No. = 1620 Elapsed Time = 1.644829E+06 days
2666 Date: 02/14/07 Time: 11:38:54 CPU Time: 0 0:10:44.15 (644.15 sec) Binary
2668 Time Step No. = 1640 Elapsed Time = 1.647332E+06 days
2669 Date: 02/14/07 Time: 11:38:59 CPU Time: 0 0:10:49.54 (649.54 sec) Binary
2671 Time Step No. = 1660 Elapsed Time = 1.676105E+06 days
2672 Date: 02/14/07 Time: 11:39:11 CPU Time: 0 0:11: 1.40 (661.40 sec) Binary
2674 Time Step No. = 1680 Elapsed Time = 1.683726E+06 days
2675 Date: 02/14/07 Time: 11:39:21 CPU Time: 0 0:11:11.36 (671.36 sec) Binary
2677 Time Step No. = 1700 Elapsed Time = 1.687797E+06 days
2678 Date: 02/14/07 Time: 11:39:31 CPU Time: 0 0:11:20.70 (680.70 sec) Binary
2680 Time Step No. = 1720 Elapsed Time = 1.698092E+06 days
2681 Date: 02/14/07 Time: 11:39:43 CPU Time: 0 0:11:32.87 (692.87 sec) Binary
2683 Time Step No. = 1740 Elapsed Time = 1.699011E+06 days
2684 Date: 02/14/07 Time: 11:39:50 CPU Time: 0 0:11:40.04 (700.04 sec) Binary
2686 Time Step No. = 1760 Elapsed Time = 1.705672E+06 days
2687 Date: 02/14/07 Time: 11:39:59 CPU Time: 0 0:11:48.89 (708.89 sec) Binary
2689 Time Step No. = 1780 Elapsed Time = 1.706405E+06 days
2690 Date: 02/14/07 Time: 11:40:05 CPU Time: 0 0:11:55.01 (715.01 sec) Binary
2692 Time Step No. = 1800 Elapsed Time = 1.706652E+06 days
2693 Date: 02/14/07 Time: 11:40:11 CPU Time: 0 0:12: 0.86 (720.86 sec) Binary
2695 Time Step No. = 1820 Elapsed Time = 1.724983E+06 days
2696 Date: 02/14/07 Time: 11:40:16 CPU Time: 0 0:12: 6.36 (726.36 sec) Binary
2698 Time Step No. = 1840 Elapsed Time = 1.787596E+06 days
2699 Date: 02/14/07 Time: 11:40:28 CPU Time: 0 0:12:18.39 (738.39 sec) Binary
2701 Time Step No. = 1860 Elapsed Time = 1.788665E+06 days

2702 Date: 02/14/07 Time: 11:40:33 CPU Time: 0 0:12:22.61 (742.61 sec) Binary
2704 Time Step No. = 1880 Elapsed Time = 1.881371E+06 days
2705 Date: 02/14/07 Time: 11:40:39 CPU Time: 0 0:12:29.88 (748.88 sec) Binary
2707 Time Step No. = 1900 Elapsed Time = 1.938667E+06 days
2708 Date: 02/14/07 Time: 11:40:49 CPU Time: 0 0:12:38.70 (758.70 sec) Binary
2710 Time Step No. = 1920 Elapsed Time = 1.983257E+06 days
2711 Date: 02/14/07 Time: 11:40:59 CPU Time: 0 0:12:48.85 (768.85 sec) Binary
2713 Time Step No. = 1940 Elapsed Time = 2.079511E+06 days
2714 Date: 02/14/07 Time: 11:41:08 CPU Time: 0 0:12:57.54 (777.54 sec) Binary
2716 Time Step No. = 1960 Elapsed Time = 2.106284E+06 days
2717 Date: 02/14/07 Time: 11:41:17 CPU Time: 0 0:13: 6.31 (786.31 sec) Binary
2719 Time Step No. = 1980 Elapsed Time = 2.374555E+06 days
2720 Date: 02/14/07 Time: 11:41:22 CPU Time: 0 0:13:11.77 (791.77 sec) Binary
2722 Time Step No. = 2000 Elapsed Time = 2.774555E+06 days
2723 Date: 02/14/07 Time: 11:41:28 CPU Time: 0 0:13:17.13 (797.13 sec) Binary
2725 Time Step No. = 2020 Elapsed Time = 3.174555E+06 days
2726 Date: 02/14/07 Time: 11:41:33 CPU Time: 0 0:13:22.51 (802.51 sec) Binary
2728 Time Step No. = 2040 Elapsed Time = 3.574555E+06 days
2729 Date: 02/14/07 Time: 11:41:39 CPU Time: 0 0:13:27.89 (807.89 sec) Binary
2732 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
2450 Date: 02/14/07 Time: 10:05:57 CPU Time: 0 0: 0:36.32 (36.32 sec) ASCII
2452 Time Step No. = 210 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:05:57 CPU Time: 0 0: 0:36.32 (36.32 sec) Binary
2455 Time Step No. = 220 Elapsed Time = 2.536995E-06 days
2456 Date: 02/14/07 Time: 10:06:00 CPU Time: 0 0: 0:39.15 (39.15 sec) Binary
2458 Time Step No. = 240 Elapsed Time = 2.462139E-04 days
2459 Date: 02/14/07 Time: 10:06:03 CPU Time: 0 0: 0:41.76 (41.76 sec) Binary
2461 Time Step No. = 260 Elapsed Time = 2.138181E-02 days
2462 Date: 02/14/07 Time: 10:06:06 CPU Time: 0 0: 0:44.68 (44.68 sec) Binary
2464 Time Step No. = 280 Elapsed Time = 8.282803E-01 days
2465 Date: 02/14/07 Time: 10:06:11 CPU Time: 0 0: 0:49.77 (49.77 sec) Binary
2467 Time Step No. = 300 Elapsed Time = 9.304805E+00 days
2468 Date: 02/14/07 Time: 10:06:16 CPU Time: 0 0: 0:54.74 (54.74 sec) Binary
2470 Time Step No. = 320 Elapsed Time = 3.446185E+01 days
2471 Date: 02/14/07 Time: 10:06:21 CPU Time: 0 0: 0:59.75 (59.75 sec) Binary
2473 Time Step No. = 340 Elapsed Time = 3.301301E+02 days
2474 Date: 02/14/07 Time: 10:06:26 CPU Time: 0 0: 1: 4.51 (64.51 sec) Binary
2476 Time Step No. = 360 Elapsed Time = 3.883799E+03 days
2477 Date: 02/14/07 Time: 10:06:32 CPU Time: 0 0: 1:11.03 (71.03 sec) Binary
2479 Time Step No. = 380 Elapsed Time = 9.380975E+03 days
2480 Date: 02/14/07 Time: 10:06:38 CPU Time: 0 0: 1:17.01 (77.01 sec) Binary
2482 Time Step No. = 400 Elapsed Time = 1.987397E+04 days
2483 Date: 02/14/07 Time: 10:06:43 CPU Time: 0 0: 1:21.87 (81.87 sec) Binary
2485 Time Step No. = 420 Elapsed Time = 2.958099E+04 days
2486 Date: 02/14/07 Time: 10:06:51 CPU Time: 0 0: 1:30.13 (90.13 sec) Binary
2488 Time Step No. = 440 Elapsed Time = 3.655662E+04 days
2489 Date: 02/14/07 Time: 10:06:58 CPU Time: 0 0: 1:36.74 (96.74 sec) Binary
2491 Time Step No. = 460 Elapsed Time = 3.667440E+04 days
2492 Date: 02/14/07 Time: 10:07:01 CPU Time: 0 0: 1:39.47 (99.47 sec) Binary
2494 Time Step No. = 480 Elapsed Time = 3.673678E+04 days
2495 Date: 02/14/07 Time: 10:07:03 CPU Time: 0 0: 1:42.19 (102.19 sec) Binary
2497 Time Step No. = 500 Elapsed Time = 3.915452E+04 days
2498 Date: 02/14/07 Time: 10:07:08 CPU Time: 0 0: 1:47.08 (107.08 sec) Binary
2500 Time Step No. = 520 Elapsed Time = 7.353667E+04 days
2501 Date: 02/14/07 Time: 10:07:16 CPU Time: 0 0: 1:54.69 (114.69 sec) Binary
2503 Time Step No. = 540 Elapsed Time = 1.617796E+05 days
2504 Date: 02/14/07 Time: 10:07:27 CPU Time: 0 0: 2: 5.58 (125.58 sec) Binary
2506 Time Step No. = 560 Elapsed Time = 1.667678E+05 days
2507 Date: 02/14/07 Time: 10:07:38 CPU Time: 0 0: 2:15.94 (135.94 sec) Binary
2509 Time Step No. = 580 Elapsed Time = 1.677068E+05 days
2510 Date: 02/14/07 Time: 10:07:42 CPU Time: 0 0: 2:20.84 (140.84 sec) Binary
2512 Time Step No. = 600 Elapsed Time = 1.761057E+05 days
2513 Date: 02/14/07 Time: 10:07:50 CPU Time: 0 0: 2:28.08 (148.08 sec) Binary
2515 Time Step No. = 620 Elapsed Time = 2.548561E+05 days
2516 Date: 02/14/07 Time: 10:07:59 CPU Time: 0 0: 2:37.21 (157.21 sec) Binary
2518 Time Step No. = 640 Elapsed Time = 3.342697E+05 days
2519 Date: 02/14/07 Time: 10:08:08 CPU Time: 0 0: 2:46.85 (166.85 sec) Binary
2521 Time Step No. = 660 Elapsed Time = 3.395756E+05 days
2522 Date: 02/14/07 Time: 10:08:19 CPU Time: 0 0: 2:57.26 (177.26 sec) Binary
2524 Time Step No. = 680 Elapsed Time = 3.398686E+05 days
2525 Date: 02/14/07 Time: 10:08:22 CPU Time: 0 0: 3: 0.38 (180.38 sec) Binary
2527 Time Step No. = 700 Elapsed Time = 3.453184E+05 days
2528 Date: 02/14/07 Time: 10:08:29 CPU Time: 0 0: 3: 6.81 (186.81 sec) Binary
2530 Time Step No. = 720 Elapsed Time = 3.619564E+05 days

2531 Date: 02/14/07 Time: 10:08:37 CPU Time: 0 0: 3:14.71 (194.71 sec) Binary
2533 Time Step No. = 740 Elapsed Time = 3.652437E+05 days
2534 Date: 02/14/07 Time: 10:08:41 CPU Time: 0 0: 3:19.35 (199.35 sec) Binary
2536 Time Step No. = 760 Elapsed Time = 3.652836E+05 days
2537 Date: 02/14/07 Time: 10:08:46 CPU Time: 0 0: 3:23.87 (203.87 sec) Binary
2539 Time Step No. = 780 Elapsed Time = 3.659700E+05 days
2540 Date: 02/14/07 Time: 10:08:51 CPU Time: 0 0: 3:29.19 (209.19 sec) Binary
2542 Time Step No. = 800 Elapsed Time = 3.665230E+05 days
2543 Date: 02/14/07 Time: 10:08:53 CPU Time: 0 0: 3:31.08 (211.08 sec) Binary
2545 Time Step No. = 820 Elapsed Time = 3.666753E+05 days
2546 Date: 02/14/07 Time: 10:08:55 CPU Time: 0 0: 3:32.81 (212.81 sec) Binary
2548 Time Step No. = 840 Elapsed Time = 3.798850E+05 days
2549 Date: 02/14/07 Time: 10:08:59 CPU Time: 0 0: 3:37.33 (217.33 sec) Binary
2551 Time Step No. = 860 Elapsed Time = 3.879056E+05 days
2552 Date: 02/14/07 Time: 10:09:04 CPU Time: 0 0: 3:42.32 (222.32 sec) Binary
2554 Time Step No. = 880 Elapsed Time = 3.946995E+05 days
2555 Date: 02/14/07 Time: 10:09:14 CPU Time: 0 0: 3:52.50 (232.50 sec) Binary
2557 Time Step No. = 900 Elapsed Time = 3.975263E+05 days
2558 Date: 02/14/07 Time: 10:09:20 CPU Time: 0 0: 3:58.42 (238.42 sec) Binary
2560 Time Step No. = 920 Elapsed Time = 4.345875E+05 days
2561 Date: 02/14/07 Time: 10:09:28 CPU Time: 0 0: 4: 6.20 (246.20 sec) Binary
2563 Time Step No. = 940 Elapsed Time = 4.372829E+05 days
2564 Date: 02/14/07 Time: 10:09:34 CPU Time: 0 0: 4:11.92 (251.92 sec) Binary
2566 Time Step No. = 960 Elapsed Time = 4.689932E+05 days
2567 Date: 02/14/07 Time: 10:09:43 CPU Time: 0 0: 4:20.97 (260.97 sec) Binary
2569 Time Step No. = 980 Elapsed Time = 4.690669E+05 days
2570 Date: 02/14/07 Time: 10:09:47 CPU Time: 0 0: 4:25.42 (265.42 sec) Binary
2572 Time Step No. = 1000 Elapsed Time = 4.692436E+05 days
2573 Date: 02/14/07 Time: 10:09:53 CPU Time: 0 0: 4:31.41 (271.41 sec) Binary
2575 Time Step No. = 1020 Elapsed Time = 4.727425E+05 days
2576 Date: 02/14/07 Time: 10:09:57 CPU Time: 0 0: 4:35.07 (275.07 sec) Binary
2578 Time Step No. = 1040 Elapsed Time = 4.959067E+05 days
2579 Date: 02/14/07 Time: 10:10:05 CPU Time: 0 0: 4:43.30 (283.30 sec) Binary
2581 Time Step No. = 1060 Elapsed Time = 4.961354E+05 days
2582 Date: 02/14/07 Time: 10:10:12 CPU Time: 0 0: 4:50.00 (290.00 sec) Binary
2584 Time Step No. = 1080 Elapsed Time = 4.962283E+05 days
2585 Date: 02/14/07 Time: 10:10:17 CPU Time: 0 0: 4:54.52 (294.52 sec) Binary
2587 Time Step No. = 1100 Elapsed Time = 4.963551E+05 days
2588 Date: 02/14/07 Time: 10:10:23 CPU Time: 0 0: 5: 1.30 (301.30 sec) Binary
2590 Time Step No. = 1120 Elapsed Time = 4.965395E+05 days
2591 Date: 02/14/07 Time: 10:10:29 CPU Time: 0 0: 5: 6.50 (306.50 sec) Binary
2593 Time Step No. = 1140 Elapsed Time = 4.967846E+05 days
2594 Date: 02/14/07 Time: 10:10:34 CPU Time: 0 0: 5:12.30 (312.30 sec) Binary
2596 Time Step No. = 1160 Elapsed Time = 4.970089E+05 days
2597 Date: 02/14/07 Time: 10:10:39 CPU Time: 0 0: 5:17.24 (317.24 sec) Binary
2599 Time Step No. = 1180 Elapsed Time = 5.106798E+05 days
2600 Date: 02/14/07 Time: 10:10:44 CPU Time: 0 0: 5:22.04 (322.04 sec) Binary
2602 Time Step No. = 1200 Elapsed Time = 6.282308E+05 days
2603 Date: 02/14/07 Time: 10:10:52 CPU Time: 0 0: 5:30.27 (330.27 sec) Binary
2605 Time Step No. = 1220 Elapsed Time = 6.292016E+05 days
2606 Date: 02/14/07 Time: 10:10:58 CPU Time: 0 0: 5:35.80 (335.80 sec) Binary
2608 Time Step No. = 1240 Elapsed Time = 6.724873E+05 days
2609 Date: 02/14/07 Time: 10:11:02 CPU Time: 0 0: 5:40.05 (340.05 sec) Binary
2611 Time Step No. = 1260 Elapsed Time = 7.595756E+05 days
2612 Date: 02/14/07 Time: 10:11:15 CPU Time: 0 0: 5:52.78 (352.78 sec) Binary
2614 Time Step No. = 1280 Elapsed Time = 7.597863E+05 days
2615 Date: 02/14/07 Time: 10:11:20 CPU Time: 0 0: 5:57.45 (357.45 sec) Binary
2617 Time Step No. = 1300 Elapsed Time = 7.652157E+05 days
2618 Date: 02/14/07 Time: 10:11:24 CPU Time: 0 0: 6: 2.12 (362.12 sec) Binary
2620 Time Step No. = 1320 Elapsed Time = 9.698579E+05 days
2621 Date: 02/14/07 Time: 10:11:33 CPU Time: 0 0: 6:10.51 (370.51 sec) Binary
2623 Time Step No. = 1340 Elapsed Time = 1.034415E+06 days
2624 Date: 02/14/07 Time: 10:11:41 CPU Time: 0 0: 6:18.90 (378.90 sec) Binary
2626 Time Step No. = 1360 Elapsed Time = 1.037401E+06 days
2627 Date: 02/14/07 Time: 10:11:47 CPU Time: 0 0: 6:24.43 (384.43 sec) Binary
2629 Time Step No. = 1380 Elapsed Time = 1.041328E+06 days
2630 Date: 02/14/07 Time: 10:11:51 CPU Time: 0 0: 6:28.69 (388.69 sec) Binary
2632 Time Step No. = 1400 Elapsed Time = 1.098365E+06 days
2633 Date: 02/14/07 Time: 10:11:58 CPU Time: 0 0: 6:36.19 (396.19 sec) Binary
2635 Time Step No. = 1420 Elapsed Time = 1.141983E+06 days
2636 Date: 02/14/07 Time: 10:12:09 CPU Time: 0 0: 6:46.82 (406.82 sec) Binary
2638 Time Step No. = 1440 Elapsed Time = 1.153665E+06 days
2639 Date: 02/14/07 Time: 10:12:14 CPU Time: 0 0: 6:51.69 (411.69 sec) Binary
2641 Time Step No. = 1460 Elapsed Time = 1.335324E+06 days
2642 Date: 02/14/07 Time: 10:12:24 CPU Time: 0 0: 7: 1.26 (421.26 sec) Binary
2644 Time Step No. = 1480 Elapsed Time = 1.341276E+06 days

2645 Date: 02/14/07 Time: 10:12:31 CPU Time: 0 0: 7: 8.51 (428.51 sec) Binary
2647 Time Step No. = 1500 Elapsed Time = 1.507144E+06 days
2648 Date: 02/14/07 Time: 10:12:38 CPU Time: 0 0: 7:15.72 (435.72 sec) Binary
2650 Time Step No. = 1520 Elapsed Time = 1.542314E+06 days
2651 Date: 02/14/07 Time: 10:12:47 CPU Time: 0 0: 7:24.30 (444.30 sec) Binary
2653 Time Step No. = 1540 Elapsed Time = 1.584898E+06 days
2654 Date: 02/14/07 Time: 10:12:59 CPU Time: 0 0: 7:36.54 (456.54 sec) Binary
2656 Time Step No. = 1560 Elapsed Time = 1.593257E+06 days
2657 Date: 02/14/07 Time: 10:13:04 CPU Time: 0 0: 7:41.28 (461.28 sec) Binary
2659 Time Step No. = 1580 Elapsed Time = 1.610328E+06 days
2660 Date: 02/14/07 Time: 10:13:14 CPU Time: 0 0: 7:51.37 (471.37 sec) Binary
2662 Time Step No. = 1600 Elapsed Time = 1.612772E+06 days
2663 Date: 02/14/07 Time: 10:13:18 CPU Time: 0 0: 7:55.37 (475.37 sec) Binary
2665 Time Step No. = 1620 Elapsed Time = 1.644829E+06 days
2666 Date: 02/14/07 Time: 10:13:27 CPU Time: 0 0: 8: 4.04 (484.04 sec) Binary
2668 Time Step No. = 1640 Elapsed Time = 1.647332E+06 days
2669 Date: 02/14/07 Time: 10:13:31 CPU Time: 0 0: 8: 8.12 (488.12 sec) Binary
2671 Time Step No. = 1660 Elapsed Time = 1.676105E+06 days
2672 Date: 02/14/07 Time: 10:13:40 CPU Time: 0 0: 8:17.22 (497.22 sec) Binary
2674 Time Step No. = 1680 Elapsed Time = 1.683726E+06 days
2675 Date: 02/14/07 Time: 10:13:48 CPU Time: 0 0: 8:24.92 (504.92 sec) Binary
2677 Time Step No. = 1700 Elapsed Time = 1.687797E+06 days
2678 Date: 02/14/07 Time: 10:13:55 CPU Time: 0 0: 8:32.14 (512.14 sec) Binary
2680 Time Step No. = 1720 Elapsed Time = 1.698092E+06 days
2681 Date: 02/14/07 Time: 10:14:04 CPU Time: 0 0: 8:41.64 (521.64 sec) Binary
2683 Time Step No. = 1740 Elapsed Time = 1.699011E+06 days
2684 Date: 02/14/07 Time: 10:14:10 CPU Time: 0 0: 8:47.29 (527.29 sec) Binary
2686 Time Step No. = 1760 Elapsed Time = 1.705672E+06 days
2687 Date: 02/14/07 Time: 10:14:17 CPU Time: 0 0: 8:53.97 (533.97 sec) Binary
2689 Time Step No. = 1780 Elapsed Time = 1.706405E+06 days
2690 Date: 02/14/07 Time: 10:14:21 CPU Time: 0 0: 8:58.55 (538.55 sec) Binary
2692 Time Step No. = 1800 Elapsed Time = 1.706652E+06 days
2693 Date: 02/14/07 Time: 10:14:26 CPU Time: 0 0: 9: 2.91 (542.91 sec) Binary
2695 Time Step No. = 1820 Elapsed Time = 1.724983E+06 days
2696 Date: 02/14/07 Time: 10:14:30 CPU Time: 0 0: 9: 7.00 (547.00 sec) Binary
2698 Time Step No. = 1840 Elapsed Time = 1.787596E+06 days
2699 Date: 02/14/07 Time: 10:14:39 CPU Time: 0 0: 9:15.99 (555.99 sec) Binary
2701 Time Step No. = 1860 Elapsed Time = 1.788665E+06 days
2702 Date: 02/14/07 Time: 10:14:42 CPU Time: 0 0: 9:19.13 (559.13 sec) Binary
2704 Time Step No. = 1880 Elapsed Time = 1.881371E+06 days
2705 Date: 02/14/07 Time: 10:14:47 CPU Time: 0 0: 9:23.80 (563.80 sec) Binary
2707 Time Step No. = 1900 Elapsed Time = 1.938667E+06 days
2708 Date: 02/14/07 Time: 10:14:54 CPU Time: 0 0: 9:31.13 (571.13 sec) Binary
2710 Time Step No. = 1920 Elapsed Time = 1.983257E+06 days
2711 Date: 02/14/07 Time: 10:15:02 CPU Time: 0 0: 9:38.72 (578.72 sec) Binary
2713 Time Step No. = 1940 Elapsed Time = 2.079511E+06 days
2714 Date: 02/14/07 Time: 10:15:08 CPU Time: 0 0: 9:45.27 (585.27 sec) Binary
2716 Time Step No. = 1960 Elapsed Time = 2.106284E+06 days
2717 Date: 02/14/07 Time: 10:15:15 CPU Time: 0 0: 9:51.89 (591.89 sec) Binary
2719 Time Step No. = 1980 Elapsed Time = 2.374555E+06 days
2720 Date: 02/14/07 Time: 10:15:19 CPU Time: 0 0: 9:56.08 (596.08 sec) Binary
2722 Time Step No. = 2000 Elapsed Time = 2.774555E+06 days
2723 Date: 02/14/07 Time: 10:15:23 CPU Time: 0 0:10: 0.12 (600.12 sec) Binary
2725 Time Step No. = 2020 Elapsed Time = 3.174555E+06 days
2726 Date: 02/14/07 Time: 10:15:27 CPU Time: 0 0:10: 4.14 (604.14 sec) Binary
2728 Time Step No. = 2040 Elapsed Time = 3.574555E+06 days
2729 Date: 02/14/07 Time: 10:15:31 CPU Time: 0 0:10: 8.18 (608.18 sec) Binary
2732 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
2748 CPU Time (this time step) = 0.27 sec = 0.00007 hr
2749 CPU Time (total for run) = 808.97 sec = 0.22471 hr
2750 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
2748 CPU Time (this time step) = 0.21 sec = 0.00006 hr
2749 CPU Time (total for run) = 608.99 sec = 0.16916 hr
2750 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
3426 Date: 02/14/07 Time: 11:41:40 CPU Time: 0 0:13:28.99 (808.99 sec) ASCII
3428 Time Step No. = 2044 Elapsed Time = 3.652431E+06 days
3429 Date: 02/14/07 Time: 11:41:40 CPU Time: 0 0:13:29.00 (809.00 sec) Binary
3434 *****

```
3435 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3436 * Completed: 02/14/07 at 11:41:40 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
3437 *****
****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
3426 Date: 02/14/07 Time: 10:15:32 CPU Time: 0 0:10: 9.01 ( 609.01 sec) ASCII
3428 Time Step No. = 2044 Elapsed Time = 3.652431E+06 days
3429 Date: 02/14/07 Time: 10:15:32 CPU Time: 0 0:10: 9.02 ( 609.02 sec) Binary
3434 *****
3435 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3436 * Completed: 02/14/07 at 10:15:32 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3437 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 204

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
```

BF2_QB0600_ES40_TEST7_V016_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
 3 ** Begun on: 02/14/07 at 11:32:51 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
 4 *****
****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 3 ** Begun on: 02/14/07 at 10:07:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
 61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_TEST7_V016.INP;2
 62 *****
****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;2
 62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
 66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_CLOSURE.DAT;1
 67 *****
****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_CLOSURE.DAT;1
 67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
 71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
 72 *****
****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
 76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.SUM;1
 77 *****
****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.SUM;1
 77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
 81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.BIN;1
 82 *****
*****
```



```
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
1772 CPU Time (this time step) = 0.26 sec = 0.00007 hr
1773 CPU Time (total for run) = 29.52 sec = 0.00820 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
1772 CPU Time (this time step) = 0.18 sec = 0.00005 hr
1773 CPU Time (total for run) = 21.00 sec = 0.00583 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
2450 Date: 02/14/07 Time: 11:33:21 CPU Time: 0 0: 0:29.55 ( 29.55 sec) ASCII
2452 Time Step No. = 126 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 11:33:21 CPU Time: 0 0: 0:29.55 ( 29.55 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 5.018459E-01 days
2456 Date: 02/14/07 Time: 11:33:25 CPU Time: 0 0: 0:33.51 ( 33.51 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 4.491969E+01 days
2459 Date: 02/14/07 Time: 11:33:30 CPU Time: 0 0: 0:38.88 ( 38.88 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.751377E+03 days
2462 Date: 02/14/07 Time: 11:33:37 CPU Time: 0 0: 0:46.13 ( 46.13 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 1.890365E+04 days
2465 Date: 02/14/07 Time: 11:33:46 CPU Time: 0 0: 0:54.79 ( 54.79 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.653346E+04 days
2468 Date: 02/14/07 Time: 11:33:54 CPU Time: 0 0: 1: 3.12 ( 63.12 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.666151E+04 days
2471 Date: 02/14/07 Time: 11:34:01 CPU Time: 0 0: 1: 9.39 ( 69.39 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.667459E+04 days
2474 Date: 02/14/07 Time: 11:34:04 CPU Time: 0 0: 1:12.23 ( 72.23 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.759885E+04 days
2477 Date: 02/14/07 Time: 11:34:09 CPU Time: 0 0: 1:17.80 ( 77.80 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 7.590037E+04 days
2480 Date: 02/14/07 Time: 11:34:19 CPU Time: 0 0: 1:27.18 ( 87.18 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 8.991400E+04 days
2483 Date: 02/14/07 Time: 11:34:32 CPU Time: 0 0: 1:40.24 ( 100.24 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 9.405817E+04 days
2486 Date: 02/14/07 Time: 11:34:39 CPU Time: 0 0: 1:47.22 ( 107.22 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 1.044295E+05 days
2489 Date: 02/14/07 Time: 11:34:49 CPU Time: 0 0: 1:58.01 ( 118.01 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 1.125125E+05 days
2492 Date: 02/14/07 Time: 11:35:02 CPU Time: 0 0: 2:10.50 ( 130.50 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 1.133195E+05 days
2495 Date: 02/14/07 Time: 11:35:09 CPU Time: 0 0: 2:17.46 ( 137.46 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 1.135730E+05 days
2498 Date: 02/14/07 Time: 11:35:17 CPU Time: 0 0: 2:25.40 ( 145.40 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 1.168842E+05 days
2501 Date: 02/14/07 Time: 11:35:25 CPU Time: 0 0: 2:33.80 ( 153.80 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 1.332167E+05 days
2504 Date: 02/14/07 Time: 11:35:35 CPU Time: 0 0: 2:43.96 ( 163.96 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 1.516402E+05 days
2507 Date: 02/14/07 Time: 11:35:48 CPU Time: 0 0: 2:56.22 ( 176.22 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 1.516853E+05 days
2510 Date: 02/14/07 Time: 11:35:55 CPU Time: 0 0: 3: 3.30 ( 183.30 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 1.529846E+05 days
2513 Date: 02/14/07 Time: 11:36:02 CPU Time: 0 0: 3: 9.92 ( 189.92 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 1.811566E+05 days
2516 Date: 02/14/07 Time: 11:36:10 CPU Time: 0 0: 3:17.95 ( 197.95 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 3.652431E+05 days
2519 Date: 02/14/07 Time: 11:36:25 CPU Time: 0 0: 3:33.66 ( 213.66 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 3.652431E+05 days
2522 Date: 02/14/07 Time: 11:36:29 CPU Time: 0 0: 3:37.27 ( 217.27 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 3.652431E+05 days
```

2525 Date: 02/14/07 Time: 11:36:33 CPU Time: 0 0: 3:40.88 (220.88 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 3.652439E+05 days
2528 Date: 02/14/07 Time: 11:36:36 CPU Time: 0 0: 3:44.58 (224.58 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.652792E+05 days
2531 Date: 02/14/07 Time: 11:36:42 CPU Time: 0 0: 3:50.06 (230.06 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.655581E+05 days
2534 Date: 02/14/07 Time: 11:36:49 CPU Time: 0 0: 3:57.15 (237.15 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 3.665267E+05 days
2537 Date: 02/14/07 Time: 11:36:57 CPU Time: 0 0: 4: 5.03 (245.03 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 3.665372E+05 days
2540 Date: 02/14/07 Time: 11:37:00 CPU Time: 0 0: 4: 7.94 (247.94 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.673325E+05 days
2543 Date: 02/14/07 Time: 11:37:05 CPU Time: 0 0: 4:13.33 (253.33 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.680882E+05 days
2546 Date: 02/14/07 Time: 11:37:13 CPU Time: 0 0: 4:21.20 (261.20 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.755154E+05 days
2549 Date: 02/14/07 Time: 11:37:21 CPU Time: 0 0: 4:29.17 (269.17 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.884150E+05 days
2552 Date: 02/14/07 Time: 11:37:32 CPU Time: 0 0: 4:39.93 (279.93 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 4.398143E+05 days
2555 Date: 02/14/07 Time: 11:37:41 CPU Time: 0 0: 4:49.39 (289.39 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 4.509745E+05 days
2558 Date: 02/14/07 Time: 11:37:47 CPU Time: 0 0: 4:55.58 (295.58 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 6.255136E+05 days
2561 Date: 02/14/07 Time: 11:38:00 CPU Time: 0 0: 5: 8.45 (308.45 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 7.581150E+05 days
2564 Date: 02/14/07 Time: 11:38:12 CPU Time: 0 0: 5:19.96 (319.96 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 7.985275E+05 days
2567 Date: 02/14/07 Time: 11:38:23 CPU Time: 0 0: 5:31.22 (331.22 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.153809E+06 days
2570 Date: 02/14/07 Time: 11:38:33 CPU Time: 0 0: 5:41.26 (341.26 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.553206E+06 days
2573 Date: 02/14/07 Time: 11:38:43 CPU Time: 0 0: 5:51.03 (351.03 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.821876E+06 days
2576 Date: 02/14/07 Time: 11:38:56 CPU Time: 0 0: 6: 3.77 (363.77 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.917947E+06 days
2579 Date: 02/14/07 Time: 11:39:07 CPU Time: 0 0: 6:15.07 (375.07 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.957679E+06 days
2582 Date: 02/14/07 Time: 11:39:15 CPU Time: 0 0: 6:23.38 (383.38 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 2.019375E+06 days
2585 Date: 02/14/07 Time: 11:39:28 CPU Time: 0 0: 6:36.05 (396.05 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 2.057381E+06 days
2588 Date: 02/14/07 Time: 11:39:37 CPU Time: 0 0: 6:45.54 (405.54 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 2.150225E+06 days
2591 Date: 02/14/07 Time: 11:39:52 CPU Time: 0 0: 6:59.93 (419.93 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 2.169380E+06 days
2594 Date: 02/14/07 Time: 11:40:00 CPU Time: 0 0: 7: 8.34 (428.34 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.200608E+06 days
2597 Date: 02/14/07 Time: 11:40:10 CPU Time: 0 0: 7:17.59 (437.59 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 2.279722E+06 days
2600 Date: 02/14/07 Time: 11:40:21 CPU Time: 0 0: 7:28.82 (448.82 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 2.312949E+06 days
2603 Date: 02/14/07 Time: 11:40:31 CPU Time: 0 0: 7:38.94 (458.94 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 2.348360E+06 days
2606 Date: 02/14/07 Time: 11:40:42 CPU Time: 0 0: 7:50.42 (470.42 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 2.361300E+06 days
2609 Date: 02/14/07 Time: 11:40:53 CPU Time: 0 0: 8: 1.20 (481.20 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 2.395228E+06 days
2612 Date: 02/14/07 Time: 11:41:05 CPU Time: 0 0: 8:12.44 (492.44 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 2.420598E+06 days
2615 Date: 02/14/07 Time: 11:41:15 CPU Time: 0 0: 8:23.03 (503.03 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 2.469898E+06 days
2618 Date: 02/14/07 Time: 11:41:24 CPU Time: 0 0: 8:32.20 (512.20 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 2.523884E+06 days
2621 Date: 02/14/07 Time: 11:41:33 CPU Time: 0 0: 8:41.09 (521.09 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 2.597076E+06 days
2624 Date: 02/14/07 Time: 11:41:45 CPU Time: 0 0: 8:52.36 (532.36 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 2.686846E+06 days
2627 Date: 02/14/07 Time: 11:41:53 CPU Time: 0 0: 9: 1.03 (541.03 sec) Binary
2629 Time Step No. = 1300 Elapsed Time = 2.711337E+06 days
2630 Date: 02/14/07 Time: 11:42:04 CPU Time: 0 0: 9:12.05 (552.05 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 2.802768E+06 days
2633 Date: 02/14/07 Time: 11:42:15 CPU Time: 0 0: 9:22.89 (562.89 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 3.010581E+06 days
2636 Date: 02/14/07 Time: 11:42:21 CPU Time: 0 0: 9:28.77 (568.77 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 3.410581E+06 days

2639 Date: 02/14/07 Time: 11:42:27 CPU Time: 0 0: 9:34.36 (574.36 sec) Binary
2642 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
2450 Date: 02/14/07 Time: 10:07:46 CPU Time: 0 0: 0:21.02 (21.02 sec) ASCII
2452 Time Step No. = 126 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:07:46 CPU Time: 0 0: 0:21.02 (21.02 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 5.018459E-01 days
2456 Date: 02/14/07 Time: 10:07:49 CPU Time: 0 0: 0:23.84 (23.84 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 4.491969E+01 days
2459 Date: 02/14/07 Time: 10:07:52 CPU Time: 0 0: 0:27.68 (27.68 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.751377E+03 days
2462 Date: 02/14/07 Time: 10:07:58 CPU Time: 0 0: 0:32.84 (32.84 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 1.890365E+04 days
2465 Date: 02/14/07 Time: 10:08:04 CPU Time: 0 0: 0:38.99 (38.99 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.653346E+04 days
2468 Date: 02/14/07 Time: 10:08:10 CPU Time: 0 0: 0:44.91 (44.91 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.666151E+04 days
2471 Date: 02/14/07 Time: 10:08:14 CPU Time: 0 0: 0:49.40 (49.40 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.667459E+04 days
2474 Date: 02/14/07 Time: 10:08:16 CPU Time: 0 0: 0:51.41 (51.41 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.759885E+04 days
2477 Date: 02/14/07 Time: 10:08:20 CPU Time: 0 0: 0:55.38 (55.38 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 7.590037E+04 days
2480 Date: 02/14/07 Time: 10:08:27 CPU Time: 0 0: 1: 2.06 (62.06 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 8.991400E+04 days
2483 Date: 02/14/07 Time: 10:08:36 CPU Time: 0 0: 1:11.39 (71.39 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 9.405817E+04 days
2486 Date: 02/14/07 Time: 10:08:41 CPU Time: 0 0: 1:16.37 (76.37 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 1.044295E+05 days
2489 Date: 02/14/07 Time: 10:08:49 CPU Time: 0 0: 1:24.07 (84.07 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 1.125125E+05 days
2492 Date: 02/14/07 Time: 10:08:58 CPU Time: 0 0: 1:32.97 (92.97 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 1.133195E+05 days
2495 Date: 02/14/07 Time: 10:09:03 CPU Time: 0 0: 1:37.96 (97.96 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 1.135730E+05 days
2498 Date: 02/14/07 Time: 10:09:09 CPU Time: 0 0: 1:43.65 (103.65 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 1.168842E+05 days
2501 Date: 02/14/07 Time: 10:09:15 CPU Time: 0 0: 1:49.65 (109.65 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 1.332167E+05 days
2504 Date: 02/14/07 Time: 10:09:22 CPU Time: 0 0: 1:56.91 (116.91 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 1.516402E+05 days
2507 Date: 02/14/07 Time: 10:09:31 CPU Time: 0 0: 2: 5.66 (125.66 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 1.516853E+05 days
2510 Date: 02/14/07 Time: 10:09:36 CPU Time: 0 0: 2:10.65 (130.65 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 1.529846E+05 days
2513 Date: 02/14/07 Time: 10:09:41 CPU Time: 0 0: 2:15.39 (135.39 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 1.811566E+05 days
2516 Date: 02/14/07 Time: 10:09:46 CPU Time: 0 0: 2:21.13 (141.13 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 3.652431E+05 days
2519 Date: 02/14/07 Time: 10:09:58 CPU Time: 0 0: 2:32.36 (152.36 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 3.652431E+05 days
2522 Date: 02/14/07 Time: 10:10:00 CPU Time: 0 0: 2:34.95 (154.95 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 3.652431E+05 days
2525 Date: 02/14/07 Time: 10:10:03 CPU Time: 0 0: 2:37.54 (157.54 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 3.652439E+05 days
2528 Date: 02/14/07 Time: 10:10:06 CPU Time: 0 0: 2:40.20 (160.20 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.652792E+05 days
2531 Date: 02/14/07 Time: 10:10:10 CPU Time: 0 0: 2:44.42 (164.42 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.655581E+05 days
2534 Date: 02/14/07 Time: 10:10:15 CPU Time: 0 0: 2:49.86 (169.86 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 3.665267E+05 days
2537 Date: 02/14/07 Time: 10:10:21 CPU Time: 0 0: 2:55.92 (175.92 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 3.665372E+05 days
2540 Date: 02/14/07 Time: 10:10:24 CPU Time: 0 0: 2:58.18 (178.18 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.673325E+05 days
2543 Date: 02/14/07 Time: 10:10:28 CPU Time: 0 0: 3: 2.35 (182.35 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.680882E+05 days
2546 Date: 02/14/07 Time: 10:10:34 CPU Time: 0 0: 3: 8.39 (188.39 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.755154E+05 days
2549 Date: 02/14/07 Time: 10:10:40 CPU Time: 0 0: 3:14.51 (194.51 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.884150E+05 days
2552 Date: 02/14/07 Time: 10:10:48 CPU Time: 0 0: 3:22.79 (202.79 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 4.398143E+05 days
2555 Date: 02/14/07 Time: 10:10:56 CPU Time: 0 0: 3:30.06 (210.06 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 4.509745E+05 days

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2558 Date: 02/14/07 Time: 10:11:00 CPU Time: 0 0: 3:34.82 ( 214.82 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 6.255136E+05 days
2561 Date: 02/14/07 Time: 10:11:10 CPU Time: 0 0: 3:44.66 ( 224.66 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 7.581150E+05 days
2564 Date: 02/14/07 Time: 10:11:19 CPU Time: 0 0: 3:53.47 ( 233.47 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 7.985275E+05 days
2567 Date: 02/14/07 Time: 10:11:28 CPU Time: 0 0: 4: 2.08 ( 242.08 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.153809E+06 days
2570 Date: 02/14/07 Time: 10:11:35 CPU Time: 0 0: 4: 9.73 ( 249.73 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.553206E+06 days
2573 Date: 02/14/07 Time: 10:11:43 CPU Time: 0 0: 4:17.36 ( 257.36 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.821876E+06 days
2576 Date: 02/14/07 Time: 10:11:53 CPU Time: 0 0: 4:27.18 ( 267.18 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.917947E+06 days
2579 Date: 02/14/07 Time: 10:12:02 CPU Time: 0 0: 4:36.04 ( 276.04 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.957679E+06 days
2582 Date: 02/14/07 Time: 10:12:08 CPU Time: 0 0: 4:42.58 ( 282.58 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 2.019375E+06 days
2585 Date: 02/14/07 Time: 10:12:18 CPU Time: 0 0: 4:52.52 ( 292.52 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 2.057381E+06 days
2588 Date: 02/14/07 Time: 10:12:26 CPU Time: 0 0: 4:59.94 ( 299.94 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 2.150225E+06 days
2591 Date: 02/14/07 Time: 10:12:37 CPU Time: 0 0: 5:11.16 ( 311.16 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 2.169380E+06 days
2594 Date: 02/14/07 Time: 10:12:44 CPU Time: 0 0: 5:17.74 ( 317.74 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.200608E+06 days
2597 Date: 02/14/07 Time: 10:12:51 CPU Time: 0 0: 5:25.01 ( 325.01 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 2.279722E+06 days
2600 Date: 02/14/07 Time: 10:13:00 CPU Time: 0 0: 5:33.82 ( 333.82 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 2.312949E+06 days
2603 Date: 02/14/07 Time: 10:13:08 CPU Time: 0 0: 5:41.72 ( 341.72 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 2.348360E+06 days
2606 Date: 02/14/07 Time: 10:13:17 CPU Time: 0 0: 5:50.60 ( 350.60 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 2.361300E+06 days
2609 Date: 02/14/07 Time: 10:13:25 CPU Time: 0 0: 5:58.80 ( 358.80 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 2.395228E+06 days
2612 Date: 02/14/07 Time: 10:13:33 CPU Time: 0 0: 6: 7.41 ( 367.41 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 2.420598E+06 days
2615 Date: 02/14/07 Time: 10:13:41 CPU Time: 0 0: 6:15.34 ( 375.34 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 2.469898E+06 days
2618 Date: 02/14/07 Time: 10:13:48 CPU Time: 0 0: 6:22.23 ( 382.23 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 2.523884E+06 days
2621 Date: 02/14/07 Time: 10:13:55 CPU Time: 0 0: 6:28.91 ( 388.91 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 2.597076E+06 days
2624 Date: 02/14/07 Time: 10:14:03 CPU Time: 0 0: 6:37.21 ( 397.21 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 2.686846E+06 days
2627 Date: 02/14/07 Time: 10:14:09 CPU Time: 0 0: 6:43.28 ( 403.28 sec) Binary
2629 Time Step No. = 1300 Elapsed Time = 2.711337E+06 days
2630 Date: 02/14/07 Time: 10:14:17 CPU Time: 0 0: 6:51.12 ( 411.12 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 2.802768E+06 days
2633 Date: 02/14/07 Time: 10:14:25 CPU Time: 0 0: 6:58.83 ( 418.83 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 3.010581E+06 days
2636 Date: 02/14/07 Time: 10:14:29 CPU Time: 0 0: 7: 3.01 ( 423.01 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 3.410581E+06 days
2639 Date: 02/14/07 Time: 10:14:33 CPU Time: 0 0: 7: 6.99 ( 426.99 sec) Binary
2642 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
2658 CPU Time (this time step) = 0.19 sec = 0.00005 hr
2659 CPU Time (total for run) = 578.56 sec = 0.16071 hr
2660 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
2658 CPU Time (this time step) = 0.13 sec = 0.00004 hr
2659 CPU Time (total for run) = 430.01 sec = 0.11945 hr
2660 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
3336 Date: 02/14/07 Time: 11:42:31 CPU Time: 0 0: 9:38.57 ( 578.57 sec) ASCII
3338 Time Step No. = 1373 Elapsed Time = 3.652431E+06 days
3339 Date: 02/14/07 Time: 11:42:31 CPU Time: 0 0: 9:38.58 ( 578.58 sec) Binary
3344 *****
3345 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3346 * Completed: 02/14/07 at 11:42:31 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
```

```
3347 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
3336 Date: 02/14/07 Time: 10:14:36 CPU Time: 0 0: 7:10.01 ( 430.01 sec) ASCII
3338 Time Step No. = 1373 Elapsed Time = 3.652431E+06 days
3339 Date: 02/14/07 Time: 10:14:36 CPU Time: 0 0: 7:10.01 ( 430.01 sec) Binary
3344 *****
3345 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3346 * Completed: 02/14/07 at 10:14:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3347 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 144

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
```

BF2_QB0600_ES40_TEST7_V017_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
3 ** Begun on: 02/14/07 at 11:41:23 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
3 ** Begun on: 02/14/07 at 10:14:48 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_TEST7_V017.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.BIN;1
```

```
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
1772 CPU Time (this time step) = 0.18 sec = 0.00005 hr
1773 CPU Time (total for run) = 31.17 sec = 0.00866 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 23.66 sec = 0.00657 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
2450 Date: 02/14/07 Time: 11:41:54 CPU Time: 0 0: 0:31.20 ( 31.20 sec) ASCII
2452 Time Step No. = 127 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 11:41:54 CPU Time: 0 0: 0:31.20 ( 31.20 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 4.081566E-01 days
2456 Date: 02/14/07 Time: 11:41:58 CPU Time: 0 0: 0:35.01 ( 35.01 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 3.566025E+01 days
2459 Date: 02/14/07 Time: 11:42:03 CPU Time: 0 0: 0:40.09 ( 40.09 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.805959E+03 days
2462 Date: 02/14/07 Time: 11:42:10 CPU Time: 0 0: 0:46.93 ( 46.93 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 1.071373E+04 days
2465 Date: 02/14/07 Time: 11:42:20 CPU Time: 0 0: 0:56.73 ( 56.73 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 2.383842E+04 days
2468 Date: 02/14/07 Time: 11:42:30 CPU Time: 0 0: 1: 6.98 ( 66.98 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 2.798180E+04 days
2471 Date: 02/14/07 Time: 11:42:46 CPU Time: 0 0: 1:22.26 ( 82.26 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 2.847338E+04 days
2474 Date: 02/14/07 Time: 11:42:53 CPU Time: 0 0: 1:29.58 ( 89.58 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.652452E+04 days
2477 Date: 02/14/07 Time: 11:43:00 CPU Time: 0 0: 1:36.61 ( 96.61 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.656711E+04 days
2480 Date: 02/14/07 Time: 11:43:07 CPU Time: 0 0: 1:43.04 ( 103.04 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.666399E+04 days
2483 Date: 02/14/07 Time: 11:43:12 CPU Time: 0 0: 1:48.19 ( 108.19 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 3.668035E+04 days
2486 Date: 02/14/07 Time: 11:43:15 CPU Time: 0 0: 1:51.05 ( 111.05 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.804994E+04 days
2489 Date: 02/14/07 Time: 11:43:20 CPU Time: 0 0: 1:56.65 ( 116.65 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 4.830166E+04 days
2492 Date: 02/14/07 Time: 11:43:31 CPU Time: 0 0: 2: 7.89 ( 127.89 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 5.127831E+04 days
2495 Date: 02/14/07 Time: 11:43:46 CPU Time: 0 0: 2:22.85 ( 142.85 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 5.134701E+04 days
2498 Date: 02/14/07 Time: 11:43:51 CPU Time: 0 0: 2:27.50 ( 147.50 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 5.218497E+04 days
2501 Date: 02/14/07 Time: 11:44:00 CPU Time: 0 0: 2:36.68 ( 156.68 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 6.083942E+04 days
2504 Date: 02/14/07 Time: 11:44:08 CPU Time: 0 0: 2:44.07 ( 164.07 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 7.130398E+04 days
2507 Date: 02/14/07 Time: 11:44:19 CPU Time: 0 0: 2:55.80 ( 175.80 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 7.759660E+04 days
2510 Date: 02/14/07 Time: 11:44:28 CPU Time: 0 0: 3: 4.47 ( 184.47 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 7.800566E+04 days
2513 Date: 02/14/07 Time: 11:44:38 CPU Time: 0 0: 3:14.39 ( 194.39 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 7.817753E+04 days
2516 Date: 02/14/07 Time: 11:44:44 CPU Time: 0 0: 3:20.02 ( 200.02 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 8.514452E+04 days
2519 Date: 02/14/07 Time: 11:44:51 CPU Time: 0 0: 3:27.10 ( 207.10 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 1.017547E+05 days
2522 Date: 02/14/07 Time: 11:45:01 CPU Time: 0 0: 3:37.23 ( 217.23 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 1.389481E+05 days
2525 Date: 02/14/07 Time: 11:45:15 CPU Time: 0 0: 3:51.35 ( 231.35 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 1.423530E+05 days
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2528 Date: 02/14/07 Time: 11:45:24 CPU Time: 0 0: 4: 0.11 (240.11 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 1.864304E+05 days
2531 Date: 02/14/07 Time: 11:45:32 CPU Time: 0 0: 4: 8.03 (248.03 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 1.882230E+05 days
2534 Date: 02/14/07 Time: 11:45:42 CPU Time: 0 0: 4:18.27 (258.27 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 1.986077E+05 days
2537 Date: 02/14/07 Time: 11:45:50 CPU Time: 0 0: 4:26.20 (266.20 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 2.830917E+05 days
2540 Date: 02/14/07 Time: 11:46:05 CPU Time: 0 0: 4:40.75 (280.75 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.158487E+05 days
2543 Date: 02/14/07 Time: 11:46:13 CPU Time: 0 0: 4:48.99 (288.99 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.652487E+05 days
2546 Date: 02/14/07 Time: 11:46:21 CPU Time: 0 0: 4:57.22 (297.22 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.653477E+05 days
2549 Date: 02/14/07 Time: 11:46:28 CPU Time: 0 0: 5: 3.51 (303.51 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.666426E+05 days
2552 Date: 02/14/07 Time: 11:46:34 CPU Time: 0 0: 5: 9.68 (309.68 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.666557E+05 days
2555 Date: 02/14/07 Time: 11:46:36 CPU Time: 0 0: 5:11.75 (311.75 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 3.676756E+05 days
2558 Date: 02/14/07 Time: 11:46:41 CPU Time: 0 0: 5:16.95 (316.95 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 4.168857E+05 days
2561 Date: 02/14/07 Time: 11:46:50 CPU Time: 0 0: 5:25.72 (325.72 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 4.834104E+05 days
2564 Date: 02/14/07 Time: 11:47:03 CPU Time: 0 0: 5:38.73 (338.73 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 6.250995E+05 days
2567 Date: 02/14/07 Time: 11:47:12 CPU Time: 0 0: 5:47.90 (347.90 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 6.472604E+05 days
2570 Date: 02/14/07 Time: 11:47:25 CPU Time: 0 0: 6: 0.20 (360.20 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 8.509338E+05 days
2573 Date: 02/14/07 Time: 11:47:36 CPU Time: 0 0: 6:11.13 (371.13 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 8.666179E+05 days
2576 Date: 02/14/07 Time: 11:47:45 CPU Time: 0 0: 6:20.02 (380.02 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 8.980547E+05 days
2579 Date: 02/14/07 Time: 11:47:58 CPU Time: 0 0: 6:33.54 (393.54 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 9.084805E+05 days
2582 Date: 02/14/07 Time: 11:48:09 CPU Time: 0 0: 6:44.24 (404.24 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 9.303573E+05 days
2585 Date: 02/14/07 Time: 11:48:23 CPU Time: 0 0: 6:57.46 (417.46 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 9.354913E+05 days
2588 Date: 02/14/07 Time: 11:48:31 CPU Time: 0 0: 7: 5.77 (425.77 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 9.627726E+05 days
2591 Date: 02/14/07 Time: 11:48:42 CPU Time: 0 0: 7:16.77 (436.77 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 9.865575E+05 days
2594 Date: 02/14/07 Time: 11:48:57 CPU Time: 0 0: 7:31.03 (451.03 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 1.010557E+06 days
2597 Date: 02/14/07 Time: 11:49:05 CPU Time: 0 0: 7:39.03 (459.03 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 1.037354E+06 days
2600 Date: 02/14/07 Time: 11:49:17 CPU Time: 0 0: 7:51.31 (471.31 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 1.044114E+06 days
2603 Date: 02/14/07 Time: 11:49:27 CPU Time: 0 0: 8: 0.98 (480.98 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 1.051085E+06 days
2606 Date: 02/14/07 Time: 11:49:38 CPU Time: 0 0: 8:12.20 (492.20 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 1.056924E+06 days
2609 Date: 02/14/07 Time: 11:49:49 CPU Time: 0 0: 8:23.17 (503.17 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 1.069927E+06 days
2612 Date: 02/14/07 Time: 11:49:59 CPU Time: 0 0: 8:33.36 (513.36 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 1.074785E+06 days
2615 Date: 02/14/07 Time: 11:50:12 CPU Time: 0 0: 8:46.32 (526.32 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 1.098676E+06 days
2618 Date: 02/14/07 Time: 11:50:24 CPU Time: 0 0: 8:57.88 (537.88 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 1.104263E+06 days
2621 Date: 02/14/07 Time: 11:50:29 CPU Time: 0 0: 9: 3.50 (543.50 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 1.154509E+06 days
2624 Date: 02/14/07 Time: 11:50:39 CPU Time: 0 0: 9:13.32 (553.32 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 1.203455E+06 days
2627 Date: 02/14/07 Time: 11:50:49 CPU Time: 0 0: 9:23.16 (563.16 sec) Binary
2629 Time Step No. = 1300 Elapsed Time = 1.359187E+06 days
2630 Date: 02/14/07 Time: 11:50:55 CPU Time: 0 0: 9:28.69 (568.69 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 1.597020E+06 days
2633 Date: 02/14/07 Time: 11:51:07 CPU Time: 0 0: 9:40.65 (580.65 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 1.943096E+06 days
2636 Date: 02/14/07 Time: 11:51:13 CPU Time: 0 0: 9:46.27 (586.27 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 2.343096E+06 days
2639 Date: 02/14/07 Time: 11:51:18 CPU Time: 0 0: 9:51.87 (591.87 sec) Binary
2641 Time Step No. = 1380 Elapsed Time = 2.743096E+06 days

2642 Date: 02/14/07 Time: 11:51:24 CPU Time: 0 0: 9:57.55 (597.55 sec) Binary
2644 Time Step No. = 1400 Elapsed Time = 3.143096E+06 days
2645 Date: 02/14/07 Time: 11:51:30 CPU Time: 0 0:10: 3.01 (603.01 sec) Binary
2647 Time Step No. = 1420 Elapsed Time = 3.543096E+06 days
2648 Date: 02/14/07 Time: 11:51:35 CPU Time: 0 0:10: 8.47 (608.47 sec) Binary
2651 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
2450 Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:23.68 (23.68 sec) ASCII
2452 Time Step No. = 127 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:23.68 (23.68 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 4.081566E-01 days
2456 Date: 02/14/07 Time: 10:15:15 CPU Time: 0 0: 0:26.45 (26.45 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 3.566025E+01 days
2459 Date: 02/14/07 Time: 10:15:19 CPU Time: 0 0: 0:30.15 (30.15 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.805959E+03 days
2462 Date: 02/14/07 Time: 10:15:24 CPU Time: 0 0: 0:35.13 (35.13 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 1.071373E+04 days
2465 Date: 02/14/07 Time: 10:15:31 CPU Time: 0 0: 0:42.17 (42.17 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 2.383842E+04 days
2468 Date: 02/14/07 Time: 10:15:38 CPU Time: 0 0: 0:49.61 (49.61 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 2.798180E+04 days
2471 Date: 02/14/07 Time: 10:15:50 CPU Time: 0 0: 1: 0.82 (60.82 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 2.847338E+04 days
2474 Date: 02/14/07 Time: 10:15:55 CPU Time: 0 0: 1: 6.12 (66.12 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.652452E+04 days
2477 Date: 02/14/07 Time: 10:16:00 CPU Time: 0 0: 1:11.21 (71.21 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.656711E+04 days
2480 Date: 02/14/07 Time: 10:16:05 CPU Time: 0 0: 1:15.84 (75.84 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.666399E+04 days
2483 Date: 02/14/07 Time: 10:16:09 CPU Time: 0 0: 1:19.58 (79.58 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 3.668035E+04 days
2486 Date: 02/14/07 Time: 10:16:11 CPU Time: 0 0: 1:21.65 (81.65 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.804994E+04 days
2489 Date: 02/14/07 Time: 10:16:15 CPU Time: 0 0: 1:25.72 (85.72 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 4.830166E+04 days
2492 Date: 02/14/07 Time: 10:16:23 CPU Time: 0 0: 1:33.84 (93.84 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 5.127831E+04 days
2495 Date: 02/14/07 Time: 10:16:34 CPU Time: 0 0: 1:44.68 (104.68 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 5.134701E+04 days
2498 Date: 02/14/07 Time: 10:16:37 CPU Time: 0 0: 1:48.03 (108.03 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 5.218497E+04 days
2501 Date: 02/14/07 Time: 10:16:44 CPU Time: 0 0: 1:54.68 (114.68 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 6.083942E+04 days
2504 Date: 02/14/07 Time: 10:16:49 CPU Time: 0 0: 2: 0.04 (120.04 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 7.130398E+04 days
2507 Date: 02/14/07 Time: 10:16:58 CPU Time: 0 0: 2: 8.50 (128.50 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 7.759660E+04 days
2510 Date: 02/14/07 Time: 10:17:04 CPU Time: 0 0: 2:14.76 (134.76 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 7.800566E+04 days
2513 Date: 02/14/07 Time: 10:17:11 CPU Time: 0 0: 2:21.94 (141.94 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 7.817753E+04 days
2516 Date: 02/14/07 Time: 10:17:15 CPU Time: 0 0: 2:26.04 (146.04 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 8.514452E+04 days
2519 Date: 02/14/07 Time: 10:17:20 CPU Time: 0 0: 2:31.03 (151.03 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 1.017547E+05 days
2522 Date: 02/14/07 Time: 10:17:27 CPU Time: 0 0: 2:38.33 (158.33 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 1.389481E+05 days
2525 Date: 02/14/07 Time: 10:17:38 CPU Time: 0 0: 2:48.53 (168.53 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 1.423530E+05 days
2528 Date: 02/14/07 Time: 10:17:44 CPU Time: 0 0: 2:54.87 (174.87 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 1.864304E+05 days
2531 Date: 02/14/07 Time: 10:17:50 CPU Time: 0 0: 3: 0.63 (180.63 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 1.882230E+05 days
2534 Date: 02/14/07 Time: 10:17:57 CPU Time: 0 0: 3: 8.00 (188.00 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 1.986077E+05 days
2537 Date: 02/14/07 Time: 10:18:03 CPU Time: 0 0: 3:13.70 (193.70 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 2.930917E+05 days
2540 Date: 02/14/07 Time: 10:18:14 CPU Time: 0 0: 3:24.27 (204.27 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.158487E+05 days
2543 Date: 02/14/07 Time: 10:18:20 CPU Time: 0 0: 3:30.22 (210.22 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.652487E+05 days
2546 Date: 02/14/07 Time: 10:18:25 CPU Time: 0 0: 3:36.16 (216.16 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.653477E+05 days
2549 Date: 02/14/07 Time: 10:18:30 CPU Time: 0 0: 3:40.60 (220.60 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.666426E+05 days


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2552 Date: 02/14/07 Time: 10:18:34 CPU Time: 0 0: 3:45.07 ( 225.07 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.666557E+05 days
2555 Date: 02/14/07 Time: 10:18:36 CPU Time: 0 0: 3:46.57 ( 226.57 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 3.676756E+05 days
2558 Date: 02/14/07 Time: 10:18:40 CPU Time: 0 0: 3:50.33 ( 230.33 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 4.168857E+05 days
2561 Date: 02/14/07 Time: 10:18:46 CPU Time: 0 0: 3:56.66 ( 236.66 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 4.834104E+05 days
2564 Date: 02/14/07 Time: 10:18:56 CPU Time: 0 0: 4: 6.11 ( 246.11 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 6.250995E+05 days
2567 Date: 02/14/07 Time: 10:19:02 CPU Time: 0 0: 4:12.76 ( 252.76 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 6.472604E+05 days
2570 Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0: 4:21.71 ( 261.71 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 8.509338E+05 days
2573 Date: 02/14/07 Time: 10:19:19 CPU Time: 0 0: 4:29.60 ( 269.60 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 8.666179E+05 days
2576 Date: 02/14/07 Time: 10:19:26 CPU Time: 0 0: 4:36.08 ( 276.08 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 8.980547E+05 days
2579 Date: 02/14/07 Time: 10:19:35 CPU Time: 0 0: 4:45.79 ( 285.79 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 9.084805E+05 days
2582 Date: 02/14/07 Time: 10:19:43 CPU Time: 0 0: 4:53.57 ( 293.57 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 9.303573E+05 days
2585 Date: 02/14/07 Time: 10:19:53 CPU Time: 0 0: 5: 3.15 ( 303.15 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 9.354913E+05 days
2588 Date: 02/14/07 Time: 10:19:59 CPU Time: 0 0: 5: 9.18 ( 309.18 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 9.627726E+05 days
2591 Date: 02/14/07 Time: 10:20:07 CPU Time: 0 0: 5:17.07 ( 317.07 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 9.865575E+05 days
2594 Date: 02/14/07 Time: 10:20:17 CPU Time: 0 0: 5:27.37 ( 327.37 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 1.010557E+06 days
2597 Date: 02/14/07 Time: 10:20:23 CPU Time: 0 0: 5:33.15 ( 333.15 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 1.037354E+06 days
2600 Date: 02/14/07 Time: 10:20:32 CPU Time: 0 0: 5:41.97 ( 341.97 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 1.044114E+06 days
2603 Date: 02/14/07 Time: 10:20:39 CPU Time: 0 0: 5:49.44 ( 349.44 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 1.051085E+06 days
2606 Date: 02/14/07 Time: 10:20:48 CPU Time: 0 0: 5:58.38 ( 358.38 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 1.056924E+06 days
2609 Date: 02/14/07 Time: 10:20:57 CPU Time: 0 0: 6: 6.96 ( 366.96 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 1.069927E+06 days
2612 Date: 02/14/07 Time: 10:21:05 CPU Time: 0 0: 6:15.06 ( 375.06 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 1.074785E+06 days
2615 Date: 02/14/07 Time: 10:21:15 CPU Time: 0 0: 6:25.12 ( 385.12 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 1.098676E+06 days
2618 Date: 02/14/07 Time: 10:21:24 CPU Time: 0 0: 6:34.07 ( 394.07 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 1.104263E+06 days
2621 Date: 02/14/07 Time: 10:21:29 CPU Time: 0 0: 6:38.45 ( 398.45 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 1.154509E+06 days
2624 Date: 02/14/07 Time: 10:21:36 CPU Time: 0 0: 6:46.09 ( 406.09 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 1.203455E+06 days
2627 Date: 02/14/07 Time: 10:21:44 CPU Time: 0 0: 6:53.55 ( 413.55 sec) Binary
2629 Time Step No. = 1300 Elapsed Time = 1.359187E+06 days
2630 Date: 02/14/07 Time: 10:21:48 CPU Time: 0 0: 6:57.51 ( 417.51 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 1.597020E+06 days
2633 Date: 02/14/07 Time: 10:21:56 CPU Time: 0 0: 7: 6.14 ( 426.14 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 1.943096E+06 days
2636 Date: 02/14/07 Time: 10:22:00 CPU Time: 0 0: 7:10.23 ( 430.23 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 2.343096E+06 days
2639 Date: 02/14/07 Time: 10:22:05 CPU Time: 0 0: 7:14.31 ( 434.31 sec) Binary
2641 Time Step No. = 1380 Elapsed Time = 2.743096E+06 days
2642 Date: 02/14/07 Time: 10:22:09 CPU Time: 0 0: 7:18.38 ( 438.38 sec) Binary
2644 Time Step No. = 1400 Elapsed Time = 3.143096E+06 days
2645 Date: 02/14/07 Time: 10:22:13 CPU Time: 0 0: 7:22.33 ( 442.33 sec) Binary
2647 Time Step No. = 1420 Elapsed Time = 3.543096E+06 days
2648 Date: 02/14/07 Time: 10:22:17 CPU Time: 0 0: 7:26.28 ( 446.28 sec) Binary
2651 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
2667 CPU Time (this time step) = 0.28 sec = 0.00008 hr
2668 CPU Time (total for run) = 610.11 sec = 0.16947 hr
2669 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
2667 CPU Time (this time step) = 0.19 sec = 0.00005 hr
2668 CPU Time (total for run) = 447.46 sec = 0.12429 hr
```

```
2669 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
3345 Date: 02/14/07 Time: 11:51:37 CPU Time: 0 0:10:10.15 ( 610.15 sec) ASCII
3347 Time Step No. = 1426 Elapsed Time = 3.652431E+06 days
3348 Date: 02/14/07 Time: 11:51:37 CPU Time: 0 0:10:10.15 ( 610.15 sec) Binary
3353 *****
3354 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3355 * Completed: 02/14/07 at 11:51:37 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
3356 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
3345 Date: 02/14/07 Time: 10:22:18 CPU Time: 0 0: 7:27.48 ( 447.48 sec) ASCII
3347 Time Step No. = 1426 Elapsed Time = 3.652431E+06 days
3348 Date: 02/14/07 Time: 10:22:18 CPU Time: 0 0: 7:27.48 ( 447.48 sec) Binary
3353 *****
3354 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3355 * Completed: 02/14/07 at 10:22:18 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3356 *****
```

Number of difference sections found: 11
Number of difference records found: 150

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
```

BF2_QB0600_ES40_TEST7_V018_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
3 ** Begun on: 02/14/07 at 11:41:48 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
4 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
3 ** Begun on: 02/14/07 at 10:14:52 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_TEST7_V018.INP;2
62 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;2
62 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_CLOSURE.DAT;1
67 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_CLOSURE.DAT;1
67 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
72 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
72 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.SUM;1
77 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
```

```
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
1772 CPU Time (this time step) = 0.17 sec = 0.00005 hr
1773 CPU Time (total for run) = 27.54 sec = 0.00765 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 19.84 sec = 0.00551 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
2450 Date: 02/14/07 Time: 11:42:15 CPU Time: 0 0: 0:27.57 ( 27.57 sec) ASCII
2452 Time Step No. = 126 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 11:42:15 CPU Time: 0 0: 0:27.57 ( 27.57 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 1.852005E-01 days
2456 Date: 02/14/07 Time: 11:42:19 CPU Time: 0 0: 0:31.35 ( 31.35 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 1.676048E+01 days
2459 Date: 02/14/07 Time: 11:42:24 CPU Time: 0 0: 0:36.31 ( 36.31 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 9.685600E+02 days
2462 Date: 02/14/07 Time: 11:42:31 CPU Time: 0 0: 0:43.34 ( 43.34 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 1.090054E+04 days
2465 Date: 02/14/07 Time: 11:42:40 CPU Time: 0 0: 0:52.40 ( 52.40 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.542607E+04 days
2468 Date: 02/14/07 Time: 11:42:53 CPU Time: 0 0: 1: 5.50 ( 65.50 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.655532E+04 days
2471 Date: 02/14/07 Time: 11:43:02 CPU Time: 0 0: 1:14.44 ( 74.44 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.667264E+04 days
2474 Date: 02/14/07 Time: 11:43:05 CPU Time: 0 0: 1:17.54 ( 77.54 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.673502E+04 days
2477 Date: 02/14/07 Time: 11:43:09 CPU Time: 0 0: 1:21.44 ( 81.44 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.849232E+04 days
2480 Date: 02/14/07 Time: 11:43:16 CPU Time: 0 0: 1:28.17 ( 88.17 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 4.353267E+04 days
2483 Date: 02/14/07 Time: 11:43:28 CPU Time: 0 0: 1:40.52 ( 100.52 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 8.646290E+04 days
2486 Date: 02/14/07 Time: 11:43:38 CPU Time: 0 0: 1:50.20 ( 110.20 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 1.956099E+05 days
2489 Date: 02/14/07 Time: 11:43:54 CPU Time: 0 0: 2: 6.10 ( 126.10 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 2.537997E+05 days
2492 Date: 02/14/07 Time: 11:44:06 CPU Time: 0 0: 2:18.62 ( 138.62 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.654102E+05 days
2495 Date: 02/14/07 Time: 11:44:15 CPU Time: 0 0: 2:27.12 ( 147.12 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 3.660393E+05 days
2498 Date: 02/14/07 Time: 11:44:22 CPU Time: 0 0: 2:34.30 ( 154.30 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.665141E+05 days
2501 Date: 02/14/07 Time: 11:44:25 CPU Time: 0 0: 2:36.95 ( 156.95 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 3.666116E+05 days
2504 Date: 02/14/07 Time: 11:44:28 CPU Time: 0 0: 2:39.77 ( 159.77 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 3.698164E+05 days
2507 Date: 02/14/07 Time: 11:44:34 CPU Time: 0 0: 2:46.06 ( 166.06 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 3.836378E+05 days
2510 Date: 02/14/07 Time: 11:44:44 CPU Time: 0 0: 2:55.96 ( 175.96 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 4.773464E+05 days
```

2513 Date: 02/14/07 Time: 11:44:57 CPU Time: 0 0: 3: 8.66 (188.66 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 4.805632E+05 days
2516 Date: 02/14/07 Time: 11:45:05 CPU Time: 0 0: 3:16.70 (196.70 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 6.090050E+05 days
2519 Date: 02/14/07 Time: 11:45:15 CPU Time: 0 0: 3:26.69 (206.69 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 6.642533E+05 days
2522 Date: 02/14/07 Time: 11:45:27 CPU Time: 0 0: 3:38.53 (218.53 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 6.660298E+05 days
2525 Date: 02/14/07 Time: 11:45:38 CPU Time: 0 0: 3:49.63 (229.63 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 6.750577E+05 days
2528 Date: 02/14/07 Time: 11:45:46 CPU Time: 0 0: 3:58.08 (238.08 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 8.117950E+05 days
2531 Date: 02/14/07 Time: 11:45:55 CPU Time: 0 0: 4: 6.89 (246.89 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 8.733977E+05 days
2534 Date: 02/14/07 Time: 11:46:06 CPU Time: 0 0: 4:18.07 (258.07 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 8.853639E+05 days
2537 Date: 02/14/07 Time: 11:46:16 CPU Time: 0 0: 4:27.48 (267.48 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 8.877123E+05 days
2540 Date: 02/14/07 Time: 11:46:20 CPU Time: 0 0: 4:31.58 (271.58 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 8.965246E+05 days
2543 Date: 02/14/07 Time: 11:46:30 CPU Time: 0 0: 4:41.47 (281.47 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 9.678193E+05 days
2546 Date: 02/14/07 Time: 11:46:39 CPU Time: 0 0: 4:50.26 (290.26 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 9.824276E+05 days
2549 Date: 02/14/07 Time: 11:46:46 CPU Time: 0 0: 4:58.16 (298.16 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 1.079404E+06 days
2552 Date: 02/14/07 Time: 11:46:58 CPU Time: 0 0: 5: 9.52 (309.52 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 1.220016E+06 days
2555 Date: 02/14/07 Time: 11:47:10 CPU Time: 0 0: 5:21.50 (321.50 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 1.358888E+06 days
2558 Date: 02/14/07 Time: 11:47:21 CPU Time: 0 0: 5:32.43 (332.43 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 1.367185E+06 days
2561 Date: 02/14/07 Time: 11:47:29 CPU Time: 0 0: 5:41.06 (341.06 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 1.592454E+06 days
2564 Date: 02/14/07 Time: 11:47:39 CPU Time: 0 0: 5:50.14 (350.14 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 1.607973E+06 days
2567 Date: 02/14/07 Time: 11:47:52 CPU Time: 0 0: 6: 3.18 (363.18 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.611408E+06 days
2570 Date: 02/14/07 Time: 11:47:59 CPU Time: 0 0: 6:10.39 (370.39 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.629376E+06 days
2573 Date: 02/14/07 Time: 11:48:08 CPU Time: 0 0: 6:18.84 (378.84 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.713757E+06 days
2576 Date: 02/14/07 Time: 11:48:15 CPU Time: 0 0: 6:25.59 (385.59 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 2.091414E+06 days
2579 Date: 02/14/07 Time: 11:48:24 CPU Time: 0 0: 6:35.43 (395.43 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 2.491414E+06 days
2582 Date: 02/14/07 Time: 11:48:32 CPU Time: 0 0: 6:42.63 (402.63 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 2.635578E+06 days
2585 Date: 02/14/07 Time: 11:48:44 CPU Time: 0 0: 6:55.24 (415.24 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 2.775082E+06 days
2588 Date: 02/14/07 Time: 11:48:52 CPU Time: 0 0: 7: 3.05 (423.05 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 3.175082E+06 days
2591 Date: 02/14/07 Time: 11:49:00 CPU Time: 0 0: 7:11.11 (431.11 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 3.575082E+06 days
2594 Date: 02/14/07 Time: 11:49:09 CPU Time: 0 0: 7:20.21 (440.21 sec) Binary
2597 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
2450 Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:19.85 (19.85 sec) ASCII
2452 Time Step No. = 126 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:19.85 (19.85 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 1.852005E-01 days
2456 Date: 02/14/07 Time: 10:15:15 CPU Time: 0 0: 0:22.75 (22.75 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 1.676048E+01 days
2459 Date: 02/14/07 Time: 10:15:19 CPU Time: 0 0: 0:26.53 (26.53 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 9.685600E+02 days
2462 Date: 02/14/07 Time: 10:15:24 CPU Time: 0 0: 0:31.89 (31.89 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 1.090054E+04 days
2465 Date: 02/14/07 Time: 10:15:31 CPU Time: 0 0: 0:38.77 (38.77 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.542607E+04 days
2468 Date: 02/14/07 Time: 10:15:41 CPU Time: 0 0: 0:48.73 (48.73 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.655532E+04 days
2471 Date: 02/14/07 Time: 10:15:48 CPU Time: 0 0: 0:55.72 (55.72 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.667264E+04 days
2474 Date: 02/14/07 Time: 10:15:51 CPU Time: 0 0: 0:58.16 (58.16 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.673502E+04 days

2477 Date: 02/14/07 Time: 10:15:54 CPU Time: 0 0: 1: 1.23 (61.23 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.849232E+04 days
2480 Date: 02/14/07 Time: 10:15:59 CPU Time: 0 0: 1: 6.47 (66.47 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 4.353267E+04 days
2483 Date: 02/14/07 Time: 10:16:09 CPU Time: 0 0: 1:15.69 (75.69 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 8.646290E+04 days
2486 Date: 02/14/07 Time: 10:16:16 CPU Time: 0 0: 1:22.85 (82.85 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 1.956099E+05 days
2489 Date: 02/14/07 Time: 10:16:27 CPU Time: 0 0: 1:34.60 (94.60 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 2.537997E+05 days
2492 Date: 02/14/07 Time: 10:16:37 CPU Time: 0 0: 1:43.87 (103.87 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.654102E+05 days
2495 Date: 02/14/07 Time: 10:16:43 CPU Time: 0 0: 1:50.19 (110.19 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 3.660393E+05 days
2498 Date: 02/14/07 Time: 10:16:48 CPU Time: 0 0: 1:55.53 (115.53 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.665141E+05 days
2501 Date: 02/14/07 Time: 10:16:50 CPU Time: 0 0: 1:57.53 (117.53 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 3.666116E+05 days
2504 Date: 02/14/07 Time: 10:16:53 CPU Time: 0 0: 1:59.66 (119.66 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 3.698164E+05 days
2507 Date: 02/14/07 Time: 10:16:57 CPU Time: 0 0: 2: 4.34 (124.34 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 3.836378E+05 days
2510 Date: 02/14/07 Time: 10:17:05 CPU Time: 0 0: 2:11.72 (131.72 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 4.773464E+05 days
2513 Date: 02/14/07 Time: 10:17:14 CPU Time: 0 0: 2:21.09 (141.09 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 4.805632E+05 days
2516 Date: 02/14/07 Time: 10:17:20 CPU Time: 0 0: 2:26.95 (146.95 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 6.090050E+05 days
2519 Date: 02/14/07 Time: 10:17:27 CPU Time: 0 0: 2:34.33 (154.33 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 6.642533E+05 days
2522 Date: 02/14/07 Time: 10:17:36 CPU Time: 0 0: 2:43.10 (163.10 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 6.660298E+05 days
2525 Date: 02/14/07 Time: 10:17:45 CPU Time: 0 0: 2:51.35 (171.35 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 6.750577E+05 days
2528 Date: 02/14/07 Time: 10:17:51 CPU Time: 0 0: 2:57.63 (177.63 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 8.117950E+05 days
2531 Date: 02/14/07 Time: 10:17:57 CPU Time: 0 0: 3: 4.15 (184.15 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 8.733977E+05 days
2534 Date: 02/14/07 Time: 10:18:06 CPU Time: 0 0: 3:12.64 (192.64 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 8.853639E+05 days
2537 Date: 02/14/07 Time: 10:18:13 CPU Time: 0 0: 3:20.01 (200.01 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 8.877123E+05 days
2540 Date: 02/14/07 Time: 10:18:17 CPU Time: 0 0: 3:23.23 (203.23 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 8.965246E+05 days
2543 Date: 02/14/07 Time: 10:18:24 CPU Time: 0 0: 3:30.91 (210.91 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 9.678193E+05 days
2546 Date: 02/14/07 Time: 10:18:31 CPU Time: 0 0: 3:37.77 (217.77 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 9.824276E+05 days
2549 Date: 02/14/07 Time: 10:18:37 CPU Time: 0 0: 3:43.96 (223.96 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 1.079404E+06 days
2552 Date: 02/14/07 Time: 10:18:46 CPU Time: 0 0: 3:52.82 (232.82 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 1.220016E+06 days
2555 Date: 02/14/07 Time: 10:18:56 CPU Time: 0 0: 4: 2.14 (242.14 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 1.358888E+06 days
2558 Date: 02/14/07 Time: 10:19:04 CPU Time: 0 0: 4:10.66 (250.66 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 1.367185E+06 days
2561 Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0: 4:17.36 (257.36 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 1.592454E+06 days
2564 Date: 02/14/07 Time: 10:19:18 CPU Time: 0 0: 4:24.37 (264.37 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 1.607973E+06 days
2567 Date: 02/14/07 Time: 10:19:28 CPU Time: 0 0: 4:34.42 (274.42 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.611408E+06 days
2570 Date: 02/14/07 Time: 10:19:34 CPU Time: 0 0: 4:40.05 (280.05 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.629376E+06 days
2573 Date: 02/14/07 Time: 10:19:40 CPU Time: 0 0: 4:46.63 (286.63 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.713757E+06 days
2576 Date: 02/14/07 Time: 10:19:46 CPU Time: 0 0: 4:51.88 (291.88 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 2.091414E+06 days
2579 Date: 02/14/07 Time: 10:19:53 CPU Time: 0 0: 4:59.50 (299.50 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 2.491414E+06 days
2582 Date: 02/14/07 Time: 10:19:59 CPU Time: 0 0: 5: 5.09 (305.09 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 2.635578E+06 days
2585 Date: 02/14/07 Time: 10:20:09 CPU Time: 0 0: 5:14.88 (314.88 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 2.775082E+06 days
2588 Date: 02/14/07 Time: 10:20:15 CPU Time: 0 0: 5:20.98 (320.98 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 3.175082E+06 days

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2591 Date: 02/14/07 Time: 10:20:21 CPU Time: 0 0: 5:27.20 ( 327.20 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 3.575082E+06 days
2594 Date: 02/14/07 Time: 10:20:28 CPU Time: 0 0: 5:34.26 ( 334.26 sec) Binary
2597 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
2613 CPU Time (this time step) = 0.37 sec = 0.00010 hr
2614 CPU Time (total for run) = 441.68 sec = 0.12269 hr
2615 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
2613 CPU Time (this time step) = 0.28 sec = 0.00008 hr
2614 CPU Time (total for run) = 335.38 sec = 0.09316 hr
2615 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
3291 Date: 02/14/07 Time: 11:49:11 CPU Time: 0 0: 7:21.71 ( 441.71 sec) ASCII
3293 Time Step No. = 1064 Elapsed Time = 3.652431E+06 days
3294 Date: 02/14/07 Time: 11:49:11 CPU Time: 0 0: 7:21.71 ( 441.71 sec) Binary
3299 *****
3300 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3301 * Completed: 02/14/07 at 11:49:11 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
3302 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
3291 Date: 02/14/07 Time: 10:20:29 CPU Time: 0 0: 5:35.39 ( 335.39 sec) ASCII
3293 Time Step No. = 1064 Elapsed Time = 3.652431E+06 days
3294 Date: 02/14/07 Time: 10:20:29 CPU Time: 0 0: 5:35.40 ( 335.40 sec) Binary
3299 *****
3300 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3301 * Completed: 02/14/07 at 10:20:29 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3302 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 114

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
```

BF2_QB0600_ES40_TEST7_V019_OUT.DIF

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*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
3 ** Begun on: 02/14/07 at 11:42:38 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
3 ** Begun on: 02/14/07 at 10:15:39 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_TEST7_V019.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_CLOSURE.DAT;1
67 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
  72 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
  72 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.SUM;1
  77 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.SUM;1
  77 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.BIN;1
  82 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.BIN;1
  82 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.ROT;1
  87 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.ROT;1
  87 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
 1772 CPU Time (this time step) = 0.18 sec = 0.00005 hr
 1773 CPU Time (total for run) = 42.84 sec = 0.01190 hr
 1774 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
 1772 CPU Time (this time step) = 0.14 sec = 0.00004 hr
 1773 CPU Time (total for run) = 32.43 sec = 0.00901 hr
 1774 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
 2450 Date: 02/14/07 Time: 11:43:21 CPU Time: 0 0: 0:42.86 ( 42.86 sec) ASCII
 2452 Time Step No. = 156 Elapsed Time = 0.000000E+00 days
 2453 Date: 02/14/07 Time: 11:43:21 CPU Time: 0 0: 0:42.87 ( 42.87 sec) Binary
 2455 Time Step No. = 160 Elapsed Time = 7.207031E-03 days
 2456 Date: 02/14/07 Time: 11:43:24 CPU Time: 0 0: 0:46.64 ( 46.64 sec) Binary
 2458 Time Step No. = 180 Elapsed Time = 9.919446E-01 days
 2459 Date: 02/14/07 Time: 11:43:29 CPU Time: 0 0: 0:51.40 ( 51.40 sec) Binary
 2461 Time Step No. = 200 Elapsed Time = 5.981381E+01 days
 2462 Date: 02/14/07 Time: 11:43:35 CPU Time: 0 0: 0:56.96 ( 56.96 sec) Binary
 2464 Time Step No. = 220 Elapsed Time = 8.084405E+02 days
 2465 Date: 02/14/07 Time: 11:43:42 CPU Time: 0 0: 1: 4.37 ( 64.37 sec) Binary
 2467 Time Step No. = 240 Elapsed Time = 6.597767E+03 days
 2468 Date: 02/14/07 Time: 11:43:52 CPU Time: 0 0: 1:13.78 ( 73.78 sec) Binary
 2470 Time Step No. = 260 Elapsed Time = 8.104276E+03 days
 2471 Date: 02/14/07 Time: 11:43:58 CPU Time: 0 0: 1:20.72 ( 80.72 sec) Binary
 2473 Time Step No. = 280 Elapsed Time = 1.013249E+04 days
 2474 Date: 02/14/07 Time: 11:44:04 CPU Time: 0 0: 1:26.27 ( 86.27 sec) Binary
 2476 Time Step No. = 300 Elapsed Time = 1.796897E+04 days
 2477 Date: 02/14/07 Time: 11:44:14 CPU Time: 0 0: 1:35.84 ( 95.84 sec) Binary
 2479 Time Step No. = 320 Elapsed Time = 2.541947E+04 days
 2480 Date: 02/14/07 Time: 11:44:20 CPU Time: 0 0: 1:42.24 ( 102.24 sec) Binary
 2482 Time Step No. = 340 Elapsed Time = 3.652431E+04 days
 2483 Date: 02/14/07 Time: 11:44:27 CPU Time: 0 0: 1:49.66 ( 109.66 sec) Binary
 2485 Time Step No. = 360 Elapsed Time = 3.652446E+04 days
 2486 Date: 02/14/07 Time: 11:44:35 CPU Time: 0 0: 1:57.00 ( 117.00 sec) Binary
 2488 Time Step No. = 380 Elapsed Time = 3.653794E+04 days
 2489 Date: 02/14/07 Time: 11:44:39 CPU Time: 0 0: 2: 1.32 ( 121.32 sec) Binary
 2491 Time Step No. = 400 Elapsed Time = 3.665472E+04 days
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2492 Date: 02/14/07 Time: 11:44:44 CPU Time: 0 0: 2: 6.00 (126.00 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 3.667516E+04 days
2495 Date: 02/14/07 Time: 11:44:47 CPU Time: 0 0: 2: 9.14 (129.14 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 3.724922E+04 days
2498 Date: 02/14/07 Time: 11:44:53 CPU Time: 0 0: 2:15.45 (135.45 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 5.413046E+04 days
2501 Date: 02/14/07 Time: 11:45:01 CPU Time: 0 0: 2:23.19 (143.19 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 9.100708E+04 days
2504 Date: 02/14/07 Time: 11:45:16 CPU Time: 0 0: 2:37.77 (157.77 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 1.470830E+05 days
2507 Date: 02/14/07 Time: 11:45:26 CPU Time: 0 0: 2:47.86 (167.86 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 2.204613E+05 days
2510 Date: 02/14/07 Time: 11:45:40 CPU Time: 0 0: 3: 2.19 (182.19 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 2.691848E+05 days
2513 Date: 02/14/07 Time: 11:45:52 CPU Time: 0 0: 3:13.98 (193.98 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 2.832034E+05 days
2516 Date: 02/14/07 Time: 11:45:59 CPU Time: 0 0: 3:20.98 (200.98 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 3.061970E+05 days
2519 Date: 02/14/07 Time: 11:46:10 CPU Time: 0 0: 3:32.03 (212.03 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 3.110361E+05 days
2522 Date: 02/14/07 Time: 11:46:22 CPU Time: 0 0: 3:43.99 (223.99 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 3.237666E+05 days
2525 Date: 02/14/07 Time: 11:46:35 CPU Time: 0 0: 3:57.45 (237.45 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 3.474124E+05 days
2528 Date: 02/14/07 Time: 11:46:43 CPU Time: 0 0: 4: 4.77 (244.77 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 3.652525E+05 days
2531 Date: 02/14/07 Time: 11:46:52 CPU Time: 0 0: 4:14.30 (254.30 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 3.652719E+05 days
2534 Date: 02/14/07 Time: 11:47:01 CPU Time: 0 0: 4:22.98 (262.98 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 3.653962E+05 days
2537 Date: 02/14/07 Time: 11:47:09 CPU Time: 0 0: 4:30.74 (270.74 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 3.660809E+05 days
2540 Date: 02/14/07 Time: 11:47:17 CPU Time: 0 0: 4:39.24 (279.24 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 3.665917E+05 days
2543 Date: 02/14/07 Time: 11:47:21 CPU Time: 0 0: 4:42.56 (282.56 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 3.666891E+05 days
2546 Date: 02/14/07 Time: 11:47:25 CPU Time: 0 0: 4:46.50 (286.50 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.685642E+05 days
2549 Date: 02/14/07 Time: 11:47:34 CPU Time: 0 0: 4:55.44 (295.44 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.704468E+05 days
2552 Date: 02/14/07 Time: 11:47:43 CPU Time: 0 0: 5: 4.85 (304.85 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 3.728343E+05 days
2555 Date: 02/14/07 Time: 11:47:52 CPU Time: 0 0: 5:13.35 (313.35 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 3.808843E+05 days
2558 Date: 02/14/07 Time: 11:48:04 CPU Time: 0 0: 5:25.40 (325.40 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 3.829952E+05 days
2561 Date: 02/14/07 Time: 11:48:15 CPU Time: 0 0: 5:36.03 (336.03 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 3.831178E+05 days
2564 Date: 02/14/07 Time: 11:48:21 CPU Time: 0 0: 5:42.71 (342.71 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 3.834087E+05 days
2567 Date: 02/14/07 Time: 11:48:28 CPU Time: 0 0: 5:49.21 (349.21 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 3.859229E+05 days
2570 Date: 02/14/07 Time: 11:48:37 CPU Time: 0 0: 5:58.42 (358.42 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 3.893569E+05 days
2573 Date: 02/14/07 Time: 11:48:45 CPU Time: 0 0: 6: 5.74 (365.74 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 3.936979E+05 days
2576 Date: 02/14/07 Time: 11:48:51 CPU Time: 0 0: 6:12.18 (372.18 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 4.144137E+05 days
2579 Date: 02/14/07 Time: 11:49:02 CPU Time: 0 0: 6:23.23 (383.23 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 4.180260E+05 days
2582 Date: 02/14/07 Time: 11:49:12 CPU Time: 0 0: 6:33.22 (393.22 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 4.184906E+05 days
2585 Date: 02/14/07 Time: 11:49:18 CPU Time: 0 0: 6:39.53 (399.53 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 4.191714E+05 days
2588 Date: 02/14/07 Time: 11:49:28 CPU Time: 0 0: 6:48.96 (408.96 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 4.192872E+05 days
2591 Date: 02/14/07 Time: 11:49:32 CPU Time: 0 0: 6:53.19 (413.19 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 4.283116E+05 days
2594 Date: 02/14/07 Time: 11:49:40 CPU Time: 0 0: 7: 0.62 (420.62 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 4.358680E+05 days
2597 Date: 02/14/07 Time: 11:49:47 CPU Time: 0 0: 7: 8.06 (428.06 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 4.362891E+05 days
2600 Date: 02/14/07 Time: 11:49:56 CPU Time: 0 0: 7:17.24 (437.24 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 4.374193E+05 days
2603 Date: 02/14/07 Time: 11:50:02 CPU Time: 0 0: 7:22.41 (442.41 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 4.444218E+05 days

2606 Date: 02/14/07 Time: 11:50:11 CPU Time: 0 0: 7:31.65 (451.65 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 4.554530E+05 days
2609 Date: 02/14/07 Time: 11:50:20 CPU Time: 0 0: 7:40.72 (460.72 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 4.557350E+05 days
2612 Date: 02/14/07 Time: 11:50:28 CPU Time: 0 0: 7:48.56 (468.56 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 4.578442E+05 days
2615 Date: 02/14/07 Time: 11:50:37 CPU Time: 0 0: 7:57.25 (477.25 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 4.579509E+05 days
2618 Date: 02/14/07 Time: 11:50:47 CPU Time: 0 0: 8: 7.97 (487.97 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 4.584427E+05 days
2621 Date: 02/14/07 Time: 11:50:58 CPU Time: 0 0: 8:18.59 (498.59 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 4.599440E+05 days
2624 Date: 02/14/07 Time: 11:51:03 CPU Time: 0 0: 8:23.52 (503.52 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 4.690229E+05 days
2627 Date: 02/14/07 Time: 11:51:14 CPU Time: 0 0: 8:34.46 (514.46 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 4.748604E+05 days
2630 Date: 02/14/07 Time: 11:51:28 CPU Time: 0 0: 8:47.67 (527.67 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 4.830762E+05 days
2633 Date: 02/14/07 Time: 11:51:37 CPU Time: 0 0: 8:57.37 (537.37 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 5.258526E+05 days
2636 Date: 02/14/07 Time: 11:51:48 CPU Time: 0 0: 9: 7.91 (547.91 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 5.892641E+05 days
2639 Date: 02/14/07 Time: 11:51:58 CPU Time: 0 0: 9:17.44 (557.44 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 6.795923E+05 days
2642 Date: 02/14/07 Time: 11:52:08 CPU Time: 0 0: 9:27.58 (567.58 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 6.868502E+05 days
2645 Date: 02/14/07 Time: 11:52:19 CPU Time: 0 0: 9:38.65 (578.65 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 7.652701E+05 days
2648 Date: 02/14/07 Time: 11:52:31 CPU Time: 0 0: 9:50.34 (590.34 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 7.968026E+05 days
2651 Date: 02/14/07 Time: 11:52:44 CPU Time: 0 0:10: 3.31 (603.31 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 8.666657E+05 days
2654 Date: 02/14/07 Time: 11:52:55 CPU Time: 0 0:10:14.21 (614.21 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 8.983079E+05 days
2657 Date: 02/14/07 Time: 11:53:09 CPU Time: 0 0:10:27.36 (627.36 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 9.551600E+05 days
2660 Date: 02/14/07 Time: 11:53:21 CPU Time: 0 0:10:39.56 (639.56 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 9.998592E+05 days
2663 Date: 02/14/07 Time: 11:53:32 CPU Time: 0 0:10:51.08 (651.08 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 1.085834E+06 days
2666 Date: 02/14/07 Time: 11:53:43 CPU Time: 0 0:11: 2.26 (662.26 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 1.160714E+06 days
2669 Date: 02/14/07 Time: 11:53:52 CPU Time: 0 0:11:10.99 (670.99 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 1.559652E+06 days
2672 Date: 02/14/07 Time: 11:54:01 CPU Time: 0 0:11:20.04 (680.04 sec) Binary
2674 Time Step No. = 1620 Elapsed Time = 1.959652E+06 days
2675 Date: 02/14/07 Time: 11:54:10 CPU Time: 0 0:11:28.61 (688.61 sec) Binary
2677 Time Step No. = 1640 Elapsed Time = 2.090782E+06 days
2678 Date: 02/14/07 Time: 11:54:23 CPU Time: 0 0:11:42.15 (702.15 sec) Binary
2680 Time Step No. = 1660 Elapsed Time = 2.163373E+06 days
2681 Date: 02/14/07 Time: 11:54:31 CPU Time: 0 0:11:50.03 (710.03 sec) Binary
2683 Time Step No. = 1680 Elapsed Time = 2.183046E+06 days
2684 Date: 02/14/07 Time: 11:54:42 CPU Time: 0 0:12: 0.73 (720.73 sec) Binary
2686 Time Step No. = 1700 Elapsed Time = 2.201300E+06 days
2687 Date: 02/14/07 Time: 11:54:55 CPU Time: 0 0:12:13.48 (733.48 sec) Binary
2689 Time Step No. = 1720 Elapsed Time = 2.251091E+06 days
2690 Date: 02/14/07 Time: 11:55:05 CPU Time: 0 0:12:23.09 (743.09 sec) Binary
2692 Time Step No. = 1740 Elapsed Time = 2.284094E+06 days
2693 Date: 02/14/07 Time: 11:55:16 CPU Time: 0 0:12:34.35 (754.35 sec) Binary
2695 Time Step No. = 1760 Elapsed Time = 2.528019E+06 days
2696 Date: 02/14/07 Time: 11:55:25 CPU Time: 0 0:12:44.05 (764.05 sec) Binary
2698 Time Step No. = 1780 Elapsed Time = 2.550069E+06 days
2699 Date: 02/14/07 Time: 11:55:34 CPU Time: 0 0:12:52.01 (772.01 sec) Binary
2701 Time Step No. = 1800 Elapsed Time = 2.589298E+06 days
2702 Date: 02/14/07 Time: 11:55:44 CPU Time: 0 0:13: 2.14 (782.14 sec) Binary
2704 Time Step No. = 1820 Elapsed Time = 2.727802E+06 days
2705 Date: 02/14/07 Time: 11:55:55 CPU Time: 0 0:13:13.03 (793.03 sec) Binary
2707 Time Step No. = 1840 Elapsed Time = 2.763509E+06 days
2708 Date: 02/14/07 Time: 11:56:01 CPU Time: 0 0:13:19.43 (799.43 sec) Binary
2710 Time Step No. = 1860 Elapsed Time = 2.944745E+06 days
2711 Date: 02/14/07 Time: 11:56:12 CPU Time: 0 0:13:30.68 (810.68 sec) Binary
2713 Time Step No. = 1880 Elapsed Time = 3.202991E+06 days
2714 Date: 02/14/07 Time: 11:56:23 CPU Time: 0 0:13:41.74 (821.74 sec) Binary
2716 Time Step No. = 1900 Elapsed Time = 3.339934E+06 days
2717 Date: 02/14/07 Time: 11:56:29 CPU Time: 0 0:13:47.66 (827.66 sec) Binary
2720 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA: [ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
2450 Date: 02/14/07 Time: 10:16:12 CPU Time: 0 0: 0:32.44 (32.44 sec) ASCII
2452 Time Step No. = 156 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:16:12 CPU Time: 0 0: 0:32.45 (32.45 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 7.207031E-03 days
2456 Date: 02/14/07 Time: 10:16:15 CPU Time: 0 0: 0:35.30 (35.30 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 9.919446E-01 days
2459 Date: 02/14/07 Time: 10:16:18 CPU Time: 0 0: 0:38.93 (38.93 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 5.981381E+01 days
2462 Date: 02/14/07 Time: 10:16:22 CPU Time: 0 0: 0:43.18 (43.18 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 8.084405E+02 days
2465 Date: 02/14/07 Time: 10:16:28 CPU Time: 0 0: 0:48.82 (48.82 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 6.597767E+03 days
2468 Date: 02/14/07 Time: 10:16:35 CPU Time: 0 0: 0:56.00 (56.00 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 8.104276E+03 days
2471 Date: 02/14/07 Time: 10:16:41 CPU Time: 0 0: 1: 1.30 (61.30 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 1.013249E+04 days
2474 Date: 02/14/07 Time: 10:16:45 CPU Time: 0 0: 1: 5.55 (65.55 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 1.796897E+04 days
2477 Date: 02/14/07 Time: 10:16:52 CPU Time: 0 0: 1:12.86 (72.86 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 2.541947E+04 days
2480 Date: 02/14/07 Time: 10:16:57 CPU Time: 0 0: 1:17.73 (77.73 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2483 Date: 02/14/07 Time: 10:17:03 CPU Time: 0 0: 1:23.38 (83.38 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 3.652446E+04 days
2486 Date: 02/14/07 Time: 10:17:08 CPU Time: 0 0: 1:28.94 (88.94 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 3.653794E+04 days
2489 Date: 02/14/07 Time: 10:17:12 CPU Time: 0 0: 1:32.23 (92.23 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 3.665472E+04 days
2492 Date: 02/14/07 Time: 10:17:15 CPU Time: 0 0: 1:35.80 (95.80 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 3.667516E+04 days
2495 Date: 02/14/07 Time: 10:17:18 CPU Time: 0 0: 1:38.18 (98.18 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 3.724922E+04 days
2498 Date: 02/14/07 Time: 10:17:22 CPU Time: 0 0: 1:42.84 (102.84 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 5.413046E+04 days
2501 Date: 02/14/07 Time: 10:17:28 CPU Time: 0 0: 1:48.71 (108.71 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 9.100708E+04 days
2504 Date: 02/14/07 Time: 10:17:39 CPU Time: 0 0: 1:59.87 (119.87 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 1.470830E+05 days
2507 Date: 02/14/07 Time: 10:17:47 CPU Time: 0 0: 2: 7.71 (127.71 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 2.204613E+05 days
2510 Date: 02/14/07 Time: 10:17:58 CPU Time: 0 0: 2:18.80 (138.80 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 2.691848E+05 days
2513 Date: 02/14/07 Time: 10:18:07 CPU Time: 0 0: 2:27.70 (147.70 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 2.832034E+05 days
2516 Date: 02/14/07 Time: 10:18:12 CPU Time: 0 0: 2:32.87 (152.87 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 3.061970E+05 days
2519 Date: 02/14/07 Time: 10:18:21 CPU Time: 0 0: 2:41.02 (161.02 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 3.110361E+05 days
2522 Date: 02/14/07 Time: 10:18:29 CPU Time: 0 0: 2:49.87 (169.87 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 3.237666E+05 days
2525 Date: 02/14/07 Time: 10:18:39 CPU Time: 0 0: 2:59.95 (179.95 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 3.474124E+05 days
2528 Date: 02/14/07 Time: 10:18:45 CPU Time: 0 0: 3: 5.55 (185.55 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 3.652525E+05 days
2531 Date: 02/14/07 Time: 10:18:52 CPU Time: 0 0: 3:12.79 (192.79 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 3.652719E+05 days
2534 Date: 02/14/07 Time: 10:18:59 CPU Time: 0 0: 3:19.39 (199.39 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 3.653962E+05 days
2537 Date: 02/14/07 Time: 10:19:05 CPU Time: 0 0: 3:25.32 (205.32 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 3.660809E+05 days
2540 Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0: 3:31.80 (211.80 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 3.665917E+05 days
2543 Date: 02/14/07 Time: 10:19:14 CPU Time: 0 0: 3:34.31 (214.31 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 3.666891E+05 days
2546 Date: 02/14/07 Time: 10:19:17 CPU Time: 0 0: 3:37.30 (217.30 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.685642E+05 days
2549 Date: 02/14/07 Time: 10:19:24 CPU Time: 0 0: 3:44.04 (224.04 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.704468E+05 days
2552 Date: 02/14/07 Time: 10:19:31 CPU Time: 0 0: 3:51.16 (231.16 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 3.728343E+05 days
2555 Date: 02/14/07 Time: 10:19:37 CPU Time: 0 0: 3:57.58 (237.58 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 3.808843E+05 days
2558 Date: 02/14/07 Time: 10:19:46 CPU Time: 0 0: 4: 6.69 (246.69 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 3.829952E+05 days

2561 Date: 02/14/07 Time: 10:19:54 CPU Time: 0 0: 4:14.77 (254.77 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 3.831178E+05 days
2564 Date: 02/14/07 Time: 10:19:59 CPU Time: 0 0: 4:19.87 (259.87 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 3.834087E+05 days
2567 Date: 02/14/07 Time: 10:20:04 CPU Time: 0 0: 4:24.73 (264.73 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 3.859229E+05 days
2570 Date: 02/14/07 Time: 10:20:11 CPU Time: 0 0: 4:31.71 (271.71 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 3.893569E+05 days
2573 Date: 02/14/07 Time: 10:20:17 CPU Time: 0 0: 4:37.21 (277.21 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 3.936979E+05 days
2576 Date: 02/14/07 Time: 10:20:22 CPU Time: 0 0: 4:42.10 (282.10 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 4.144137E+05 days
2579 Date: 02/14/07 Time: 10:20:30 CPU Time: 0 0: 4:50.44 (290.44 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 4.180260E+05 days
2582 Date: 02/14/07 Time: 10:20:38 CPU Time: 0 0: 4:57.88 (297.88 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 4.184906E+05 days
2585 Date: 02/14/07 Time: 10:20:42 CPU Time: 0 0: 5: 2.51 (302.51 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 4.191714E+05 days
2588 Date: 02/14/07 Time: 10:20:50 CPU Time: 0 0: 5: 9.53 (309.53 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 4.192872E+05 days
2591 Date: 02/14/07 Time: 10:20:53 CPU Time: 0 0: 5:12.66 (312.66 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 4.283116E+05 days
2594 Date: 02/14/07 Time: 10:20:58 CPU Time: 0 0: 5:18.22 (318.22 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 4.358680E+05 days
2597 Date: 02/14/07 Time: 10:21:04 CPU Time: 0 0: 5:23.88 (323.88 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 4.362891E+05 days
2600 Date: 02/14/07 Time: 10:21:11 CPU Time: 0 0: 5:30.96 (330.96 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 4.374193E+05 days
2603 Date: 02/14/07 Time: 10:21:15 CPU Time: 0 0: 5:34.97 (334.97 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 4.444218E+05 days
2606 Date: 02/14/07 Time: 10:21:22 CPU Time: 0 0: 5:42.15 (342.15 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 4.554530E+05 days
2609 Date: 02/14/07 Time: 10:21:30 CPU Time: 0 0: 5:49.18 (349.18 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 4.557350E+05 days
2612 Date: 02/14/07 Time: 10:21:36 CPU Time: 0 0: 5:55.30 (355.30 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 4.578442E+05 days
2615 Date: 02/14/07 Time: 10:21:42 CPU Time: 0 0: 6: 2.07 (362.07 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 4.579509E+05 days
2618 Date: 02/14/07 Time: 10:21:51 CPU Time: 0 0: 6:10.36 (370.36 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 4.584427E+05 days
2621 Date: 02/14/07 Time: 10:21:59 CPU Time: 0 0: 6:18.54 (378.54 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 4.599440E+05 days
2624 Date: 02/14/07 Time: 10:22:03 CPU Time: 0 0: 6:22.33 (382.33 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 4.690229E+05 days
2627 Date: 02/14/07 Time: 10:22:11 CPU Time: 0 0: 6:30.40 (390.40 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 4.748604E+05 days
2630 Date: 02/14/07 Time: 10:22:21 CPU Time: 0 0: 6:40.13 (400.13 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 4.830762E+05 days
2633 Date: 02/14/07 Time: 10:22:28 CPU Time: 0 0: 6:47.48 (407.48 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 5.258526E+05 days
2636 Date: 02/14/07 Time: 10:22:36 CPU Time: 0 0: 6:55.60 (415.60 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 5.892641E+05 days
2639 Date: 02/14/07 Time: 10:22:44 CPU Time: 0 0: 7: 2.96 (422.96 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 6.795923E+05 days
2642 Date: 02/14/07 Time: 10:22:52 CPU Time: 0 0: 7:10.82 (430.82 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 6.868502E+05 days
2645 Date: 02/14/07 Time: 10:23:00 CPU Time: 0 0: 7:19.40 (439.40 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 7.652701E+05 days
2648 Date: 02/14/07 Time: 10:23:09 CPU Time: 0 0: 7:28.36 (448.36 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 7.968026E+05 days
2651 Date: 02/14/07 Time: 10:23:19 CPU Time: 0 0: 7:38.34 (458.34 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 8.666657E+05 days
2654 Date: 02/14/07 Time: 10:23:28 CPU Time: 0 0: 7:46.78 (466.78 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 8.983079E+05 days
2657 Date: 02/14/07 Time: 10:23:38 CPU Time: 0 0: 7:56.96 (476.96 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 9.551600E+05 days
2660 Date: 02/14/07 Time: 10:23:47 CPU Time: 0 0: 8: 6.46 (486.46 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 9.998592E+05 days
2663 Date: 02/14/07 Time: 10:23:56 CPU Time: 0 0: 8:15.43 (495.43 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 1.085834E+06 days
2666 Date: 02/14/07 Time: 10:24:05 CPU Time: 0 0: 8:24.14 (504.14 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 1.160714E+06 days
2669 Date: 02/14/07 Time: 10:24:12 CPU Time: 0 0: 8:30.80 (510.80 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 1.559652E+06 days
2672 Date: 02/14/07 Time: 10:24:19 CPU Time: 0 0: 8:37.83 (517.83 sec) Binary
2674 Time Step No. = 1620 Elapsed Time = 1.959652E+06 days

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2675 Date: 02/14/07 Time: 10:24:25 CPU Time: 0 0: 8:44.48 ( 524.48 sec) Binary
2677 Time Step No. = 1640 Elapsed Time = 2.090782E+06 days
2678 Date: 02/14/07 Time: 10:24:36 CPU Time: 0 0: 8:54.75 ( 534.75 sec) Binary
2680 Time Step No. = 1660 Elapsed Time = 2.163373E+06 days
2681 Date: 02/14/07 Time: 10:24:41 CPU Time: 0 0: 9: 0.27 ( 540.27 sec) Binary
2683 Time Step No. = 1680 Elapsed Time = 2.183046E+06 days
2684 Date: 02/14/07 Time: 10:24:49 CPU Time: 0 0: 9: 7.77 ( 547.77 sec) Binary
2686 Time Step No. = 1700 Elapsed Time = 2.201300E+06 days
2687 Date: 02/14/07 Time: 10:24:58 CPU Time: 0 0: 9:16.77 ( 556.77 sec) Binary
2689 Time Step No. = 1720 Elapsed Time = 2.251091E+06 days
2690 Date: 02/14/07 Time: 10:25:05 CPU Time: 0 0: 9:23.52 ( 563.52 sec) Binary
2692 Time Step No. = 1740 Elapsed Time = 2.284094E+06 days
2693 Date: 02/14/07 Time: 10:25:13 CPU Time: 0 0: 9:31.48 ( 571.48 sec) Binary
2695 Time Step No. = 1760 Elapsed Time = 2.528019E+06 days
2696 Date: 02/14/07 Time: 10:25:20 CPU Time: 0 0: 9:38.36 ( 578.36 sec) Binary
2698 Time Step No. = 1780 Elapsed Time = 2.550069E+06 days
2699 Date: 02/14/07 Time: 10:25:25 CPU Time: 0 0: 9:44.01 ( 584.01 sec) Binary
2701 Time Step No. = 1800 Elapsed Time = 2.589298E+06 days
2702 Date: 02/14/07 Time: 10:25:32 CPU Time: 0 0: 9:51.15 ( 591.15 sec) Binary
2704 Time Step No. = 1820 Elapsed Time = 2.727802E+06 days
2705 Date: 02/14/07 Time: 10:25:40 CPU Time: 0 0: 9:58.80 ( 598.80 sec) Binary
2707 Time Step No. = 1840 Elapsed Time = 2.763509E+06 days
2708 Date: 02/14/07 Time: 10:25:45 CPU Time: 0 0:10: 3.31 ( 603.31 sec) Binary
2710 Time Step No. = 1860 Elapsed Time = 2.944745E+06 days
2711 Date: 02/14/07 Time: 10:25:52 CPU Time: 0 0:10:11.24 ( 611.24 sec) Binary
2713 Time Step No. = 1880 Elapsed Time = 3.202991E+06 days
2714 Date: 02/14/07 Time: 10:26:00 CPU Time: 0 0:10:19.01 ( 619.01 sec) Binary
2716 Time Step No. = 1900 Elapsed Time = 3.339934E+06 days
2717 Date: 02/14/07 Time: 10:26:04 CPU Time: 0 0:10:23.21 ( 623.21 sec) Binary
2720 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
2736 CPU Time (this time step) = 0.28 sec = 0.00008 hr
2737 CPU Time (total for run) = 832.12 sec = 0.23114 hr
2738 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
2736 CPU Time (this time step) = 0.19 sec = 0.00005 hr
2737 CPU Time (total for run) = 626.34 sec = 0.17398 hr
2738 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
3414 Date: 02/14/07 Time: 11:56:34 CPU Time: 0 0:13:52.14 ( 832.14 sec) ASCII
3416 Time Step No. = 1916 Elapsed Time = 3.652431E+06 days
3417 Date: 02/14/07 Time: 11:56:34 CPU Time: 0 0:13:52.14 ( 832.14 sec) Binary
3422 *****
3423 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3424 * Completed: 02/14/07 at 11:56:34 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
3425 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
3414 Date: 02/14/07 Time: 10:26:08 CPU Time: 0 0:10:26.34 ( 626.34 sec) ASCII
3416 Time Step No. = 1916 Elapsed Time = 3.652431E+06 days
3417 Date: 02/14/07 Time: 10:26:08 CPU Time: 0 0:10:26.34 ( 626.34 sec) Binary
3422 *****
3423 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3424 * Completed: 02/14/07 at 10:26:08 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3425 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 196

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
```

BF2_QB0600_ES40_TEST7_V020_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
```

```
3  ** Begun on: 02/14/07 at 11:49:18 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
3  ** Begun on: 02/14/07 at 10:20:35 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
61  PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_TEST7_V020.INP;2
62  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
61  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;2
62  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
66  PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_CLOSURE.DAT;1
67  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
66  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_CLOSURE.DAT;1
67  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
71  PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
72  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
71  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
72  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
76  PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.SUM;1
77  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
76  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.SUM;1
77  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
81  PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.BIN;1
82  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
81  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.BIN;1
82  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
86  PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.ROT;1
87  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
86  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.ROT;1
87  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
1772  CPU Time (this time step) = 0.25 sec = 0.00007 hr
1773  CPU Time (total for run) = 30.16 sec = 0.00838 hr
1774  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
1772  CPU Time (this time step) = 0.19 sec = 0.00005 hr
1773  CPU Time (total for run) = 23.66 sec = 0.00657 hr
1774  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
2450  Date: 02/14/07 Time: 11:49:48 CPU Time: 0 0: 0:30.18 ( 30.18 sec) ASCII
2452  Time Step No. = 137 Elapsed Time = 0.000000E+00 days
```

2453 Date: 02/14/07 Time: 11:49:48 CPU Time: 0 0: 0:30.19 (30.19 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 2.563388E-02 days
2456 Date: 02/14/07 Time: 11:49:49 CPU Time: 0 0: 0:31.16 (31.16 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 3.725148E+00 days
2459 Date: 02/14/07 Time: 11:49:54 CPU Time: 0 0: 0:36.25 (36.25 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 3.246068E+02 days
2462 Date: 02/14/07 Time: 11:50:00 CPU Time: 0 0: 0:41.77 (41.77 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 3.684633E+03 days
2465 Date: 02/14/07 Time: 11:50:09 CPU Time: 0 0: 0:50.75 (50.75 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 2.822136E+04 days
2468 Date: 02/14/07 Time: 11:50:17 CPU Time: 0 0: 0:59.46 (59.46 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.652539E+04 days
2471 Date: 02/14/07 Time: 11:50:32 CPU Time: 0 0: 1:14.14 (74.14 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.658477E+04 days
2474 Date: 02/14/07 Time: 11:50:37 CPU Time: 0 0: 1:19.22 (79.22 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.666991E+04 days
2477 Date: 02/14/07 Time: 11:50:40 CPU Time: 0 0: 1:22.17 (82.17 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.679175E+04 days
2480 Date: 02/14/07 Time: 11:50:45 CPU Time: 0 0: 1:26.57 (86.57 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.923507E+04 days
2483 Date: 02/14/07 Time: 11:50:52 CPU Time: 0 0: 1:33.88 (93.88 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 4.281917E+04 days
2486 Date: 02/14/07 Time: 11:51:03 CPU Time: 0 0: 1:44.38 (104.38 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 9.658391E+04 days
2489 Date: 02/14/07 Time: 11:51:14 CPU Time: 0 0: 1:55.78 (115.78 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 1.853715E+05 days
2492 Date: 02/14/07 Time: 11:51:32 CPU Time: 0 0: 2:13.05 (133.05 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 1.865644E+05 days
2495 Date: 02/14/07 Time: 11:51:42 CPU Time: 0 0: 2:23.59 (143.59 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 1.885587E+05 days
2498 Date: 02/14/07 Time: 11:51:50 CPU Time: 0 0: 2:31.57 (151.57 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 2.016355E+05 days
2501 Date: 02/14/07 Time: 11:52:02 CPU Time: 0 0: 2:42.37 (162.37 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 2.152604E+05 days
2504 Date: 02/14/07 Time: 11:52:17 CPU Time: 0 0: 2:57.16 (177.16 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 2.153375E+05 days
2507 Date: 02/14/07 Time: 11:52:24 CPU Time: 0 0: 3: 4.48 (184.48 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 2.165829E+05 days
2510 Date: 02/14/07 Time: 11:52:32 CPU Time: 0 0: 3:12.72 (192.72 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 2.353299E+05 days
2513 Date: 02/14/07 Time: 11:52:43 CPU Time: 0 0: 3:23.72 (203.72 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 2.520000E+05 days
2516 Date: 02/14/07 Time: 11:52:55 CPU Time: 0 0: 3:35.04 (215.04 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 2.525213E+05 days
2519 Date: 02/14/07 Time: 11:53:00 CPU Time: 0 0: 3:40.19 (220.19 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 2.527760E+05 days
2522 Date: 02/14/07 Time: 11:53:08 CPU Time: 0 0: 3:48.53 (228.53 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 2.541176E+05 days
2525 Date: 02/14/07 Time: 11:53:15 CPU Time: 0 0: 3:55.08 (235.08 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 2.855709E+05 days
2528 Date: 02/14/07 Time: 11:53:23 CPU Time: 0 0: 4: 3.38 (243.38 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.161032E+05 days
2531 Date: 02/14/07 Time: 11:53:34 CPU Time: 0 0: 4:14.34 (254.34 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.380356E+05 days
2534 Date: 02/14/07 Time: 11:53:42 CPU Time: 0 0: 4:22.58 (262.58 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 3.652525E+05 days
2537 Date: 02/14/07 Time: 11:53:48 CPU Time: 0 0: 4:28.77 (268.77 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 3.653546E+05 days
2540 Date: 02/14/07 Time: 11:53:55 CPU Time: 0 0: 4:35.70 (275.70 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.662726E+05 days
2543 Date: 02/14/07 Time: 11:54:05 CPU Time: 0 0: 4:45.13 (285.13 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.666103E+05 days
2546 Date: 02/14/07 Time: 11:54:07 CPU Time: 0 0: 4:47.73 (287.73 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.667626E+05 days
2549 Date: 02/14/07 Time: 11:54:11 CPU Time: 0 0: 4:51.26 (291.26 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.675399E+05 days
2552 Date: 02/14/07 Time: 11:54:19 CPU Time: 0 0: 4:59.64 (299.64 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.720878E+05 days
2555 Date: 02/14/07 Time: 11:54:27 CPU Time: 0 0: 5: 7.21 (307.21 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 3.875699E+05 days
2558 Date: 02/14/07 Time: 11:54:36 CPU Time: 0 0: 5:16.13 (316.13 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 4.462737E+05 days
2561 Date: 02/14/07 Time: 11:54:46 CPU Time: 0 0: 5:26.42 (326.42 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 5.201137E+05 days
2564 Date: 02/14/07 Time: 11:54:54 CPU Time: 0 0: 5:33.93 (333.93 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 5.611927E+05 days

2567 Date: 02/14/07 Time: 11:55:04 CPU Time: 0 0: 5:43.95 (343.95 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 6.996660E+05 days
2570 Date: 02/14/07 Time: 11:55:15 CPU Time: 0 0: 5:54.74 (354.74 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 8.421477E+05 days
2573 Date: 02/14/07 Time: 11:55:25 CPU Time: 0 0: 6: 5.61 (365.61 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 9.138807E+05 days
2576 Date: 02/14/07 Time: 11:55:36 CPU Time: 0 0: 6:16.14 (376.14 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.008458E+06 days
2579 Date: 02/14/07 Time: 11:55:48 CPU Time: 0 0: 6:28.28 (388.28 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.083768E+06 days
2582 Date: 02/14/07 Time: 11:56:01 CPU Time: 0 0: 6:41.30 (401.30 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.211114E+06 days
2585 Date: 02/14/07 Time: 11:56:12 CPU Time: 0 0: 6:52.42 (412.42 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 1.239729E+06 days
2588 Date: 02/14/07 Time: 11:56:24 CPU Time: 0 0: 7: 4.31 (424.31 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.431910E+06 days
2591 Date: 02/14/07 Time: 11:56:36 CPU Time: 0 0: 7:15.92 (435.92 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.474052E+06 days
2594 Date: 02/14/07 Time: 11:56:46 CPU Time: 0 0: 7:25.81 (445.81 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 1.548433E+06 days
2597 Date: 02/14/07 Time: 11:56:58 CPU Time: 0 0: 7:38.33 (458.33 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 1.567154E+06 days
2600 Date: 02/14/07 Time: 11:57:10 CPU Time: 0 0: 7:50.57 (470.57 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 1.587156E+06 days
2603 Date: 02/14/07 Time: 11:57:18 CPU Time: 0 0: 7:58.41 (478.41 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 1.602596E+06 days
2606 Date: 02/14/07 Time: 11:57:29 CPU Time: 0 0: 8: 8.99 (488.99 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 1.673711E+06 days
2609 Date: 02/14/07 Time: 11:57:39 CPU Time: 0 0: 8:18.86 (498.86 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 1.708410E+06 days
2612 Date: 02/14/07 Time: 11:57:50 CPU Time: 0 0: 8:30.22 (510.22 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 1.782836E+06 days
2615 Date: 02/14/07 Time: 11:57:58 CPU Time: 0 0: 8:38.32 (518.32 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 1.826297E+06 days
2618 Date: 02/14/07 Time: 11:58:09 CPU Time: 0 0: 8:49.41 (529.41 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 1.930066E+06 days
2621 Date: 02/14/07 Time: 11:58:20 CPU Time: 0 0: 9: 0.36 (540.36 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 2.048923E+06 days
2624 Date: 02/14/07 Time: 11:58:31 CPU Time: 0 0: 9:10.96 (550.96 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 2.205459E+06 days
2627 Date: 02/14/07 Time: 11:58:36 CPU Time: 0 0: 9:15.78 (555.78 sec) Binary
2629 Time Step No. = 1300 Elapsed Time = 2.605459E+06 days
2630 Date: 02/14/07 Time: 11:58:41 CPU Time: 0 0: 9:21.04 (561.04 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 2.884301E+06 days
2633 Date: 02/14/07 Time: 11:58:47 CPU Time: 0 0: 9:27.40 (567.40 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 3.231409E+06 days
2636 Date: 02/14/07 Time: 11:58:53 CPU Time: 0 0: 9:32.64 (572.64 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 3.631409E+06 days
2639 Date: 02/14/07 Time: 11:58:58 CPU Time: 0 0: 9:37.89 (577.89 sec) Binary
2642 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
2450 Date: 02/14/07 Time: 10:20:59 CPU Time: 0 0: 0:23.68 (23.68 sec) ASCII
2452 Time Step No. = 137 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:20:59 CPU Time: 0 0: 0:23.69 (23.69 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 2.563388E-02 days
2456 Date: 02/14/07 Time: 10:21:00 CPU Time: 0 0: 0:24.43 (24.43 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 3.725148E+00 days
2459 Date: 02/14/07 Time: 10:21:04 CPU Time: 0 0: 0:28.34 (28.34 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 3.246068E+02 days
2462 Date: 02/14/07 Time: 10:21:08 CPU Time: 0 0: 0:32.60 (32.60 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 3.684633E+03 days
2465 Date: 02/14/07 Time: 10:21:15 CPU Time: 0 0: 0:39.49 (39.49 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 2.822136E+04 days
2468 Date: 02/14/07 Time: 10:21:22 CPU Time: 0 0: 0:46.11 (46.11 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.652539E+04 days
2471 Date: 02/14/07 Time: 10:21:33 CPU Time: 0 0: 0:57.28 (57.28 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.658477E+04 days
2474 Date: 02/14/07 Time: 10:21:37 CPU Time: 0 0: 1: 1.10 (61.10 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.666991E+04 days
2477 Date: 02/14/07 Time: 10:21:39 CPU Time: 0 0: 1: 3.25 (63.25 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.679175E+04 days
2480 Date: 02/14/07 Time: 10:21:42 CPU Time: 0 0: 1: 6.62 (66.62 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.923507E+04 days
2483 Date: 02/14/07 Time: 10:21:48 CPU Time: 0 0: 1:12.33 (72.33 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 4.281917E+04 days

2486 Date: 02/14/07 Time: 10:21:56 CPU Time: 0 0: 1:20.54 (80.54 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 9.658391E+04 days
2489 Date: 02/14/07 Time: 10:22:05 CPU Time: 0 0: 1:29.44 (89.44 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 1.853715E+05 days
2492 Date: 02/14/07 Time: 10:22:19 CPU Time: 0 0: 1:42.96 (102.96 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 1.865644E+05 days
2495 Date: 02/14/07 Time: 10:22:26 CPU Time: 0 0: 1:50.86 (110.86 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 1.885587E+05 days
2498 Date: 02/14/07 Time: 10:22:33 CPU Time: 0 0: 1:56.96 (116.96 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 2.016355E+05 days
2501 Date: 02/14/07 Time: 10:22:41 CPU Time: 0 0: 2: 5.23 (125.23 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 2.152604E+05 days
2504 Date: 02/14/07 Time: 10:22:52 CPU Time: 0 0: 2:16.43 (136.43 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 2.153375E+05 days
2507 Date: 02/14/07 Time: 10:22:58 CPU Time: 0 0: 2:21.93 (141.93 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 2.165829E+05 days
2510 Date: 02/14/07 Time: 10:23:04 CPU Time: 0 0: 2:28.17 (148.17 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 2.353299E+05 days
2513 Date: 02/14/07 Time: 10:23:12 CPU Time: 0 0: 2:36.50 (156.50 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 2.520000E+05 days
2516 Date: 02/14/07 Time: 10:23:21 CPU Time: 0 0: 2:45.12 (165.12 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 2.525213E+05 days
2519 Date: 02/14/07 Time: 10:23:25 CPU Time: 0 0: 2:49.07 (169.07 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 2.527760E+05 days
2522 Date: 02/14/07 Time: 10:23:31 CPU Time: 0 0: 2:55.42 (175.42 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 2.541176E+05 days
2525 Date: 02/14/07 Time: 10:23:36 CPU Time: 0 0: 3: 0.42 (180.42 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 2.855709E+05 days
2528 Date: 02/14/07 Time: 10:23:43 CPU Time: 0 0: 3: 6.73 (186.73 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.161032E+05 days
2531 Date: 02/14/07 Time: 10:23:51 CPU Time: 0 0: 3:15.08 (195.08 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.380356E+05 days
2534 Date: 02/14/07 Time: 10:23:57 CPU Time: 0 0: 3:21.38 (201.38 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 3.652525E+05 days
2537 Date: 02/14/07 Time: 10:24:02 CPU Time: 0 0: 3:26.10 (206.10 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 3.653546E+05 days
2540 Date: 02/14/07 Time: 10:24:07 CPU Time: 0 0: 3:31.22 (211.22 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.662726E+05 days
2543 Date: 02/14/07 Time: 10:24:14 CPU Time: 0 0: 3:38.38 (218.38 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.666103E+05 days
2546 Date: 02/14/07 Time: 10:24:16 CPU Time: 0 0: 3:40.37 (220.37 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.667626E+05 days
2549 Date: 02/14/07 Time: 10:24:19 CPU Time: 0 0: 3:43.07 (223.07 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.675399E+05 days
2552 Date: 02/14/07 Time: 10:24:26 CPU Time: 0 0: 3:49.45 (229.45 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.720878E+05 days
2555 Date: 02/14/07 Time: 10:24:31 CPU Time: 0 0: 3:55.24 (235.24 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 3.875699E+05 days
2558 Date: 02/14/07 Time: 10:24:38 CPU Time: 0 0: 4: 2.00 (242.00 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 4.462737E+05 days
2561 Date: 02/14/07 Time: 10:24:46 CPU Time: 0 0: 4: 9.80 (249.80 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 5.201137E+05 days
2564 Date: 02/14/07 Time: 10:24:52 CPU Time: 0 0: 4:15.50 (255.50 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 5.611927E+05 days
2567 Date: 02/14/07 Time: 10:24:59 CPU Time: 0 0: 4:23.10 (263.10 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 6.996660E+05 days
2570 Date: 02/14/07 Time: 10:25:08 CPU Time: 0 0: 4:31.28 (271.28 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 8.421477E+05 days
2573 Date: 02/14/07 Time: 10:25:16 CPU Time: 0 0: 4:39.53 (279.53 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 9.138807E+05 days
2576 Date: 02/14/07 Time: 10:25:24 CPU Time: 0 0: 4:47.51 (287.51 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.008458E+06 days
2579 Date: 02/14/07 Time: 10:25:33 CPU Time: 0 0: 4:56.74 (296.74 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.083768E+06 days
2582 Date: 02/14/07 Time: 10:25:43 CPU Time: 0 0: 5: 6.63 (306.63 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.211114E+06 days
2585 Date: 02/14/07 Time: 10:25:51 CPU Time: 0 0: 5:15.09 (315.09 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 1.239729E+06 days
2588 Date: 02/14/07 Time: 10:26:00 CPU Time: 0 0: 5:24.14 (324.14 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.431910E+06 days
2591 Date: 02/14/07 Time: 10:26:09 CPU Time: 0 0: 5:32.93 (332.93 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.474052E+06 days
2594 Date: 02/14/07 Time: 10:26:17 CPU Time: 0 0: 5:40.42 (340.42 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 1.548433E+06 days
2597 Date: 02/14/07 Time: 10:26:26 CPU Time: 0 0: 5:49.85 (349.85 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 1.567154E+06 days


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2600 Date: 02/14/07 Time: 10:26:36 CPU Time: 0 0: 5:59.12 ( 359.12 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 1.587156E+06 days
2603 Date: 02/14/07 Time: 10:26:41 CPU Time: 0 0: 6: 5.05 ( 365.05 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 1.602596E+06 days
2606 Date: 02/14/07 Time: 10:26:50 CPU Time: 0 0: 6:13.07 ( 373.07 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 1.673711E+06 days
2609 Date: 02/14/07 Time: 10:26:57 CPU Time: 0 0: 6:20.57 ( 380.57 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 1.708410E+06 days
2612 Date: 02/14/07 Time: 10:27:06 CPU Time: 0 0: 6:29.18 ( 389.18 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 1.782836E+06 days
2615 Date: 02/14/07 Time: 10:27:12 CPU Time: 0 0: 6:35.31 ( 395.31 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 1.826297E+06 days
2618 Date: 02/14/07 Time: 10:27:20 CPU Time: 0 0: 6:43.74 ( 403.74 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 1.930066E+06 days
2621 Date: 02/14/07 Time: 10:27:29 CPU Time: 0 0: 6:52.44 ( 412.44 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 2.048923E+06 days
2624 Date: 02/14/07 Time: 10:27:37 CPU Time: 0 0: 7: 0.87 ( 420.87 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 2.205459E+06 days
2627 Date: 02/14/07 Time: 10:27:41 CPU Time: 0 0: 7: 4.71 ( 424.71 sec) Binary
2629 Time Step No. = 1300 Elapsed Time = 2.605459E+06 days
2630 Date: 02/14/07 Time: 10:27:45 CPU Time: 0 0: 7: 8.91 ( 428.91 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 2.884301E+06 days
2633 Date: 02/14/07 Time: 10:27:50 CPU Time: 0 0: 7:13.99 ( 433.99 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 3.231409E+06 days
2636 Date: 02/14/07 Time: 10:27:55 CPU Time: 0 0: 7:18.18 ( 438.18 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 3.631409E+06 days
2639 Date: 02/14/07 Time: 10:27:59 CPU Time: 0 0: 7:22.37 ( 442.37 sec) Binary
2642 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
2658 CPU Time (this time step) = 0.18 sec = 0.00005 hr
2659 CPU Time (total for run) = 578.33 sec = 0.16065 hr
2660 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
2658 CPU Time (this time step) = 0.14 sec = 0.00004 hr
2659 CPU Time (total for run) = 442.72 sec = 0.12298 hr
2660 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
3336 Date: 02/14/07 Time: 11:58:58 CPU Time: 0 0: 9:38.36 ( 578.36 sec) ASCII
3338 Time Step No. = 1362 Elapsed Time = 3.652431E+06 days
3339 Date: 02/14/07 Time: 11:58:58 CPU Time: 0 0: 9:38.36 ( 578.36 sec) Binary
3344 *****
3345 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3346 * Completed: 02/14/07 at 11:58:58 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
3347 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
3336 Date: 02/14/07 Time: 10:27:59 CPU Time: 0 0: 7:22.73 ( 442.73 sec) ASCII
3338 Time Step No. = 1362 Elapsed Time = 3.652431E+06 days
3339 Date: 02/14/07 Time: 10:27:59 CPU Time: 0 0: 7:22.73 ( 442.73 sec) Binary
3344 *****
3345 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3346 * Completed: 02/14/07 at 10:27:59 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3347 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 144

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
```

BF2_QB0600_ES45_TEST7_V001_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
3 ** Begun on: 02/14/07 at 10:32:50 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
4 *****
```

Information Only

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
  3  ** Begun on: 02/14/07 at 09:38:50 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_TEST7_V001.INP;2
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;2
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
  1772 CPU Time (this time step) = 0.11 sec = 0.00003 hr
  1773 CPU Time (total for run) = 25.24 sec = 0.00701 hr
  1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
  1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
  1773 CPU Time (total for run) = 28.78 sec = 0.00799 hr
  1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
  2450 Date: 02/14/07 Time: 10:33:15 CPU Time: 0 0: 0:25.26 ( 25.26 sec) ASCII
  2452 Time Step No. = 163 Elapsed Time = 0.000000E+00 days
  2453 Date: 02/14/07 Time: 10:33:15 CPU Time: 0 0: 0:25.26 ( 25.26 sec) Binary
  2455 Time Step No. = 180 Elapsed Time = 2.119576E-04 days
```

2456 Date: 02/14/07 Time: 10:33:19 CPU Time: 0 0: 0:28.41 (28.41 sec) Binary
2458 Time Step No. = 200 Elapsed Time = 1.880303E-02 days
2459 Date: 02/14/07 Time: 10:33:21 CPU Time: 0 0: 0:30.96 (30.96 sec) Binary
2461 Time Step No. = 220 Elapsed Time = 1.631321E+00 days
2462 Date: 02/14/07 Time: 10:33:24 CPU Time: 0 0: 0:33.66 (33.66 sec) Binary
2464 Time Step No. = 240 Elapsed Time = 2.774403E+01 days
2465 Date: 02/14/07 Time: 10:33:27 CPU Time: 0 0: 0:36.65 (36.65 sec) Binary
2467 Time Step No. = 260 Elapsed Time = 4.892922E+02 days
2468 Date: 02/14/07 Time: 10:33:31 CPU Time: 0 0: 0:40.56 (40.56 sec) Binary
2470 Time Step No. = 280 Elapsed Time = 4.026427E+03 days
2471 Date: 02/14/07 Time: 10:33:36 CPU Time: 0 0: 0:45.93 (45.93 sec) Binary
2473 Time Step No. = 300 Elapsed Time = 1.166868E+04 days
2474 Date: 02/14/07 Time: 10:33:43 CPU Time: 0 0: 0:52.43 (52.43 sec) Binary
2476 Time Step No. = 320 Elapsed Time = 2.296322E+04 days
2477 Date: 02/14/07 Time: 10:33:48 CPU Time: 0 0: 0:57.89 (57.89 sec) Binary
2479 Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2480 Date: 02/14/07 Time: 10:33:59 CPU Time: 0 0: 1: 9.10 (69.10 sec) Binary
2482 Time Step No. = 360 Elapsed Time = 3.652431E+04 days
2483 Date: 02/14/07 Time: 10:34:02 CPU Time: 0 0: 1:11.50 (71.50 sec) Binary
2485 Time Step No. = 380 Elapsed Time = 3.652431E+04 days
2486 Date: 02/14/07 Time: 10:34:04 CPU Time: 0 0: 1:14.09 (74.09 sec) Binary
2488 Time Step No. = 400 Elapsed Time = 3.652443E+04 days
2489 Date: 02/14/07 Time: 10:34:08 CPU Time: 0 0: 1:16.98 (76.98 sec) Binary
2491 Time Step No. = 420 Elapsed Time = 3.653512E+04 days
2492 Date: 02/14/07 Time: 10:34:10 CPU Time: 0 0: 1:19.57 (79.57 sec) Binary
2494 Time Step No. = 440 Elapsed Time = 3.668108E+04 days
2495 Date: 02/14/07 Time: 10:34:13 CPU Time: 0 0: 1:22.34 (82.34 sec) Binary
2497 Time Step No. = 460 Elapsed Time = 3.670152E+04 days
2498 Date: 02/14/07 Time: 10:34:15 CPU Time: 0 0: 1:24.28 (84.28 sec) Binary
2500 Time Step No. = 480 Elapsed Time = 3.726604E+04 days
2501 Date: 02/14/07 Time: 10:34:19 CPU Time: 0 0: 1:28.13 (88.13 sec) Binary
2503 Time Step No. = 500 Elapsed Time = 3.912333E+04 days
2504 Date: 02/14/07 Time: 10:34:26 CPU Time: 0 0: 1:34.85 (94.85 sec) Binary
2506 Time Step No. = 520 Elapsed Time = 7.687584E+04 days
2507 Date: 02/14/07 Time: 10:34:33 CPU Time: 0 0: 1:41.74 (101.74 sec) Binary
2509 Time Step No. = 540 Elapsed Time = 1.534551E+05 days
2510 Date: 02/14/07 Time: 10:34:41 CPU Time: 0 0: 1:50.01 (110.01 sec) Binary
2512 Time Step No. = 560 Elapsed Time = 3.652432E+05 days
2513 Date: 02/14/07 Time: 10:34:49 CPU Time: 0 0: 1:58.28 (118.28 sec) Binary
2515 Time Step No. = 580 Elapsed Time = 3.652461E+05 days
2516 Date: 02/14/07 Time: 10:34:53 CPU Time: 0 0: 2: 1.65 (121.65 sec) Binary
2518 Time Step No. = 600 Elapsed Time = 3.653145E+05 days
2519 Date: 02/14/07 Time: 10:34:58 CPU Time: 0 0: 2: 6.64 (126.64 sec) Binary
2521 Time Step No. = 620 Elapsed Time = 3.663770E+05 days
2522 Date: 02/14/07 Time: 10:35:06 CPU Time: 0 0: 2:14.23 (134.23 sec) Binary
2524 Time Step No. = 640 Elapsed Time = 3.665294E+05 days
2525 Date: 02/14/07 Time: 10:35:08 CPU Time: 0 0: 2:16.70 (136.70 sec) Binary
2527 Time Step No. = 660 Elapsed Time = 3.667198E+05 days
2528 Date: 02/14/07 Time: 10:35:11 CPU Time: 0 0: 2:19.87 (139.87 sec) Binary
2530 Time Step No. = 680 Elapsed Time = 3.694667E+05 days
2531 Date: 02/14/07 Time: 10:35:18 CPU Time: 0 0: 2:26.96 (146.96 sec) Binary
2533 Time Step No. = 700 Elapsed Time = 3.697358E+05 days
2534 Date: 02/14/07 Time: 10:35:22 CPU Time: 0 0: 2:30.93 (150.93 sec) Binary
2536 Time Step No. = 720 Elapsed Time = 3.733002E+05 days
2537 Date: 02/14/07 Time: 10:35:29 CPU Time: 0 0: 2:37.57 (157.57 sec) Binary
2539 Time Step No. = 740 Elapsed Time = 3.764582E+05 days
2540 Date: 02/14/07 Time: 10:35:39 CPU Time: 0 0: 2:47.72 (167.72 sec) Binary
2542 Time Step No. = 760 Elapsed Time = 3.766434E+05 days
2543 Date: 02/14/07 Time: 10:35:47 CPU Time: 0 0: 2:54.96 (174.96 sec) Binary
2545 Time Step No. = 780 Elapsed Time = 3.768308E+05 days
2546 Date: 02/14/07 Time: 10:35:52 CPU Time: 0 0: 3: 0.54 (180.54 sec) Binary
2548 Time Step No. = 800 Elapsed Time = 3.769094E+05 days
2549 Date: 02/14/07 Time: 10:35:55 CPU Time: 0 0: 3: 3.37 (183.37 sec) Binary
2551 Time Step No. = 820 Elapsed Time = 3.804952E+05 days
2552 Date: 02/14/07 Time: 10:36:02 CPU Time: 0 0: 3:10.58 (190.58 sec) Binary
2554 Time Step No. = 840 Elapsed Time = 3.807620E+05 days
2555 Date: 02/14/07 Time: 10:36:08 CPU Time: 0 0: 3:16.31 (196.31 sec) Binary
2557 Time Step No. = 860 Elapsed Time = 3.823931E+05 days
2558 Date: 02/14/07 Time: 10:36:16 CPU Time: 0 0: 3:23.72 (203.72 sec) Binary
2560 Time Step No. = 880 Elapsed Time = 3.824076E+05 days
2561 Date: 02/14/07 Time: 10:36:21 CPU Time: 0 0: 3:29.07 (209.07 sec) Binary
2563 Time Step No. = 900 Elapsed Time = 3.825485E+05 days
2564 Date: 02/14/07 Time: 10:36:27 CPU Time: 0 0: 3:35.12 (215.12 sec) Binary
2566 Time Step No. = 920 Elapsed Time = 3.826760E+05 days
2567 Date: 02/14/07 Time: 10:36:31 CPU Time: 0 0: 3:38.61 (218.61 sec) Binary
2569 Time Step No. = 940 Elapsed Time = 3.853540E+05 days

2570 Date: 02/14/07 Time: 10:36:38 CPU Time: 0 0: 3:45.58 (225.58 sec) Binary
2572 Time Step No. = 960 Elapsed Time = 3.854180E+05 days
2573 Date: 02/14/07 Time: 10:36:43 CPU Time: 0 0: 3:50.48 (230.48 sec) Binary
2575 Time Step No. = 980 Elapsed Time = 3.854555E+05 days
2576 Date: 02/14/07 Time: 10:36:47 CPU Time: 0 0: 3:55.30 (235.30 sec) Binary
2578 Time Step No. = 1000 Elapsed Time = 3.865421E+05 days
2579 Date: 02/14/07 Time: 10:36:52 CPU Time: 0 0: 3:59.10 (239.10 sec) Binary
2581 Time Step No. = 1020 Elapsed Time = 3.977998E+05 days
2582 Date: 02/14/07 Time: 10:36:58 CPU Time: 0 0: 4: 5.94 (245.94 sec) Binary
2584 Time Step No. = 1040 Elapsed Time = 4.072582E+05 days
2585 Date: 02/14/07 Time: 10:37:06 CPU Time: 0 0: 4:13.32 (253.32 sec) Binary
2587 Time Step No. = 1060 Elapsed Time = 4.135174E+05 days
2588 Date: 02/14/07 Time: 10:37:12 CPU Time: 0 0: 4:18.94 (258.94 sec) Binary
2590 Time Step No. = 1080 Elapsed Time = 4.195838E+05 days
2591 Date: 02/14/07 Time: 10:37:17 CPU Time: 0 0: 4:24.51 (264.51 sec) Binary
2593 Time Step No. = 1100 Elapsed Time = 4.376889E+05 days
2594 Date: 02/14/07 Time: 10:37:25 CPU Time: 0 0: 4:31.77 (271.77 sec) Binary
2596 Time Step No. = 1120 Elapsed Time = 4.384404E+05 days
2597 Date: 02/14/07 Time: 10:37:30 CPU Time: 0 0: 4:36.66 (276.66 sec) Binary
2599 Time Step No. = 1140 Elapsed Time = 4.447569E+05 days
2600 Date: 02/14/07 Time: 10:37:34 CPU Time: 0 0: 4:41.41 (281.41 sec) Binary
2602 Time Step No. = 1160 Elapsed Time = 4.559149E+05 days
2603 Date: 02/14/07 Time: 10:37:43 CPU Time: 0 0: 4:50.10 (290.10 sec) Binary
2605 Time Step No. = 1180 Elapsed Time = 4.583726E+05 days
2606 Date: 02/14/07 Time: 10:37:48 CPU Time: 0 0: 4:55.01 (295.01 sec) Binary
2608 Time Step No. = 1200 Elapsed Time = 6.210292E+05 days
2609 Date: 02/14/07 Time: 10:37:53 CPU Time: 0 0: 5: 0.39 (300.39 sec) Binary
2611 Time Step No. = 1220 Elapsed Time = 7.693890E+05 days
2612 Date: 02/14/07 Time: 10:38:04 CPU Time: 0 0: 5:11.20 (311.20 sec) Binary
2614 Time Step No. = 1240 Elapsed Time = 7.747455E+05 days
2615 Date: 02/14/07 Time: 10:38:08 CPU Time: 0 0: 5:14.59 (314.59 sec) Binary
2617 Time Step No. = 1260 Elapsed Time = 1.007898E+06 days
2618 Date: 02/14/07 Time: 10:38:13 CPU Time: 0 0: 5:20.01 (320.01 sec) Binary
2620 Time Step No. = 1280 Elapsed Time = 1.308059E+06 days
2621 Date: 02/14/07 Time: 10:38:20 CPU Time: 0 0: 5:26.92 (326.92 sec) Binary
2623 Time Step No. = 1300 Elapsed Time = 1.328500E+06 days
2624 Date: 02/14/07 Time: 10:38:24 CPU Time: 0 0: 5:30.96 (330.96 sec) Binary
2626 Time Step No. = 1320 Elapsed Time = 1.666428E+06 days
2627 Date: 02/14/07 Time: 10:38:30 CPU Time: 0 0: 5:36.31 (336.31 sec) Binary
2629 Time Step No. = 1340 Elapsed Time = 2.066428E+06 days
2630 Date: 02/14/07 Time: 10:38:34 CPU Time: 0 0: 5:41.15 (341.15 sec) Binary
2632 Time Step No. = 1360 Elapsed Time = 2.361834E+06 days
2633 Date: 02/14/07 Time: 10:38:42 CPU Time: 0 0: 5:48.89 (348.89 sec) Binary
2635 Time Step No. = 1380 Elapsed Time = 2.393121E+06 days
2636 Date: 02/14/07 Time: 10:38:50 CPU Time: 0 0: 5:56.13 (356.13 sec) Binary
2638 Time Step No. = 1400 Elapsed Time = 2.401318E+06 days
2639 Date: 02/14/07 Time: 10:38:56 CPU Time: 0 0: 6: 2.52 (362.52 sec) Binary
2641 Time Step No. = 1420 Elapsed Time = 2.468163E+06 days
2642 Date: 02/14/07 Time: 10:39:02 CPU Time: 0 0: 6: 8.22 (368.22 sec) Binary
2644 Time Step No. = 1440 Elapsed Time = 2.865069E+06 days
2645 Date: 02/14/07 Time: 10:39:07 CPU Time: 0 0: 6:13.19 (373.19 sec) Binary
2647 Time Step No. = 1460 Elapsed Time = 3.265069E+06 days
2648 Date: 02/14/07 Time: 10:39:12 CPU Time: 0 0: 6:18.08 (378.08 sec) Binary
2651 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA: [ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
2450 Date: 02/14/07 Time: 09:39:19 CPU Time: 0 0: 0:28.80 (28.80 sec) ASCII
2452 Time Step No. = 163 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:39:19 CPU Time: 0 0: 0:28.80 (28.80 sec) Binary
2455 Time Step No. = 180 Elapsed Time = 2.119576E-04 days
2456 Date: 02/14/07 Time: 09:39:22 CPU Time: 0 0: 0:32.42 (32.42 sec) Binary
2458 Time Step No. = 200 Elapsed Time = 1.880303E-02 days
2459 Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:35.33 (35.33 sec) Binary
2461 Time Step No. = 220 Elapsed Time = 1.631321E+00 days
2462 Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:38.45 (38.45 sec) Binary
2464 Time Step No. = 240 Elapsed Time = 2.774403E+01 days
2465 Date: 02/14/07 Time: 09:39:32 CPU Time: 0 0: 0:41.89 (41.89 sec) Binary
2467 Time Step No. = 260 Elapsed Time = 4.892922E+02 days
2468 Date: 02/14/07 Time: 09:39:36 CPU Time: 0 0: 0:46.37 (46.37 sec) Binary
2470 Time Step No. = 280 Elapsed Time = 4.026427E+03 days
2471 Date: 02/14/07 Time: 09:39:42 CPU Time: 0 0: 0:52.49 (52.49 sec) Binary
2473 Time Step No. = 300 Elapsed Time = 1.166868E+04 days
2474 Date: 02/14/07 Time: 09:39:50 CPU Time: 0 0: 0:59.93 (59.93 sec) Binary
2476 Time Step No. = 320 Elapsed Time = 2.296322E+04 days
2477 Date: 02/14/07 Time: 09:39:56 CPU Time: 0 0: 1: 6.17 (66.17 sec) Binary
2479 Time Step No. = 340 Elapsed Time = 3.652431E+04 days

2480 Date: 02/14/07 Time: 09:40:09 CPU Time: 0 0: 1:18.93 (78.93 sec) Binary
2482 Time Step No. = 360 Elapsed Time = 3.652431E+04 days
2483 Date: 02/14/07 Time: 09:40:12 CPU Time: 0 0: 1:21.71 (81.71 sec) Binary
2485 Time Step No. = 380 Elapsed Time = 3.652431E+04 days
2486 Date: 02/14/07 Time: 09:40:14 CPU Time: 0 0: 1:24.68 (84.68 sec) Binary
2488 Time Step No. = 400 Elapsed Time = 3.652443E+04 days
2489 Date: 02/14/07 Time: 09:40:18 CPU Time: 0 0: 1:27.96 (87.96 sec) Binary
2491 Time Step No. = 420 Elapsed Time = 3.653512E+04 days
2492 Date: 02/14/07 Time: 09:40:21 CPU Time: 0 0: 1:30.92 (90.92 sec) Binary
2494 Time Step No. = 440 Elapsed Time = 3.668108E+04 days
2495 Date: 02/14/07 Time: 09:40:24 CPU Time: 0 0: 1:34.09 (94.09 sec) Binary
2497 Time Step No. = 460 Elapsed Time = 3.670152E+04 days
2498 Date: 02/14/07 Time: 09:40:26 CPU Time: 0 0: 1:36.32 (96.32 sec) Binary
2500 Time Step No. = 480 Elapsed Time = 3.726604E+04 days
2501 Date: 02/14/07 Time: 09:40:31 CPU Time: 0 0: 1:40.74 (100.74 sec) Binary
2503 Time Step No. = 500 Elapsed Time = 3.912333E+04 days
2504 Date: 02/14/07 Time: 09:40:38 CPU Time: 0 0: 1:48.09 (108.09 sec) Binary
2506 Time Step No. = 520 Elapsed Time = 7.687584E+04 days
2507 Date: 02/14/07 Time: 09:40:45 CPU Time: 0 0: 1:55.62 (115.62 sec) Binary
2509 Time Step No. = 540 Elapsed Time = 1.534551E+05 days
2510 Date: 02/14/07 Time: 09:40:55 CPU Time: 0 0: 2: 4.66 (124.66 sec) Binary
2512 Time Step No. = 560 Elapsed Time = 3.652432E+05 days
2513 Date: 02/14/07 Time: 09:41:04 CPU Time: 0 0: 2:13.73 (133.73 sec) Binary
2515 Time Step No. = 580 Elapsed Time = 3.652461E+05 days
2516 Date: 02/14/07 Time: 09:41:07 CPU Time: 0 0: 2:17.44 (137.44 sec) Binary
2518 Time Step No. = 600 Elapsed Time = 3.653145E+05 days
2519 Date: 02/14/07 Time: 09:41:13 CPU Time: 0 0: 2:22.90 (142.90 sec) Binary
2521 Time Step No. = 620 Elapsed Time = 3.663770E+05 days
2522 Date: 02/14/07 Time: 09:41:21 CPU Time: 0 0: 2:31.20 (151.20 sec) Binary
2524 Time Step No. = 640 Elapsed Time = 3.665294E+05 days
2525 Date: 02/14/07 Time: 09:41:24 CPU Time: 0 0: 2:33.91 (153.91 sec) Binary
2527 Time Step No. = 660 Elapsed Time = 3.667198E+05 days
2528 Date: 02/14/07 Time: 09:41:27 CPU Time: 0 0: 2:37.38 (157.38 sec) Binary
2530 Time Step No. = 680 Elapsed Time = 3.694667E+05 days
2531 Date: 02/14/07 Time: 09:41:35 CPU Time: 0 0: 2:45.12 (165.12 sec) Binary
2533 Time Step No. = 700 Elapsed Time = 3.697358E+05 days
2534 Date: 02/14/07 Time: 09:41:39 CPU Time: 0 0: 2:49.47 (169.47 sec) Binary
2536 Time Step No. = 720 Elapsed Time = 3.733002E+05 days
2537 Date: 02/14/07 Time: 09:41:47 CPU Time: 0 0: 2:56.71 (176.71 sec) Binary
2539 Time Step No. = 740 Elapsed Time = 3.764582E+05 days
2540 Date: 02/14/07 Time: 09:41:58 CPU Time: 0 0: 3: 7.76 (187.76 sec) Binary
2542 Time Step No. = 760 Elapsed Time = 3.766434E+05 days
2543 Date: 02/14/07 Time: 09:42:06 CPU Time: 0 0: 3:15.69 (195.69 sec) Binary
2545 Time Step No. = 780 Elapsed Time = 3.768308E+05 days
2546 Date: 02/14/07 Time: 09:42:12 CPU Time: 0 0: 3:21.79 (201.79 sec) Binary
2548 Time Step No. = 800 Elapsed Time = 3.769094E+05 days
2549 Date: 02/14/07 Time: 09:42:15 CPU Time: 0 0: 3:25.09 (205.09 sec) Binary
2551 Time Step No. = 820 Elapsed Time = 3.804952E+05 days
2552 Date: 02/14/07 Time: 09:42:24 CPU Time: 0 0: 3:33.60 (213.60 sec) Binary
2554 Time Step No. = 840 Elapsed Time = 3.807620E+05 days
2555 Date: 02/14/07 Time: 09:42:30 CPU Time: 0 0: 3:40.40 (220.40 sec) Binary
2557 Time Step No. = 860 Elapsed Time = 3.823931E+05 days
2558 Date: 02/14/07 Time: 09:42:39 CPU Time: 0 0: 3:49.17 (229.17 sec) Binary
2560 Time Step No. = 880 Elapsed Time = 3.824076E+05 days
2561 Date: 02/14/07 Time: 09:42:46 CPU Time: 0 0: 3:55.48 (235.48 sec) Binary
2563 Time Step No. = 900 Elapsed Time = 3.825485E+05 days
2564 Date: 02/14/07 Time: 09:42:53 CPU Time: 0 0: 4: 2.64 (242.64 sec) Binary
2566 Time Step No. = 920 Elapsed Time = 3.826760E+05 days
2567 Date: 02/14/07 Time: 09:42:57 CPU Time: 0 0: 4: 6.78 (246.78 sec) Binary
2569 Time Step No. = 940 Elapsed Time = 3.853540E+05 days
2570 Date: 02/14/07 Time: 09:43:05 CPU Time: 0 0: 4:15.03 (255.03 sec) Binary
2572 Time Step No. = 960 Elapsed Time = 3.854180E+05 days
2573 Date: 02/14/07 Time: 09:43:11 CPU Time: 0 0: 4:20.82 (260.82 sec) Binary
2575 Time Step No. = 980 Elapsed Time = 3.854555E+05 days
2576 Date: 02/14/07 Time: 09:43:17 CPU Time: 0 0: 4:26.54 (266.54 sec) Binary
2578 Time Step No. = 1000 Elapsed Time = 3.865421E+05 days
2579 Date: 02/14/07 Time: 09:43:21 CPU Time: 0 0: 4:31.04 (271.04 sec) Binary
2581 Time Step No. = 1020 Elapsed Time = 3.977998E+05 days
2582 Date: 02/14/07 Time: 09:43:29 CPU Time: 0 0: 4:39.14 (279.14 sec) Binary
2584 Time Step No. = 1040 Elapsed Time = 4.072582E+05 days
2585 Date: 02/14/07 Time: 09:43:38 CPU Time: 0 0: 4:47.84 (287.84 sec) Binary
2587 Time Step No. = 1060 Elapsed Time = 4.135174E+05 days
2588 Date: 02/14/07 Time: 09:43:45 CPU Time: 0 0: 4:54.49 (294.49 sec) Binary
2590 Time Step No. = 1080 Elapsed Time = 4.195838E+05 days
2591 Date: 02/14/07 Time: 09:43:51 CPU Time: 0 0: 5: 1.09 (301.09 sec) Binary
2593 Time Step No. = 1100 Elapsed Time = 4.376889E+05 days

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2594 Date: 02/14/07 Time: 09:44:00 CPU Time: 0 0: 5: 9.65 ( 309.65 sec) Binary
2596 Time Step No. = 1120 Elapsed Time = 4.384404E+05 days
2597 Date: 02/14/07 Time: 09:44:06 CPU Time: 0 0: 5:15.44 ( 315.44 sec) Binary
2599 Time Step No. = 1140 Elapsed Time = 4.447569E+05 days
2600 Date: 02/14/07 Time: 09:44:11 CPU Time: 0 0: 5:21.08 ( 321.08 sec) Binary
2602 Time Step No. = 1160 Elapsed Time = 4.559149E+05 days
2603 Date: 02/14/07 Time: 09:44:22 CPU Time: 0 0: 5:31.27 ( 331.27 sec) Binary
2605 Time Step No. = 1180 Elapsed Time = 4.583726E+05 days
2606 Date: 02/14/07 Time: 09:44:27 CPU Time: 0 0: 5:37.06 ( 337.06 sec) Binary
2608 Time Step No. = 1200 Elapsed Time = 6.210292E+05 days
2609 Date: 02/14/07 Time: 09:44:34 CPU Time: 0 0: 5:43.20 ( 343.20 sec) Binary
2611 Time Step No. = 1220 Elapsed Time = 7.693890E+05 days
2612 Date: 02/14/07 Time: 09:44:46 CPU Time: 0 0: 5:55.70 ( 355.70 sec) Binary
2614 Time Step No. = 1240 Elapsed Time = 7.747455E+05 days
2615 Date: 02/14/07 Time: 09:44:50 CPU Time: 0 0: 5:59.71 ( 359.71 sec) Binary
2617 Time Step No. = 1260 Elapsed Time = 1.007898E+06 days
2618 Date: 02/14/07 Time: 09:44:57 CPU Time: 0 0: 6: 6.05 ( 366.05 sec) Binary
2620 Time Step No. = 1280 Elapsed Time = 1.308059E+06 days
2621 Date: 02/14/07 Time: 09:45:05 CPU Time: 0 0: 6:13.90 ( 373.90 sec) Binary
2623 Time Step No. = 1300 Elapsed Time = 1.328500E+06 days
2624 Date: 02/14/07 Time: 09:45:09 CPU Time: 0 0: 6:18.31 ( 378.31 sec) Binary
2626 Time Step No. = 1320 Elapsed Time = 1.666428E+06 days
2627 Date: 02/14/07 Time: 09:45:15 CPU Time: 0 0: 6:24.18 ( 384.18 sec) Binary
2629 Time Step No. = 1340 Elapsed Time = 2.066428E+06 days
2630 Date: 02/14/07 Time: 09:45:20 CPU Time: 0 0: 6:29.48 ( 389.48 sec) Binary
2632 Time Step No. = 1360 Elapsed Time = 2.361834E+06 days
2633 Date: 02/14/07 Time: 09:45:29 CPU Time: 0 0: 6:37.92 ( 397.92 sec) Binary
2635 Time Step No. = 1380 Elapsed Time = 2.393121E+06 days
2636 Date: 02/14/07 Time: 09:45:37 CPU Time: 0 0: 6:45.79 ( 405.79 sec) Binary
2638 Time Step No. = 1400 Elapsed Time = 2.401318E+06 days
2639 Date: 02/14/07 Time: 09:45:44 CPU Time: 0 0: 6:52.81 ( 412.81 sec) Binary
2641 Time Step No. = 1420 Elapsed Time = 2.468163E+06 days
2642 Date: 02/14/07 Time: 09:45:50 CPU Time: 0 0: 6:59.54 ( 419.54 sec) Binary
2644 Time Step No. = 1440 Elapsed Time = 2.865069E+06 days
2645 Date: 02/14/07 Time: 09:45:56 CPU Time: 0 0: 7: 5.38 ( 425.38 sec) Binary
2647 Time Step No. = 1460 Elapsed Time = 3.265069E+06 days
2648 Date: 02/14/07 Time: 09:46:02 CPU Time: 0 0: 7:11.15 ( 431.15 sec) Binary
2651 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
2667 CPU Time (this time step) = 0.23 sec = 0.00006 hr
2668 CPU Time (total for run) = 382.82 sec = 0.10634 hr
2669 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
2667 CPU Time (this time step) = 0.27 sec = 0.00007 hr
2668 CPU Time (total for run) = 436.72 sec = 0.12131 hr
2669 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
3345 Date: 02/14/07 Time: 10:39:17 CPU Time: 0 0: 6:22.85 ( 382.85 sec) ASCII
3347 Time Step No. = 1480 Elapsed Time = 3.652431E+06 days
3348 Date: 02/14/07 Time: 10:39:17 CPU Time: 0 0: 6:22.85 ( 382.85 sec) Binary
3353 *****
3354 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3355 * Completed: 02/14/07 at 10:39:17 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
3356 *****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
3345 Date: 02/14/07 Time: 09:46:08 CPU Time: 0 0: 7:16.74 ( 436.74 sec) ASCII
3347 Time Step No. = 1480 Elapsed Time = 3.652431E+06 days
3348 Date: 02/14/07 Time: 09:46:08 CPU Time: 0 0: 7:16.74 ( 436.74 sec) Binary
3353 *****
3354 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3355 * Completed: 02/14/07 at 09:46:08 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3356 *****
*****
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Number of difference sections found: 11
Number of difference records found: 150

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1-

PAA: [ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1

BF2_QB0600_ES45_TEST7_V002_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
  3  ** Begun on: 02/14/07 at 10:32:55 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
  3  ** Begun on: 02/14/07 at 09:38:54 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_TEST7_V002.INP;2
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;2
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
  1772 CPU Time (this time step) = 0.16 sec = 0.0004 hr
  1773 CPU Time (total for run) = 18.21 sec = 0.00506 hr
  1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
```

1772 CPU Time (this time step) = 0.20 sec = 0.00006 hr
1773 CPU Time (total for run) = 21.05 sec = 0.00585 hr
1774 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
2450 Date: 02/14/07 Time: 10:33:13 CPU Time: 0 0: 0:18.23 (18.23 sec) ASCII
2452 Time Step No. = 127 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:33:13 CPU Time: 0 0: 0:18.23 (18.23 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 4.346098E-01 days
2456 Date: 02/14/07 Time: 10:33:15 CPU Time: 0 0: 0:20.55 (20.55 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 3.472291E+01 days
2459 Date: 02/14/07 Time: 10:33:19 CPU Time: 0 0: 0:23.86 (23.86 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.955883E+03 days
2462 Date: 02/14/07 Time: 10:33:23 CPU Time: 0 0: 0:28.29 (28.29 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 2.565631E+04 days
2465 Date: 02/14/07 Time: 10:33:29 CPU Time: 0 0: 0:33.82 (33.82 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.652584E+04 days
2468 Date: 02/14/07 Time: 10:33:38 CPU Time: 0 0: 0:43.03 (43.03 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.659319E+04 days
2471 Date: 02/14/07 Time: 10:33:41 CPU Time: 0 0: 0:46.51 (46.51 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.666452E+04 days
2474 Date: 02/14/07 Time: 10:33:43 CPU Time: 0 0: 0:48.32 (48.32 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.678636E+04 days
2477 Date: 02/14/07 Time: 10:33:46 CPU Time: 0 0: 0:51.16 (51.16 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.918728E+04 days
2480 Date: 02/14/07 Time: 10:33:51 CPU Time: 0 0: 0:55.57 (55.57 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 5.812157E+04 days
2483 Date: 02/14/07 Time: 10:33:58 CPU Time: 0 0: 1: 3.19 (63.19 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 9.710952E+04 days
2486 Date: 02/14/07 Time: 10:34:04 CPU Time: 0 0: 1: 8.81 (68.81 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.570947E+05 days
2489 Date: 02/14/07 Time: 10:34:12 CPU Time: 0 0: 1:16.19 (76.19 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 3.652773E+05 days
2492 Date: 02/14/07 Time: 10:34:17 CPU Time: 0 0: 1:20.92 (80.92 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.654045E+05 days
2495 Date: 02/14/07 Time: 10:34:22 CPU Time: 0 0: 1:25.67 (85.67 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 3.660244E+05 days
2498 Date: 02/14/07 Time: 10:34:27 CPU Time: 0 0: 1:31.32 (91.32 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.667476E+05 days
2501 Date: 02/14/07 Time: 10:34:29 CPU Time: 0 0: 1:33.21 (93.21 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 3.668694E+05 days
2504 Date: 02/14/07 Time: 10:34:31 CPU Time: 0 0: 1:35.15 (95.15 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 3.774372E+05 days
2507 Date: 02/14/07 Time: 10:34:35 CPU Time: 0 0: 1:39.36 (99.36 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 3.796809E+05 days
2510 Date: 02/14/07 Time: 10:34:40 CPU Time: 0 0: 1:44.56 (104.56 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 3.859590E+05 days
2513 Date: 02/14/07 Time: 10:34:44 CPU Time: 0 0: 1:48.27 (108.27 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 4.871131E+05 days
2516 Date: 02/14/07 Time: 10:34:52 CPU Time: 0 0: 1:55.92 (115.92 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 4.930836E+05 days
2519 Date: 02/14/07 Time: 10:34:57 CPU Time: 0 0: 2: 1.22 (121.22 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 5.535964E+05 days
2522 Date: 02/14/07 Time: 10:35:03 CPU Time: 0 0: 2: 7.16 (127.16 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 5.724872E+05 days
2525 Date: 02/14/07 Time: 10:35:10 CPU Time: 0 0: 2:14.46 (134.46 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 5.734498E+05 days
2528 Date: 02/14/07 Time: 10:35:15 CPU Time: 0 0: 2:18.91 (138.91 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 5.775623E+05 days
2531 Date: 02/14/07 Time: 10:35:19 CPU Time: 0 0: 2:23.53 (143.53 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 6.407566E+05 days
2534 Date: 02/14/07 Time: 10:35:26 CPU Time: 0 0: 2:29.61 (149.61 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 6.744634E+05 days
2537 Date: 02/14/07 Time: 10:35:33 CPU Time: 0 0: 2:36.92 (156.92 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 6.751089E+05 days
2540 Date: 02/14/07 Time: 10:35:36 CPU Time: 0 0: 2:39.84 (159.84 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 6.764870E+05 days
2543 Date: 02/14/07 Time: 10:35:43 CPU Time: 0 0: 2:47.18 (167.18 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 6.800027E+05 days
2546 Date: 02/14/07 Time: 10:35:48 CPU Time: 0 0: 2:51.76 (171.76 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 6.830843E+05 days
2549 Date: 02/14/07 Time: 10:35:52 CPU Time: 0 0: 2:55.53 (175.53 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 7.863709E+05 days
2552 Date: 02/14/07 Time: 10:35:58 CPU Time: 0 0: 3: 1.61 (181.61 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 8.205738E+05 days

2555 Date: 02/14/07 Time: 10:36:03 CPU Time: 0 0: 3: 6.99 (186.99 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 8.371328E+05 days
2558 Date: 02/14/07 Time: 10:36:10 CPU Time: 0 0: 3:13.98 (193.98 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 9.542887E+05 days
2561 Date: 02/14/07 Time: 10:36:17 CPU Time: 0 0: 3:21.03 (201.03 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 9.666332E+05 days
2564 Date: 02/14/07 Time: 10:36:23 CPU Time: 0 0: 3:26.96 (206.96 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 9.777098E+05 days
2567 Date: 02/14/07 Time: 10:36:28 CPU Time: 0 0: 3:31.36 (211.36 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.062787E+06 days
2570 Date: 02/14/07 Time: 10:36:35 CPU Time: 0 0: 3:38.28 (218.28 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.075840E+06 days
2573 Date: 02/14/07 Time: 10:36:42 CPU Time: 0 0: 3:45.14 (225.14 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.078336E+06 days
2576 Date: 02/14/07 Time: 10:36:47 CPU Time: 0 0: 3:49.93 (229.93 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.145474E+06 days
2579 Date: 02/14/07 Time: 10:36:52 CPU Time: 0 0: 3:55.30 (235.30 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.476967E+06 days
2582 Date: 02/14/07 Time: 10:36:59 CPU Time: 0 0: 4: 2.34 (242.34 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.647571E+06 days
2585 Date: 02/14/07 Time: 10:37:07 CPU Time: 0 0: 4: 9.68 (249.68 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 1.741394E+06 days
2588 Date: 02/14/07 Time: 10:37:15 CPU Time: 0 0: 4:17.62 (257.62 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.760200E+06 days
2591 Date: 02/14/07 Time: 10:37:22 CPU Time: 0 0: 4:24.65 (264.65 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.854061E+06 days
2594 Date: 02/14/07 Time: 10:37:27 CPU Time: 0 0: 4:29.32 (269.32 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.147313E+06 days
2597 Date: 02/14/07 Time: 10:37:34 CPU Time: 0 0: 4:36.58 (276.58 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 2.431481E+06 days
2600 Date: 02/14/07 Time: 10:37:42 CPU Time: 0 0: 4:44.46 (284.46 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 2.490074E+06 days
2603 Date: 02/14/07 Time: 10:37:49 CPU Time: 0 0: 4:51.52 (291.52 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 2.690910E+06 days
2606 Date: 02/14/07 Time: 10:37:59 CPU Time: 0 0: 5: 0.88 (300.88 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 3.089099E+06 days
2609 Date: 02/14/07 Time: 10:38:06 CPU Time: 0 0: 5: 7.91 (307.91 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 3.293784E+06 days
2612 Date: 02/14/07 Time: 10:38:18 CPU Time: 0 0: 5:19.84 (319.84 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 3.347981E+06 days
2615 Date: 02/14/07 Time: 10:38:23 CPU Time: 0 0: 5:24.62 (324.62 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 3.418348E+06 days
2618 Date: 02/14/07 Time: 10:38:31 CPU Time: 0 0: 5:32.52 (332.52 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 3.499859E+06 days
2621 Date: 02/14/07 Time: 10:38:38 CPU Time: 0 0: 5:40.06 (340.06 sec) Binary
2624 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
2450 Date: 02/14/07 Time: 09:39:16 CPU Time: 0 0: 0:21.06 (21.06 sec) ASCII
2452 Time Step No. = 127 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:39:16 CPU Time: 0 0: 0:21.06 (21.06 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 4.346098E-01 days
2456 Date: 02/14/07 Time: 09:39:19 CPU Time: 0 0: 0:23.85 (23.85 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 3.472291E+01 days
2459 Date: 02/14/07 Time: 09:39:23 CPU Time: 0 0: 0:27.82 (27.82 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.955883E+03 days
2462 Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:33.15 (33.15 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 2.565631E+04 days
2465 Date: 02/14/07 Time: 09:39:34 CPU Time: 0 0: 0:39.74 (39.74 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.652584E+04 days
2468 Date: 02/14/07 Time: 09:39:45 CPU Time: 0 0: 0:49.98 (49.98 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.659319E+04 days
2471 Date: 02/14/07 Time: 09:39:49 CPU Time: 0 0: 0:53.86 (53.86 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.666452E+04 days
2474 Date: 02/14/07 Time: 09:39:51 CPU Time: 0 0: 0:55.94 (55.94 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.678636E+04 days
2477 Date: 02/14/07 Time: 09:39:54 CPU Time: 0 0: 0:59.36 (59.36 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.918728E+04 days
2480 Date: 02/14/07 Time: 09:39:59 CPU Time: 0 0: 1: 4.62 (64.62 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 5.812157E+04 days
2483 Date: 02/14/07 Time: 09:40:09 CPU Time: 0 0: 1:13.94 (73.94 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 9.710952E+04 days
2486 Date: 02/14/07 Time: 09:40:16 CPU Time: 0 0: 1:20.81 (80.81 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.570947E+05 days
2489 Date: 02/14/07 Time: 09:40:25 CPU Time: 0 0: 1:29.71 (89.71 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 3.652773E+05 days

2492 Date: 02/14/07 Time: 09:40:30 CPU Time: 0 0: 1:35.50 (95.50 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.654045E+05 days
2495 Date: 02/14/07 Time: 09:40:36 CPU Time: 0 0: 1:41.29 (101.29 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 3.660244E+05 days
2498 Date: 02/14/07 Time: 09:40:43 CPU Time: 0 0: 1:48.20 (108.20 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.667476E+05 days
2501 Date: 02/14/07 Time: 09:40:45 CPU Time: 0 0: 1:50.51 (110.51 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 3.668694E+05 days
2504 Date: 02/14/07 Time: 09:40:48 CPU Time: 0 0: 1:52.90 (112.90 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 3.774372E+05 days
2507 Date: 02/14/07 Time: 09:40:53 CPU Time: 0 0: 1:58.07 (118.07 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 3.796809E+05 days
2510 Date: 02/14/07 Time: 09:40:59 CPU Time: 0 0: 2: 4.43 (124.43 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 3.859590E+05 days
2513 Date: 02/14/07 Time: 09:41:04 CPU Time: 0 0: 2: 8.84 (128.84 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 4.871131E+05 days
2516 Date: 02/14/07 Time: 09:41:13 CPU Time: 0 0: 2:17.71 (137.71 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 4.930836E+05 days
2519 Date: 02/14/07 Time: 09:41:19 CPU Time: 0 0: 2:23.87 (143.87 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 5.535964E+05 days
2522 Date: 02/14/07 Time: 09:41:26 CPU Time: 0 0: 2:30.76 (150.76 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 5.724872E+05 days
2525 Date: 02/14/07 Time: 09:41:34 CPU Time: 0 0: 2:39.44 (159.44 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 5.734498E+05 days
2528 Date: 02/14/07 Time: 09:41:40 CPU Time: 0 0: 2:44.75 (164.75 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 5.775623E+05 days
2531 Date: 02/14/07 Time: 09:41:46 CPU Time: 0 0: 2:50.32 (170.32 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 6.407566E+05 days
2534 Date: 02/14/07 Time: 09:41:53 CPU Time: 0 0: 2:57.55 (177.55 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 6.744634E+05 days
2537 Date: 02/14/07 Time: 09:42:02 CPU Time: 0 0: 3: 6.29 (186.29 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 6.751089E+05 days
2540 Date: 02/14/07 Time: 09:42:05 CPU Time: 0 0: 3: 9.80 (189.80 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 6.764870E+05 days
2543 Date: 02/14/07 Time: 09:42:14 CPU Time: 0 0: 3:18.46 (198.46 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 6.800027E+05 days
2546 Date: 02/14/07 Time: 09:42:19 CPU Time: 0 0: 3:23.52 (203.52 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 6.830843E+05 days
2549 Date: 02/14/07 Time: 09:42:23 CPU Time: 0 0: 3:27.71 (207.71 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 7.863709E+05 days
2552 Date: 02/14/07 Time: 09:42:30 CPU Time: 0 0: 3:34.43 (214.43 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 8.205738E+05 days
2555 Date: 02/14/07 Time: 09:42:36 CPU Time: 0 0: 3:40.39 (220.39 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 8.371328E+05 days
2558 Date: 02/14/07 Time: 09:42:43 CPU Time: 0 0: 3:48.11 (228.11 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 9.542887E+05 days
2561 Date: 02/14/07 Time: 09:42:51 CPU Time: 0 0: 3:55.91 (235.91 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 9.666332E+05 days
2564 Date: 02/14/07 Time: 09:42:58 CPU Time: 0 0: 4: 2.50 (242.50 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 9.777098E+05 days
2567 Date: 02/14/07 Time: 09:43:03 CPU Time: 0 0: 4: 7.38 (247.38 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.062787E+06 days
2570 Date: 02/14/07 Time: 09:43:10 CPU Time: 0 0: 4:15.04 (255.04 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.075840E+06 days
2573 Date: 02/14/07 Time: 09:43:18 CPU Time: 0 0: 4:22.63 (262.63 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.078336E+06 days
2576 Date: 02/14/07 Time: 09:43:24 CPU Time: 0 0: 4:28.19 (268.19 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.145474E+06 days
2579 Date: 02/14/07 Time: 09:43:30 CPU Time: 0 0: 4:34.42 (274.42 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.476967E+06 days
2582 Date: 02/14/07 Time: 09:43:38 CPU Time: 0 0: 4:42.58 (282.58 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.647571E+06 days
2585 Date: 02/14/07 Time: 09:43:47 CPU Time: 0 0: 4:51.06 (291.06 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 1.741394E+06 days
2588 Date: 02/14/07 Time: 09:43:56 CPU Time: 0 0: 5: 0.29 (300.29 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.760200E+06 days
2591 Date: 02/14/07 Time: 09:44:04 CPU Time: 0 0: 5: 8.46 (308.46 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.854061E+06 days
2594 Date: 02/14/07 Time: 09:44:09 CPU Time: 0 0: 5:13.90 (313.90 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.147313E+06 days
2597 Date: 02/14/07 Time: 09:44:18 CPU Time: 0 0: 5:22.32 (322.32 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 2.431481E+06 days
2600 Date: 02/14/07 Time: 09:44:27 CPU Time: 0 0: 5:31.82 (331.82 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 2.490074E+06 days
2603 Date: 02/14/07 Time: 09:44:36 CPU Time: 0 0: 5:40.41 (340.41 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 2.690910E+06 days

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2606 Date: 02/14/07 Time: 09:44:47 CPU Time: 0 0: 5:51.68 ( 351.68 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 3.089099E+06 days
2609 Date: 02/14/07 Time: 09:44:56 CPU Time: 0 0: 6: 0.22 ( 360.22 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 3.293784E+06 days
2612 Date: 02/14/07 Time: 09:45:10 CPU Time: 0 0: 6:14.52 ( 374.52 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 3.347981E+06 days
2615 Date: 02/14/07 Time: 09:45:16 CPU Time: 0 0: 6:20.25 ( 380.25 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 3.418348E+06 days
2618 Date: 02/14/07 Time: 09:45:25 CPU Time: 0 0: 6:29.47 ( 389.47 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 3.499859E+06 days
2621 Date: 02/14/07 Time: 09:45:34 CPU Time: 0 0: 6:38.23 ( 398.23 sec) Binary
2624 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
2640 CPU Time (this time step) = 0.29 sec = 0.00008 hr
2641 CPU Time (total for run) = 343.52 sec = 0.09542 hr
2642 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
2640 CPU Time (this time step) = 0.34 sec = 0.00009 hr
2641 CPU Time (total for run) = 402.27 sec = 0.11174 hr
2642 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
3318 Date: 02/14/07 Time: 10:38:42 CPU Time: 0 0: 5:43.53 ( 343.53 sec) ASCII
3320 Time Step No. = 1254 Elapsed Time = 3.652431E+06 days
3321 Date: 02/14/07 Time: 10:38:42 CPU Time: 0 0: 5:43.54 ( 343.54 sec) Binary
3326 *****
3327 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3328 * Completed: 02/14/07 at 10:38:42 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
3329 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
3318 Date: 02/14/07 Time: 09:45:38 CPU Time: 0 0: 6:42.29 ( 402.29 sec) ASCII
3320 Time Step No. = 1254 Elapsed Time = 3.652431E+06 days
3321 Date: 02/14/07 Time: 09:45:38 CPU Time: 0 0: 6:42.29 ( 402.29 sec) Binary
3326 *****
3327 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3328 * Completed: 02/14/07 at 09:45:38 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3329 *****
*****
Number of difference sections found: 11
Number of difference records found: 132
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
```

BF2_QB0600_ES45_TEST7_V003_OUT.DIF

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*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
3 ** Begun on: 02/14/07 at 10:33:00 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
3 ** Begun on: 02/14/07 at 09:38:59 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_TEST7_V003.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
```

```
66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
1772 CPU Time (this time step) = 0.11 sec = 0.00003 hr
1773 CPU Time (total for run) = 19.48 sec = 0.00541 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
1772 CPU Time (this time step) = 0.14 sec = 0.00004 hr
1773 CPU Time (total for run) = 23.62 sec = 0.00656 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
2450 Date: 02/14/07 Time: 10:33:20 CPU Time: 0 0: 0:19.50 ( 19.50 sec) ASCII
2452 Time Step No. = 131 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:33:20 CPU Time: 0 0: 0:19.50 ( 19.50 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 1.290116E-01 days
2456 Date: 02/14/07 Time: 10:33:21 CPU Time: 0 0: 0:21.18 ( 21.18 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 7.082940E+00 days
2459 Date: 02/14/07 Time: 10:33:24 CPU Time: 0 0: 0:23.79 ( 23.79 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 2.340221E+02 days
2462 Date: 02/14/07 Time: 10:33:27 CPU Time: 0 0: 0:27.15 ( 27.15 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 2.227802E+03 days
2465 Date: 02/14/07 Time: 10:33:31 CPU Time: 0 0: 0:31.17 ( 31.17 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 2.172601E+04 days
2468 Date: 02/14/07 Time: 10:33:38 CPU Time: 0 0: 0:37.54 ( 37.54 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.652431E+04 days
2471 Date: 02/14/07 Time: 10:33:49 CPU Time: 0 0: 0:48.60 ( 48.60 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.652431E+04 days
2474 Date: 02/14/07 Time: 10:33:51 CPU Time: 0 0: 0:51.04 ( 51.04 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.652436E+04 days
2477 Date: 02/14/07 Time: 10:33:54 CPU Time: 0 0: 0:53.88 ( 53.88 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.652878E+04 days
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2480 Date: 02/14/07 Time: 10:33:57 CPU Time: 0 0: 0:56.77 (56.77 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.664309E+04 days
2483 Date: 02/14/07 Time: 10:34:01 CPU Time: 0 0: 1: 1.27 (61.27 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 3.666734E+04 days
2486 Date: 02/14/07 Time: 10:34:03 CPU Time: 0 0: 1: 2.76 (62.76 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.683266E+04 days
2489 Date: 02/14/07 Time: 10:34:06 CPU Time: 0 0: 1: 6.01 (66.01 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 4.360968E+04 days
2492 Date: 02/14/07 Time: 10:34:10 CPU Time: 0 0: 1: 9.70 (69.70 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 1.385826E+05 days
2495 Date: 02/14/07 Time: 10:34:18 CPU Time: 0 0: 1:17.68 (77.68 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 1.471271E+05 days
2498 Date: 02/14/07 Time: 10:34:26 CPU Time: 0 0: 1:26.18 (86.18 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 1.527317E+05 days
2501 Date: 02/14/07 Time: 10:34:32 CPU Time: 0 0: 1:31.76 (91.76 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 1.710125E+05 days
2504 Date: 02/14/07 Time: 10:34:39 CPU Time: 0 0: 1:38.71 (98.71 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 2.573034E+05 days
2507 Date: 02/14/07 Time: 10:34:48 CPU Time: 0 0: 1:47.58 (107.58 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 2.971722E+05 days
2510 Date: 02/14/07 Time: 10:34:56 CPU Time: 0 0: 1:55.77 (115.77 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 3.652468E+05 days
2513 Date: 02/14/07 Time: 10:35:01 CPU Time: 0 0: 2: 0.79 (120.79 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 3.653773E+05 days
2516 Date: 02/14/07 Time: 10:35:06 CPU Time: 0 0: 2: 5.62 (125.62 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 3.659289E+05 days
2519 Date: 02/14/07 Time: 10:35:13 CPU Time: 0 0: 2:12.06 (132.06 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 3.665472E+05 days
2522 Date: 02/14/07 Time: 10:35:15 CPU Time: 0 0: 2:14.11 (134.11 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 3.666447E+05 days
2525 Date: 02/14/07 Time: 10:35:17 CPU Time: 0 0: 2:15.70 (135.70 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 3.703658E+05 days
2528 Date: 02/14/07 Time: 10:35:22 CPU Time: 0 0: 2:20.62 (140.62 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.798337E+05 days
2531 Date: 02/14/07 Time: 10:35:30 CPU Time: 0 0: 2:29.19 (149.19 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.939257E+05 days
2534 Date: 02/14/07 Time: 10:35:37 CPU Time: 0 0: 2:35.96 (155.96 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 3.962038E+05 days
2537 Date: 02/14/07 Time: 10:35:43 CPU Time: 0 0: 2:42.04 (162.04 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 4.052779E+05 days
2540 Date: 02/14/07 Time: 10:35:48 CPU Time: 0 0: 2:46.54 (166.54 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 4.063093E+05 days
2543 Date: 02/14/07 Time: 10:35:53 CPU Time: 0 0: 2:52.41 (172.41 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 4.122326E+05 days
2546 Date: 02/14/07 Time: 10:36:00 CPU Time: 0 0: 2:58.96 (178.96 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 4.197205E+05 days
2549 Date: 02/14/07 Time: 10:36:05 CPU Time: 0 0: 3: 3.85 (183.85 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 4.477240E+05 days
2552 Date: 02/14/07 Time: 10:36:12 CPU Time: 0 0: 3:10.63 (190.63 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 5.300302E+05 days
2555 Date: 02/14/07 Time: 10:36:19 CPU Time: 0 0: 3:17.97 (197.97 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 6.962797E+05 days
2558 Date: 02/14/07 Time: 10:36:26 CPU Time: 0 0: 3:25.37 (205.37 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 6.976745E+05 days
2561 Date: 02/14/07 Time: 10:36:32 CPU Time: 0 0: 3:30.32 (210.32 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 7.510302E+05 days
2564 Date: 02/14/07 Time: 10:36:38 CPU Time: 0 0: 3:36.33 (216.33 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 1.039742E+06 days
2567 Date: 02/14/07 Time: 10:36:44 CPU Time: 0 0: 3:42.76 (222.76 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.429742E+06 days
2570 Date: 02/14/07 Time: 10:36:50 CPU Time: 0 0: 3:48.52 (228.52 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.739749E+06 days
2573 Date: 02/14/07 Time: 10:36:57 CPU Time: 0 0: 3:55.76 (235.76 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 2.139749E+06 days
2576 Date: 02/14/07 Time: 10:37:02 CPU Time: 0 0: 4: 0.49 (240.49 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 2.507874E+06 days
2579 Date: 02/14/07 Time: 10:37:08 CPU Time: 0 0: 4: 6.25 (246.25 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 2.775406E+06 days
2582 Date: 02/14/07 Time: 10:37:13 CPU Time: 0 0: 4:11.68 (251.68 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 3.175406E+06 days
2585 Date: 02/14/07 Time: 10:37:18 CPU Time: 0 0: 4:16.63 (256.63 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 3.365099E+06 days
2588 Date: 02/14/07 Time: 10:37:26 CPU Time: 0 0: 4:24.05 (264.05 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 3.632948E+06 days
2591 Date: 02/14/07 Time: 10:37:32 CPU Time: 0 0: 4:30.39 (270.39 sec) Binary
2594 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA: [ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
2450 Date: 02/14/07 Time: 09:39:23 CPU Time: 0 0: 0:23.63 (23.63 sec) ASCII
2452 Time Step No. = 131 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:39:23 CPU Time: 0 0: 0:23.63 (23.63 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 1.290116E-01 days
2456 Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:25.67 (25.67 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 7.082940E+00 days
2459 Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:28.88 (28.88 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 2.340221E+02 days
2462 Date: 02/14/07 Time: 09:39:33 CPU Time: 0 0: 0:33.00 (33.00 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 2.227802E+03 days
2465 Date: 02/14/07 Time: 09:39:37 CPU Time: 0 0: 0:37.92 (37.92 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 2.172601E+04 days
2468 Date: 02/14/07 Time: 09:39:45 CPU Time: 0 0: 0:45.69 (45.69 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.652431E+04 days
2471 Date: 02/14/07 Time: 09:39:59 CPU Time: 0 0: 0:59.17 (59.17 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.652431E+04 days
2474 Date: 02/14/07 Time: 09:40:02 CPU Time: 0 0: 1: 2.14 (62.14 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.652436E+04 days
2477 Date: 02/14/07 Time: 09:40:05 CPU Time: 0 0: 1: 5.32 (65.32 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.652878E+04 days
2480 Date: 02/14/07 Time: 09:40:08 CPU Time: 0 0: 1: 8.54 (68.54 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.664309E+04 days
2483 Date: 02/14/07 Time: 09:40:13 CPU Time: 0 0: 1:13.49 (73.49 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 3.666734E+04 days
2486 Date: 02/14/07 Time: 09:40:15 CPU Time: 0 0: 1:15.14 (75.14 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.683266E+04 days
2489 Date: 02/14/07 Time: 09:40:18 CPU Time: 0 0: 1:18.69 (78.69 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 4.360968E+04 days
2492 Date: 02/14/07 Time: 09:40:23 CPU Time: 0 0: 1:23.08 (83.08 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 1.385826E+05 days
2495 Date: 02/14/07 Time: 09:40:32 CPU Time: 0 0: 1:32.44 (92.44 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 1.471271E+05 days
2498 Date: 02/14/07 Time: 09:40:42 CPU Time: 0 0: 1:42.55 (102.55 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 1.527317E+05 days
2501 Date: 02/14/07 Time: 09:40:49 CPU Time: 0 0: 1:49.23 (109.23 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 1.710125E+05 days
2504 Date: 02/14/07 Time: 09:40:57 CPU Time: 0 0: 1:57.52 (117.52 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 2.573034E+05 days
2507 Date: 02/14/07 Time: 09:41:08 CPU Time: 0 0: 2: 8.15 (128.15 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 2.971722E+05 days
2510 Date: 02/14/07 Time: 09:41:18 CPU Time: 0 0: 2:18.14 (138.14 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 3.652468E+05 days
2513 Date: 02/14/07 Time: 09:41:24 CPU Time: 0 0: 2:24.26 (144.26 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 3.653773E+05 days
2516 Date: 02/14/07 Time: 09:41:30 CPU Time: 0 0: 2:30.18 (150.18 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 3.659289E+05 days
2519 Date: 02/14/07 Time: 09:41:38 CPU Time: 0 0: 2:38.04 (158.04 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 3.665472E+05 days
2522 Date: 02/14/07 Time: 09:41:41 CPU Time: 0 0: 2:40.56 (160.56 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 3.666447E+05 days
2525 Date: 02/14/07 Time: 09:41:43 CPU Time: 0 0: 2:42.53 (162.53 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 3.703658E+05 days
2528 Date: 02/14/07 Time: 09:41:49 CPU Time: 0 0: 2:48.51 (168.51 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.798337E+05 days
2531 Date: 02/14/07 Time: 09:41:59 CPU Time: 0 0: 2:58.94 (178.94 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.939257E+05 days
2534 Date: 02/14/07 Time: 09:42:08 CPU Time: 0 0: 3: 7.22 (187.22 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 3.962038E+05 days
2537 Date: 02/14/07 Time: 09:42:15 CPU Time: 0 0: 3:14.65 (194.65 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 4.052779E+05 days
2540 Date: 02/14/07 Time: 09:42:21 CPU Time: 0 0: 3:20.17 (200.17 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 4.063093E+05 days
2543 Date: 02/14/07 Time: 09:42:28 CPU Time: 0 0: 3:27.30 (207.30 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 4.122326E+05 days
2546 Date: 02/14/07 Time: 09:42:36 CPU Time: 0 0: 3:35.27 (215.27 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 4.197205E+05 days
2549 Date: 02/14/07 Time: 09:42:42 CPU Time: 0 0: 3:41.21 (221.21 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 4.477240E+05 days
2552 Date: 02/14/07 Time: 09:42:50 CPU Time: 0 0: 3:49.50 (229.50 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 5.300302E+05 days
2555 Date: 02/14/07 Time: 09:42:59 CPU Time: 0 0: 3:58.42 (238.42 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 6.962797E+05 days
2558 Date: 02/14/07 Time: 09:43:08 CPU Time: 0 0: 4: 7.46 (247.46 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 6.976745E+05 days

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2561 Date: 02/14/07 Time: 09:43:14 CPU Time: 0 0: 4:13.51 ( 253.51 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 7.510302E+05 days
2564 Date: 02/14/07 Time: 09:43:22 CPU Time: 0 0: 4:20.80 ( 260.80 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 1.039742E+06 days
2567 Date: 02/14/07 Time: 09:43:29 CPU Time: 0 0: 4:28.62 ( 268.62 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.429742E+06 days
2570 Date: 02/14/07 Time: 09:43:36 CPU Time: 0 0: 4:35.61 ( 275.61 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.739749E+06 days
2573 Date: 02/14/07 Time: 09:43:45 CPU Time: 0 0: 4:44.43 ( 284.43 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 2.139749E+06 days
2576 Date: 02/14/07 Time: 09:43:51 CPU Time: 0 0: 4:50.23 ( 290.23 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 2.507874E+06 days
2579 Date: 02/14/07 Time: 09:43:58 CPU Time: 0 0: 4:57.30 ( 297.30 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 2.775406E+06 days
2582 Date: 02/14/07 Time: 09:44:05 CPU Time: 0 0: 5: 3.90 ( 303.90 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 3.175406E+06 days
2585 Date: 02/14/07 Time: 09:44:11 CPU Time: 0 0: 5: 9.97 ( 309.97 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 3.365099E+06 days
2588 Date: 02/14/07 Time: 09:44:20 CPU Time: 0 0: 5:19.00 ( 319.00 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 3.632948E+06 days
2591 Date: 02/14/07 Time: 09:44:27 CPU Time: 0 0: 5:26.37 ( 326.37 sec) Binary
2594 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
2610 CPU Time (this time step) = 0.18 sec = 0.00005 hr
2611 CPU Time (total for run) = 270.80 sec = 0.07522 hr
2612 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
2610 CPU Time (this time step) = 0.20 sec = 0.00006 hr
2611 CPU Time (total for run) = 326.84 sec = 0.09079 hr
2612 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
3288 Date: 02/14/07 Time: 10:37:33 CPU Time: 0 0: 4:30.80 ( 270.80 sec) ASCII
3290 Time Step No. = 1042 Elapsed Time = 3.652431E+06 days
3291 Date: 02/14/07 Time: 10:37:33 CPU Time: 0 0: 4:30.80 ( 270.80 sec) Binary
3296 *****
3297 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3298 * Completed: 02/14/07 at 10:37:33 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
3299 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
3288 Date: 02/14/07 Time: 09:44:28 CPU Time: 0 0: 5:26.85 ( 326.85 sec) ASCII
3290 Time Step No. = 1042 Elapsed Time = 3.652431E+06 days
3291 Date: 02/14/07 Time: 09:44:28 CPU Time: 0 0: 5:26.85 ( 326.85 sec) Binary
3296 *****
3297 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3298 * Completed: 02/14/07 at 09:44:28 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3299 *****
*****
Number of difference sections found: 11
Number of difference records found: 112
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
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BF2_QB0600_ES45_TEST7_V004_OUT.DIF

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*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
3 ** Begun on: 02/14/07 at 10:33:05 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
3 ** Begun on: 02/14/07 at 09:39:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
```

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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_TEST7_V004.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
1772 CPU Time (this time step) = 0.11 sec = 0.00003 hr
1773 CPU Time (total for run) = 18.62 sec = 0.00517 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 20.44 sec = 0.00568 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
2450 Date: 02/14/07 Time: 10:33:24 CPU Time: 0 0: 0:18.64 ( 18.64 sec) ASCII
2452 Time Step No. = 126 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:33:24 CPU Time: 0 0: 0:18.64 ( 18.64 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 4.883945E-01 days
2456 Date: 02/14/07 Time: 10:33:26 CPU Time: 0 0: 0:21.23 ( 21.23 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 4.387923E+01 days
2459 Date: 02/14/07 Time: 10:33:30 CPU Time: 0 0: 0:24.58 ( 24.58 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.702937E+03 days
2462 Date: 02/14/07 Time: 10:33:34 CPU Time: 0 0: 0:29.04 ( 29.04 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 2.885022E+04 days
```


2465 Date: 02/14/07 Time: 10:33:39 CPU Time: 0 0: 0:34.05 (34.05 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.655949E+04 days
2468 Date: 02/14/07 Time: 10:33:44 CPU Time: 0 0: 0:38.54 (38.54 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.665992E+04 days
2471 Date: 02/14/07 Time: 10:33:47 CPU Time: 0 0: 0:42.09 (42.09 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.668547E+04 days
2474 Date: 02/14/07 Time: 10:33:49 CPU Time: 0 0: 0:44.10 (44.10 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.890170E+04 days
2477 Date: 02/14/07 Time: 10:33:53 CPU Time: 0 0: 0:47.89 (47.89 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 7.425091E+04 days
2480 Date: 02/14/07 Time: 10:34:00 CPU Time: 0 0: 0:54.55 (54.55 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 7.693372E+04 days
2483 Date: 02/14/07 Time: 10:34:09 CPU Time: 0 0: 1: 3.66 (63.66 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 7.782328E+04 days
2486 Date: 02/14/07 Time: 10:34:12 CPU Time: 0 0: 1: 6.91 (66.91 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 8.389603E+04 days
2489 Date: 02/14/07 Time: 10:34:18 CPU Time: 0 0: 1:12.68 (72.68 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 1.126327E+05 days
2492 Date: 02/14/07 Time: 10:34:25 CPU Time: 0 0: 1:19.80 (79.80 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 1.247590E+05 days
2495 Date: 02/14/07 Time: 10:34:34 CPU Time: 0 0: 1:28.72 (88.72 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 1.251232E+05 days
2498 Date: 02/14/07 Time: 10:34:39 CPU Time: 0 0: 1:33.57 (93.57 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 1.256932E+05 days
2501 Date: 02/14/07 Time: 10:34:42 CPU Time: 0 0: 1:37.15 (97.15 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 1.297175E+05 days
2504 Date: 02/14/07 Time: 10:34:49 CPU Time: 0 0: 1:43.53 (103.53 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 1.536827E+05 days
2507 Date: 02/14/07 Time: 10:34:57 CPU Time: 0 0: 1:51.61 (111.61 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 1.675465E+05 days
2510 Date: 02/14/07 Time: 10:35:03 CPU Time: 0 0: 1:57.51 (117.51 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 1.683237E+05 days
2513 Date: 02/14/07 Time: 10:35:10 CPU Time: 0 0: 2: 4.99 (124.99 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 1.684494E+05 days
2516 Date: 02/14/07 Time: 10:35:14 CPU Time: 0 0: 2: 8.62 (128.62 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 1.714114E+05 days
2519 Date: 02/14/07 Time: 10:35:18 CPU Time: 0 0: 2:12.90 (132.90 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 2.172821E+05 days
2522 Date: 02/14/07 Time: 10:35:25 CPU Time: 0 0: 2:19.31 (139.31 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 2.418381E+05 days
2525 Date: 02/14/07 Time: 10:35:31 CPU Time: 0 0: 2:25.31 (145.31 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 2.946886E+05 days
2528 Date: 02/14/07 Time: 10:35:37 CPU Time: 0 0: 2:32.06 (152.06 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.455559E+05 days
2531 Date: 02/14/07 Time: 10:35:46 CPU Time: 0 0: 2:40.62 (160.62 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.475921E+05 days
2534 Date: 02/14/07 Time: 10:35:49 CPU Time: 0 0: 2:43.68 (163.68 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 3.652432E+05 days
2537 Date: 02/14/07 Time: 10:35:55 CPU Time: 0 0: 2:49.45 (169.45 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 3.652449E+05 days
2540 Date: 02/14/07 Time: 10:35:57 CPU Time: 0 0: 2:51.92 (171.92 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.653298E+05 days
2543 Date: 02/14/07 Time: 10:36:00 CPU Time: 0 0: 2:55.07 (175.07 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.665963E+05 days
2546 Date: 02/14/07 Time: 10:36:05 CPU Time: 0 0: 2:59.17 (179.17 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.666047E+05 days
2549 Date: 02/14/07 Time: 10:36:06 CPU Time: 0 0: 3: 0.71 (180.71 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.673309E+05 days
2552 Date: 02/14/07 Time: 10:36:09 CPU Time: 0 0: 3: 3.52 (183.52 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.829760E+05 days
2555 Date: 02/14/07 Time: 10:36:15 CPU Time: 0 0: 3: 9.46 (189.46 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 4.527294E+05 days
2558 Date: 02/14/07 Time: 10:36:22 CPU Time: 0 0: 3:16.68 (196.68 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 5.448080E+05 days
2561 Date: 02/14/07 Time: 10:36:28 CPU Time: 0 0: 3:22.73 (202.73 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 7.104959E+05 days
2564 Date: 02/14/07 Time: 10:36:35 CPU Time: 0 0: 3:29.13 (209.13 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 7.696672E+05 days
2567 Date: 02/14/07 Time: 10:36:41 CPU Time: 0 0: 3:35.03 (215.03 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.049399E+06 days
2570 Date: 02/14/07 Time: 10:36:46 CPU Time: 0 0: 3:40.80 (220.80 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.449399E+06 days
2573 Date: 02/14/07 Time: 10:36:52 CPU Time: 0 0: 3:46.63 (226.63 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.476205E+06 days
2576 Date: 02/14/07 Time: 10:37:01 CPU Time: 0 0: 3:55.21 (235.21 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.728036E+06 days

2579 Date: 02/14/07 Time: 10:37:07 CPU Time: 0 0: 4: 0.75 (240.75 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.780697E+06 days
2582 Date: 02/14/07 Time: 10:37:13 CPU Time: 0 0: 4: 6.86 (246.86 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.892708E+06 days
2585 Date: 02/14/07 Time: 10:37:21 CPU Time: 0 0: 4:14.65 (254.65 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 2.135160E+06 days
2588 Date: 02/14/07 Time: 10:37:26 CPU Time: 0 0: 4:20.42 (260.42 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 2.460527E+06 days
2591 Date: 02/14/07 Time: 10:37:33 CPU Time: 0 0: 4:26.65 (266.65 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 2.586092E+06 days
2594 Date: 02/14/07 Time: 10:37:39 CPU Time: 0 0: 4:32.59 (272.59 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.799611E+06 days
2597 Date: 02/14/07 Time: 10:37:46 CPU Time: 0 0: 4:39.59 (279.59 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 3.059226E+06 days
2600 Date: 02/14/07 Time: 10:37:55 CPU Time: 0 0: 4:49.27 (289.27 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 3.185608E+06 days
2603 Date: 02/14/07 Time: 10:38:01 CPU Time: 0 0: 4:54.71 (294.71 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 3.288161E+06 days
2606 Date: 02/14/07 Time: 10:38:08 CPU Time: 0 0: 5: 1.84 (301.84 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 3.615101E+06 days
2609 Date: 02/14/07 Time: 10:38:12 CPU Time: 0 0: 5: 6.13 (306.13 sec) Binary
2612 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1

2450 Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:20.46 (20.46 sec) ASCII
2452 Time Step No. = 126 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:20.46 (20.46 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 4.883945E-01 days
2456 Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:23.30 (23.30 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 4.387923E+01 days
2459 Date: 02/14/07 Time: 09:39:32 CPU Time: 0 0: 0:26.98 (26.98 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.702937E+03 days
2462 Date: 02/14/07 Time: 09:39:37 CPU Time: 0 0: 0:32.01 (32.01 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 2.885022E+04 days
2465 Date: 02/14/07 Time: 09:39:42 CPU Time: 0 0: 0:37.91 (37.91 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.655949E+04 days
2468 Date: 02/14/07 Time: 09:39:48 CPU Time: 0 0: 0:43.22 (43.22 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.665992E+04 days
2471 Date: 02/14/07 Time: 09:39:52 CPU Time: 0 0: 0:47.32 (47.32 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.668547E+04 days
2474 Date: 02/14/07 Time: 09:39:54 CPU Time: 0 0: 0:49.54 (49.54 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.890170E+04 days
2477 Date: 02/14/07 Time: 09:39:58 CPU Time: 0 0: 0:53.73 (53.73 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 7.425091E+04 days
2480 Date: 02/14/07 Time: 09:40:06 CPU Time: 0 0: 1: 1.30 (61.30 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 7.693372E+04 days
2483 Date: 02/14/07 Time: 09:40:17 CPU Time: 0 0: 1:11.97 (71.97 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 7.782328E+04 days
2486 Date: 02/14/07 Time: 09:40:20 CPU Time: 0 0: 1:15.67 (75.67 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 8.389603E+04 days
2489 Date: 02/14/07 Time: 09:40:27 CPU Time: 0 0: 1:22.09 (82.09 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 1.126327E+05 days
2492 Date: 02/14/07 Time: 09:40:35 CPU Time: 0 0: 1:30.02 (90.02 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 1.247590E+05 days
2495 Date: 02/14/07 Time: 09:40:45 CPU Time: 0 0: 1:40.18 (100.18 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 1.251232E+05 days
2498 Date: 02/14/07 Time: 09:40:51 CPU Time: 0 0: 1:45.73 (105.73 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 1.256932E+05 days
2501 Date: 02/14/07 Time: 09:40:55 CPU Time: 0 0: 1:49.83 (109.83 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 1.297175E+05 days
2504 Date: 02/14/07 Time: 09:41:02 CPU Time: 0 0: 1:57.23 (117.23 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 1.536827E+05 days
2507 Date: 02/14/07 Time: 09:41:12 CPU Time: 0 0: 2: 6.75 (126.75 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 1.675465E+05 days
2510 Date: 02/14/07 Time: 09:41:19 CPU Time: 0 0: 2:13.69 (133.69 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 1.683237E+05 days
2513 Date: 02/14/07 Time: 09:41:27 CPU Time: 0 0: 2:22.46 (142.46 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 1.684494E+05 days
2516 Date: 02/14/07 Time: 09:41:32 CPU Time: 0 0: 2:26.63 (146.63 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 1.714114E+05 days
2519 Date: 02/14/07 Time: 09:41:36 CPU Time: 0 0: 2:31.45 (151.45 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 2.172821E+05 days
2522 Date: 02/14/07 Time: 09:41:44 CPU Time: 0 0: 2:38.78 (158.78 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 2.418381E+05 days
2525 Date: 02/14/07 Time: 09:41:51 CPU Time: 0 0: 2:45.64 (165.64 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 2.946886E+05 days

2528 Date: 02/14/07 Time: 09:41:59 CPU Time: 0 0: 2:53.36 (173.36 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.455559E+05 days
2531 Date: 02/14/07 Time: 09:42:09 CPU Time: 0 0: 3: 3.15 (183.15 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.475921E+05 days
2534 Date: 02/14/07 Time: 09:42:12 CPU Time: 0 0: 3: 6.67 (186.67 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 3.652432E+05 days
2537 Date: 02/14/07 Time: 09:42:19 CPU Time: 0 0: 3:13.28 (193.28 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 3.652449E+05 days
2540 Date: 02/14/07 Time: 09:42:22 CPU Time: 0 0: 3:16.15 (196.15 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.653298E+05 days
2543 Date: 02/14/07 Time: 09:42:25 CPU Time: 0 0: 3:19.79 (199.79 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.665963E+05 days
2546 Date: 02/14/07 Time: 09:42:30 CPU Time: 0 0: 3:24.49 (204.49 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.666047E+05 days
2549 Date: 02/14/07 Time: 09:42:32 CPU Time: 0 0: 3:26.28 (206.28 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.673309E+05 days
2552 Date: 02/14/07 Time: 09:42:35 CPU Time: 0 0: 3:29.52 (209.52 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.829760E+05 days
2555 Date: 02/14/07 Time: 09:42:42 CPU Time: 0 0: 3:36.31 (216.31 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 4.527294E+05 days
2558 Date: 02/14/07 Time: 09:42:50 CPU Time: 0 0: 3:44.55 (224.55 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 5.448080E+05 days
2561 Date: 02/14/07 Time: 09:42:57 CPU Time: 0 0: 3:51.49 (231.49 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 7.104959E+05 days
2564 Date: 02/14/07 Time: 09:43:04 CPU Time: 0 0: 3:58.81 (238.81 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 7.696672E+05 days
2567 Date: 02/14/07 Time: 09:43:11 CPU Time: 0 0: 4: 5.53 (245.53 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.049399E+06 days
2570 Date: 02/14/07 Time: 09:43:18 CPU Time: 0 0: 4:12.10 (252.10 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.449399E+06 days
2573 Date: 02/14/07 Time: 09:43:24 CPU Time: 0 0: 4:18.48 (258.48 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.476205E+06 days
2576 Date: 02/14/07 Time: 09:43:33 CPU Time: 0 0: 4:27.88 (267.88 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.728036E+06 days
2579 Date: 02/14/07 Time: 09:43:40 CPU Time: 0 0: 4:33.93 (273.93 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.780697E+06 days
2582 Date: 02/14/07 Time: 09:43:46 CPU Time: 0 0: 4:40.61 (280.61 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.892708E+06 days
2585 Date: 02/14/07 Time: 09:43:55 CPU Time: 0 0: 4:49.13 (289.13 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 2.135160E+06 days
2588 Date: 02/14/07 Time: 09:44:01 CPU Time: 0 0: 4:55.44 (295.44 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 2.460527E+06 days
2591 Date: 02/14/07 Time: 09:44:08 CPU Time: 0 0: 5: 2.26 (302.26 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 2.586092E+06 days
2594 Date: 02/14/07 Time: 09:44:14 CPU Time: 0 0: 5: 8.69 (308.69 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.799611E+06 days
2597 Date: 02/14/07 Time: 09:44:22 CPU Time: 0 0: 5:16.31 (316.31 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 3.059226E+06 days
2600 Date: 02/14/07 Time: 09:44:32 CPU Time: 0 0: 5:26.84 (326.84 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 3.185608E+06 days
2603 Date: 02/14/07 Time: 09:44:38 CPU Time: 0 0: 5:32.76 (332.76 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 3.288161E+06 days
2606 Date: 02/14/07 Time: 09:44:47 CPU Time: 0 0: 5:40.87 (340.87 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 3.615101E+06 days
2609 Date: 02/14/07 Time: 09:44:51 CPU Time: 0 0: 5:45.77 (345.77 sec) Binary
2612 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
2628 CPU Time (this time step) = 0.24 sec = 0.00007 hr
2629 CPU Time (total for run) = 306.60 sec = 0.08517 hr
2630 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
2628 CPU Time (this time step) = 0.27 sec = 0.00007 hr
2629 CPU Time (total for run) = 346.30 sec = 0.09619 hr
2630 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
3306 Date: 02/14/07 Time: 10:38:13 CPU Time: 0 0: 5: 6.62 (306.62 sec) ASCII
3308 Time Step No. = 1162 Elapsed Time = 3.652431E+06 days
3309 Date: 02/14/07 Time: 10:38:13 CPU Time: 0 0: 5: 6.62 (306.62 sec) Binary
3314 *****
3315 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3316 * Completed: 02/14/07 at 10:38:13 Run on: TDN - ALPHA AXP OpenVMS V8.2 *

```
3317 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
3306 Date: 02/14/07 Time: 09:44:52 CPU Time: 0 0: 5:46.32 ( 346.32 sec) ASCII
3308 Time Step No. = 1162 Elapsed Time = 3.652431E+06 days
3309 Date: 02/14/07 Time: 09:44:52 CPU Time: 0 0: 5:46.32 ( 346.32 sec) Binary
3314 *****
3315 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3316 * Completed: 02/14/07 at 09:44:52 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3317 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 124

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
```

BF2_QB0600_ES45_TEST7_V005_OUT.DIF

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*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
 3 ** Begun on: 02/14/07 at 10:37:38 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
 3 ** Begun on: 02/14/07 at 09:44:40 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_TEST7_V005.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.BIN;1
```

```
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
1772 CPU Time (this time step) = 0.11 sec = 0.00003 hr
1773 CPU Time (total for run) = 22.90 sec = 0.00636 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
1772 CPU Time (this time step) = 0.14 sec = 0.00004 hr
1773 CPU Time (total for run) = 25.47 sec = 0.00707 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
2450 Date: 02/14/07 Time: 10:38:01 CPU Time: 0 0: 0:22.92 ( 22.92 sec) ASCII
2452 Time Step No. = 155 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:38:01 CPU Time: 0 0: 0:22.92 ( 22.92 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 1.602936E-04 days
2456 Date: 02/14/07 Time: 10:38:03 CPU Time: 0 0: 0:24.46 ( 24.46 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 2.060139E-02 days
2459 Date: 02/14/07 Time: 10:38:06 CPU Time: 0 0: 0:27.02 ( 27.02 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 1.665882E+00 days
2462 Date: 02/14/07 Time: 10:38:08 CPU Time: 0 0: 0:29.88 ( 29.88 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 6.830542E+01 days
2465 Date: 02/14/07 Time: 10:38:12 CPU Time: 0 0: 0:33.03 ( 33.03 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 9.026859E+02 days
2468 Date: 02/14/07 Time: 10:38:16 CPU Time: 0 0: 0:37.57 ( 37.57 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 5.565489E+03 days
2471 Date: 02/14/07 Time: 10:38:22 CPU Time: 0 0: 0:43.26 ( 43.26 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 1.541474E+04 days
2474 Date: 02/14/07 Time: 10:38:30 CPU Time: 0 0: 0:50.99 ( 50.99 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 2.464433E+04 days
2477 Date: 02/14/07 Time: 10:38:36 CPU Time: 0 0: 0:57.62 ( 57.62 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 2.540653E+04 days
2480 Date: 02/14/07 Time: 10:38:42 CPU Time: 0 0: 1: 3.78 ( 63.78 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 2.583713E+04 days
2483 Date: 02/14/07 Time: 10:38:46 CPU Time: 0 0: 1: 6.96 ( 66.96 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 3.095805E+04 days
2486 Date: 02/14/07 Time: 10:38:52 CPU Time: 0 0: 1:13.34 ( 73.34 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 3.652922E+04 days
2489 Date: 02/14/07 Time: 10:39:00 CPU Time: 0 0: 1:21.58 ( 81.58 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 3.666828E+04 days
2492 Date: 02/14/07 Time: 10:39:04 CPU Time: 0 0: 1:25.22 ( 85.22 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 3.667257E+04 days
2495 Date: 02/14/07 Time: 10:39:06 CPU Time: 0 0: 1:26.80 ( 86.80 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 3.689196E+04 days
2498 Date: 02/14/07 Time: 10:39:09 CPU Time: 0 0: 1:30.27 ( 90.27 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 3.751198E+04 days
2501 Date: 02/14/07 Time: 10:39:14 CPU Time: 0 0: 1:35.21 ( 95.21 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 3.782453E+04 days
2504 Date: 02/14/07 Time: 10:39:17 CPU Time: 0 0: 1:38.28 ( 98.28 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 4.141513E+04 days
2507 Date: 02/14/07 Time: 10:39:23 CPU Time: 0 0: 1:44.11 ( 104.11 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 5.494758E+04 days
2510 Date: 02/14/07 Time: 10:39:31 CPU Time: 0 0: 1:51.57 ( 111.57 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 5.880383E+04 days
2513 Date: 02/14/07 Time: 10:39:37 CPU Time: 0 0: 1:58.09 ( 118.09 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 6.677868E+04 days
2516 Date: 02/14/07 Time: 10:39:45 CPU Time: 0 0: 2: 5.68 ( 125.68 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 7.749503E+04 days
2519 Date: 02/14/07 Time: 10:39:51 CPU Time: 0 0: 2:11.74 ( 131.74 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 8.560082E+04 days
2522 Date: 02/14/07 Time: 10:40:00 CPU Time: 0 0: 2:20.80 ( 140.80 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 8.561748E+04 days
2525 Date: 02/14/07 Time: 10:40:04 CPU Time: 0 0: 2:23.86 ( 143.86 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 8.706305E+04 days
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2528 Date: 02/14/07 Time: 10:40:08 CPU Time: 0 0: 2:27.79 (147.79 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 8.948916E+04 days
2531 Date: 02/14/07 Time: 10:40:13 CPU Time: 0 0: 2:33.36 (153.36 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 1.244434E+05 days
2534 Date: 02/14/07 Time: 10:40:21 CPU Time: 0 0: 2:41.39 (161.39 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 1.293962E+05 days
2537 Date: 02/14/07 Time: 10:40:29 CPU Time: 0 0: 2:49.17 (169.17 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 2.352116E+05 days
2540 Date: 02/14/07 Time: 10:40:36 CPU Time: 0 0: 2:56.12 (176.12 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 2.631586E+05 days
2543 Date: 02/14/07 Time: 10:40:45 CPU Time: 0 0: 3: 5.28 (185.28 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 2.692618E+05 days
2546 Date: 02/14/07 Time: 10:40:51 CPU Time: 0 0: 3:11.09 (191.09 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.652431E+05 days
2549 Date: 02/14/07 Time: 10:40:59 CPU Time: 0 0: 3:19.59 (199.59 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.652437E+05 days
2552 Date: 02/14/07 Time: 10:41:02 CPU Time: 0 0: 3:22.35 (202.35 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 3.652474E+05 days
2555 Date: 02/14/07 Time: 10:41:07 CPU Time: 0 0: 3:27.38 (207.38 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 3.654644E+05 days
2558 Date: 02/14/07 Time: 10:41:13 CPU Time: 0 0: 3:32.99 (212.99 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 3.661978E+05 days
2561 Date: 02/14/07 Time: 10:41:21 CPU Time: 0 0: 3:41.01 (221.01 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 3.665118E+05 days
2564 Date: 02/14/07 Time: 10:41:26 CPU Time: 0 0: 3:46.18 (226.18 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 3.665161E+05 days
2567 Date: 02/14/07 Time: 10:41:28 CPU Time: 0 0: 3:48.12 (228.12 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 3.666517E+05 days
2570 Date: 02/14/07 Time: 10:41:33 CPU Time: 0 0: 3:53.04 (233.04 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 3.669134E+05 days
2573 Date: 02/14/07 Time: 10:41:40 CPU Time: 0 0: 3:59.73 (239.73 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 3.696042E+05 days
2576 Date: 02/14/07 Time: 10:41:47 CPU Time: 0 0: 4: 7.11 (247.11 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 3.704084E+05 days
2579 Date: 02/14/07 Time: 10:41:54 CPU Time: 0 0: 4:13.65 (253.65 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 3.707712E+05 days
2582 Date: 02/14/07 Time: 10:42:00 CPU Time: 0 0: 4:20.02 (260.02 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 3.722262E+05 days
2585 Date: 02/14/07 Time: 10:42:06 CPU Time: 0 0: 4:25.72 (265.72 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 3.909424E+05 days
2588 Date: 02/14/07 Time: 10:42:14 CPU Time: 0 0: 4:33.72 (273.72 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 4.040932E+05 days
2591 Date: 02/14/07 Time: 10:42:19 CPU Time: 0 0: 4:38.25 (278.25 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 4.163997E+05 days
2594 Date: 02/14/07 Time: 10:42:27 CPU Time: 0 0: 4:46.26 (286.26 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 4.437624E+05 days
2597 Date: 02/14/07 Time: 10:42:31 CPU Time: 0 0: 4:50.92 (290.92 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 5.658621E+05 days
2600 Date: 02/14/07 Time: 10:42:38 CPU Time: 0 0: 4:58.03 (298.03 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 7.046705E+05 days
2603 Date: 02/14/07 Time: 10:42:45 CPU Time: 0 0: 5: 4.93 (304.93 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 7.381612E+05 days
2606 Date: 02/14/07 Time: 10:42:50 CPU Time: 0 0: 5: 9.58 (309.58 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 9.116476E+05 days
2609 Date: 02/14/07 Time: 10:42:58 CPU Time: 0 0: 5:17.83 (317.83 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 9.684741E+05 days
2612 Date: 02/14/07 Time: 10:43:06 CPU Time: 0 0: 5:25.60 (325.60 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 1.022758E+06 days
2615 Date: 02/14/07 Time: 10:43:13 CPU Time: 0 0: 5:32.46 (332.46 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 1.304477E+06 days
2618 Date: 02/14/07 Time: 10:43:21 CPU Time: 0 0: 5:39.94 (339.94 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 1.335824E+06 days
2621 Date: 02/14/07 Time: 10:43:27 CPU Time: 0 0: 5:46.61 (346.61 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 1.393919E+06 days
2624 Date: 02/14/07 Time: 10:43:36 CPU Time: 0 0: 5:54.92 (354.92 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 1.425600E+06 days
2627 Date: 02/14/07 Time: 10:43:44 CPU Time: 0 0: 6: 3.20 (363.20 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 1.580399E+06 days
2630 Date: 02/14/07 Time: 10:43:52 CPU Time: 0 0: 6:10.92 (370.92 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 1.602750E+06 days
2633 Date: 02/14/07 Time: 10:43:59 CPU Time: 0 0: 6:17.68 (377.68 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 1.806216E+06 days
2636 Date: 02/14/07 Time: 10:44:06 CPU Time: 0 0: 6:25.17 (385.17 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 1.891443E+06 days
2639 Date: 02/14/07 Time: 10:44:13 CPU Time: 0 0: 6:31.39 (391.39 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 2.031879E+06 days

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2642 Date: 02/14/07 Time: 10:44:22 CPU Time: 0 0: 6:40.44 ( 400.44 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 2.100194E+06 days
2645 Date: 02/14/07 Time: 10:44:26 CPU Time: 0 0: 6:45.02 ( 405.02 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 2.116698E+06 days
2648 Date: 02/14/07 Time: 10:44:35 CPU Time: 0 0: 6:53.45 ( 413.45 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 2.134148E+06 days
2651 Date: 02/14/07 Time: 10:44:43 CPU Time: 0 0: 7: 1.57 ( 421.57 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 2.145128E+06 days
2654 Date: 02/14/07 Time: 10:44:51 CPU Time: 0 0: 7: 9.32 ( 429.32 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 2.174866E+06 days
2657 Date: 02/14/07 Time: 10:44:58 CPU Time: 0 0: 7:16.07 ( 436.07 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 2.195982E+06 days
2660 Date: 02/14/07 Time: 10:45:04 CPU Time: 0 0: 7:22.37 ( 442.37 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 2.260984E+06 days
2663 Date: 02/14/07 Time: 10:45:12 CPU Time: 0 0: 7:30.09 ( 450.09 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 2.301705E+06 days
2666 Date: 02/14/07 Time: 10:45:18 CPU Time: 0 0: 7:36.51 ( 456.51 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 2.432519E+06 days
2669 Date: 02/14/07 Time: 10:45:25 CPU Time: 0 0: 7:43.22 ( 463.22 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 2.435587E+06 days
2672 Date: 02/14/07 Time: 10:45:33 CPU Time: 0 0: 7:51.12 ( 471.12 sec) Binary
2674 Time Step No. = 1620 Elapsed Time = 2.463476E+06 days
2675 Date: 02/14/07 Time: 10:45:37 CPU Time: 0 0: 7:55.06 ( 475.06 sec) Binary
2677 Time Step No. = 1640 Elapsed Time = 2.821366E+06 days
2678 Date: 02/14/07 Time: 10:45:42 CPU Time: 0 0: 8: 0.01 ( 480.01 sec) Binary
2680 Time Step No. = 1660 Elapsed Time = 2.999402E+06 days
2681 Date: 02/14/07 Time: 10:45:49 CPU Time: 0 0: 8: 7.60 ( 487.60 sec) Binary
2683 Time Step No. = 1680 Elapsed Time = 3.399402E+06 days
2684 Date: 02/14/07 Time: 10:45:54 CPU Time: 0 0: 8:12.33 ( 492.33 sec) Binary
2686 Time Step No. = 1700 Elapsed Time = 3.449911E+06 days
2687 Date: 02/14/07 Time: 10:46:07 CPU Time: 0 0: 8:24.58 ( 504.58 sec) Binary
2689 Time Step No. = 1720 Elapsed Time = 3.453010E+06 days
2690 Date: 02/14/07 Time: 10:46:16 CPU Time: 0 0: 8:33.64 ( 513.64 sec) Binary
2692 Time Step No. = 1740 Elapsed Time = 3.454154E+06 days
2693 Date: 02/14/07 Time: 10:46:21 CPU Time: 0 0: 8:38.66 ( 518.66 sec) Binary
2695 Time Step No. = 1760 Elapsed Time = 3.456469E+06 days
2696 Date: 02/14/07 Time: 10:46:28 CPU Time: 0 0: 8:46.33 ( 526.33 sec) Binary
2698 Time Step No. = 1780 Elapsed Time = 3.459213E+06 days
2699 Date: 02/14/07 Time: 10:46:36 CPU Time: 0 0: 8:53.79 ( 533.79 sec) Binary
2701 Time Step No. = 1800 Elapsed Time = 3.461847E+06 days
2702 Date: 02/14/07 Time: 10:46:43 CPU Time: 0 0: 9: 0.42 ( 540.42 sec) Binary
2704 Time Step No. = 1820 Elapsed Time = 3.465426E+06 days
2705 Date: 02/14/07 Time: 10:46:50 CPU Time: 0 0: 9: 7.73 ( 547.73 sec) Binary
2707 Time Step No. = 1840 Elapsed Time = 3.468037E+06 days
2708 Date: 02/14/07 Time: 10:46:58 CPU Time: 0 0: 9:16.24 ( 556.24 sec) Binary
2710 Time Step No. = 1860 Elapsed Time = 3.471327E+06 days
2711 Date: 02/14/07 Time: 10:47:06 CPU Time: 0 0: 9:24.28 ( 564.28 sec) Binary
2713 Time Step No. = 1880 Elapsed Time = 3.473863E+06 days
2714 Date: 02/14/07 Time: 10:47:14 CPU Time: 0 0: 9:32.21 ( 572.21 sec) Binary
2716 Time Step No. = 1900 Elapsed Time = 3.477561E+06 days
2717 Date: 02/14/07 Time: 10:47:23 CPU Time: 0 0: 9:41.01 ( 581.01 sec) Binary
2719 Time Step No. = 1920 Elapsed Time = 3.480469E+06 days
2720 Date: 02/14/07 Time: 10:47:32 CPU Time: 0 0: 9:49.53 ( 589.53 sec) Binary
2722 Time Step No. = 1940 Elapsed Time = 3.484165E+06 days
2723 Date: 02/14/07 Time: 10:47:40 CPU Time: 0 0: 9:57.40 ( 597.40 sec) Binary
2725 Time Step No. = 1960 Elapsed Time = 3.553867E+06 days
2726 Date: 02/14/07 Time: 10:47:44 CPU Time: 0 0:10: 1.77 ( 601.77 sec) Binary
2729 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
2450 Date: 02/14/07 Time: 09:45:06 CPU Time: 0 0: 0:25.49 ( 25.49 sec) ASCII
2452 Time Step No. = 155 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:45:06 CPU Time: 0 0: 0:25.50 ( 25.50 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 1.602936E-04 days
2456 Date: 02/14/07 Time: 09:45:07 CPU Time: 0 0: 0:27.35 ( 27.35 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 2.060139E-02 days
2459 Date: 02/14/07 Time: 09:45:11 CPU Time: 0 0: 0:30.48 ( 30.48 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 1.665882E+00 days
2462 Date: 02/14/07 Time: 09:45:14 CPU Time: 0 0: 0:33.96 ( 33.96 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 6.830542E+01 days
2465 Date: 02/14/07 Time: 09:45:18 CPU Time: 0 0: 0:37.78 ( 37.78 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 9.026859E+02 days
2468 Date: 02/14/07 Time: 09:45:23 CPU Time: 0 0: 0:43.13 ( 43.13 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 5.565489E+03 days
2471 Date: 02/14/07 Time: 09:45:30 CPU Time: 0 0: 0:49.76 ( 49.76 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 1.541474E+04 days
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2474 Date: 02/14/07 Time: 09:45:39 CPU Time: 0 0: 0:58.84 (58.84 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 2.464433E+04 days
2477 Date: 02/14/07 Time: 09:45:47 CPU Time: 0 0: 1: 6.56 (66.56 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 2.540653E+04 days
2480 Date: 02/14/07 Time: 09:45:54 CPU Time: 0 0: 1:13.95 (73.95 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 2.583713E+04 days
2483 Date: 02/14/07 Time: 09:45:58 CPU Time: 0 0: 1:17.79 (77.79 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 3.095805E+04 days
2486 Date: 02/14/07 Time: 09:46:06 CPU Time: 0 0: 1:25.40 (85.40 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 3.652922E+04 days
2489 Date: 02/14/07 Time: 09:46:15 CPU Time: 0 0: 1:34.85 (94.85 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 3.666828E+04 days
2492 Date: 02/14/07 Time: 09:46:19 CPU Time: 0 0: 1:39.07 (99.07 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 3.667257E+04 days
2495 Date: 02/14/07 Time: 09:46:21 CPU Time: 0 0: 1:40.93 (100.93 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 3.689196E+04 days
2498 Date: 02/14/07 Time: 09:46:25 CPU Time: 0 0: 1:45.02 (105.02 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 3.751198E+04 days
2501 Date: 02/14/07 Time: 09:46:31 CPU Time: 0 0: 1:50.87 (110.87 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 3.782453E+04 days
2504 Date: 02/14/07 Time: 09:46:35 CPU Time: 0 0: 1:54.50 (114.50 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 4.141513E+04 days
2507 Date: 02/14/07 Time: 09:46:42 CPU Time: 0 0: 2: 1.30 (121.30 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 5.494758E+04 days
2510 Date: 02/14/07 Time: 09:46:51 CPU Time: 0 0: 2:10.13 (130.13 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 5.880383E+04 days
2513 Date: 02/14/07 Time: 09:46:58 CPU Time: 0 0: 2:17.84 (137.84 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 6.677868E+04 days
2516 Date: 02/14/07 Time: 09:47:07 CPU Time: 0 0: 2:26.79 (146.79 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 7.749503E+04 days
2519 Date: 02/14/07 Time: 09:47:14 CPU Time: 0 0: 2:33.96 (153.96 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 8.560082E+04 days
2522 Date: 02/14/07 Time: 09:47:25 CPU Time: 0 0: 2:44.64 (164.64 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 8.561748E+04 days
2525 Date: 02/14/07 Time: 09:47:29 CPU Time: 0 0: 2:48.16 (168.16 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 8.706305E+04 days
2528 Date: 02/14/07 Time: 09:47:33 CPU Time: 0 0: 2:52.72 (172.72 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 8.948916E+04 days
2531 Date: 02/14/07 Time: 09:47:40 CPU Time: 0 0: 2:58.99 (178.99 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 1.244434E+05 days
2534 Date: 02/14/07 Time: 09:47:49 CPU Time: 0 0: 3: 8.21 (188.21 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 1.293962E+05 days
2537 Date: 02/14/07 Time: 09:47:58 CPU Time: 0 0: 3:17.38 (197.38 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 2.352116E+05 days
2540 Date: 02/14/07 Time: 09:48:06 CPU Time: 0 0: 3:25.58 (205.58 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 2.631586E+05 days
2543 Date: 02/14/07 Time: 09:48:17 CPU Time: 0 0: 3:36.36 (216.36 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 2.692618E+05 days
2546 Date: 02/14/07 Time: 09:48:24 CPU Time: 0 0: 3:43.24 (223.24 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.652431E+05 days
2549 Date: 02/14/07 Time: 09:48:34 CPU Time: 0 0: 3:53.23 (233.23 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.652437E+05 days
2552 Date: 02/14/07 Time: 09:48:37 CPU Time: 0 0: 3:56.50 (236.50 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 3.652474E+05 days
2555 Date: 02/14/07 Time: 09:48:43 CPU Time: 0 0: 4: 2.16 (242.16 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 3.654644E+05 days
2558 Date: 02/14/07 Time: 09:48:49 CPU Time: 0 0: 4: 8.40 (248.40 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 3.661978E+05 days
2561 Date: 02/14/07 Time: 09:48:58 CPU Time: 0 0: 4:17.21 (257.21 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 3.665118E+05 days
2564 Date: 02/14/07 Time: 09:49:04 CPU Time: 0 0: 4:22.90 (262.90 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 3.665161E+05 days
2567 Date: 02/14/07 Time: 09:49:06 CPU Time: 0 0: 4:25.15 (265.15 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 3.666517E+05 days
2570 Date: 02/14/07 Time: 09:49:12 CPU Time: 0 0: 4:30.82 (270.82 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 3.669134E+05 days
2573 Date: 02/14/07 Time: 09:49:19 CPU Time: 0 0: 4:38.50 (278.50 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 3.696042E+05 days
2576 Date: 02/14/07 Time: 09:49:28 CPU Time: 0 0: 4:47.16 (287.16 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 3.704084E+05 days
2579 Date: 02/14/07 Time: 09:49:36 CPU Time: 0 0: 4:54.86 (294.86 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 3.707712E+05 days
2582 Date: 02/14/07 Time: 09:49:43 CPU Time: 0 0: 5: 2.35 (302.35 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 3.722262E+05 days
2585 Date: 02/14/07 Time: 09:49:50 CPU Time: 0 0: 5: 9.10 (309.10 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 3.909424E+05 days

2588	Date: 02/14/07	Time: 09:50:00	CPU Time: 0 0: 5:18.53 (318.53 sec)	Binary
2590	Time Step No. = 1060	Elapsed Time = 4.040932E+05 days		
2591	Date: 02/14/07	Time: 09:50:05	CPU Time: 0 0: 5:23.87 (323.87 sec)	Binary
2593	Time Step No. = 1080	Elapsed Time = 4.163997E+05 days		
2594	Date: 02/14/07	Time: 09:50:14	CPU Time: 0 0: 5:33.29 (333.29 sec)	Binary
2596	Time Step No. = 1100	Elapsed Time = 4.437624E+05 days		
2597	Date: 02/14/07	Time: 09:50:20	CPU Time: 0 0: 5:38.85 (338.85 sec)	Binary
2599	Time Step No. = 1120	Elapsed Time = 5.658621E+05 days		
2600	Date: 02/14/07	Time: 09:50:28	CPU Time: 0 0: 5:47.25 (347.25 sec)	Binary
2602	Time Step No. = 1140	Elapsed Time = 7.046705E+05 days		
2603	Date: 02/14/07	Time: 09:50:36	CPU Time: 0 0: 5:55.37 (355.37 sec)	Binary
2605	Time Step No. = 1160	Elapsed Time = 7.381612E+05 days		
2606	Date: 02/14/07	Time: 09:50:42	CPU Time: 0 0: 6: 0.84 (360.84 sec)	Binary
2608	Time Step No. = 1180	Elapsed Time = 9.116476E+05 days		
2609	Date: 02/14/07	Time: 09:50:52	CPU Time: 0 0: 6:10.55 (370.55 sec)	Binary
2611	Time Step No. = 1200	Elapsed Time = 9.684741E+05 days		
2612	Date: 02/14/07	Time: 09:51:01	CPU Time: 0 0: 6:19.69 (379.69 sec)	Binary
2614	Time Step No. = 1220	Elapsed Time = 1.022758E+06 days		
2615	Date: 02/14/07	Time: 09:51:09	CPU Time: 0 0: 6:27.75 (387.75 sec)	Binary
2617	Time Step No. = 1240	Elapsed Time = 1.304477E+06 days		
2618	Date: 02/14/07	Time: 09:51:18	CPU Time: 0 0: 6:36.54 (396.54 sec)	Binary
2620	Time Step No. = 1260	Elapsed Time = 1.335824E+06 days		
2621	Date: 02/14/07	Time: 09:51:26	CPU Time: 0 0: 6:44.37 (404.37 sec)	Binary
2623	Time Step No. = 1280	Elapsed Time = 1.393919E+06 days		
2624	Date: 02/14/07	Time: 09:51:35	CPU Time: 0 0: 6:54.16 (414.16 sec)	Binary
2626	Time Step No. = 1300	Elapsed Time = 1.425600E+06 days		
2627	Date: 02/14/07	Time: 09:51:45	CPU Time: 0 0: 7: 3.87 (423.87 sec)	Binary
2629	Time Step No. = 1320	Elapsed Time = 1.580399E+06 days		
2630	Date: 02/14/07	Time: 09:51:54	CPU Time: 0 0: 7:12.96 (432.96 sec)	Binary
2632	Time Step No. = 1340	Elapsed Time = 1.602750E+06 days		
2633	Date: 02/14/07	Time: 09:52:02	CPU Time: 0 0: 7:20.92 (440.92 sec)	Binary
2635	Time Step No. = 1360	Elapsed Time = 1.806216E+06 days		
2636	Date: 02/14/07	Time: 09:52:11	CPU Time: 0 0: 7:29.74 (449.74 sec)	Binary
2638	Time Step No. = 1380	Elapsed Time = 1.891443E+06 days		
2639	Date: 02/14/07	Time: 09:52:18	CPU Time: 0 0: 7:37.11 (457.11 sec)	Binary
2641	Time Step No. = 1400	Elapsed Time = 2.031879E+06 days		
2642	Date: 02/14/07	Time: 09:52:29	CPU Time: 0 0: 7:47.71 (467.71 sec)	Binary
2644	Time Step No. = 1420	Elapsed Time = 2.100194E+06 days		
2645	Date: 02/14/07	Time: 09:52:34	CPU Time: 0 0: 7:53.12 (473.12 sec)	Binary
2647	Time Step No. = 1440	Elapsed Time = 2.116698E+06 days		
2648	Date: 02/14/07	Time: 09:52:44	CPU Time: 0 0: 8: 3.02 (483.02 sec)	Binary
2650	Time Step No. = 1460	Elapsed Time = 2.134148E+06 days		
2651	Date: 02/14/07	Time: 09:52:54	CPU Time: 0 0: 8:12.59 (492.59 sec)	Binary
2653	Time Step No. = 1480	Elapsed Time = 2.145128E+06 days		
2654	Date: 02/14/07	Time: 09:53:03	CPU Time: 0 0: 8:21.75 (501.75 sec)	Binary
2656	Time Step No. = 1500	Elapsed Time = 2.174866E+06 days		
2657	Date: 02/14/07	Time: 09:53:11	CPU Time: 0 0: 8:29.74 (509.74 sec)	Binary
2659	Time Step No. = 1520	Elapsed Time = 2.195982E+06 days		
2660	Date: 02/14/07	Time: 09:53:19	CPU Time: 0 0: 8:37.16 (517.16 sec)	Binary
2662	Time Step No. = 1540	Elapsed Time = 2.260984E+06 days		
2663	Date: 02/14/07	Time: 09:53:27	CPU Time: 0 0: 8:46.04 (526.04 sec)	Binary
2665	Time Step No. = 1560	Elapsed Time = 2.301705E+06 days		
2666	Date: 02/14/07	Time: 09:53:34	CPU Time: 0 0: 8:53.11 (533.11 sec)	Binary
2668	Time Step No. = 1580	Elapsed Time = 2.432519E+06 days		
2669	Date: 02/14/07	Time: 09:53:42	CPU Time: 0 0: 9: 0.50 (540.50 sec)	Binary
2671	Time Step No. = 1600	Elapsed Time = 2.435587E+06 days		
2672	Date: 02/14/07	Time: 09:53:51	CPU Time: 0 0: 9: 9.17 (549.17 sec)	Binary
2674	Time Step No. = 1620	Elapsed Time = 2.463476E+06 days		
2675	Date: 02/14/07	Time: 09:53:55	CPU Time: 0 0: 9:13.49 (553.49 sec)	Binary
2677	Time Step No. = 1640	Elapsed Time = 2.821366E+06 days		
2678	Date: 02/14/07	Time: 09:54:01	CPU Time: 0 0: 9:19.25 (559.25 sec)	Binary
2680	Time Step No. = 1660	Elapsed Time = 2.999402E+06 days		
2681	Date: 02/14/07	Time: 09:54:09	CPU Time: 0 0: 9:27.97 (567.97 sec)	Binary
2683	Time Step No. = 1680	Elapsed Time = 3.399402E+06 days		
2684	Date: 02/14/07	Time: 09:54:15	CPU Time: 0 0: 9:33.22 (573.22 sec)	Binary
2686	Time Step No. = 1700	Elapsed Time = 3.449911E+06 days		
2687	Date: 02/14/07	Time: 09:54:28	CPU Time: 0 0: 9:46.68 (586.68 sec)	Binary
2689	Time Step No. = 1720	Elapsed Time = 3.453010E+06 days		
2690	Date: 02/14/07	Time: 09:54:38	CPU Time: 0 0: 9:56.65 (596.65 sec)	Binary
2692	Time Step No. = 1740	Elapsed Time = 3.454154E+06 days		
2693	Date: 02/14/07	Time: 09:54:44	CPU Time: 0 0:10: 2.16 (602.16 sec)	Binary
2695	Time Step No. = 1760	Elapsed Time = 3.456469E+06 days		
2696	Date: 02/14/07	Time: 09:54:52	CPU Time: 0 0:10:10.52 (610.52 sec)	Binary
2698	Time Step No. = 1780	Elapsed Time = 3.459213E+06 days		
2699	Date: 02/14/07	Time: 09:55:00	CPU Time: 0 0:10:18.75 (618.75 sec)	Binary
2701	Time Step No. = 1800	Elapsed Time = 3.461847E+06 days		

```
2702 Date: 02/14/07 Time: 09:55:08 CPU Time: 0 0:10:26.21 ( 626.21 sec) Binary
2704 Time Step No. = 1820 Elapsed Time = 3.465426E+06 days
2705 Date: 02/14/07 Time: 09:55:16 CPU Time: 0 0:10:34.59 ( 634.59 sec) Binary
2707 Time Step No. = 1840 Elapsed Time = 3.468037E+06 days
2708 Date: 02/14/07 Time: 09:55:26 CPU Time: 0 0:10:44.40 ( 644.40 sec) Binary
2710 Time Step No. = 1860 Elapsed Time = 3.471327E+06 days
2711 Date: 02/14/07 Time: 09:55:35 CPU Time: 0 0:10:53.66 ( 653.66 sec) Binary
2713 Time Step No. = 1880 Elapsed Time = 3.473863E+06 days
2714 Date: 02/14/07 Time: 09:55:44 CPU Time: 0 0:11: 2.79 ( 662.79 sec) Binary
2716 Time Step No. = 1900 Elapsed Time = 3.477561E+06 days
2717 Date: 02/14/07 Time: 09:55:55 CPU Time: 0 0:11:12.94 ( 672.94 sec) Binary
2719 Time Step No. = 1920 Elapsed Time = 3.480469E+06 days
2720 Date: 02/14/07 Time: 09:56:04 CPU Time: 0 0:11:22.75 ( 682.75 sec) Binary
2722 Time Step No. = 1940 Elapsed Time = 3.484165E+06 days
2723 Date: 02/14/07 Time: 09:56:13 CPU Time: 0 0:11:31.45 ( 691.45 sec) Binary
2725 Time Step No. = 1960 Elapsed Time = 3.553867E+06 days
2726 Date: 02/14/07 Time: 09:56:18 CPU Time: 0 0:11:36.25 ( 696.25 sec) Binary
2729 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
2745 CPU Time (this time step) = 0.12 sec = 0.00003 hr
2746 CPU Time (total for run) = 602.79 sec = 0.16744 hr
2747 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
2745 CPU Time (this time step) = 0.13 sec = 0.00004 hr
2746 CPU Time (total for run) = 697.37 sec = 0.19371 hr
2747 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
3423 Date: 02/14/07 Time: 10:47:45 CPU Time: 0 0:10: 2.80 ( 602.80 sec) ASCII
3425 Time Step No. = 1966 Elapsed Time = 3.652431E+06 days
3426 Date: 02/14/07 Time: 10:47:45 CPU Time: 0 0:10: 2.81 ( 602.81 sec) Binary
3431 *****
3432 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3433 * Completed: 02/14/07 at 10:47:45 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
3434 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
3423 Date: 02/14/07 Time: 09:56:19 CPU Time: 0 0:11:37.39 ( 697.39 sec) ASCII
3425 Time Step No. = 1966 Elapsed Time = 3.652431E+06 days
3426 Date: 02/14/07 Time: 09:56:19 CPU Time: 0 0:11:37.39 ( 697.39 sec) Binary
3431 *****
3432 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3433 * Completed: 02/14/07 at 09:56:19 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3434 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 202

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
```

BF2_QB0600_ES45_TEST7_V006_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
 3 ** Begun on: 02/14/07 at 10:38:19 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
 3 ** Begun on: 02/14/07 at 09:45:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
 61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_TEST7_V006.INP;2
 62 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
1772 CPU Time (this time step) = 0.12 sec = 0.00003 hr
1773 CPU Time (total for run) = 23.81 sec = 0.00661 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
1772 CPU Time (this time step) = 0.14 sec = 0.00004 hr
1773 CPU Time (total for run) = 28.24 sec = 0.00784 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
2450 Date: 02/14/07 Time: 10:38:43 CPU Time: 0 0: 0:23.83 ( 23.83 sec) ASCII
2452 Time Step No. = 148 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:38:43 CPU Time: 0 0: 0:23.83 ( 23.83 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 1.693989E-02 days
2456 Date: 02/14/07 Time: 10:38:47 CPU Time: 0 0: 0:28.00 ( 28.00 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 1.499754E+00 days
2459 Date: 02/14/07 Time: 10:38:50 CPU Time: 0 0: 0:31.17 ( 31.17 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 6.033075E+01 days
2462 Date: 02/14/07 Time: 10:38:53 CPU Time: 0 0: 0:34.52 ( 34.52 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 2.893437E+02 days
2465 Date: 02/14/07 Time: 10:38:57 CPU Time: 0 0: 0:38.60 ( 38.60 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 1.396859E+03 days
2468 Date: 02/14/07 Time: 10:39:02 CPU Time: 0 0: 0:43.07 ( 43.07 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 8.613100E+03 days
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2471 Date: 02/14/07 Time: 10:39:08 CPU Time: 0 0: 0:48.76 (48.76 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 1.102377E+04 days
2474 Date: 02/14/07 Time: 10:39:11 CPU Time: 0 0: 0:52.12 (52.12 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 2.378052E+04 days
2477 Date: 02/14/07 Time: 10:39:17 CPU Time: 0 0: 0:58.17 (58.17 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 2.835195E+04 days
2480 Date: 02/14/07 Time: 10:39:22 CPU Time: 0 0: 1: 2.67 (62.67 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2483 Date: 02/14/07 Time: 10:39:31 CPU Time: 0 0: 1:12.49 (72.49 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 3.652432E+04 days
2486 Date: 02/14/07 Time: 10:39:34 CPU Time: 0 0: 1:15.37 (75.37 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 3.652571E+04 days
2489 Date: 02/14/07 Time: 10:39:37 CPU Time: 0 0: 1:17.91 (77.91 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 3.660922E+04 days
2492 Date: 02/14/07 Time: 10:39:41 CPU Time: 0 0: 1:22.20 (82.20 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 3.666204E+04 days
2495 Date: 02/14/07 Time: 10:39:43 CPU Time: 0 0: 1:23.86 (83.86 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 3.681434E+04 days
2498 Date: 02/14/07 Time: 10:39:46 CPU Time: 0 0: 1:26.69 (86.69 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 4.034225E+04 days
2501 Date: 02/14/07 Time: 10:39:50 CPU Time: 0 0: 1:30.92 (90.92 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 1.114354E+05 days
2504 Date: 02/14/07 Time: 10:39:56 CPU Time: 0 0: 1:37.10 (97.10 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 1.517026E+05 days
2507 Date: 02/14/07 Time: 10:40:06 CPU Time: 0 0: 1:47.19 (107.19 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 1.887778E+05 days
2510 Date: 02/14/07 Time: 10:40:14 CPU Time: 0 0: 1:54.56 (114.56 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 2.709363E+05 days
2513 Date: 02/14/07 Time: 10:40:22 CPU Time: 0 0: 2: 3.16 (123.16 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 3.652431E+05 days
2516 Date: 02/14/07 Time: 10:40:31 CPU Time: 0 0: 2:11.72 (131.72 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 3.657082E+05 days
2519 Date: 02/14/07 Time: 10:40:35 CPU Time: 0 0: 2:15.33 (135.33 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 3.665648E+05 days
2522 Date: 02/14/07 Time: 10:40:37 CPU Time: 0 0: 2:18.10 (138.10 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 3.666428E+05 days
2525 Date: 02/14/07 Time: 10:40:39 CPU Time: 0 0: 2:20.09 (140.09 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 3.734062E+05 days
2528 Date: 02/14/07 Time: 10:40:44 CPU Time: 0 0: 2:24.38 (144.38 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 4.270734E+05 days
2531 Date: 02/14/07 Time: 10:40:51 CPU Time: 0 0: 2:32.02 (152.02 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 4.797087E+05 days
2534 Date: 02/14/07 Time: 10:41:01 CPU Time: 0 0: 2:41.60 (161.60 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 4.872588E+05 days
2537 Date: 02/14/07 Time: 10:41:05 CPU Time: 0 0: 2:45.48 (165.48 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 5.487048E+05 days
2540 Date: 02/14/07 Time: 10:41:12 CPU Time: 0 0: 2:52.59 (172.59 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 6.367867E+05 days
2543 Date: 02/14/07 Time: 10:41:19 CPU Time: 0 0: 2:59.87 (179.87 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 7.447857E+05 days
2546 Date: 02/14/07 Time: 10:41:28 CPU Time: 0 0: 3: 7.93 (187.93 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 9.573700E+05 days
2549 Date: 02/14/07 Time: 10:41:35 CPU Time: 0 0: 3:15.27 (195.27 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 1.131770E+06 days
2552 Date: 02/14/07 Time: 10:41:41 CPU Time: 0 0: 3:21.55 (201.55 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 1.215464E+06 days
2555 Date: 02/14/07 Time: 10:41:49 CPU Time: 0 0: 3:29.69 (209.69 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 1.307642E+06 days
2558 Date: 02/14/07 Time: 10:41:56 CPU Time: 0 0: 3:36.30 (216.30 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 1.331147E+06 days
2561 Date: 02/14/07 Time: 10:42:02 CPU Time: 0 0: 3:42.30 (222.30 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 1.340543E+06 days
2564 Date: 02/14/07 Time: 10:42:08 CPU Time: 0 0: 3:47.82 (227.82 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 1.361885E+06 days
2567 Date: 02/14/07 Time: 10:42:12 CPU Time: 0 0: 3:52.41 (232.41 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 1.389921E+06 days
2570 Date: 02/14/07 Time: 10:42:21 CPU Time: 0 0: 4: 1.13 (241.13 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 1.395803E+06 days
2573 Date: 02/14/07 Time: 10:42:25 CPU Time: 0 0: 4: 5.48 (245.48 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 1.396248E+06 days
2576 Date: 02/14/07 Time: 10:42:32 CPU Time: 0 0: 4:12.49 (252.49 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 1.400907E+06 days
2579 Date: 02/14/07 Time: 10:42:39 CPU Time: 0 0: 4:19.34 (259.34 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 1.401669E+06 days
2582 Date: 02/14/07 Time: 10:42:42 CPU Time: 0 0: 4:22.65 (262.65 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 1.452402E+06 days

2585 Date: 02/14/07 Time: 10:42:48 CPU Time: 0 0: 4:28.47 (268.47 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 1.481180E+06 days
2588 Date: 02/14/07 Time: 10:42:54 CPU Time: 0 0: 4:33.99 (273.99 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 1.516157E+06 days
2591 Date: 02/14/07 Time: 10:43:00 CPU Time: 0 0: 4:40.35 (280.35 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 1.536729E+06 days
2594 Date: 02/14/07 Time: 10:43:04 CPU Time: 0 0: 4:44.53 (284.53 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 1.558583E+06 days
2597 Date: 02/14/07 Time: 10:43:13 CPU Time: 0 0: 4:52.59 (292.59 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 1.568030E+06 days
2600 Date: 02/14/07 Time: 10:43:16 CPU Time: 0 0: 4:56.41 (296.41 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 1.569625E+06 days
2603 Date: 02/14/07 Time: 10:43:22 CPU Time: 0 0: 5: 1.77 (301.77 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 1.586975E+06 days
2606 Date: 02/14/07 Time: 10:43:26 CPU Time: 0 0: 5: 5.87 (305.87 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 1.778016E+06 days
2609 Date: 02/14/07 Time: 10:43:34 CPU Time: 0 0: 5:13.52 (313.52 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 1.851752E+06 days
2612 Date: 02/14/07 Time: 10:43:43 CPU Time: 0 0: 5:22.49 (322.49 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 1.872533E+06 days
2615 Date: 02/14/07 Time: 10:43:48 CPU Time: 0 0: 5:27.56 (327.56 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 2.047943E+06 days
2618 Date: 02/14/07 Time: 10:43:56 CPU Time: 0 0: 5:36.24 (336.24 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 2.192064E+06 days
2621 Date: 02/14/07 Time: 10:44:04 CPU Time: 0 0: 5:44.00 (344.00 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 2.209031E+06 days
2624 Date: 02/14/07 Time: 10:44:11 CPU Time: 0 0: 5:50.23 (350.23 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 2.228198E+06 days
2627 Date: 02/14/07 Time: 10:44:17 CPU Time: 0 0: 5:56.30 (356.30 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 2.477165E+06 days
2630 Date: 02/14/07 Time: 10:44:25 CPU Time: 0 0: 6: 4.21 (364.21 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 2.582796E+06 days
2633 Date: 02/14/07 Time: 10:44:36 CPU Time: 0 0: 6:15.13 (375.13 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 2.658805E+06 days
2636 Date: 02/14/07 Time: 10:44:40 CPU Time: 0 0: 6:19.58 (379.58 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 2.660777E+06 days
2639 Date: 02/14/07 Time: 10:44:45 CPU Time: 0 0: 6:24.70 (384.70 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 2.694236E+06 days
2642 Date: 02/14/07 Time: 10:44:50 CPU Time: 0 0: 6:29.74 (389.74 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 2.897354E+06 days
2645 Date: 02/14/07 Time: 10:44:58 CPU Time: 0 0: 6:37.33 (397.33 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 3.068770E+06 days
2648 Date: 02/14/07 Time: 10:45:05 CPU Time: 0 0: 6:44.18 (404.18 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 3.070972E+06 days
2651 Date: 02/14/07 Time: 10:45:10 CPU Time: 0 0: 6:49.52 (409.52 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 3.092364E+06 days
2654 Date: 02/14/07 Time: 10:45:15 CPU Time: 0 0: 6:53.92 (413.92 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 3.321015E+06 days
2657 Date: 02/14/07 Time: 10:45:21 CPU Time: 0 0: 7: 0.75 (420.75 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 3.330337E+06 days
2660 Date: 02/14/07 Time: 10:45:29 CPU Time: 0 0: 7: 7.88 (427.88 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 3.331762E+06 days
2663 Date: 02/14/07 Time: 10:45:34 CPU Time: 0 0: 7:12.71 (432.71 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 3.334405E+06 days
2666 Date: 02/14/07 Time: 10:45:38 CPU Time: 0 0: 7:17.43 (437.43 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 3.374435E+06 days
2669 Date: 02/14/07 Time: 10:45:45 CPU Time: 0 0: 7:24.44 (444.44 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 3.552011E+06 days
2672 Date: 02/14/07 Time: 10:45:50 CPU Time: 0 0: 7:29.12 (449.12 sec) Binary
2675 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA: [ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
2450 Date: 02/14/07 Time: 09:45:32 CPU Time: 0 0: 0:28.26 (28.26 sec) ASCII
2452 Time Step No. = 148 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:45:32 CPU Time: 0 0: 0:28.26 (28.26 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 1.693989E-02 days
2456 Date: 02/14/07 Time: 09:45:37 CPU Time: 0 0: 0:33.21 (33.21 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 1.499754E+00 days
2459 Date: 02/14/07 Time: 09:45:41 CPU Time: 0 0: 0:36.96 (36.96 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 6.033075E+01 days
2462 Date: 02/14/07 Time: 09:45:45 CPU Time: 0 0: 0:40.92 (40.92 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 2.893437E+02 days
2465 Date: 02/14/07 Time: 09:45:50 CPU Time: 0 0: 0:45.59 (45.59 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 1.396859E+03 days
2468 Date: 02/14/07 Time: 09:45:55 CPU Time: 0 0: 0:50.76 (50.76 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 8.613100E+03 days

2471 Date: 02/14/07 Time: 09:46:02 CPU Time: 0 0: 0:57.35 (57.35 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 1.102377E+04 days
2474 Date: 02/14/07 Time: 09:46:06 CPU Time: 0 0: 1: 1.27 (61.27 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 2.378052E+04 days
2477 Date: 02/14/07 Time: 09:46:13 CPU Time: 0 0: 1: 8.51 (68.51 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 2.835195E+04 days
2480 Date: 02/14/07 Time: 09:46:18 CPU Time: 0 0: 1:13.81 (73.81 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2483 Date: 02/14/07 Time: 09:46:30 CPU Time: 0 0: 1:25.19 (85.19 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 3.652432E+04 days
2486 Date: 02/14/07 Time: 09:46:33 CPU Time: 0 0: 1:28.54 (88.54 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 3.652571E+04 days
2489 Date: 02/14/07 Time: 09:46:36 CPU Time: 0 0: 1:31.48 (91.48 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 3.660922E+04 days
2492 Date: 02/14/07 Time: 09:46:41 CPU Time: 0 0: 1:36.46 (96.46 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 3.666204E+04 days
2495 Date: 02/14/07 Time: 09:46:43 CPU Time: 0 0: 1:38.36 (98.36 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 3.681434E+04 days
2498 Date: 02/14/07 Time: 09:46:46 CPU Time: 0 0: 1:41.65 (101.65 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 4.034225E+04 days
2501 Date: 02/14/07 Time: 09:46:51 CPU Time: 0 0: 1:46.55 (106.55 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 1.114354E+05 days
2504 Date: 02/14/07 Time: 09:46:58 CPU Time: 0 0: 1:53.67 (113.67 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 1.517026E+05 days
2507 Date: 02/14/07 Time: 09:47:10 CPU Time: 0 0: 2: 5.27 (125.27 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 1.887778E+05 days
2510 Date: 02/14/07 Time: 09:47:19 CPU Time: 0 0: 2:13.77 (133.77 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 2.709363E+05 days
2513 Date: 02/14/07 Time: 09:47:29 CPU Time: 0 0: 2:23.77 (143.77 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 3.652431E+05 days
2516 Date: 02/14/07 Time: 09:47:39 CPU Time: 0 0: 2:33.83 (153.83 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 3.657082E+05 days
2519 Date: 02/14/07 Time: 09:47:43 CPU Time: 0 0: 2:38.11 (158.11 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 3.665648E+05 days
2522 Date: 02/14/07 Time: 09:47:46 CPU Time: 0 0: 2:41.37 (161.37 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 3.666428E+05 days
2525 Date: 02/14/07 Time: 09:47:48 CPU Time: 0 0: 2:43.69 (163.69 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 3.734062E+05 days
2528 Date: 02/14/07 Time: 09:47:53 CPU Time: 0 0: 2:48.61 (168.61 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 4.270734E+05 days
2531 Date: 02/14/07 Time: 09:48:02 CPU Time: 0 0: 2:57.35 (177.35 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 4.797087E+05 days
2534 Date: 02/14/07 Time: 09:48:13 CPU Time: 0 0: 3: 8.33 (188.33 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 4.872588E+05 days
2537 Date: 02/14/07 Time: 09:48:18 CPU Time: 0 0: 3:12.77 (192.77 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 5.487048E+05 days
2540 Date: 02/14/07 Time: 09:48:26 CPU Time: 0 0: 3:20.90 (200.90 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 6.367867E+05 days
2543 Date: 02/14/07 Time: 09:48:34 CPU Time: 0 0: 3:29.25 (209.25 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 7.447857E+05 days
2546 Date: 02/14/07 Time: 09:48:43 CPU Time: 0 0: 3:38.49 (218.49 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 9.573700E+05 days
2549 Date: 02/14/07 Time: 09:48:52 CPU Time: 0 0: 3:46.91 (226.91 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 1.131770E+06 days
2552 Date: 02/14/07 Time: 09:48:59 CPU Time: 0 0: 3:54.11 (234.11 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 1.215464E+06 days
2555 Date: 02/14/07 Time: 09:49:08 CPU Time: 0 0: 4: 3.22 (243.22 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 1.307642E+06 days
2558 Date: 02/14/07 Time: 09:49:16 CPU Time: 0 0: 4:11.03 (251.03 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 1.331147E+06 days
2561 Date: 02/14/07 Time: 09:49:23 CPU Time: 0 0: 4:18.01 (258.01 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 1.340543E+06 days
2564 Date: 02/14/07 Time: 09:49:29 CPU Time: 0 0: 4:24.36 (264.36 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 1.361885E+06 days
2567 Date: 02/14/07 Time: 09:49:35 CPU Time: 0 0: 4:29.62 (269.62 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 1.389921E+06 days
2570 Date: 02/14/07 Time: 09:49:45 CPU Time: 0 0: 4:39.62 (279.62 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 1.395803E+06 days
2573 Date: 02/14/07 Time: 09:49:50 CPU Time: 0 0: 4:44.64 (284.64 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 1.396248E+06 days
2576 Date: 02/14/07 Time: 09:49:58 CPU Time: 0 0: 4:52.67 (292.67 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 1.400907E+06 days
2579 Date: 02/14/07 Time: 09:50:06 CPU Time: 0 0: 5: 0.51 (300.51 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 1.401669E+06 days
2582 Date: 02/14/07 Time: 09:50:10 CPU Time: 0 0: 5: 4.31 (304.31 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 1.452402E+06 days

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2585 Date: 02/14/07 Time: 09:50:16 CPU Time: 0 0: 5:11.00 ( 311.00 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 1.481180E+06 days
2588 Date: 02/14/07 Time: 09:50:23 CPU Time: 0 0: 5:17.36 ( 317.36 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 1.516157E+06 days
2591 Date: 02/14/07 Time: 09:50:30 CPU Time: 0 0: 5:24.66 ( 324.66 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 1.536729E+06 days
2594 Date: 02/14/07 Time: 09:50:35 CPU Time: 0 0: 5:29.45 ( 329.45 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 1.558583E+06 days
2597 Date: 02/14/07 Time: 09:50:44 CPU Time: 0 0: 5:38.71 ( 338.71 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 1.568030E+06 days
2600 Date: 02/14/07 Time: 09:50:49 CPU Time: 0 0: 5:43.11 ( 343.11 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 1.569625E+06 days
2603 Date: 02/14/07 Time: 09:50:55 CPU Time: 0 0: 5:49.27 ( 349.27 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 1.586975E+06 days
2606 Date: 02/14/07 Time: 09:50:59 CPU Time: 0 0: 5:54.01 ( 354.01 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 1.778016E+06 days
2609 Date: 02/14/07 Time: 09:51:08 CPU Time: 0 0: 6: 2.78 ( 362.78 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 1.851752E+06 days
2612 Date: 02/14/07 Time: 09:51:19 CPU Time: 0 0: 6:13.04 ( 373.04 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 1.872533E+06 days
2615 Date: 02/14/07 Time: 09:51:24 CPU Time: 0 0: 6:18.86 ( 378.86 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 2.047943E+06 days
2618 Date: 02/14/07 Time: 09:51:34 CPU Time: 0 0: 6:28.80 ( 388.80 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 2.192064E+06 days
2621 Date: 02/14/07 Time: 09:51:43 CPU Time: 0 0: 6:37.73 ( 397.73 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 2.209031E+06 days
2624 Date: 02/14/07 Time: 09:51:50 CPU Time: 0 0: 6:44.90 ( 404.90 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 2.228198E+06 days
2627 Date: 02/14/07 Time: 09:51:58 CPU Time: 0 0: 6:51.87 ( 411.87 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 2.477165E+06 days
2630 Date: 02/14/07 Time: 09:52:07 CPU Time: 0 0: 7: 0.86 ( 420.86 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 2.582796E+06 days
2633 Date: 02/14/07 Time: 09:52:19 CPU Time: 0 0: 7:13.36 ( 433.36 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 2.658805E+06 days
2636 Date: 02/14/07 Time: 09:52:24 CPU Time: 0 0: 7:18.55 ( 438.55 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 2.660777E+06 days
2639 Date: 02/14/07 Time: 09:52:30 CPU Time: 0 0: 7:24.70 ( 444.70 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 2.694236E+06 days
2642 Date: 02/14/07 Time: 09:52:37 CPU Time: 0 0: 7:30.78 ( 450.78 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 2.897354E+06 days
2645 Date: 02/14/07 Time: 09:52:46 CPU Time: 0 0: 7:39.90 ( 459.90 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 3.068770E+06 days
2648 Date: 02/14/07 Time: 09:52:54 CPU Time: 0 0: 7:48.13 ( 468.13 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 3.070972E+06 days
2651 Date: 02/14/07 Time: 09:53:01 CPU Time: 0 0: 7:54.59 ( 474.59 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 3.092364E+06 days
2654 Date: 02/14/07 Time: 09:53:06 CPU Time: 0 0: 7:59.91 ( 479.91 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 3.321015E+06 days
2657 Date: 02/14/07 Time: 09:53:14 CPU Time: 0 0: 8: 8.13 ( 488.13 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 3.330337E+06 days
2660 Date: 02/14/07 Time: 09:53:23 CPU Time: 0 0: 8:16.71 ( 496.71 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 3.331762E+06 days
2663 Date: 02/14/07 Time: 09:53:29 CPU Time: 0 0: 8:22.53 ( 502.53 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 3.334405E+06 days
2666 Date: 02/14/07 Time: 09:53:34 CPU Time: 0 0: 8:28.18 ( 508.18 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 3.374435E+06 days
2669 Date: 02/14/07 Time: 09:53:43 CPU Time: 0 0: 8:36.62 ( 516.62 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 3.552011E+06 days
2672 Date: 02/14/07 Time: 09:53:48 CPU Time: 0 0: 8:42.29 ( 522.29 sec) Binary
2675 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
2691 CPU Time (this time step) = 0.18 sec = 0.00005 hr
2692 CPU Time (total for run) = 450.72 sec = 0.12520 hr
2693 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
2691 CPU Time (this time step) = 0.22 sec = 0.00006 hr
2692 CPU Time (total for run) = 524.22 sec = 0.14562 hr
2693 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
3369 Date: 02/14/07 Time: 10:45:52 CPU Time: 0 0: 7:30.74 ( 450.74 sec) ASCII
3371 Time Step No. = 1606 Elapsed Time = 3.652431E+06 days
```

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3372 Date: 02/14/07 Time: 10:45:52 CPU Time: 0 0: 7:30.74 ( 450.74 sec) Binary
3377 *****
3378 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3379 * Completed: 02/14/07 at 10:45:52 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
3380 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
3369 Date: 02/14/07 Time: 09:53:50 CPU Time: 0 0: 8:44.24 ( 524.24 sec) ASCII
3371 Time Step No. = 1606 Elapsed Time = 3.652431E+06 days
3372 Date: 02/14/07 Time: 09:53:50 CPU Time: 0 0: 8:44.24 ( 524.24 sec) Binary
3377 *****
3378 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3379 * Completed: 02/14/07 at 09:53:50 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3380 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 166

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
```

BF2_QB0600_ES45_TEST7_V007_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
 3 ** Begun on: 02/14/07 at 10:38:48 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
 3 ** Begun on: 02/14/07 at 09:45:44 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_TEST7_V007.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.BIN;1
```



```
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
1772 CPU Time (this time step) = 0.12 sec = 0.00003 hr
1773 CPU Time (total for run) = 20.09 sec = 0.00558 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 22.28 sec = 0.00619 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
2450 Date: 02/14/07 Time: 10:39:08 CPU Time: 0 0: 0:20.10 ( 20.10 sec) ASCII
2452 Time Step No. = 135 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:39:08 CPU Time: 0 0: 0:20.11 ( 20.11 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 8.207031E-02 days
2456 Date: 02/14/07 Time: 10:39:09 CPU Time: 0 0: 0:21.03 ( 21.03 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 6.773075E+00 days
2459 Date: 02/14/07 Time: 10:39:12 CPU Time: 0 0: 0:24.10 ( 24.10 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.856436E+02 days
2462 Date: 02/14/07 Time: 10:39:15 CPU Time: 0 0: 0:27.34 ( 27.34 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 1.266587E+03 days
2465 Date: 02/14/07 Time: 10:39:20 CPU Time: 0 0: 0:32.30 ( 32.30 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 1.223245E+04 days
2468 Date: 02/14/07 Time: 10:39:26 CPU Time: 0 0: 0:37.57 ( 37.57 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.652431E+04 days
2471 Date: 02/14/07 Time: 10:39:38 CPU Time: 0 0: 0:49.48 ( 49.48 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.652431E+04 days
2474 Date: 02/14/07 Time: 10:39:40 CPU Time: 0 0: 0:51.85 ( 51.85 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.652431E+04 days
2477 Date: 02/14/07 Time: 10:39:43 CPU Time: 0 0: 0:54.34 ( 54.34 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.652448E+04 days
2480 Date: 02/14/07 Time: 10:39:45 CPU Time: 0 0: 0:57.19 ( 57.19 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.653947E+04 days
2483 Date: 02/14/07 Time: 10:39:48 CPU Time: 0 0: 0:59.99 ( 59.99 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 3.666343E+04 days
2486 Date: 02/14/07 Time: 10:39:51 CPU Time: 0 0: 1: 2.49 ( 62.49 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.669537E+04 days
2489 Date: 02/14/07 Time: 10:39:53 CPU Time: 0 0: 1: 4.65 ( 64.65 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 3.742515E+04 days
2492 Date: 02/14/07 Time: 10:39:57 CPU Time: 0 0: 1: 8.75 ( 68.75 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.822089E+04 days
2495 Date: 02/14/07 Time: 10:40:04 CPU Time: 0 0: 1:15.91 ( 75.91 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 8.862956E+04 days
2498 Date: 02/14/07 Time: 10:40:09 CPU Time: 0 0: 1:21.20 ( 81.20 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.455379E+05 days
2501 Date: 02/14/07 Time: 10:40:18 CPU Time: 0 0: 1:29.35 ( 89.35 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 3.652522E+05 days
2504 Date: 02/14/07 Time: 10:40:21 CPU Time: 0 0: 1:33.11 ( 93.11 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 3.654410E+05 days
2507 Date: 02/14/07 Time: 10:40:26 CPU Time: 0 0: 1:37.09 ( 97.09 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 3.666131E+05 days
2510 Date: 02/14/07 Time: 10:40:29 CPU Time: 0 0: 1:40.55 ( 100.55 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 3.666386E+05 days
2513 Date: 02/14/07 Time: 10:40:31 CPU Time: 0 0: 1:42.04 ( 102.04 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 3.688548E+05 days
2516 Date: 02/14/07 Time: 10:40:34 CPU Time: 0 0: 1:45.30 ( 105.30 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 4.082584E+05 days
2519 Date: 02/14/07 Time: 10:40:41 CPU Time: 0 0: 1:52.30 ( 112.30 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 4.458639E+05 days
```

2522 Date: 02/14/07 Time: 10:40:50 CPU Time: 0 0: 2: 0.58 (120.58 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 4.463537E+05 days
2525 Date: 02/14/07 Time: 10:40:54 CPU Time: 0 0: 2: 5.37 (125.37 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 4.480015E+05 days
2528 Date: 02/14/07 Time: 10:40:58 CPU Time: 0 0: 2: 8.98 (128.98 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 4.604332E+05 days
2531 Date: 02/14/07 Time: 10:41:04 CPU Time: 0 0: 2:14.63 (134.63 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 4.725391E+05 days
2534 Date: 02/14/07 Time: 10:41:08 CPU Time: 0 0: 2:18.80 (138.80 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 6.319950E+05 days
2537 Date: 02/14/07 Time: 10:41:15 CPU Time: 0 0: 2:26.16 (146.16 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 6.358626E+05 days
2540 Date: 02/14/07 Time: 10:41:20 CPU Time: 0 0: 2:31.07 (151.07 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 6.368313E+05 days
2543 Date: 02/14/07 Time: 10:41:25 CPU Time: 0 0: 2:35.98 (155.98 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 6.464683E+05 days
2546 Date: 02/14/07 Time: 10:41:29 CPU Time: 0 0: 2:40.32 (160.32 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 7.290303E+05 days
2549 Date: 02/14/07 Time: 10:41:35 CPU Time: 0 0: 2:46.09 (166.09 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 7.323189E+05 days
2552 Date: 02/14/07 Time: 10:41:40 CPU Time: 0 0: 2:51.00 (171.00 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 7.329267E+05 days
2555 Date: 02/14/07 Time: 10:41:44 CPU Time: 0 0: 2:54.20 (174.20 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 7.803047E+05 days
2558 Date: 02/14/07 Time: 10:41:48 CPU Time: 0 0: 2:59.06 (179.06 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 7.839760E+05 days
2561 Date: 02/14/07 Time: 10:41:53 CPU Time: 0 0: 3: 3.96 (183.96 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 8.012233E+05 days
2564 Date: 02/14/07 Time: 10:42:00 CPU Time: 0 0: 3:10.66 (190.66 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 8.034431E+05 days
2567 Date: 02/14/07 Time: 10:42:06 CPU Time: 0 0: 3:16.94 (196.94 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 8.062402E+05 days
2570 Date: 02/14/07 Time: 10:42:11 CPU Time: 0 0: 3:21.78 (201.78 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 8.139864E+05 days
2573 Date: 02/14/07 Time: 10:42:18 CPU Time: 0 0: 3:28.15 (208.15 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 8.431727E+05 days
2576 Date: 02/14/07 Time: 10:42:25 CPU Time: 0 0: 3:35.28 (215.28 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 8.666810E+05 days
2579 Date: 02/14/07 Time: 10:42:33 CPU Time: 0 0: 3:43.47 (223.47 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 8.821825E+05 days
2582 Date: 02/14/07 Time: 10:42:38 CPU Time: 0 0: 3:48.02 (228.02 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 9.002182E+05 days
2585 Date: 02/14/07 Time: 10:42:44 CPU Time: 0 0: 3:54.09 (234.09 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 9.481091E+05 days
2588 Date: 02/14/07 Time: 10:42:49 CPU Time: 0 0: 3:59.82 (239.82 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.057089E+06 days
2591 Date: 02/14/07 Time: 10:42:57 CPU Time: 0 0: 4: 6.89 (246.89 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.124317E+06 days
2594 Date: 02/14/07 Time: 10:43:01 CPU Time: 0 0: 4:11.24 (251.24 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 1.392966E+06 days
2597 Date: 02/14/07 Time: 10:43:08 CPU Time: 0 0: 4:17.96 (257.96 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 1.621571E+06 days
2600 Date: 02/14/07 Time: 10:43:13 CPU Time: 0 0: 4:23.36 (263.36 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 1.784068E+06 days
2603 Date: 02/14/07 Time: 10:43:23 CPU Time: 0 0: 4:33.17 (273.17 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 1.895820E+06 days
2606 Date: 02/14/07 Time: 10:43:30 CPU Time: 0 0: 4:39.69 (279.69 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 1.978849E+06 days
2609 Date: 02/14/07 Time: 10:43:38 CPU Time: 0 0: 4:48.35 (288.35 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 2.136165E+06 days
2612 Date: 02/14/07 Time: 10:43:46 CPU Time: 0 0: 4:55.99 (295.99 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 2.233567E+06 days
2615 Date: 02/14/07 Time: 10:43:54 CPU Time: 0 0: 5: 4.56 (304.56 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 2.507403E+06 days
2618 Date: 02/14/07 Time: 10:43:59 CPU Time: 0 0: 5: 9.24 (309.24 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 2.907403E+06 days
2621 Date: 02/14/07 Time: 10:44:04 CPU Time: 0 0: 5:14.20 (314.20 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 3.307403E+06 days
2624 Date: 02/14/07 Time: 10:44:09 CPU Time: 0 0: 5:19.50 (319.50 sec) Binary
2627 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
2450 Date: 02/14/07 Time: 09:46:07 CPU Time: 0 0: 0:22.29 (22.29 sec) ASCII
2452 Time Step No. = 135 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:46:07 CPU Time: 0 0: 0:22.30 (22.30 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 8.207031E-02 days

2456 Date: 02/14/07 Time: 09:46:08 CPU Time: 0 0: 0:23.32 (23.32 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 6.773075E+00 days
2459 Date: 02/14/07 Time: 09:46:11 CPU Time: 0 0: 0:26.72 (26.72 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.856436E+02 days
2462 Date: 02/14/07 Time: 09:46:15 CPU Time: 0 0: 0:30.53 (30.53 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 1.266587E+03 days
2465 Date: 02/14/07 Time: 09:46:21 CPU Time: 0 0: 0:36.63 (36.63 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 1.223245E+04 days
2468 Date: 02/14/07 Time: 09:46:28 CPU Time: 0 0: 0:43.00 (43.00 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.652431E+04 days
2471 Date: 02/14/07 Time: 09:46:42 CPU Time: 0 0: 0:57.56 (57.56 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.652431E+04 days
2474 Date: 02/14/07 Time: 09:46:45 CPU Time: 0 0: 1: 0.49 (60.49 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.652431E+04 days
2477 Date: 02/14/07 Time: 09:46:48 CPU Time: 0 0: 1: 3.56 (63.56 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.652448E+04 days
2480 Date: 02/14/07 Time: 09:46:52 CPU Time: 0 0: 1: 7.05 (67.05 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.653947E+04 days
2483 Date: 02/14/07 Time: 09:46:55 CPU Time: 0 0: 1:10.48 (70.48 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 3.666343E+04 days
2486 Date: 02/14/07 Time: 09:46:58 CPU Time: 0 0: 1:13.55 (73.55 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.669537E+04 days
2489 Date: 02/14/07 Time: 09:47:01 CPU Time: 0 0: 1:16.20 (76.20 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 3.742515E+04 days
2492 Date: 02/14/07 Time: 09:47:06 CPU Time: 0 0: 1:21.20 (81.20 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.822089E+04 days
2495 Date: 02/14/07 Time: 09:47:15 CPU Time: 0 0: 1:29.92 (89.92 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 8.862956E+04 days
2498 Date: 02/14/07 Time: 09:47:21 CPU Time: 0 0: 1:36.35 (96.35 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.455379E+05 days
2501 Date: 02/14/07 Time: 09:47:31 CPU Time: 0 0: 1:46.27 (106.27 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 3.652522E+05 days
2504 Date: 02/14/07 Time: 09:47:36 CPU Time: 0 0: 1:50.87 (110.87 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 3.654410E+05 days
2507 Date: 02/14/07 Time: 09:47:41 CPU Time: 0 0: 1:55.75 (115.75 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 3.666131E+05 days
2510 Date: 02/14/07 Time: 09:47:45 CPU Time: 0 0: 2: 0.01 (120.01 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 3.666386E+05 days
2513 Date: 02/14/07 Time: 09:47:47 CPU Time: 0 0: 2: 1.83 (121.83 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 3.688548E+05 days
2516 Date: 02/14/07 Time: 09:47:51 CPU Time: 0 0: 2: 5.81 (125.81 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 4.082584E+05 days
2519 Date: 02/14/07 Time: 09:48:00 CPU Time: 0 0: 2:14.35 (134.35 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 4.458639E+05 days
2522 Date: 02/14/07 Time: 09:48:10 CPU Time: 0 0: 2:24.44 (144.44 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 4.463537E+05 days
2525 Date: 02/14/07 Time: 09:48:16 CPU Time: 0 0: 2:30.28 (150.28 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 4.480015E+05 days
2528 Date: 02/14/07 Time: 09:48:20 CPU Time: 0 0: 2:34.67 (154.67 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 4.604332E+05 days
2531 Date: 02/14/07 Time: 09:48:27 CPU Time: 0 0: 2:41.58 (161.58 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 4.725391E+05 days
2534 Date: 02/14/07 Time: 09:48:32 CPU Time: 0 0: 2:46.68 (166.68 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 6.319950E+05 days
2537 Date: 02/14/07 Time: 09:48:41 CPU Time: 0 0: 2:55.64 (175.64 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 6.358626E+05 days
2540 Date: 02/14/07 Time: 09:48:47 CPU Time: 0 0: 3: 1.65 (181.65 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 6.368313E+05 days
2543 Date: 02/14/07 Time: 09:48:53 CPU Time: 0 0: 3: 7.61 (187.61 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 6.464683E+05 days
2546 Date: 02/14/07 Time: 09:48:58 CPU Time: 0 0: 3:12.92 (192.92 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 7.290303E+05 days
2549 Date: 02/14/07 Time: 09:49:05 CPU Time: 0 0: 3:19.95 (199.95 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 7.323189E+05 days
2552 Date: 02/14/07 Time: 09:49:12 CPU Time: 0 0: 3:25.94 (205.94 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 7.329267E+05 days
2555 Date: 02/14/07 Time: 09:49:16 CPU Time: 0 0: 3:29.84 (209.84 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 7.803047E+05 days
2558 Date: 02/14/07 Time: 09:49:21 CPU Time: 0 0: 3:35.71 (215.71 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 7.839760E+05 days
2561 Date: 02/14/07 Time: 09:49:27 CPU Time: 0 0: 3:41.70 (221.70 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 8.012233E+05 days
2564 Date: 02/14/07 Time: 09:49:36 CPU Time: 0 0: 3:49.87 (229.87 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 8.034431E+05 days
2567 Date: 02/14/07 Time: 09:49:43 CPU Time: 0 0: 3:57.52 (237.52 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 8.062402E+05 days

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2570 Date: 02/14/07 Time: 09:49:49 CPU Time: 0 0: 4: 3.44 ( 243.44 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 8.139864E+05 days
2573 Date: 02/14/07 Time: 09:49:57 CPU Time: 0 0: 4:11.24 ( 251.24 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 8.431727E+05 days
2576 Date: 02/14/07 Time: 09:50:06 CPU Time: 0 0: 4:19.95 ( 259.95 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 8.666810E+05 days
2579 Date: 02/14/07 Time: 09:50:16 CPU Time: 0 0: 4:29.98 ( 269.98 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 8.821825E+05 days
2582 Date: 02/14/07 Time: 09:50:22 CPU Time: 0 0: 4:35.57 ( 275.57 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 9.002182E+05 days
2585 Date: 02/14/07 Time: 09:50:29 CPU Time: 0 0: 4:42.92 ( 282.92 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 9.481091E+05 days
2588 Date: 02/14/07 Time: 09:50:36 CPU Time: 0 0: 4:49.87 ( 289.87 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.057089E+06 days
2591 Date: 02/14/07 Time: 09:50:45 CPU Time: 0 0: 4:58.48 ( 298.48 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.124317E+06 days
2594 Date: 02/14/07 Time: 09:50:50 CPU Time: 0 0: 5: 3.74 ( 303.74 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 1.392966E+06 days
2597 Date: 02/14/07 Time: 09:50:58 CPU Time: 0 0: 5:11.91 ( 311.91 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 1.621571E+06 days
2600 Date: 02/14/07 Time: 09:51:05 CPU Time: 0 0: 5:18.52 ( 318.52 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 1.784068E+06 days
2603 Date: 02/14/07 Time: 09:51:17 CPU Time: 0 0: 5:30.45 ( 330.45 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 1.895820E+06 days
2606 Date: 02/14/07 Time: 09:51:25 CPU Time: 0 0: 5:38.36 ( 338.36 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 1.978849E+06 days
2609 Date: 02/14/07 Time: 09:51:35 CPU Time: 0 0: 5:48.86 ( 348.86 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 2.136165E+06 days
2612 Date: 02/14/07 Time: 09:51:45 CPU Time: 0 0: 5:58.18 ( 358.18 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 2.233567E+06 days
2615 Date: 02/14/07 Time: 09:51:55 CPU Time: 0 0: 6: 8.59 ( 368.59 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 2.507403E+06 days
2618 Date: 02/14/07 Time: 09:52:01 CPU Time: 0 0: 6:14.28 ( 374.28 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 2.907403E+06 days
2621 Date: 02/14/07 Time: 09:52:07 CPU Time: 0 0: 6:20.35 ( 380.35 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 3.307403E+06 days
2624 Date: 02/14/07 Time: 09:52:13 CPU Time: 0 0: 6:26.82 ( 386.82 sec) Binary
2627 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
2643 CPU Time (this time step) = 0.23 sec = 0.00006 hr
2644 CPU Time (total for run) = 323.89 sec = 0.08997 hr
2645 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
2643 CPU Time (this time step) = 0.28 sec = 0.00008 hr
2644 CPU Time (total for run) = 392.16 sec = 0.10893 hr
2645 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
3321 Date: 02/14/07 Time: 10:44:14 CPU Time: 0 0: 5:23.91 ( 323.91 sec) ASCII
3323 Time Step No. = 1278 Elapsed Time = 3.652431E+06 days
3324 Date: 02/14/07 Time: 10:44:14 CPU Time: 0 0: 5:23.91 ( 323.91 sec) Binary
3329 *****
3330 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3331 * Completed: 02/14/07 at 10:44:14 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
3332 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
3321 Date: 02/14/07 Time: 09:52:19 CPU Time: 0 0: 6:32.18 ( 392.18 sec) ASCII
3323 Time Step No. = 1278 Elapsed Time = 3.652431E+06 days
3324 Date: 02/14/07 Time: 09:52:19 CPU Time: 0 0: 6:32.19 ( 392.19 sec) Binary
3329 *****
3330 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3331 * Completed: 02/14/07 at 09:52:19 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3332 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 134

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1-

PAA: [ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1

BF2_QB0600_ES45_TEST7_V008_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
  3  ** Begun on: 02/14/07 at 10:39:23 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
  3  ** Begun on: 02/14/07 at 09:46:14 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_TEST7_V008.INP;2
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;2
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
  1772 CPU Time (this time step) = 0.17 sec = 0.00005 hr
  1773 CPU Time (total for run) = 29.53 sec = 0.00820 hr
  1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
```

1772 CPU Time (this time step) = 0.19 sec = 0.00005 hr
1773 CPU Time (total for run) = 32.61 sec = 0.00906 hr
1774 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
2450 Date: 02/14/07 Time: 10:39:53 CPU Time: 0 0: 0:29.54 (29.54 sec) ASCII
2452 Time Step No. = 176 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:39:53 CPU Time: 0 0: 0:29.55 (29.55 sec) Binary
2455 Time Step No. = 180 Elapsed Time = 7.207031E-03 days
2456 Date: 02/14/07 Time: 10:39:55 CPU Time: 0 0: 0:31.43 (31.43 sec) Binary
2458 Time Step No. = 200 Elapsed Time = 1.053791E+00 days
2459 Date: 02/14/07 Time: 10:39:58 CPU Time: 0 0: 0:34.41 (34.41 sec) Binary
2461 Time Step No. = 220 Elapsed Time = 9.183050E+01 days
2462 Date: 02/14/07 Time: 10:40:02 CPU Time: 0 0: 0:38.42 (38.42 sec) Binary
2464 Time Step No. = 240 Elapsed Time = 2.153105E+03 days
2465 Date: 02/14/07 Time: 10:40:07 CPU Time: 0 0: 0:43.55 (43.55 sec) Binary
2467 Time Step No. = 260 Elapsed Time = 5.087922E+03 days
2468 Date: 02/14/07 Time: 10:40:12 CPU Time: 0 0: 0:48.24 (48.24 sec) Binary
2470 Time Step No. = 280 Elapsed Time = 1.243792E+04 days
2471 Date: 02/14/07 Time: 10:40:18 CPU Time: 0 0: 0:54.27 (54.27 sec) Binary
2473 Time Step No. = 300 Elapsed Time = 1.314808E+04 days
2474 Date: 02/14/07 Time: 10:40:21 CPU Time: 0 0: 0:57.49 (57.49 sec) Binary
2476 Time Step No. = 320 Elapsed Time = 1.875956E+04 days
2477 Date: 02/14/07 Time: 10:40:27 CPU Time: 0 0: 1: 3.06 (63.06 sec) Binary
2479 Time Step No. = 340 Elapsed Time = 3.652769E+04 days
2480 Date: 02/14/07 Time: 10:40:31 CPU Time: 0 0: 1: 7.98 (67.98 sec) Binary
2482 Time Step No. = 360 Elapsed Time = 3.666039E+04 days
2483 Date: 02/14/07 Time: 10:40:36 CPU Time: 0 0: 1:12.14 (72.14 sec) Binary
2485 Time Step No. = 380 Elapsed Time = 3.666877E+04 days
2486 Date: 02/14/07 Time: 10:40:38 CPU Time: 0 0: 1:13.84 (73.84 sec) Binary
2488 Time Step No. = 400 Elapsed Time = 3.739498E+04 days
2489 Date: 02/14/07 Time: 10:40:41 CPU Time: 0 0: 1:17.01 (77.01 sec) Binary
2491 Time Step No. = 420 Elapsed Time = 5.109122E+04 days
2492 Date: 02/14/07 Time: 10:40:48 CPU Time: 0 0: 1:23.69 (83.69 sec) Binary
2494 Time Step No. = 440 Elapsed Time = 5.170121E+04 days
2495 Date: 02/14/07 Time: 10:40:56 CPU Time: 0 0: 1:32.26 (92.26 sec) Binary
2497 Time Step No. = 460 Elapsed Time = 5.298682E+04 days
2498 Date: 02/14/07 Time: 10:41:02 CPU Time: 0 0: 1:37.67 (97.67 sec) Binary
2500 Time Step No. = 480 Elapsed Time = 7.084490E+04 days
2501 Date: 02/14/07 Time: 10:41:06 CPU Time: 0 0: 1:41.90 (101.90 sec) Binary
2503 Time Step No. = 500 Elapsed Time = 8.094102E+04 days
2504 Date: 02/14/07 Time: 10:41:13 CPU Time: 0 0: 1:48.82 (108.82 sec) Binary
2506 Time Step No. = 520 Elapsed Time = 8.631599E+04 days
2507 Date: 02/14/07 Time: 10:41:18 CPU Time: 0 0: 1:54.56 (114.56 sec) Binary
2509 Time Step No. = 540 Elapsed Time = 8.786148E+04 days
2510 Date: 02/14/07 Time: 10:41:22 CPU Time: 0 0: 1:57.67 (117.67 sec) Binary
2512 Time Step No. = 560 Elapsed Time = 1.041757E+05 days
2513 Date: 02/14/07 Time: 10:41:28 CPU Time: 0 0: 2: 3.70 (123.70 sec) Binary
2515 Time Step No. = 580 Elapsed Time = 1.043219E+05 days
2516 Date: 02/14/07 Time: 10:41:35 CPU Time: 0 0: 2:10.68 (130.68 sec) Binary
2518 Time Step No. = 600 Elapsed Time = 1.044755E+05 days
2519 Date: 02/14/07 Time: 10:41:38 CPU Time: 0 0: 2:13.77 (133.77 sec) Binary
2521 Time Step No. = 620 Elapsed Time = 1.065997E+05 days
2522 Date: 02/14/07 Time: 10:41:44 CPU Time: 0 0: 2:19.70 (139.70 sec) Binary
2524 Time Step No. = 640 Elapsed Time = 1.295978E+05 days
2525 Date: 02/14/07 Time: 10:41:51 CPU Time: 0 0: 2:26.95 (146.95 sec) Binary
2527 Time Step No. = 660 Elapsed Time = 1.484872E+05 days
2528 Date: 02/14/07 Time: 10:41:58 CPU Time: 0 0: 2:33.85 (153.85 sec) Binary
2530 Time Step No. = 680 Elapsed Time = 1.485303E+05 days
2531 Date: 02/14/07 Time: 10:42:03 CPU Time: 0 0: 2:38.77 (158.77 sec) Binary
2533 Time Step No. = 700 Elapsed Time = 1.493933E+05 days
2534 Date: 02/14/07 Time: 10:42:07 CPU Time: 0 0: 2:42.36 (162.36 sec) Binary
2536 Time Step No. = 720 Elapsed Time = 1.593167E+05 days
2537 Date: 02/14/07 Time: 10:42:12 CPU Time: 0 0: 2:47.75 (167.75 sec) Binary
2539 Time Step No. = 740 Elapsed Time = 2.099806E+05 days
2540 Date: 02/14/07 Time: 10:42:20 CPU Time: 0 0: 2:56.05 (176.05 sec) Binary
2542 Time Step No. = 760 Elapsed Time = 2.105719E+05 days
2543 Date: 02/14/07 Time: 10:42:26 CPU Time: 0 0: 3: 1.32 (181.32 sec) Binary
2545 Time Step No. = 780 Elapsed Time = 2.202234E+05 days
2546 Date: 02/14/07 Time: 10:42:29 CPU Time: 0 0: 3: 5.12 (185.12 sec) Binary
2548 Time Step No. = 800 Elapsed Time = 3.150363E+05 days
2549 Date: 02/14/07 Time: 10:42:35 CPU Time: 0 0: 3:11.05 (191.05 sec) Binary
2551 Time Step No. = 820 Elapsed Time = 3.629194E+05 days
2552 Date: 02/14/07 Time: 10:42:44 CPU Time: 0 0: 3:19.46 (199.46 sec) Binary
2554 Time Step No. = 840 Elapsed Time = 3.652535E+05 days

2555 Date: 02/14/07 Time: 10:42:51 CPU Time: 0 0: 3:26.38 (206.38 sec) Binary
2557 Time Step No. = 860 Elapsed Time = 3.653114E+05 days
2558 Date: 02/14/07 Time: 10:42:56 CPU Time: 0 0: 3:31.41 (211.41 sec) Binary
2560 Time Step No. = 880 Elapsed Time = 3.653632E+05 days
2561 Date: 02/14/07 Time: 10:43:02 CPU Time: 0 0: 3:37.86 (217.86 sec) Binary
2563 Time Step No. = 900 Elapsed Time = 3.658270E+05 days
2564 Date: 02/14/07 Time: 10:43:06 CPU Time: 0 0: 3:41.71 (221.71 sec) Binary
2566 Time Step No. = 920 Elapsed Time = 3.666406E+05 days
2567 Date: 02/14/07 Time: 10:43:09 CPU Time: 0 0: 3:44.05 (224.05 sec) Binary
2569 Time Step No. = 940 Elapsed Time = 3.666905E+05 days
2570 Date: 02/14/07 Time: 10:43:10 CPU Time: 0 0: 3:45.57 (225.57 sec) Binary
2572 Time Step No. = 960 Elapsed Time = 3.710191E+05 days
2573 Date: 02/14/07 Time: 10:43:14 CPU Time: 0 0: 3:49.19 (229.19 sec) Binary
2575 Time Step No. = 980 Elapsed Time = 3.996908E+05 days
2576 Date: 02/14/07 Time: 10:43:21 CPU Time: 0 0: 3:56.32 (236.32 sec) Binary
2578 Time Step No. = 1000 Elapsed Time = 4.303223E+05 days
2579 Date: 02/14/07 Time: 10:43:25 CPU Time: 0 0: 4: 0.87 (240.87 sec) Binary
2581 Time Step No. = 1020 Elapsed Time = 4.969452E+05 days
2582 Date: 02/14/07 Time: 10:43:33 CPU Time: 0 0: 4: 8.84 (248.84 sec) Binary
2584 Time Step No. = 1040 Elapsed Time = 5.110604E+05 days
2585 Date: 02/14/07 Time: 10:43:41 CPU Time: 0 0: 4:16.33 (256.33 sec) Binary
2587 Time Step No. = 1060 Elapsed Time = 7.111569E+05 days
2588 Date: 02/14/07 Time: 10:43:50 CPU Time: 0 0: 4:25.59 (265.59 sec) Binary
2590 Time Step No. = 1080 Elapsed Time = 7.246704E+05 days
2591 Date: 02/14/07 Time: 10:43:55 CPU Time: 0 0: 4:30.27 (270.27 sec) Binary
2593 Time Step No. = 1100 Elapsed Time = 7.854601E+05 days
2594 Date: 02/14/07 Time: 10:44:02 CPU Time: 0 0: 4:37.58 (277.58 sec) Binary
2596 Time Step No. = 1120 Elapsed Time = 7.901528E+05 days
2597 Date: 02/14/07 Time: 10:44:08 CPU Time: 0 0: 4:43.67 (283.67 sec) Binary
2599 Time Step No. = 1140 Elapsed Time = 8.541211E+05 days
2600 Date: 02/14/07 Time: 10:44:15 CPU Time: 0 0: 4:50.38 (290.38 sec) Binary
2602 Time Step No. = 1160 Elapsed Time = 8.709685E+05 days
2603 Date: 02/14/07 Time: 10:44:21 CPU Time: 0 0: 4:56.22 (296.22 sec) Binary
2605 Time Step No. = 1180 Elapsed Time = 9.290932E+05 days
2606 Date: 02/14/07 Time: 10:44:29 CPU Time: 0 0: 5: 4.19 (304.19 sec) Binary
2608 Time Step No. = 1200 Elapsed Time = 9.435530E+05 days
2609 Date: 02/14/07 Time: 10:44:37 CPU Time: 0 0: 5:12.44 (312.44 sec) Binary
2611 Time Step No. = 1220 Elapsed Time = 9.561082E+05 days
2612 Date: 02/14/07 Time: 10:44:44 CPU Time: 0 0: 5:18.99 (318.99 sec) Binary
2614 Time Step No. = 1240 Elapsed Time = 9.627294E+05 days
2615 Date: 02/14/07 Time: 10:44:51 CPU Time: 0 0: 5:25.66 (325.66 sec) Binary
2617 Time Step No. = 1260 Elapsed Time = 9.692275E+05 days
2618 Date: 02/14/07 Time: 10:44:59 CPU Time: 0 0: 5:34.39 (334.39 sec) Binary
2620 Time Step No. = 1280 Elapsed Time = 9.817318E+05 days
2621 Date: 02/14/07 Time: 10:45:04 CPU Time: 0 0: 5:39.35 (339.35 sec) Binary
2623 Time Step No. = 1300 Elapsed Time = 1.000743E+06 days
2624 Date: 02/14/07 Time: 10:45:11 CPU Time: 0 0: 5:46.01 (346.01 sec) Binary
2626 Time Step No. = 1320 Elapsed Time = 1.009513E+06 days
2627 Date: 02/14/07 Time: 10:45:19 CPU Time: 0 0: 5:53.67 (353.67 sec) Binary
2629 Time Step No. = 1340 Elapsed Time = 1.018276E+06 days
2630 Date: 02/14/07 Time: 10:45:25 CPU Time: 0 0: 5:59.51 (359.51 sec) Binary
2632 Time Step No. = 1360 Elapsed Time = 1.025094E+06 days
2633 Date: 02/14/07 Time: 10:45:28 CPU Time: 0 0: 6: 2.42 (362.42 sec) Binary
2635 Time Step No. = 1380 Elapsed Time = 1.066575E+06 days
2636 Date: 02/14/07 Time: 10:45:35 CPU Time: 0 0: 6: 9.40 (369.40 sec) Binary
2638 Time Step No. = 1400 Elapsed Time = 1.078881E+06 days
2639 Date: 02/14/07 Time: 10:45:38 CPU Time: 0 0: 6:12.63 (372.63 sec) Binary
2641 Time Step No. = 1420 Elapsed Time = 1.161020E+06 days
2642 Date: 02/14/07 Time: 10:45:45 CPU Time: 0 0: 6:19.53 (379.53 sec) Binary
2644 Time Step No. = 1440 Elapsed Time = 1.265422E+06 days
2645 Date: 02/14/07 Time: 10:45:51 CPU Time: 0 0: 6:25.35 (385.35 sec) Binary
2647 Time Step No. = 1460 Elapsed Time = 1.472580E+06 days
2648 Date: 02/14/07 Time: 10:45:54 CPU Time: 0 0: 6:28.93 (388.93 sec) Binary
2650 Time Step No. = 1480 Elapsed Time = 1.872580E+06 days
2651 Date: 02/14/07 Time: 10:45:59 CPU Time: 0 0: 6:33.81 (393.81 sec) Binary
2653 Time Step No. = 1500 Elapsed Time = 2.099689E+06 days
2654 Date: 02/14/07 Time: 10:46:05 CPU Time: 0 0: 6:39.99 (399.99 sec) Binary
2656 Time Step No. = 1520 Elapsed Time = 2.499689E+06 days
2657 Date: 02/14/07 Time: 10:46:10 CPU Time: 0 0: 6:44.68 (404.68 sec) Binary
2659 Time Step No. = 1540 Elapsed Time = 2.899689E+06 days
2660 Date: 02/14/07 Time: 10:46:14 CPU Time: 0 0: 6:48.82 (408.82 sec) Binary
2662 Time Step No. = 1560 Elapsed Time = 3.299689E+06 days
2663 Date: 02/14/07 Time: 10:46:18 CPU Time: 0 0: 6:52.37 (412.37 sec) Binary
2666 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1

Information Only

2450 Date: 02/14/07 Time: 09:46:47 CPU Time: 0 0: 0:32.62 (32.62 sec) ASCII
2452 Time Step No. = 176 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:46:47 CPU Time: 0 0: 0:32.62 (32.62 sec) Binary
2455 Time Step No. = 180 Elapsed Time = 7.207031E-03 days
2456 Date: 02/14/07 Time: 09:46:49 CPU Time: 0 0: 0:34.70 (34.70 sec) Binary
2458 Time Step No. = 200 Elapsed Time = 1.053791E+00 days
2459 Date: 02/14/07 Time: 09:46:52 CPU Time: 0 0: 0:38.00 (38.00 sec) Binary
2461 Time Step No. = 220 Elapsed Time = 9.183050E+01 days
2462 Date: 02/14/07 Time: 09:46:57 CPU Time: 0 0: 0:42.45 (42.45 sec) Binary
2464 Time Step No. = 240 Elapsed Time = 2.153105E+03 days
2465 Date: 02/14/07 Time: 09:47:02 CPU Time: 0 0: 0:48.11 (48.11 sec) Binary
2467 Time Step No. = 260 Elapsed Time = 5.087922E+03 days
2468 Date: 02/14/07 Time: 09:47:08 CPU Time: 0 0: 0:53.27 (53.27 sec) Binary
2470 Time Step No. = 280 Elapsed Time = 1.243792E+04 days
2471 Date: 02/14/07 Time: 09:47:14 CPU Time: 0 0: 0:59.94 (59.94 sec) Binary
2473 Time Step No. = 300 Elapsed Time = 1.314808E+04 days
2474 Date: 02/14/07 Time: 09:47:18 CPU Time: 0 0: 1: 3.51 (63.51 sec) Binary
2476 Time Step No. = 320 Elapsed Time = 1.875956E+04 days
2477 Date: 02/14/07 Time: 09:47:24 CPU Time: 0 0: 1: 9.66 (69.66 sec) Binary
2479 Time Step No. = 340 Elapsed Time = 3.652769E+04 days
2480 Date: 02/14/07 Time: 09:47:29 CPU Time: 0 0: 1:15.10 (75.10 sec) Binary
2482 Time Step No. = 360 Elapsed Time = 3.666039E+04 days
2483 Date: 02/14/07 Time: 09:47:34 CPU Time: 0 0: 1:19.71 (79.71 sec) Binary
2485 Time Step No. = 380 Elapsed Time = 3.666877E+04 days
2486 Date: 02/14/07 Time: 09:47:36 CPU Time: 0 0: 1:21.59 (81.59 sec) Binary
2488 Time Step No. = 400 Elapsed Time = 3.739498E+04 days
2489 Date: 02/14/07 Time: 09:47:40 CPU Time: 0 0: 1:25.10 (85.10 sec) Binary
2491 Time Step No. = 420 Elapsed Time = 5.109122E+04 days
2492 Date: 02/14/07 Time: 09:47:47 CPU Time: 0 0: 1:32.48 (92.48 sec) Binary
2494 Time Step No. = 440 Elapsed Time = 5.170121E+04 days
2495 Date: 02/14/07 Time: 09:47:56 CPU Time: 0 0: 1:41.94 (101.94 sec) Binary
2497 Time Step No. = 460 Elapsed Time = 5.298682E+04 days
2498 Date: 02/14/07 Time: 09:48:02 CPU Time: 0 0: 1:47.90 (107.90 sec) Binary
2500 Time Step No. = 480 Elapsed Time = 7.084490E+04 days
2501 Date: 02/14/07 Time: 09:48:07 CPU Time: 0 0: 1:52.56 (112.56 sec) Binary
2503 Time Step No. = 500 Elapsed Time = 8.094102E+04 days
2504 Date: 02/14/07 Time: 09:48:15 CPU Time: 0 0: 2: 0.20 (120.20 sec) Binary
2506 Time Step No. = 520 Elapsed Time = 8.631599E+04 days
2507 Date: 02/14/07 Time: 09:48:21 CPU Time: 0 0: 2: 6.55 (126.55 sec) Binary
2509 Time Step No. = 540 Elapsed Time = 8.786148E+04 days
2510 Date: 02/14/07 Time: 09:48:25 CPU Time: 0 0: 2: 9.99 (129.99 sec) Binary
2512 Time Step No. = 560 Elapsed Time = 1.041757E+05 days
2513 Date: 02/14/07 Time: 09:48:31 CPU Time: 0 0: 2:16.66 (136.66 sec) Binary
2515 Time Step No. = 580 Elapsed Time = 1.043219E+05 days
2516 Date: 02/14/07 Time: 09:48:39 CPU Time: 0 0: 2:24.39 (144.39 sec) Binary
2518 Time Step No. = 600 Elapsed Time = 1.044755E+05 days
2519 Date: 02/14/07 Time: 09:48:43 CPU Time: 0 0: 2:28.08 (148.08 sec) Binary
2521 Time Step No. = 620 Elapsed Time = 1.065997E+05 days
2522 Date: 02/14/07 Time: 09:48:50 CPU Time: 0 0: 2:35.09 (155.09 sec) Binary
2524 Time Step No. = 640 Elapsed Time = 1.295978E+05 days
2525 Date: 02/14/07 Time: 09:48:58 CPU Time: 0 0: 2:43.67 (163.67 sec) Binary
2527 Time Step No. = 660 Elapsed Time = 1.484872E+05 days
2528 Date: 02/14/07 Time: 09:49:06 CPU Time: 0 0: 2:51.84 (171.84 sec) Binary
2530 Time Step No. = 680 Elapsed Time = 1.485303E+05 days
2531 Date: 02/14/07 Time: 09:49:12 CPU Time: 0 0: 2:57.41 (177.41 sec) Binary
2533 Time Step No. = 700 Elapsed Time = 1.493933E+05 days
2534 Date: 02/14/07 Time: 09:49:16 CPU Time: 0 0: 3: 1.41 (181.41 sec) Binary
2536 Time Step No. = 720 Elapsed Time = 1.593167E+05 days
2537 Date: 02/14/07 Time: 09:49:22 CPU Time: 0 0: 3: 7.32 (187.32 sec) Binary
2539 Time Step No. = 740 Elapsed Time = 2.099806E+05 days
2540 Date: 02/14/07 Time: 09:49:31 CPU Time: 0 0: 3:16.43 (196.43 sec) Binary
2542 Time Step No. = 760 Elapsed Time = 2.105719E+05 days
2543 Date: 02/14/07 Time: 09:49:37 CPU Time: 0 0: 3:22.20 (202.20 sec) Binary
2545 Time Step No. = 780 Elapsed Time = 2.202234E+05 days
2546 Date: 02/14/07 Time: 09:49:41 CPU Time: 0 0: 3:26.39 (206.39 sec) Binary
2548 Time Step No. = 800 Elapsed Time = 3.150363E+05 days
2549 Date: 02/14/07 Time: 09:49:48 CPU Time: 0 0: 3:32.85 (212.85 sec) Binary
2551 Time Step No. = 820 Elapsed Time = 3.629194E+05 days
2552 Date: 02/14/07 Time: 09:49:57 CPU Time: 0 0: 3:42.09 (222.09 sec) Binary
2554 Time Step No. = 840 Elapsed Time = 3.652535E+05 days
2555 Date: 02/14/07 Time: 09:50:04 CPU Time: 0 0: 3:49.64 (229.64 sec) Binary
2557 Time Step No. = 860 Elapsed Time = 3.653114E+05 days
2558 Date: 02/14/07 Time: 09:50:10 CPU Time: 0 0: 3:55.16 (235.16 sec) Binary
2560 Time Step No. = 880 Elapsed Time = 3.653632E+05 days
2561 Date: 02/14/07 Time: 09:50:17 CPU Time: 0 0: 4: 2.23 (242.23 sec) Binary
2563 Time Step No. = 900 Elapsed Time = 3.658270E+05 days

2564 Date: 02/14/07 Time: 09:50:21 CPU Time: 0 0: 4: 6.46 (246.46 sec) Binary
2566 Time Step No. = 920 Elapsed Time = 3.666406E+05 days
2567 Date: 02/14/07 Time: 09:50:24 CPU Time: 0 0: 4: 9.04 (249.04 sec) Binary
2569 Time Step No. = 940 Elapsed Time = 3.666905E+05 days
2570 Date: 02/14/07 Time: 09:50:26 CPU Time: 0 0: 4:10.71 (250.71 sec) Binary
2572 Time Step No. = 960 Elapsed Time = 3.710191E+05 days
2573 Date: 02/14/07 Time: 09:50:30 CPU Time: 0 0: 4:14.70 (254.70 sec) Binary
2575 Time Step No. = 980 Elapsed Time = 3.996908E+05 days
2576 Date: 02/14/07 Time: 09:50:37 CPU Time: 0 0: 4:22.52 (262.52 sec) Binary
2578 Time Step No. = 1000 Elapsed Time = 4.303223E+05 days
2579 Date: 02/14/07 Time: 09:50:42 CPU Time: 0 0: 4:27.53 (267.53 sec) Binary
2581 Time Step No. = 1020 Elapsed Time = 4.969452E+05 days
2582 Date: 02/14/07 Time: 09:50:51 CPU Time: 0 0: 4:36.26 (276.26 sec) Binary
2584 Time Step No. = 1040 Elapsed Time = 5.110604E+05 days
2585 Date: 02/14/07 Time: 09:50:59 CPU Time: 0 0: 4:44.48 (284.48 sec) Binary
2587 Time Step No. = 1060 Elapsed Time = 7.111569E+05 days
2588 Date: 02/14/07 Time: 09:51:10 CPU Time: 0 0: 4:54.62 (294.62 sec) Binary
2590 Time Step No. = 1080 Elapsed Time = 7.246704E+05 days
2591 Date: 02/14/07 Time: 09:51:15 CPU Time: 0 0: 4:59.77 (299.77 sec) Binary
2593 Time Step No. = 1100 Elapsed Time = 7.854601E+05 days
2594 Date: 02/14/07 Time: 09:51:23 CPU Time: 0 0: 5: 7.80 (307.80 sec) Binary
2596 Time Step No. = 1120 Elapsed Time = 7.901528E+05 days
2597 Date: 02/14/07 Time: 09:51:30 CPU Time: 0 0: 5:14.48 (314.48 sec) Binary
2599 Time Step No. = 1140 Elapsed Time = 8.541211E+05 days
2600 Date: 02/14/07 Time: 09:51:37 CPU Time: 0 0: 5:21.81 (321.81 sec) Binary
2602 Time Step No. = 1160 Elapsed Time = 8.709685E+05 days
2603 Date: 02/14/07 Time: 09:51:43 CPU Time: 0 0: 5:28.16 (328.16 sec) Binary
2605 Time Step No. = 1180 Elapsed Time = 9.290932E+05 days
2606 Date: 02/14/07 Time: 09:51:52 CPU Time: 0 0: 5:36.94 (336.94 sec) Binary
2608 Time Step No. = 1200 Elapsed Time = 9.435530E+05 days
2609 Date: 02/14/07 Time: 09:52:01 CPU Time: 0 0: 5:46.00 (346.00 sec) Binary
2611 Time Step No. = 1220 Elapsed Time = 9.561082E+05 days
2612 Date: 02/14/07 Time: 09:52:08 CPU Time: 0 0: 5:53.21 (353.21 sec) Binary
2614 Time Step No. = 1240 Elapsed Time = 9.627294E+05 days
2615 Date: 02/14/07 Time: 09:52:16 CPU Time: 0 0: 6: 0.55 (360.55 sec) Binary
2617 Time Step No. = 1260 Elapsed Time = 9.692275E+05 days
2618 Date: 02/14/07 Time: 09:52:25 CPU Time: 0 0: 6:10.21 (370.21 sec) Binary
2620 Time Step No. = 1280 Elapsed Time = 9.817318E+05 days
2621 Date: 02/14/07 Time: 09:52:31 CPU Time: 0 0: 6:15.94 (375.94 sec) Binary
2623 Time Step No. = 1300 Elapsed Time = 1.000743E+06 days
2624 Date: 02/14/07 Time: 09:52:39 CPU Time: 0 0: 6:23.60 (383.60 sec) Binary
2626 Time Step No. = 1320 Elapsed Time = 1.009513E+06 days
2627 Date: 02/14/07 Time: 09:52:48 CPU Time: 0 0: 6:32.43 (392.43 sec) Binary
2629 Time Step No. = 1340 Elapsed Time = 1.018276E+06 days
2630 Date: 02/14/07 Time: 09:52:54 CPU Time: 0 0: 6:39.16 (399.16 sec) Binary
2632 Time Step No. = 1360 Elapsed Time = 1.025094E+06 days
2633 Date: 02/14/07 Time: 09:52:58 CPU Time: 0 0: 6:42.55 (402.55 sec) Binary
2635 Time Step No. = 1380 Elapsed Time = 1.066575E+06 days
2636 Date: 02/14/07 Time: 09:53:06 CPU Time: 0 0: 6:50.59 (410.59 sec) Binary
2638 Time Step No. = 1400 Elapsed Time = 1.078881E+06 days
2639 Date: 02/14/07 Time: 09:53:10 CPU Time: 0 0: 6:54.29 (414.29 sec) Binary
2641 Time Step No. = 1420 Elapsed Time = 1.161020E+06 days
2642 Date: 02/14/07 Time: 09:53:18 CPU Time: 0 0: 7: 2.22 (422.22 sec) Binary
2644 Time Step No. = 1440 Elapsed Time = 1.265422E+06 days
2645 Date: 02/14/07 Time: 09:53:24 CPU Time: 0 0: 7: 8.96 (428.96 sec) Binary
2647 Time Step No. = 1460 Elapsed Time = 1.472580E+06 days
2648 Date: 02/14/07 Time: 09:53:28 CPU Time: 0 0: 7:13.09 (433.09 sec) Binary
2650 Time Step No. = 1480 Elapsed Time = 1.872580E+06 days
2651 Date: 02/14/07 Time: 09:53:34 CPU Time: 0 0: 7:18.70 (438.70 sec) Binary
2653 Time Step No. = 1500 Elapsed Time = 2.099689E+06 days
2654 Date: 02/14/07 Time: 09:53:41 CPU Time: 0 0: 7:25.83 (445.83 sec) Binary
2656 Time Step No. = 1520 Elapsed Time = 2.499689E+06 days
2657 Date: 02/14/07 Time: 09:53:47 CPU Time: 0 0: 7:31.23 (451.23 sec) Binary
2659 Time Step No. = 1540 Elapsed Time = 2.899689E+06 days
2660 Date: 02/14/07 Time: 09:53:51 CPU Time: 0 0: 7:35.99 (455.99 sec) Binary
2662 Time Step No. = 1560 Elapsed Time = 3.299689E+06 days
2663 Date: 02/14/07 Time: 09:53:56 CPU Time: 0 0: 7:40.13 (460.13 sec) Binary
2666 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1

2682 CPU Time (this time step) = 0.17 sec = 0.00005 hr

2683 CPU Time (total for run) = 415.56 sec = 0.11543 hr

2684 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1

Information Only

```
2682 CPU Time (this time step) = 0.21 sec = 0.00006 hr
2683 CPU Time (total for run) = 463.86 sec = 0.12885 hr
2684 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
3360 Date: 02/14/07 Time: 10:46:21 CPU Time: 0 0: 6:55.58 ( 415.58 sec) ASCII
3362 Time Step No. = 1578 Elapsed Time = 3.652431E+06 days
3363 Date: 02/14/07 Time: 10:46:21 CPU Time: 0 0: 6:55.58 ( 415.58 sec) Binary
3368 *****
3369 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3370 * Completed: 02/14/07 at 10:46:21 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
3371 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
3360 Date: 02/14/07 Time: 09:53:59 CPU Time: 0 0: 7:43.88 ( 463.88 sec) ASCII
3362 Time Step No. = 1578 Elapsed Time = 3.652431E+06 days
3363 Date: 02/14/07 Time: 09:53:59 CPU Time: 0 0: 7:43.89 ( 463.89 sec) Binary
3368 *****
3369 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3370 * Completed: 02/14/07 at 09:53:59 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3371 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 160

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
```

BF2_QB0600_ES45_TEST7_V009_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
3 ** Begun on: 02/14/07 at 10:44:20 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
3 ** Begun on: 02/14/07 at 09:52:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_TEST7_V009.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.SUM;1
77 *****
```

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.ROT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.ROT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
  1772 CPU Time (this time step) = 0.12 sec = 0.00003 hr
  1773 CPU Time (total for run) = 54.69 sec = 0.01519 hr
  1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
  1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
  1773 CPU Time (total for run) = 59.73 sec = 0.01659 hr
  1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
  2450 Date: 02/14/07 Time: 10:45:15 CPU Time: 0 0: 0:54.70 ( 54.70 sec) ASCII
  2452 Time Step No. = 266 Elapsed Time = 0.000000E+00 days
  2453 Date: 02/14/07 Time: 10:45:15 CPU Time: 0 0: 0:54.70 ( 54.70 sec) Binary
  2455 Time Step No. = 280 Elapsed Time = 1.358585E-02 days
  2456 Date: 02/14/07 Time: 10:45:19 CPU Time: 0 0: 0:59.29 ( 59.29 sec) Binary
  2458 Time Step No. = 300 Elapsed Time = 8.176210E-01 days
  2459 Date: 02/14/07 Time: 10:45:23 CPU Time: 0 0: 1: 2.97 ( 62.97 sec) Binary
  2461 Time Step No. = 320 Elapsed Time = 2.056227E+01 days
  2462 Date: 02/14/07 Time: 10:45:26 CPU Time: 0 0: 1: 5.82 ( 65.82 sec) Binary
  2464 Time Step No. = 340 Elapsed Time = 3.883849E+02 days
  2465 Date: 02/14/07 Time: 10:45:30 CPU Time: 0 0: 1: 9.44 ( 69.44 sec) Binary
  2467 Time Step No. = 360 Elapsed Time = 2.773294E+03 days
  2468 Date: 02/14/07 Time: 10:45:35 CPU Time: 0 0: 1:14.78 ( 74.78 sec) Binary
  2470 Time Step No. = 380 Elapsed Time = 6.744221E+03 days
  2471 Date: 02/14/07 Time: 10:45:47 CPU Time: 0 0: 1:26.47 ( 86.47 sec) Binary
  2473 Time Step No. = 400 Elapsed Time = 6.767595E+03 days
  2474 Date: 02/14/07 Time: 10:45:49 CPU Time: 0 0: 1:28.36 ( 88.36 sec) Binary
  2476 Time Step No. = 420 Elapsed Time = 6.921045E+03 days
  2477 Date: 02/14/07 Time: 10:45:55 CPU Time: 0 0: 1:35.26 ( 95.26 sec) Binary
  2479 Time Step No. = 440 Elapsed Time = 7.006907E+03 days
  2480 Date: 02/14/07 Time: 10:45:58 CPU Time: 0 0: 1:37.69 ( 97.69 sec) Binary
  2482 Time Step No. = 460 Elapsed Time = 7.220026E+03 days
  2483 Date: 02/14/07 Time: 10:46:06 CPU Time: 0 0: 1:45.24 ( 105.24 sec) Binary
  2485 Time Step No. = 480 Elapsed Time = 7.377731E+03 days
  2486 Date: 02/14/07 Time: 10:46:08 CPU Time: 0 0: 1:47.97 ( 107.97 sec) Binary
  2488 Time Step No. = 500 Elapsed Time = 8.413059E+03 days
  2489 Date: 02/14/07 Time: 10:46:15 CPU Time: 0 0: 1:54.24 ( 114.24 sec) Binary
  2491 Time Step No. = 520 Elapsed Time = 8.706621E+03 days
  2492 Date: 02/14/07 Time: 10:46:22 CPU Time: 0 0: 2: 1.75 ( 121.75 sec) Binary
  2494 Time Step No. = 540 Elapsed Time = 8.731156E+03 days
  2495 Date: 02/14/07 Time: 10:46:24 CPU Time: 0 0: 2: 3.75 ( 123.75 sec) Binary
  2497 Time Step No. = 560 Elapsed Time = 8.783097E+03 days
  2498 Date: 02/14/07 Time: 10:46:31 CPU Time: 0 0: 2:10.50 ( 130.50 sec) Binary
  2500 Time Step No. = 580 Elapsed Time = 8.873224E+03 days
  2501 Date: 02/14/07 Time: 10:46:34 CPU Time: 0 0: 2:13.04 ( 133.04 sec) Binary
  2503 Time Step No. = 600 Elapsed Time = 8.967808E+03 days
  2504 Date: 02/14/07 Time: 10:46:41 CPU Time: 0 0: 2:19.79 ( 139.79 sec) Binary
  2506 Time Step No. = 620 Elapsed Time = 9.629958E+03 days
  2507 Date: 02/14/07 Time: 10:46:44 CPU Time: 0 0: 2:22.99 ( 142.99 sec) Binary
  2509 Time Step No. = 640 Elapsed Time = 9.720759E+03 days
```

2510 Date: 02/14/07 Time: 10:46:51 CPU Time: 0 0: 2:30.39 (150.39 sec) Binary
2512 Time Step No. = 660 Elapsed Time = 9.817097E+03 days
2513 Date: 02/14/07 Time: 10:46:59 CPU Time: 0 0: 2:38.16 (158.16 sec) Binary
2515 Time Step No. = 680 Elapsed Time = 9.829974E+03 days
2516 Date: 02/14/07 Time: 10:47:01 CPU Time: 0 0: 2:40.06 (160.06 sec) Binary
2518 Time Step No. = 700 Elapsed Time = 9.879586E+03 days
2519 Date: 02/14/07 Time: 10:47:07 CPU Time: 0 0: 2:46.58 (166.58 sec) Binary
2521 Time Step No. = 720 Elapsed Time = 9.926888E+03 days
2522 Date: 02/14/07 Time: 10:47:10 CPU Time: 0 0: 2:48.78 (168.78 sec) Binary
2524 Time Step No. = 740 Elapsed Time = 9.955795E+03 days
2525 Date: 02/14/07 Time: 10:47:16 CPU Time: 0 0: 2:55.41 (175.41 sec) Binary
2527 Time Step No. = 760 Elapsed Time = 1.004381E+04 days
2528 Date: 02/14/07 Time: 10:47:24 CPU Time: 0 0: 3: 3.05 (183.05 sec) Binary
2530 Time Step No. = 780 Elapsed Time = 1.005117E+04 days
2531 Date: 02/14/07 Time: 10:47:25 CPU Time: 0 0: 3: 4.71 (184.71 sec) Binary
2533 Time Step No. = 800 Elapsed Time = 1.011334E+04 days
2534 Date: 02/14/07 Time: 10:47:32 CPU Time: 0 0: 3:11.71 (191.71 sec) Binary
2536 Time Step No. = 820 Elapsed Time = 1.014038E+04 days
2537 Date: 02/14/07 Time: 10:47:35 CPU Time: 0 0: 3:13.72 (193.72 sec) Binary
2539 Time Step No. = 840 Elapsed Time = 1.021957E+04 days
2540 Date: 02/14/07 Time: 10:47:41 CPU Time: 0 0: 3:20.36 (200.36 sec) Binary
2542 Time Step No. = 860 Elapsed Time = 1.041817E+04 days
2543 Date: 02/14/07 Time: 10:47:44 CPU Time: 0 0: 3:23.25 (203.25 sec) Binary
2545 Time Step No. = 880 Elapsed Time = 1.365675E+04 days
2546 Date: 02/14/07 Time: 10:47:49 CPU Time: 0 0: 3:28.11 (208.11 sec) Binary
2548 Time Step No. = 900 Elapsed Time = 1.556649E+04 days
2549 Date: 02/14/07 Time: 10:47:59 CPU Time: 0 0: 3:38.21 (218.21 sec) Binary
2551 Time Step No. = 920 Elapsed Time = 1.562828E+04 days
2552 Date: 02/14/07 Time: 10:48:02 CPU Time: 0 0: 3:40.76 (220.76 sec) Binary
2554 Time Step No. = 940 Elapsed Time = 1.939403E+04 days
2555 Date: 02/14/07 Time: 10:48:07 CPU Time: 0 0: 3:45.92 (225.92 sec) Binary
2557 Time Step No. = 960 Elapsed Time = 2.123309E+04 days
2558 Date: 02/14/07 Time: 10:48:17 CPU Time: 0 0: 3:56.29 (236.29 sec) Binary
2560 Time Step No. = 980 Elapsed Time = 2.131000E+04 days
2561 Date: 02/14/07 Time: 10:48:20 CPU Time: 0 0: 3:59.08 (239.08 sec) Binary
2563 Time Step No. = 1000 Elapsed Time = 2.294013E+04 days
2564 Date: 02/14/07 Time: 10:48:31 CPU Time: 0 0: 4:10.25 (250.25 sec) Binary
2566 Time Step No. = 1020 Elapsed Time = 2.294896E+04 days
2567 Date: 02/14/07 Time: 10:48:33 CPU Time: 0 0: 4:12.09 (252.09 sec) Binary
2569 Time Step No. = 1040 Elapsed Time = 2.371476E+04 days
2570 Date: 02/14/07 Time: 10:48:37 CPU Time: 0 0: 4:15.71 (255.71 sec) Binary
2572 Time Step No. = 1060 Elapsed Time = 2.412100E+04 days
2573 Date: 02/14/07 Time: 10:48:46 CPU Time: 0 0: 4:25.52 (265.52 sec) Binary
2575 Time Step No. = 1080 Elapsed Time = 2.417691E+04 days
2576 Date: 02/14/07 Time: 10:48:54 CPU Time: 0 0: 4:33.33 (273.33 sec) Binary
2578 Time Step No. = 1100 Elapsed Time = 2.418063E+04 days
2579 Date: 02/14/07 Time: 10:48:56 CPU Time: 0 0: 4:34.95 (274.95 sec) Binary
2581 Time Step No. = 1120 Elapsed Time = 2.450356E+04 days
2582 Date: 02/14/07 Time: 10:48:59 CPU Time: 0 0: 4:38.16 (278.16 sec) Binary
2584 Time Step No. = 1140 Elapsed Time = 2.827711E+04 days
2585 Date: 02/14/07 Time: 10:49:07 CPU Time: 0 0: 4:46.05 (286.05 sec) Binary
2587 Time Step No. = 1160 Elapsed Time = 2.828638E+04 days
2588 Date: 02/14/07 Time: 10:49:14 CPU Time: 0 0: 4:52.83 (292.83 sec) Binary
2590 Time Step No. = 1180 Elapsed Time = 2.909021E+04 days
2591 Date: 02/14/07 Time: 10:49:18 CPU Time: 0 0: 4:56.50 (296.50 sec) Binary
2593 Time Step No. = 1200 Elapsed Time = 3.111835E+04 days
2594 Date: 02/14/07 Time: 10:49:28 CPU Time: 0 0: 5: 7.37 (307.37 sec) Binary
2596 Time Step No. = 1220 Elapsed Time = 3.116449E+04 days
2597 Date: 02/14/07 Time: 10:49:31 CPU Time: 0 0: 5: 9.98 (309.98 sec) Binary
2599 Time Step No. = 1240 Elapsed Time = 3.417846E+04 days
2600 Date: 02/14/07 Time: 10:49:36 CPU Time: 0 0: 5:14.65 (314.65 sec) Binary
2602 Time Step No. = 1260 Elapsed Time = 3.574682E+04 days
2603 Date: 02/14/07 Time: 10:49:46 CPU Time: 0 0: 5:25.40 (325.40 sec) Binary
2605 Time Step No. = 1280 Elapsed Time = 3.586166E+04 days
2606 Date: 02/14/07 Time: 10:49:50 CPU Time: 0 0: 5:28.33 (328.33 sec) Binary
2608 Time Step No. = 1300 Elapsed Time = 3.593185E+04 days
2609 Date: 02/14/07 Time: 10:49:56 CPU Time: 0 0: 5:35.19 (335.19 sec) Binary
2611 Time Step No. = 1320 Elapsed Time = 3.595645E+04 days
2612 Date: 02/14/07 Time: 10:50:04 CPU Time: 0 0: 5:42.31 (342.31 sec) Binary
2614 Time Step No. = 1340 Elapsed Time = 3.597432E+04 days
2615 Date: 02/14/07 Time: 10:50:06 CPU Time: 0 0: 5:44.41 (344.41 sec) Binary
2617 Time Step No. = 1360 Elapsed Time = 3.641887E+04 days
2618 Date: 02/14/07 Time: 10:50:14 CPU Time: 0 0: 5:52.40 (352.40 sec) Binary
2620 Time Step No. = 1380 Elapsed Time = 3.645168E+04 days
2621 Date: 02/14/07 Time: 10:50:16 CPU Time: 0 0: 5:54.88 (354.88 sec) Binary
2623 Time Step No. = 1400 Elapsed Time = 3.652004E+04 days

2624	Date: 02/14/07	Time: 10:50:23	CPU Time: 0 0: 6: 1.94 (361.94 sec)	Binary
2626	Time Step No. = 1420	Elapsed Time = 3.652431E+04 days		
2627	Date: 02/14/07	Time: 10:50:31	CPU Time: 0 0: 6: 9.61 (369.61 sec)	Binary
2629	Time Step No. = 1440	Elapsed Time = 3.652431E+04 days		
2630	Date: 02/14/07	Time: 10:50:33	CPU Time: 0 0: 6:12.10 (372.10 sec)	Binary
2632	Time Step No. = 1460	Elapsed Time = 3.652431E+04 days		
2633	Date: 02/14/07	Time: 10:50:36	CPU Time: 0 0: 6:14.59 (374.59 sec)	Binary
2635	Time Step No. = 1480	Elapsed Time = 3.652431E+04 days		
2636	Date: 02/14/07	Time: 10:50:39	CPU Time: 0 0: 6:17.39 (377.39 sec)	Binary
2638	Time Step No. = 1500	Elapsed Time = 3.652442E+04 days		
2639	Date: 02/14/07	Time: 10:50:42	CPU Time: 0 0: 6:20.26 (380.26 sec)	Binary
2641	Time Step No. = 1520	Elapsed Time = 3.653418E+04 days		
2642	Date: 02/14/07	Time: 10:50:45	CPU Time: 0 0: 6:23.23 (383.23 sec)	Binary
2644	Time Step No. = 1540	Elapsed Time = 3.666627E+04 days		
2645	Date: 02/14/07	Time: 10:50:47	CPU Time: 0 0: 6:25.97 (385.97 sec)	Binary
2647	Time Step No. = 1560	Elapsed Time = 3.668671E+04 days		
2648	Date: 02/14/07	Time: 10:50:50	CPU Time: 0 0: 6:28.27 (388.27 sec)	Binary
2650	Time Step No. = 1580	Elapsed Time = 3.670728E+04 days		
2651	Date: 02/14/07	Time: 10:50:57	CPU Time: 0 0: 6:35.37 (395.37 sec)	Binary
2653	Time Step No. = 1600	Elapsed Time = 3.678237E+04 days		
2654	Date: 02/14/07	Time: 10:51:00	CPU Time: 0 0: 6:38.30 (398.30 sec)	Binary
2656	Time Step No. = 1620	Elapsed Time = 3.716779E+04 days		
2657	Date: 02/14/07	Time: 10:51:09	CPU Time: 0 0: 6:47.31 (407.31 sec)	Binary
2659	Time Step No. = 1640	Elapsed Time = 3.718347E+04 days		
2660	Date: 02/14/07	Time: 10:51:11	CPU Time: 0 0: 6:49.44 (409.44 sec)	Binary
2662	Time Step No. = 1660	Elapsed Time = 3.724390E+04 days		
2663	Date: 02/14/07	Time: 10:51:18	CPU Time: 0 0: 6:56.87 (416.87 sec)	Binary
2665	Time Step No. = 1680	Elapsed Time = 3.730151E+04 days		
2666	Date: 02/14/07	Time: 10:51:21	CPU Time: 0 0: 6:59.78 (419.78 sec)	Binary
2668	Time Step No. = 1700	Elapsed Time = 3.752349E+04 days		
2669	Date: 02/14/07	Time: 10:51:29	CPU Time: 0 0: 7: 7.19 (427.19 sec)	Binary
2671	Time Step No. = 1720	Elapsed Time = 3.773513E+04 days		
2672	Date: 02/14/07	Time: 10:51:32	CPU Time: 0 0: 7:10.33 (430.33 sec)	Binary
2674	Time Step No. = 1740	Elapsed Time = 3.794042E+04 days		
2675	Date: 02/14/07	Time: 10:51:40	CPU Time: 0 0: 7:18.01 (438.01 sec)	Binary
2677	Time Step No. = 1760	Elapsed Time = 3.803760E+04 days		
2678	Date: 02/14/07	Time: 10:51:43	CPU Time: 0 0: 7:20.98 (440.98 sec)	Binary
2680	Time Step No. = 1780	Elapsed Time = 3.956208E+04 days		
2681	Date: 02/14/07	Time: 10:51:51	CPU Time: 0 0: 7:29.04 (449.04 sec)	Binary
2683	Time Step No. = 1800	Elapsed Time = 4.088771E+04 days		
2684	Date: 02/14/07	Time: 10:52:04	CPU Time: 0 0: 7:42.00 (462.00 sec)	Binary
2686	Time Step No. = 1820	Elapsed Time = 4.089527E+04 days		
2687	Date: 02/14/07	Time: 10:52:06	CPU Time: 0 0: 7:43.90 (463.90 sec)	Binary
2689	Time Step No. = 1840	Elapsed Time = 4.155094E+04 days		
2690	Date: 02/14/07	Time: 10:52:09	CPU Time: 0 0: 7:47.52 (467.52 sec)	Binary
2692	Time Step No. = 1860	Elapsed Time = 4.294061E+04 days		
2693	Date: 02/14/07	Time: 10:52:19	CPU Time: 0 0: 7:57.39 (477.39 sec)	Binary
2695	Time Step No. = 1880	Elapsed Time = 4.301587E+04 days		
2696	Date: 02/14/07	Time: 10:52:22	CPU Time: 0 0: 8: 0.30 (480.30 sec)	Binary
2698	Time Step No. = 1900	Elapsed Time = 4.760255E+04 days		
2699	Date: 02/14/07	Time: 10:52:28	CPU Time: 0 0: 8: 5.62 (485.62 sec)	Binary
2701	Time Step No. = 1920	Elapsed Time = 4.987005E+04 days		
2702	Date: 02/14/07	Time: 10:52:39	CPU Time: 0 0: 8:16.49 (496.49 sec)	Binary
2704	Time Step No. = 1940	Elapsed Time = 4.996373E+04 days		
2705	Date: 02/14/07	Time: 10:52:42	CPU Time: 0 0: 8:19.46 (499.46 sec)	Binary
2707	Time Step No. = 1960	Elapsed Time = 5.010423E+04 days		
2708	Date: 02/14/07	Time: 10:52:49	CPU Time: 0 0: 8:26.51 (506.51 sec)	Binary
2710	Time Step No. = 1980	Elapsed Time = 5.037876E+04 days		
2711	Date: 02/14/07	Time: 10:52:56	CPU Time: 0 0: 8:34.16 (514.16 sec)	Binary
2713	Time Step No. = 2000	Elapsed Time = 5.039333E+04 days		
2714	Date: 02/14/07	Time: 10:52:58	CPU Time: 0 0: 8:36.23 (516.23 sec)	Binary
2716	Time Step No. = 2020	Elapsed Time = 5.152954E+04 days		
2717	Date: 02/14/07	Time: 10:53:03	CPU Time: 0 0: 8:40.61 (520.61 sec)	Binary
2719	Time Step No. = 2040	Elapsed Time = 5.170355E+04 days		
2720	Date: 02/14/07	Time: 10:53:12	CPU Time: 0 0: 8:49.52 (529.52 sec)	Binary
2722	Time Step No. = 2060	Elapsed Time = 5.179583E+04 days		
2723	Date: 02/14/07	Time: 10:53:20	CPU Time: 0 0: 8:57.57 (537.57 sec)	Binary
2725	Time Step No. = 2080	Elapsed Time = 5.180198E+04 days		
2726	Date: 02/14/07	Time: 10:53:22	CPU Time: 0 0: 8:59.40 (539.40 sec)	Binary
2728	Time Step No. = 2100	Elapsed Time = 5.184257E+04 days		
2729	Date: 02/14/07	Time: 10:53:28	CPU Time: 0 0: 9: 5.92 (545.92 sec)	Binary
2731	Time Step No. = 2120	Elapsed Time = 5.188772E+04 days		
2732	Date: 02/14/07	Time: 10:53:31	CPU Time: 0 0: 9: 8.58 (548.58 sec)	Binary
2734	Time Step No. = 2140	Elapsed Time = 5.191531E+04 days		
2735	Date: 02/14/07	Time: 10:53:38	CPU Time: 0 0: 9:15.52 (555.52 sec)	Binary
2737	Time Step No. = 2160	Elapsed Time = 5.208117E+04 days		

2738 Date: 02/14/07 Time: 10:53:41 CPU Time: 0 0: 9:18.59 (558.59 sec) Binary
2740 Time Step No. = 2180 Elapsed Time = 5.738239E+04 days
2741 Date: 02/14/07 Time: 10:53:47 CPU Time: 0 0: 9:24.57 (564.57 sec) Binary
2743 Time Step No. = 2200 Elapsed Time = 5.874693E+04 days
2744 Date: 02/14/07 Time: 10:53:59 CPU Time: 0 0: 9:36.50 (576.50 sec) Binary
2746 Time Step No. = 2220 Elapsed Time = 5.877274E+04 days
2747 Date: 02/14/07 Time: 10:54:01 CPU Time: 0 0: 9:38.86 (578.86 sec) Binary
2749 Time Step No. = 2240 Elapsed Time = 6.101085E+04 days
2750 Date: 02/14/07 Time: 10:54:05 CPU Time: 0 0: 9:42.94 (582.94 sec) Binary
2752 Time Step No. = 2260 Elapsed Time = 6.281765E+04 days
2753 Date: 02/14/07 Time: 10:54:16 CPU Time: 0 0: 9:53.74 (593.74 sec) Binary
2755 Time Step No. = 2280 Elapsed Time = 6.294611E+04 days
2756 Date: 02/14/07 Time: 10:54:19 CPU Time: 0 0: 9:56.76 (596.76 sec) Binary
2758 Time Step No. = 2300 Elapsed Time = 6.313878E+04 days
2759 Date: 02/14/07 Time: 10:54:26 CPU Time: 0 0:10: 3.39 (603.39 sec) Binary
2761 Time Step No. = 2320 Elapsed Time = 6.361068E+04 days
2762 Date: 02/14/07 Time: 10:54:29 CPU Time: 0 0:10: 6.81 (606.81 sec) Binary
2764 Time Step No. = 2340 Elapsed Time = 6.737769E+04 days
2765 Date: 02/14/07 Time: 10:54:41 CPU Time: 0 0:10:19.04 (619.04 sec) Binary
2767 Time Step No. = 2360 Elapsed Time = 6.740478E+04 days
2768 Date: 02/14/07 Time: 10:54:44 CPU Time: 0 0:10:21.39 (621.39 sec) Binary
2770 Time Step No. = 2380 Elapsed Time = 6.741391E+04 days
2771 Date: 02/14/07 Time: 10:54:50 CPU Time: 0 0:10:27.81 (627.81 sec) Binary
2773 Time Step No. = 2400 Elapsed Time = 6.761291E+04 days
2774 Date: 02/14/07 Time: 10:54:53 CPU Time: 0 0:10:30.98 (630.98 sec) Binary
2776 Time Step No. = 2420 Elapsed Time = 6.773452E+04 days
2777 Date: 02/14/07 Time: 10:55:01 CPU Time: 0 0:10:38.38 (638.38 sec) Binary
2779 Time Step No. = 2440 Elapsed Time = 6.776699E+04 days
2780 Date: 02/14/07 Time: 10:55:08 CPU Time: 0 0:10:45.57 (645.57 sec) Binary
2782 Time Step No. = 2460 Elapsed Time = 6.779795E+04 days
2783 Date: 02/14/07 Time: 10:55:11 CPU Time: 0 0:10:48.08 (648.08 sec) Binary
2785 Time Step No. = 2480 Elapsed Time = 7.048314E+04 days
2786 Date: 02/14/07 Time: 10:55:15 CPU Time: 0 0:10:52.25 (652.25 sec) Binary
2788 Time Step No. = 2500 Elapsed Time = 8.118433E+04 days
2789 Date: 02/14/07 Time: 10:55:23 CPU Time: 0 0:11: 0.64 (660.64 sec) Binary
2791 Time Step No. = 2520 Elapsed Time = 8.428954E+04 days
2792 Date: 02/14/07 Time: 10:55:34 CPU Time: 0 0:11:11.12 (671.12 sec) Binary
2794 Time Step No. = 2540 Elapsed Time = 8.439398E+04 days
2795 Date: 02/14/07 Time: 10:55:37 CPU Time: 0 0:11:14.07 (674.07 sec) Binary
2797 Time Step No. = 2560 Elapsed Time = 8.992246E+04 days
2798 Date: 02/14/07 Time: 10:55:43 CPU Time: 0 0:11:19.44 (679.44 sec) Binary
2800 Time Step No. = 2580 Elapsed Time = 9.139559E+04 days
2801 Date: 02/14/07 Time: 10:55:52 CPU Time: 0 0:11:29.25 (689.25 sec) Binary
2803 Time Step No. = 2600 Elapsed Time = 9.153888E+04 days
2804 Date: 02/14/07 Time: 10:55:58 CPU Time: 0 0:11:35.20 (695.20 sec) Binary
2806 Time Step No. = 2620 Elapsed Time = 9.175238E+04 days
2807 Date: 02/14/07 Time: 10:56:05 CPU Time: 0 0:11:41.38 (701.38 sec) Binary
2809 Time Step No. = 2640 Elapsed Time = 9.184598E+04 days
2810 Date: 02/14/07 Time: 10:56:12 CPU Time: 0 0:11:48.31 (708.31 sec) Binary
2812 Time Step No. = 2660 Elapsed Time = 9.190019E+04 days
2813 Date: 02/14/07 Time: 10:56:20 CPU Time: 0 0:11:57.02 (717.02 sec) Binary
2815 Time Step No. = 2680 Elapsed Time = 9.194215E+04 days
2816 Date: 02/14/07 Time: 10:56:26 CPU Time: 0 0:12: 2.95 (722.95 sec) Binary
2818 Time Step No. = 2700 Elapsed Time = 9.204832E+04 days
2819 Date: 02/14/07 Time: 10:56:33 CPU Time: 0 0:12:10.07 (730.07 sec) Binary
2821 Time Step No. = 2720 Elapsed Time = 9.208378E+04 days
2822 Date: 02/14/07 Time: 10:56:42 CPU Time: 0 0:12:19.10 (739.10 sec) Binary
2824 Time Step No. = 2740 Elapsed Time = 9.211140E+04 days
2825 Date: 02/14/07 Time: 10:56:51 CPU Time: 0 0:12:27.55 (747.55 sec) Binary
2827 Time Step No. = 2760 Elapsed Time = 9.214645E+04 days
2828 Date: 02/14/07 Time: 10:57:01 CPU Time: 0 0:12:37.20 (757.20 sec) Binary
2830 Time Step No. = 2780 Elapsed Time = 9.216828E+04 days
2831 Date: 02/14/07 Time: 10:57:09 CPU Time: 0 0:12:46.03 (766.03 sec) Binary
2833 Time Step No. = 2800 Elapsed Time = 9.218932E+04 days
2834 Date: 02/14/07 Time: 10:57:17 CPU Time: 0 0:12:54.03 (774.03 sec) Binary
2836 Time Step No. = 2820 Elapsed Time = 9.220924E+04 days
2837 Date: 02/14/07 Time: 10:57:26 CPU Time: 0 0:13: 2.65 (782.65 sec) Binary
2839 Time Step No. = 2840 Elapsed Time = 9.222973E+04 days
2840 Date: 02/14/07 Time: 10:57:35 CPU Time: 0 0:13:11.02 (791.02 sec) Binary
2842 Time Step No. = 2860 Elapsed Time = 9.225032E+04 days
2843 Date: 02/14/07 Time: 10:57:42 CPU Time: 0 0:13:18.91 (798.91 sec) Binary
2845 Time Step No. = 2880 Elapsed Time = 9.227070E+04 days
2846 Date: 02/14/07 Time: 10:57:52 CPU Time: 0 0:13:28.78 (808.78 sec) Binary
2848 Time Step No. = 2900 Elapsed Time = 9.229232E+04 days
2849 Date: 02/14/07 Time: 10:58:02 CPU Time: 0 0:13:38.07 (818.07 sec) Binary
2851 Time Step No. = 2920 Elapsed Time = 9.231037E+04 days

2852 Date: 02/14/07 Time: 10:58:09 CPU Time: 0 0:13:45.94 (825.94 sec) Binary
2854 Time Step No. = 2940 Elapsed Time = 9.232895E+04 days
2855 Date: 02/14/07 Time: 10:58:17 CPU Time: 0 0:13:53.31 (833.31 sec) Binary
2857 Time Step No. = 2960 Elapsed Time = 9.234552E+04 days
2858 Date: 02/14/07 Time: 10:58:24 CPU Time: 0 0:13:59.96 (839.96 sec) Binary
2860 Time Step No. = 2980 Elapsed Time = 9.236376E+04 days
2861 Date: 02/14/07 Time: 10:58:30 CPU Time: 0 0:14: 6.86 (846.86 sec) Binary
2863 Time Step No. = 3000 Elapsed Time = 9.238011E+04 days
2864 Date: 02/14/07 Time: 10:58:37 CPU Time: 0 0:14:13.40 (853.40 sec) Binary
2866 Time Step No. = 3020 Elapsed Time = 9.239686E+04 days
2867 Date: 02/14/07 Time: 10:58:43 CPU Time: 0 0:14:19.48 (859.48 sec) Binary
2869 Time Step No. = 3040 Elapsed Time = 9.241242E+04 days
2870 Date: 02/14/07 Time: 10:58:50 CPU Time: 0 0:14:26.01 (866.01 sec) Binary
2872 Time Step No. = 3060 Elapsed Time = 9.242781E+04 days
2873 Date: 02/14/07 Time: 10:58:56 CPU Time: 0 0:14:32.06 (872.06 sec) Binary
2875 Time Step No. = 3080 Elapsed Time = 9.244312E+04 days
2876 Date: 02/14/07 Time: 10:59:02 CPU Time: 0 0:14:38.60 (878.60 sec) Binary
2878 Time Step No. = 3100 Elapsed Time = 9.245725E+04 days
2879 Date: 02/14/07 Time: 10:59:08 CPU Time: 0 0:14:44.66 (884.66 sec) Binary
2881 Time Step No. = 3120 Elapsed Time = 9.247181E+04 days
2882 Date: 02/14/07 Time: 10:59:15 CPU Time: 0 0:14:50.97 (890.97 sec) Binary
2884 Time Step No. = 3140 Elapsed Time = 9.248478E+04 days
2885 Date: 02/14/07 Time: 10:59:20 CPU Time: 0 0:14:56.46 (896.46 sec) Binary
2887 Time Step No. = 3160 Elapsed Time = 9.249861E+04 days
2888 Date: 02/14/07 Time: 10:59:26 CPU Time: 0 0:15: 2.58 (902.58 sec) Binary
2890 Time Step No. = 3180 Elapsed Time = 9.251140E+04 days
2891 Date: 02/14/07 Time: 10:59:32 CPU Time: 0 0:15: 7.96 (907.96 sec) Binary
2893 Time Step No. = 3200 Elapsed Time = 9.252410E+04 days
2894 Date: 02/14/07 Time: 10:59:37 CPU Time: 0 0:15:13.71 (913.71 sec) Binary
2896 Time Step No. = 3220 Elapsed Time = 9.253757E+04 days
2897 Date: 02/14/07 Time: 10:59:43 CPU Time: 0 0:15:18.98 (918.98 sec) Binary
2899 Time Step No. = 3240 Elapsed Time = 9.255098E+04 days
2900 Date: 02/14/07 Time: 10:59:48 CPU Time: 0 0:15:24.26 (924.26 sec) Binary
2902 Time Step No. = 3260 Elapsed Time = 9.256381E+04 days
2903 Date: 02/14/07 Time: 10:59:54 CPU Time: 0 0:15:30.05 (930.05 sec) Binary
2905 Time Step No. = 3280 Elapsed Time = 9.257743E+04 days
2906 Date: 02/14/07 Time: 10:59:59 CPU Time: 0 0:15:35.34 (935.34 sec) Binary
2908 Time Step No. = 3300 Elapsed Time = 9.259099E+04 days
2909 Date: 02/14/07 Time: 11:00:05 CPU Time: 0 0:15:41.09 (941.09 sec) Binary
2911 Time Step No. = 3320 Elapsed Time = 9.260441E+04 days
2912 Date: 02/14/07 Time: 11:00:10 CPU Time: 0 0:15:46.35 (946.35 sec) Binary
2914 Time Step No. = 3340 Elapsed Time = 9.261774E+04 days
2915 Date: 02/14/07 Time: 11:00:16 CPU Time: 0 0:15:52.06 (952.06 sec) Binary
2917 Time Step No. = 3360 Elapsed Time = 9.263189E+04 days
2918 Date: 02/14/07 Time: 11:00:21 CPU Time: 0 0:15:57.31 (957.31 sec) Binary
2920 Time Step No. = 3380 Elapsed Time = 9.264596E+04 days
2921 Date: 02/14/07 Time: 11:00:26 CPU Time: 0 0:16: 2.56 (962.56 sec) Binary
2923 Time Step No. = 3400 Elapsed Time = 9.265943E+04 days
2924 Date: 02/14/07 Time: 11:00:32 CPU Time: 0 0:16: 8.27 (968.27 sec) Binary
2926 Time Step No. = 3420 Elapsed Time = 9.267372E+04 days
2927 Date: 02/14/07 Time: 11:00:37 CPU Time: 0 0:16:13.52 (973.52 sec) Binary
2929 Time Step No. = 3440 Elapsed Time = 9.268795E+04 days
2930 Date: 02/14/07 Time: 11:00:43 CPU Time: 0 0:16:19.22 (979.22 sec) Binary
2932 Time Step No. = 3460 Elapsed Time = 9.270205E+04 days
2933 Date: 02/14/07 Time: 11:00:48 CPU Time: 0 0:16:24.46 (984.46 sec) Binary
2935 Time Step No. = 3480 Elapsed Time = 9.271604E+04 days
2936 Date: 02/14/07 Time: 11:00:54 CPU Time: 0 0:16:30.19 (990.19 sec) Binary
2938 Time Step No. = 3500 Elapsed Time = 9.273088E+04 days
2939 Date: 02/14/07 Time: 11:00:59 CPU Time: 0 0:16:35.43 (995.43 sec) Binary
2941 Time Step No. = 3520 Elapsed Time = 9.274566E+04 days
2942 Date: 02/14/07 Time: 11:01:04 CPU Time: 0 0:16:40.67 (1000.67 sec) Binary
2944 Time Step No. = 3540 Elapsed Time = 9.275979E+04 days
2945 Date: 02/14/07 Time: 11:01:10 CPU Time: 0 0:16:46.40 (1006.40 sec) Binary
2947 Time Step No. = 3560 Elapsed Time = 9.277479E+04 days
2948 Date: 02/14/07 Time: 11:01:15 CPU Time: 0 0:16:51.65 (1011.65 sec) Binary
2950 Time Step No. = 3580 Elapsed Time = 9.278974E+04 days
2951 Date: 02/14/07 Time: 11:01:21 CPU Time: 0 0:16:57.37 (1017.37 sec) Binary
2953 Time Step No. = 3600 Elapsed Time = 9.280453E+04 days
2954 Date: 02/14/07 Time: 11:01:26 CPU Time: 0 0:17: 2.61 (1022.61 sec) Binary
2956 Time Step No. = 3620 Elapsed Time = 9.281975E+04 days
2957 Date: 02/14/07 Time: 11:01:32 CPU Time: 0 0:17: 7.86 (1027.86 sec) Binary
2959 Time Step No. = 3640 Elapsed Time = 9.283533E+04 days
2960 Date: 02/14/07 Time: 11:01:37 CPU Time: 0 0:17:13.58 (1033.58 sec) Binary
2962 Time Step No. = 3660 Elapsed Time = 9.285137E+04 days
2963 Date: 02/14/07 Time: 11:01:43 CPU Time: 0 0:17:18.82 (1038.82 sec) Binary
2965 Time Step No. = 3680 Elapsed Time = 9.286675E+04 days

2966 Date: 02/14/07 Time: 11:01:48 CPU Time: 0 0:17:24.54 (1044.54 sec) Binary
2968 Time Step No. = 3700 Elapsed Time = 9.288250E+04 days
2969 Date: 02/14/07 Time: 11:01:54 CPU Time: 0 0:17:29.79 (1049.79 sec) Binary
2971 Time Step No. = 3720 Elapsed Time = 9.289928E+04 days
2972 Date: 02/14/07 Time: 11:01:59 CPU Time: 0 0:17:35.50 (1055.50 sec) Binary
2974 Time Step No. = 3740 Elapsed Time = 9.291592E+04 days
2975 Date: 02/14/07 Time: 11:02:05 CPU Time: 0 0:17:40.75 (1060.75 sec) Binary
2977 Time Step No. = 3760 Elapsed Time = 9.293247E+04 days
2978 Date: 02/14/07 Time: 11:02:10 CPU Time: 0 0:17:46.01 (1066.01 sec) Binary
2980 Time Step No. = 3780 Elapsed Time = 9.294882E+04 days
2981 Date: 02/14/07 Time: 11:02:16 CPU Time: 0 0:17:51.73 (1071.73 sec) Binary
2983 Time Step No. = 3800 Elapsed Time = 9.296682E+04 days
2984 Date: 02/14/07 Time: 11:02:21 CPU Time: 0 0:17:56.96 (1076.96 sec) Binary
2986 Time Step No. = 3820 Elapsed Time = 9.298414E+04 days
2987 Date: 02/14/07 Time: 11:02:27 CPU Time: 0 0:18: 2.68 (1082.68 sec) Binary
2989 Time Step No. = 3840 Elapsed Time = 9.300189E+04 days
2990 Date: 02/14/07 Time: 11:02:32 CPU Time: 0 0:18: 7.94 (1087.94 sec) Binary
2992 Time Step No. = 3860 Elapsed Time = 9.302014E+04 days
2993 Date: 02/14/07 Time: 11:02:37 CPU Time: 0 0:18:13.19 (1093.19 sec) Binary
2995 Time Step No. = 3880 Elapsed Time = 9.303884E+04 days
2996 Date: 02/14/07 Time: 11:02:43 CPU Time: 0 0:18:18.92 (1098.92 sec) Binary
2998 Time Step No. = 3900 Elapsed Time = 9.305808E+04 days
2999 Date: 02/14/07 Time: 11:02:48 CPU Time: 0 0:18:24.16 (1104.16 sec) Binary
3001 Time Step No. = 3920 Elapsed Time = 9.307720E+04 days
3002 Date: 02/14/07 Time: 11:02:54 CPU Time: 0 0:18:29.88 (1109.88 sec) Binary
3004 Time Step No. = 3940 Elapsed Time = 9.309678E+04 days
3005 Date: 02/14/07 Time: 11:02:59 CPU Time: 0 0:18:35.11 (1115.11 sec) Binary
3007 Time Step No. = 3960 Elapsed Time = 9.311692E+04 days
3008 Date: 02/14/07 Time: 11:03:05 CPU Time: 0 0:18:40.84 (1120.84 sec) Binary
3010 Time Step No. = 3980 Elapsed Time = 9.313829E+04 days
3011 Date: 02/14/07 Time: 11:03:10 CPU Time: 0 0:18:46.07 (1126.07 sec) Binary
3013 Time Step No. = 4000 Elapsed Time = 9.316104E+04 days
3014 Date: 02/14/07 Time: 11:03:15 CPU Time: 0 0:18:51.44 (1131.44 sec) Binary
3016 Time Step No. = 4020 Elapsed Time = 9.318366E+04 days
3017 Date: 02/14/07 Time: 11:03:21 CPU Time: 0 0:18:57.15 (1137.15 sec) Binary
3019 Time Step No. = 4040 Elapsed Time = 9.320767E+04 days
3020 Date: 02/14/07 Time: 11:03:26 CPU Time: 0 0:19: 2.39 (1142.39 sec) Binary
3022 Time Step No. = 4060 Elapsed Time = 9.323324E+04 days
3023 Date: 02/14/07 Time: 11:03:32 CPU Time: 0 0:19: 7.64 (1147.64 sec) Binary
3025 Time Step No. = 4080 Elapsed Time = 9.325948E+04 days
3026 Date: 02/14/07 Time: 11:03:37 CPU Time: 0 0:19:13.36 (1153.36 sec) Binary
3028 Time Step No. = 4100 Elapsed Time = 9.328834E+04 days
3029 Date: 02/14/07 Time: 11:03:43 CPU Time: 0 0:19:18.60 (1158.60 sec) Binary
3031 Time Step No. = 4120 Elapsed Time = 9.332128E+04 days
3032 Date: 02/14/07 Time: 11:03:48 CPU Time: 0 0:19:23.95 (1163.95 sec) Binary
3034 Time Step No. = 4140 Elapsed Time = 9.336491E+04 days
3035 Date: 02/14/07 Time: 11:03:54 CPU Time: 0 0:19:29.90 (1169.90 sec) Binary
3037 Time Step No. = 4160 Elapsed Time = 9.361676E+04 days
3038 Date: 02/14/07 Time: 11:04:00 CPU Time: 0 0:19:35.89 (1175.89 sec) Binary
3040 Time Step No. = 4180 Elapsed Time = 9.422795E+04 days
3041 Date: 02/14/07 Time: 11:04:08 CPU Time: 0 0:19:43.77 (1183.77 sec) Binary
3043 Time Step No. = 4200 Elapsed Time = 9.893912E+04 days
3044 Date: 02/14/07 Time: 11:04:15 CPU Time: 0 0:19:50.63 (1190.63 sec) Binary
3046 Time Step No. = 4220 Elapsed Time = 1.009195E+05 days
3047 Date: 02/14/07 Time: 11:04:27 CPU Time: 0 0:20: 3.05 (1203.05 sec) Binary
3049 Time Step No. = 4240 Elapsed Time = 1.009222E+05 days
3050 Date: 02/14/07 Time: 11:04:33 CPU Time: 0 0:20: 8.77 (1208.77 sec) Binary
3052 Time Step No. = 4260 Elapsed Time = 1.009250E+05 days
3053 Date: 02/14/07 Time: 11:04:38 CPU Time: 0 0:20:14.02 (1214.02 sec) Binary
3055 Time Step No. = 4280 Elapsed Time = 1.009279E+05 days
3056 Date: 02/14/07 Time: 11:04:44 CPU Time: 0 0:20:19.30 (1219.30 sec) Binary
3058 Time Step No. = 4300 Elapsed Time = 1.009308E+05 days
3059 Date: 02/14/07 Time: 11:04:49 CPU Time: 0 0:20:25.03 (1225.03 sec) Binary
3061 Time Step No. = 4320 Elapsed Time = 1.009339E+05 days
3062 Date: 02/14/07 Time: 11:04:55 CPU Time: 0 0:20:30.27 (1230.27 sec) Binary
3064 Time Step No. = 4340 Elapsed Time = 1.009372E+05 days
3065 Date: 02/14/07 Time: 11:05:00 CPU Time: 0 0:20:35.53 (1235.53 sec) Binary
3067 Time Step No. = 4360 Elapsed Time = 1.009405E+05 days
3068 Date: 02/14/07 Time: 11:05:06 CPU Time: 0 0:20:41.27 (1241.27 sec) Binary
3070 Time Step No. = 4380 Elapsed Time = 1.009440E+05 days
3071 Date: 02/14/07 Time: 11:05:13 CPU Time: 0 0:20:48.82 (1248.82 sec) Binary
3073 Time Step No. = 4400 Elapsed Time = 1.009468E+05 days
3074 Date: 02/14/07 Time: 11:05:15 CPU Time: 0 0:20:50.42 (1250.42 sec) Binary
3076 Time Step No. = 4420 Elapsed Time = 1.011909E+05 days
3077 Date: 02/14/07 Time: 11:05:18 CPU Time: 0 0:20:53.60 (1253.60 sec) Binary
3079 Time Step No. = 4440 Elapsed Time = 1.024529E+05 days

3080 Date: 02/14/07 Time: 11:05:29 CPU Time: 0 0:21: 4.18 (1264.18 sec) Binary
3082 Time Step No. = 4460 Elapsed Time = 1.026770E+05 days
3083 Date: 02/14/07 Time: 11:05:32 CPU Time: 0 0:21: 7.30 (1267.30 sec) Binary
3085 Time Step No. = 4480 Elapsed Time = 1.041130E+05 days
3086 Date: 02/14/07 Time: 11:05:43 CPU Time: 0 0:21:18.41 (1278.41 sec) Binary
3088 Time Step No. = 4500 Elapsed Time = 1.041673E+05 days
3089 Date: 02/14/07 Time: 11:05:47 CPU Time: 0 0:21:22.64 (1282.64 sec) Binary
3091 Time Step No. = 4520 Elapsed Time = 1.049488E+05 days
3092 Date: 02/14/07 Time: 11:05:55 CPU Time: 0 0:21:30.60 (1290.60 sec) Binary
3094 Time Step No. = 4540 Elapsed Time = 1.066226E+05 days
3095 Date: 02/14/07 Time: 11:06:04 CPU Time: 0 0:21:39.21 (1299.21 sec) Binary
3097 Time Step No. = 4560 Elapsed Time = 1.087496E+05 days
3098 Date: 02/14/07 Time: 11:06:11 CPU Time: 0 0:21:46.65 (1306.65 sec) Binary
3100 Time Step No. = 4580 Elapsed Time = 1.143056E+05 days
3101 Date: 02/14/07 Time: 11:06:16 CPU Time: 0 0:21:50.97 (1310.97 sec) Binary
3103 Time Step No. = 4600 Elapsed Time = 1.395547E+05 days
3104 Date: 02/14/07 Time: 11:06:23 CPU Time: 0 0:21:58.65 (1318.65 sec) Binary
3106 Time Step No. = 4620 Elapsed Time = 1.524241E+05 days
3107 Date: 02/14/07 Time: 11:06:33 CPU Time: 0 0:22: 8.01 (1328.01 sec) Binary
3109 Time Step No. = 4640 Elapsed Time = 1.553196E+05 days
3110 Date: 02/14/07 Time: 11:06:41 CPU Time: 0 0:22:15.93 (1335.93 sec) Binary
3112 Time Step No. = 4660 Elapsed Time = 1.591320E+05 days
3113 Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0:22:23.59 (1343.59 sec) Binary
3115 Time Step No. = 4680 Elapsed Time = 1.721310E+05 days
3116 Date: 02/14/07 Time: 11:06:57 CPU Time: 0 0:22:31.83 (1351.83 sec) Binary
3118 Time Step No. = 4700 Elapsed Time = 1.944112E+05 days
3119 Date: 02/14/07 Time: 11:07:04 CPU Time: 0 0:22:39.37 (1359.37 sec) Binary
3121 Time Step No. = 4720 Elapsed Time = 1.986996E+05 days
3122 Date: 02/14/07 Time: 11:07:12 CPU Time: 0 0:22:47.48 (1367.48 sec) Binary
3124 Time Step No. = 4740 Elapsed Time = 2.057306E+05 days
3125 Date: 02/14/07 Time: 11:07:19 CPU Time: 0 0:22:54.26 (1374.26 sec) Binary
3127 Time Step No. = 4760 Elapsed Time = 2.132912E+05 days
3128 Date: 02/14/07 Time: 11:07:26 CPU Time: 0 0:23: 1.06 (1381.06 sec) Binary
3130 Time Step No. = 4780 Elapsed Time = 2.193162E+05 days
3131 Date: 02/14/07 Time: 11:07:33 CPU Time: 0 0:23: 8.37 (1388.37 sec) Binary
3133 Time Step No. = 4800 Elapsed Time = 2.226687E+05 days
3134 Date: 02/14/07 Time: 11:07:42 CPU Time: 0 0:23:16.97 (1396.97 sec) Binary
3136 Time Step No. = 4820 Elapsed Time = 2.259834E+05 days
3137 Date: 02/14/07 Time: 11:07:48 CPU Time: 0 0:23:22.94 (1402.94 sec) Binary
3139 Time Step No. = 4840 Elapsed Time = 2.712249E+05 days
3140 Date: 02/14/07 Time: 11:07:53 CPU Time: 0 0:23:28.24 (1408.24 sec) Binary
3142 Time Step No. = 4860 Elapsed Time = 3.652431E+05 days
3143 Date: 02/14/07 Time: 11:08:00 CPU Time: 0 0:23:35.18 (1415.18 sec) Binary
3145 Time Step No. = 4880 Elapsed Time = 3.652444E+05 days
3146 Date: 02/14/07 Time: 11:08:03 CPU Time: 0 0:23:37.61 (1417.61 sec) Binary
3148 Time Step No. = 4900 Elapsed Time = 3.653026E+05 days
3149 Date: 02/14/07 Time: 11:08:05 CPU Time: 0 0:23:40.31 (1420.31 sec) Binary
3151 Time Step No. = 4920 Elapsed Time = 3.655257E+05 days
3152 Date: 02/14/07 Time: 11:08:11 CPU Time: 0 0:23:45.94 (1425.94 sec) Binary
3154 Time Step No. = 4940 Elapsed Time = 3.664875E+05 days
3155 Date: 02/14/07 Time: 11:08:17 CPU Time: 0 0:23:52.24 (1432.24 sec) Binary
3157 Time Step No. = 4960 Elapsed Time = 3.665925E+05 days
3158 Date: 02/14/07 Time: 11:08:19 CPU Time: 0 0:23:53.65 (1433.65 sec) Binary
3160 Time Step No. = 4980 Elapsed Time = 3.668305E+05 days
3161 Date: 02/14/07 Time: 11:08:22 CPU Time: 0 0:23:56.42 (1436.42 sec) Binary
3163 Time Step No. = 5000 Elapsed Time = 3.681194E+05 days
3164 Date: 02/14/07 Time: 11:08:28 CPU Time: 0 0:24: 2.87 (1442.87 sec) Binary
3166 Time Step No. = 5020 Elapsed Time = 3.709195E+05 days
3167 Date: 02/14/07 Time: 11:08:34 CPU Time: 0 0:24: 9.04 (1449.04 sec) Binary
3169 Time Step No. = 5040 Elapsed Time = 4.282789E+05 days
3170 Date: 02/14/07 Time: 11:08:41 CPU Time: 0 0:24:15.80 (1455.80 sec) Binary
3172 Time Step No. = 5060 Elapsed Time = 4.653183E+05 days
3173 Date: 02/14/07 Time: 11:08:48 CPU Time: 0 0:24:22.85 (1462.85 sec) Binary
3175 Time Step No. = 5080 Elapsed Time = 4.900809E+05 days
3176 Date: 02/14/07 Time: 11:08:55 CPU Time: 0 0:24:29.19 (1469.19 sec) Binary
3178 Time Step No. = 5100 Elapsed Time = 5.157774E+05 days
3179 Date: 02/14/07 Time: 11:09:00 CPU Time: 0 0:24:34.74 (1474.74 sec) Binary
3181 Time Step No. = 5120 Elapsed Time = 5.494751E+05 days
3182 Date: 02/14/07 Time: 11:09:06 CPU Time: 0 0:24:40.81 (1480.81 sec) Binary
3184 Time Step No. = 5140 Elapsed Time = 5.579649E+05 days
3185 Date: 02/14/07 Time: 11:09:16 CPU Time: 0 0:24:50.31 (1490.31 sec) Binary
3187 Time Step No. = 5160 Elapsed Time = 5.584439E+05 days
3188 Date: 02/14/07 Time: 11:09:19 CPU Time: 0 0:24:53.65 (1493.65 sec) Binary
3190 Time Step No. = 5180 Elapsed Time = 5.690395E+05 days
3191 Date: 02/14/07 Time: 11:09:25 CPU Time: 0 0:24:59.15 (1499.15 sec) Binary
3193 Time Step No. = 5200 Elapsed Time = 5.825788E+05 days

3194 Date: 02/14/07 Time: 11:09:33 CPU Time: 0 0:25: 7.14 (1507.14 sec) Binary
3196 Time Step No. = 5220 Elapsed Time = 5.945658E+05 days
3197 Date: 02/14/07 Time: 11:09:38 CPU Time: 0 0:25:12.42 (1512.42 sec) Binary
3199 Time Step No. = 5240 Elapsed Time = 6.257360E+05 days
3200 Date: 02/14/07 Time: 11:09:43 CPU Time: 0 0:25:17.91 (1517.91 sec) Binary
3202 Time Step No. = 5260 Elapsed Time = 6.705437E+05 days
3203 Date: 02/14/07 Time: 11:09:51 CPU Time: 0 0:25:25.48 (1525.48 sec) Binary
3205 Time Step No. = 5280 Elapsed Time = 7.337650E+05 days
3206 Date: 02/14/07 Time: 11:09:59 CPU Time: 0 0:25:33.29 (1533.29 sec) Binary
3208 Time Step No. = 5300 Elapsed Time = 7.882779E+05 days
3209 Date: 02/14/07 Time: 11:10:07 CPU Time: 0 0:25:40.98 (1540.98 sec) Binary
3211 Time Step No. = 5320 Elapsed Time = 9.160867E+05 days
3212 Date: 02/14/07 Time: 11:10:15 CPU Time: 0 0:25:49.57 (1549.57 sec) Binary
3214 Time Step No. = 5340 Elapsed Time = 9.335625E+05 days
3215 Date: 02/14/07 Time: 11:10:23 CPU Time: 0 0:25:57.69 (1557.69 sec) Binary
3217 Time Step No. = 5360 Elapsed Time = 9.974253E+05 days
3218 Date: 02/14/07 Time: 11:10:31 CPU Time: 0 0:26: 5.09 (1565.09 sec) Binary
3220 Time Step No. = 5380 Elapsed Time = 1.042229E+06 days
3221 Date: 02/14/07 Time: 11:10:36 CPU Time: 0 0:26:10.27 (1570.27 sec) Binary
3223 Time Step No. = 5400 Elapsed Time = 1.260820E+06 days
3224 Date: 02/14/07 Time: 11:10:43 CPU Time: 0 0:26:17.23 (1577.23 sec) Binary
3226 Time Step No. = 5420 Elapsed Time = 1.334337E+06 days
3227 Date: 02/14/07 Time: 11:10:50 CPU Time: 0 0:26:24.49 (1584.49 sec) Binary
3229 Time Step No. = 5440 Elapsed Time = 1.345331E+06 days
3230 Date: 02/14/07 Time: 11:10:54 CPU Time: 0 0:26:28.19 (1588.19 sec) Binary
3232 Time Step No. = 5460 Elapsed Time = 1.427559E+06 days
3233 Date: 02/14/07 Time: 11:11:03 CPU Time: 0 0:26:37.01 (1597.01 sec) Binary
3235 Time Step No. = 5480 Elapsed Time = 1.441381E+06 days
3236 Date: 02/14/07 Time: 11:11:09 CPU Time: 0 0:26:42.96 (1602.96 sec) Binary
3238 Time Step No. = 5500 Elapsed Time = 1.579545E+06 days
3239 Date: 02/14/07 Time: 11:11:16 CPU Time: 0 0:26:49.79 (1609.79 sec) Binary
3241 Time Step No. = 5520 Elapsed Time = 1.722127E+06 days
3242 Date: 02/14/07 Time: 11:11:24 CPU Time: 0 0:26:57.91 (1617.91 sec) Binary
3244 Time Step No. = 5540 Elapsed Time = 1.729742E+06 days
3245 Date: 02/14/07 Time: 11:11:27 CPU Time: 0 0:27: 0.90 (1620.90 sec) Binary
3247 Time Step No. = 5560 Elapsed Time = 1.756478E+06 days
3248 Date: 02/14/07 Time: 11:11:33 CPU Time: 0 0:27: 6.86 (1626.86 sec) Binary
3250 Time Step No. = 5580 Elapsed Time = 1.769620E+06 days
3251 Date: 02/14/07 Time: 11:11:40 CPU Time: 0 0:27:14.12 (1634.12 sec) Binary
3253 Time Step No. = 5600 Elapsed Time = 1.839288E+06 days
3254 Date: 02/14/07 Time: 11:11:47 CPU Time: 0 0:27:20.62 (1640.62 sec) Binary
3256 Time Step No. = 5620 Elapsed Time = 2.169142E+06 days
3257 Date: 02/14/07 Time: 11:11:54 CPU Time: 0 0:27:27.42 (1647.42 sec) Binary
3259 Time Step No. = 5640 Elapsed Time = 2.272625E+06 days
3260 Date: 02/14/07 Time: 11:11:58 CPU Time: 0 0:27:32.09 (1652.09 sec) Binary
3262 Time Step No. = 5660 Elapsed Time = 2.337198E+06 days
3263 Date: 02/14/07 Time: 11:12:05 CPU Time: 0 0:27:38.47 (1658.47 sec) Binary
3265 Time Step No. = 5680 Elapsed Time = 2.341430E+06 days
3266 Date: 02/14/07 Time: 11:12:11 CPU Time: 0 0:27:44.91 (1664.91 sec) Binary
3268 Time Step No. = 5700 Elapsed Time = 2.377641E+06 days
3269 Date: 02/14/07 Time: 11:12:16 CPU Time: 0 0:27:49.33 (1669.33 sec) Binary
3271 Time Step No. = 5720 Elapsed Time = 2.750209E+06 days
3272 Date: 02/14/07 Time: 11:12:21 CPU Time: 0 0:27:54.96 (1674.96 sec) Binary
3274 Time Step No. = 5740 Elapsed Time = 2.753701E+06 days
3275 Date: 02/14/07 Time: 11:12:28 CPU Time: 0 0:28: 2.06 (1682.06 sec) Binary
3277 Time Step No. = 5760 Elapsed Time = 2.765715E+06 days
3278 Date: 02/14/07 Time: 11:12:33 CPU Time: 0 0:28: 7.17 (1687.17 sec) Binary
3280 Time Step No. = 5780 Elapsed Time = 2.912561E+06 days
3281 Date: 02/14/07 Time: 11:12:40 CPU Time: 0 0:28:13.80 (1693.80 sec) Binary
3283 Time Step No. = 5800 Elapsed Time = 3.153612E+06 days
3284 Date: 02/14/07 Time: 11:12:47 CPU Time: 0 0:28:20.95 (1700.95 sec) Binary
3286 Time Step No. = 5820 Elapsed Time = 3.155082E+06 days
3287 Date: 02/14/07 Time: 11:12:54 CPU Time: 0 0:28:27.64 (1707.64 sec) Binary
3289 Time Step No. = 5840 Elapsed Time = 3.160573E+06 days
3290 Date: 02/14/07 Time: 11:12:58 CPU Time: 0 0:28:31.43 (1711.43 sec) Binary
3292 Time Step No. = 5860 Elapsed Time = 3.171708E+06 days
3293 Date: 02/14/07 Time: 11:13:02 CPU Time: 0 0:28:35.99 (1715.99 sec) Binary
3295 Time Step No. = 5880 Elapsed Time = 3.314482E+06 days
3296 Date: 02/14/07 Time: 11:13:08 CPU Time: 0 0:28:41.30 (1721.30 sec) Binary
3298 Time Step No. = 5900 Elapsed Time = 3.592771E+06 days
3299 Date: 02/14/07 Time: 11:13:14 CPU Time: 0 0:28:46.80 (1726.80 sec) Binary
3302 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
2450 Date: 02/14/07 Time: 09:53:25 CPU Time: 0 0: 0:59.74 (59.74 sec) ASCII
2452 Time Step No. = 266 Elapsed Time = 0.000000E+00 days

2453 Date: 02/14/07 Time: 09:53:25 CPU Time: 0 0: 0:59.75 (59.75 sec) Binary
2455 Time Step No. = 280 Elapsed Time = 1.358585E-02 days
2456 Date: 02/14/07 Time: 09:53:30 CPU Time: 0 0: 1: 5.15 (65.15 sec) Binary
2458 Time Step No. = 300 Elapsed Time = 8.176210E-01 days
2459 Date: 02/14/07 Time: 09:53:35 CPU Time: 0 0: 1: 9.55 (69.55 sec) Binary
2461 Time Step No. = 320 Elapsed Time = 2.056227E+01 days
2462 Date: 02/14/07 Time: 09:53:38 CPU Time: 0 0: 1:12.89 (72.89 sec) Binary
2464 Time Step No. = 340 Elapsed Time = 3.883849E+02 days
2465 Date: 02/14/07 Time: 09:53:42 CPU Time: 0 0: 1:17.15 (77.15 sec) Binary
2467 Time Step No. = 360 Elapsed Time = 2.773294E+03 days
2468 Date: 02/14/07 Time: 09:53:49 CPU Time: 0 0: 1:23.42 (83.42 sec) Binary
2470 Time Step No. = 380 Elapsed Time = 6.744221E+03 days
2471 Date: 02/14/07 Time: 09:54:02 CPU Time: 0 0: 1:37.17 (97.17 sec) Binary
2473 Time Step No. = 400 Elapsed Time = 6.767595E+03 days
2474 Date: 02/14/07 Time: 09:54:05 CPU Time: 0 0: 1:39.45 (99.45 sec) Binary
2476 Time Step No. = 420 Elapsed Time = 6.921045E+03 days
2477 Date: 02/14/07 Time: 09:54:13 CPU Time: 0 0: 1:47.65 (107.65 sec) Binary
2479 Time Step No. = 440 Elapsed Time = 7.006907E+03 days
2480 Date: 02/14/07 Time: 09:54:16 CPU Time: 0 0: 1:50.59 (110.59 sec) Binary
2482 Time Step No. = 460 Elapsed Time = 7.220026E+03 days
2483 Date: 02/14/07 Time: 09:54:25 CPU Time: 0 0: 1:59.64 (119.64 sec) Binary
2485 Time Step No. = 480 Elapsed Time = 7.377731E+03 days
2486 Date: 02/14/07 Time: 09:54:28 CPU Time: 0 0: 2: 2.92 (122.92 sec) Binary
2488 Time Step No. = 500 Elapsed Time = 8.413059E+03 days
2489 Date: 02/14/07 Time: 09:54:36 CPU Time: 0 0: 2:10.47 (130.47 sec) Binary
2491 Time Step No. = 520 Elapsed Time = 8.706621E+03 days
2492 Date: 02/14/07 Time: 09:54:45 CPU Time: 0 0: 2:19.54 (139.54 sec) Binary
2494 Time Step No. = 540 Elapsed Time = 8.731156E+03 days
2495 Date: 02/14/07 Time: 09:54:47 CPU Time: 0 0: 2:21.99 (141.99 sec) Binary
2497 Time Step No. = 560 Elapsed Time = 8.783097E+03 days
2498 Date: 02/14/07 Time: 09:54:56 CPU Time: 0 0: 2:30.13 (150.13 sec) Binary
2500 Time Step No. = 580 Elapsed Time = 8.873224E+03 days
2501 Date: 02/14/07 Time: 09:54:59 CPU Time: 0 0: 2:33.21 (153.21 sec) Binary
2503 Time Step No. = 600 Elapsed Time = 8.967808E+03 days
2504 Date: 02/14/07 Time: 09:55:07 CPU Time: 0 0: 2:41.33 (161.33 sec) Binary
2506 Time Step No. = 620 Elapsed Time = 9.629958E+03 days
2507 Date: 02/14/07 Time: 09:55:11 CPU Time: 0 0: 2:45.19 (165.19 sec) Binary
2509 Time Step No. = 640 Elapsed Time = 9.720759E+03 days
2510 Date: 02/14/07 Time: 09:55:20 CPU Time: 0 0: 2:54.09 (174.09 sec) Binary
2512 Time Step No. = 660 Elapsed Time = 9.817097E+03 days
2513 Date: 02/14/07 Time: 09:55:29 CPU Time: 0 0: 3: 3.42 (183.42 sec) Binary
2515 Time Step No. = 680 Elapsed Time = 9.829974E+03 days
2516 Date: 02/14/07 Time: 09:55:31 CPU Time: 0 0: 3: 5.70 (185.70 sec) Binary
2518 Time Step No. = 700 Elapsed Time = 9.879586E+03 days
2519 Date: 02/14/07 Time: 09:55:39 CPU Time: 0 0: 3:13.56 (193.56 sec) Binary
2521 Time Step No. = 720 Elapsed Time = 9.926888E+03 days
2522 Date: 02/14/07 Time: 09:55:42 CPU Time: 0 0: 3:16.22 (196.22 sec) Binary
2524 Time Step No. = 740 Elapsed Time = 9.955795E+03 days
2525 Date: 02/14/07 Time: 09:55:50 CPU Time: 0 0: 3:24.20 (204.20 sec) Binary
2527 Time Step No. = 760 Elapsed Time = 1.004381E+04 days
2528 Date: 02/14/07 Time: 09:55:59 CPU Time: 0 0: 3:33.37 (213.37 sec) Binary
2530 Time Step No. = 780 Elapsed Time = 1.005117E+04 days
2531 Date: 02/14/07 Time: 09:56:01 CPU Time: 0 0: 3:35.40 (215.40 sec) Binary
2533 Time Step No. = 800 Elapsed Time = 1.011334E+04 days
2534 Date: 02/14/07 Time: 09:56:10 CPU Time: 0 0: 3:43.80 (223.80 sec) Binary
2536 Time Step No. = 820 Elapsed Time = 1.014038E+04 days
2537 Date: 02/14/07 Time: 09:56:12 CPU Time: 0 0: 3:46.20 (226.20 sec) Binary
2539 Time Step No. = 840 Elapsed Time = 1.021957E+04 days
2540 Date: 02/14/07 Time: 09:56:20 CPU Time: 0 0: 3:53.85 (233.85 sec) Binary
2542 Time Step No. = 860 Elapsed Time = 1.041817E+04 days
2543 Date: 02/14/07 Time: 09:56:23 CPU Time: 0 0: 3:57.18 (237.18 sec) Binary
2545 Time Step No. = 880 Elapsed Time = 1.365675E+04 days
2546 Date: 02/14/07 Time: 09:56:29 CPU Time: 0 0: 4: 2.87 (242.87 sec) Binary
2548 Time Step No. = 900 Elapsed Time = 1.556649E+04 days
2549 Date: 02/14/07 Time: 09:56:41 CPU Time: 0 0: 4:14.94 (254.94 sec) Binary
2551 Time Step No. = 920 Elapsed Time = 1.562828E+04 days
2552 Date: 02/14/07 Time: 09:56:44 CPU Time: 0 0: 4:18.01 (258.01 sec) Binary
2554 Time Step No. = 940 Elapsed Time = 1.939403E+04 days
2555 Date: 02/14/07 Time: 09:56:51 CPU Time: 0 0: 4:24.20 (264.20 sec) Binary
2557 Time Step No. = 960 Elapsed Time = 2.123309E+04 days
2558 Date: 02/14/07 Time: 09:57:03 CPU Time: 0 0: 4:36.67 (276.67 sec) Binary
2560 Time Step No. = 980 Elapsed Time = 2.131000E+04 days
2561 Date: 02/14/07 Time: 09:57:06 CPU Time: 0 0: 4:40.02 (280.02 sec) Binary
2563 Time Step No. = 1000 Elapsed Time = 2.294013E+04 days
2564 Date: 02/14/07 Time: 09:57:20 CPU Time: 0 0: 4:53.40 (293.40 sec) Binary
2566 Time Step No. = 1020 Elapsed Time = 2.294896E+04 days

2567 Date: 02/14/07 Time: 09:57:22 CPU Time: 0 0: 4:55.43 (295.43 sec) Binary
2569 Time Step No. = 1040 Elapsed Time = 2.371476E+04 days
2570 Date: 02/14/07 Time: 09:57:26 CPU Time: 0 0: 4:59.39 (299.39 sec) Binary
2572 Time Step No. = 1060 Elapsed Time = 2.412100E+04 days
2573 Date: 02/14/07 Time: 09:57:37 CPU Time: 0 0: 5:10.13 (310.13 sec) Binary
2575 Time Step No. = 1080 Elapsed Time = 2.417691E+04 days
2576 Date: 02/14/07 Time: 09:57:46 CPU Time: 0 0: 5:19.31 (319.31 sec) Binary
2578 Time Step No. = 1100 Elapsed Time = 2.418063E+04 days
2579 Date: 02/14/07 Time: 09:57:48 CPU Time: 0 0: 5:21.22 (321.22 sec) Binary
2581 Time Step No. = 1120 Elapsed Time = 2.450356E+04 days
2582 Date: 02/14/07 Time: 09:57:51 CPU Time: 0 0: 5:24.98 (324.98 sec) Binary
2584 Time Step No. = 1140 Elapsed Time = 2.827711E+04 days
2585 Date: 02/14/07 Time: 09:58:01 CPU Time: 0 0: 5:34.23 (334.23 sec) Binary
2587 Time Step No. = 1160 Elapsed Time = 2.828638E+04 days
2588 Date: 02/14/07 Time: 09:58:09 CPU Time: 0 0: 5:42.19 (342.19 sec) Binary
2590 Time Step No. = 1180 Elapsed Time = 2.909021E+04 days
2591 Date: 02/14/07 Time: 09:58:13 CPU Time: 0 0: 5:46.52 (346.52 sec) Binary
2593 Time Step No. = 1200 Elapsed Time = 3.111835E+04 days
2594 Date: 02/14/07 Time: 09:58:26 CPU Time: 0 0: 5:59.27 (359.27 sec) Binary
2596 Time Step No. = 1220 Elapsed Time = 3.116449E+04 days
2597 Date: 02/14/07 Time: 09:58:29 CPU Time: 0 0: 6: 2.34 (362.34 sec) Binary
2599 Time Step No. = 1240 Elapsed Time = 3.417846E+04 days
2600 Date: 02/14/07 Time: 09:58:35 CPU Time: 0 0: 6: 7.83 (367.83 sec) Binary
2602 Time Step No. = 1260 Elapsed Time = 3.574682E+04 days
2603 Date: 02/14/07 Time: 09:58:47 CPU Time: 0 0: 6:20.42 (380.42 sec) Binary
2605 Time Step No. = 1280 Elapsed Time = 3.586166E+04 days
2606 Date: 02/14/07 Time: 09:58:51 CPU Time: 0 0: 6:23.93 (383.93 sec) Binary
2608 Time Step No. = 1300 Elapsed Time = 3.593185E+04 days
2609 Date: 02/14/07 Time: 09:58:59 CPU Time: 0 0: 6:32.02 (392.02 sec) Binary
2611 Time Step No. = 1320 Elapsed Time = 3.595645E+04 days
2612 Date: 02/14/07 Time: 09:59:07 CPU Time: 0 0: 6:40.37 (400.37 sec) Binary
2614 Time Step No. = 1340 Elapsed Time = 3.597432E+04 days
2615 Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 6:42.90 (402.90 sec) Binary
2617 Time Step No. = 1360 Elapsed Time = 3.641887E+04 days
2618 Date: 02/14/07 Time: 09:59:19 CPU Time: 0 0: 6:52.29 (412.29 sec) Binary
2620 Time Step No. = 1380 Elapsed Time = 3.645168E+04 days
2621 Date: 02/14/07 Time: 09:59:22 CPU Time: 0 0: 6:55.23 (415.23 sec) Binary
2623 Time Step No. = 1400 Elapsed Time = 3.652004E+04 days
2624 Date: 02/14/07 Time: 09:59:30 CPU Time: 0 0: 7: 3.54 (423.54 sec) Binary
2626 Time Step No. = 1420 Elapsed Time = 3.652431E+04 days
2627 Date: 02/14/07 Time: 09:59:39 CPU Time: 0 0: 7:12.52 (432.52 sec) Binary
2629 Time Step No. = 1440 Elapsed Time = 3.652431E+04 days
2630 Date: 02/14/07 Time: 09:59:42 CPU Time: 0 0: 7:15.51 (435.51 sec) Binary
2632 Time Step No. = 1460 Elapsed Time = 3.652431E+04 days
2633 Date: 02/14/07 Time: 09:59:45 CPU Time: 0 0: 7:18.52 (438.52 sec) Binary
2635 Time Step No. = 1480 Elapsed Time = 3.652431E+04 days
2636 Date: 02/14/07 Time: 09:59:49 CPU Time: 0 0: 7:21.89 (441.89 sec) Binary
2638 Time Step No. = 1500 Elapsed Time = 3.652442E+04 days
2639 Date: 02/14/07 Time: 09:59:52 CPU Time: 0 0: 7:25.40 (445.40 sec) Binary
2641 Time Step No. = 1520 Elapsed Time = 3.653418E+04 days
2642 Date: 02/14/07 Time: 09:59:56 CPU Time: 0 0: 7:28.98 (448.98 sec) Binary
2644 Time Step No. = 1540 Elapsed Time = 3.666627E+04 days
2645 Date: 02/14/07 Time: 09:59:59 CPU Time: 0 0: 7:32.25 (452.25 sec) Binary
2647 Time Step No. = 1560 Elapsed Time = 3.668671E+04 days
2648 Date: 02/14/07 Time: 10:00:02 CPU Time: 0 0: 7:35.05 (455.05 sec) Binary
2650 Time Step No. = 1580 Elapsed Time = 3.670728E+04 days
2651 Date: 02/14/07 Time: 10:00:11 CPU Time: 0 0: 7:43.51 (463.51 sec) Binary
2653 Time Step No. = 1600 Elapsed Time = 3.678237E+04 days
2654 Date: 02/14/07 Time: 10:00:14 CPU Time: 0 0: 7:47.02 (467.02 sec) Binary
2656 Time Step No. = 1620 Elapsed Time = 3.716779E+04 days
2657 Date: 02/14/07 Time: 10:00:25 CPU Time: 0 0: 7:57.83 (477.83 sec) Binary
2659 Time Step No. = 1640 Elapsed Time = 3.718347E+04 days
2660 Date: 02/14/07 Time: 10:00:27 CPU Time: 0 0: 8: 0.40 (480.40 sec) Binary
2662 Time Step No. = 1660 Elapsed Time = 3.724390E+04 days
2663 Date: 02/14/07 Time: 10:00:36 CPU Time: 0 0: 8: 9.12 (489.12 sec) Binary
2665 Time Step No. = 1680 Elapsed Time = 3.730151E+04 days
2666 Date: 02/14/07 Time: 10:00:40 CPU Time: 0 0: 8:12.54 (492.54 sec) Binary
2668 Time Step No. = 1700 Elapsed Time = 3.752349E+04 days
2669 Date: 02/14/07 Time: 10:00:48 CPU Time: 0 0: 8:21.25 (501.25 sec) Binary
2671 Time Step No. = 1720 Elapsed Time = 3.773513E+04 days
2672 Date: 02/14/07 Time: 10:00:52 CPU Time: 0 0: 8:24.96 (504.96 sec) Binary
2674 Time Step No. = 1740 Elapsed Time = 3.794042E+04 days
2675 Date: 02/14/07 Time: 10:01:01 CPU Time: 0 0: 8:33.96 (513.96 sec) Binary
2677 Time Step No. = 1760 Elapsed Time = 3.803760E+04 days
2678 Date: 02/14/07 Time: 10:01:05 CPU Time: 0 0: 8:37.46 (517.46 sec) Binary
2680 Time Step No. = 1780 Elapsed Time = 3.956208E+04 days

2681	Date: 02/14/07	Time: 10:01:14	CPU Time: 0 0: 8:46.92 (526.92 sec)	Binary
2683	Time Step No. = 1800	Elapsed Time = 4.088771E+04 days		
2684	Date: 02/14/07	Time: 10:01:29	CPU Time: 0 0: 9: 2.11 (542.11 sec)	Binary
2686	Time Step No. = 1820	Elapsed Time = 4.089527E+04 days		
2687	Date: 02/14/07	Time: 10:01:31	CPU Time: 0 0: 9: 4.35 (544.35 sec)	Binary
2689	Time Step No. = 1840	Elapsed Time = 4.155094E+04 days		
2690	Date: 02/14/07	Time: 10:01:36	CPU Time: 0 0: 9: 8.61 (548.61 sec)	Binary
2692	Time Step No. = 1860	Elapsed Time = 4.294061E+04 days		
2693	Date: 02/14/07	Time: 10:01:47	CPU Time: 0 0: 9:20.17 (560.17 sec)	Binary
2695	Time Step No. = 1880	Elapsed Time = 4.301587E+04 days		
2696	Date: 02/14/07	Time: 10:01:51	CPU Time: 0 0: 9:23.59 (563.59 sec)	Binary
2698	Time Step No. = 1900	Elapsed Time = 4.760255E+04 days		
2699	Date: 02/14/07	Time: 10:01:57	CPU Time: 0 0: 9:29.87 (569.87 sec)	Binary
2701	Time Step No. = 1920	Elapsed Time = 4.987005E+04 days		
2702	Date: 02/14/07	Time: 10:02:10	CPU Time: 0 0: 9:42.61 (582.61 sec)	Binary
2704	Time Step No. = 1940	Elapsed Time = 4.996373E+04 days		
2705	Date: 02/14/07	Time: 10:02:13	CPU Time: 0 0: 9:46.10 (586.10 sec)	Binary
2707	Time Step No. = 1960	Elapsed Time = 5.010423E+04 days		
2708	Date: 02/14/07	Time: 10:02:22	CPU Time: 0 0: 9:54.39 (594.39 sec)	Binary
2710	Time Step No. = 1980	Elapsed Time = 5.037876E+04 days		
2711	Date: 02/14/07	Time: 10:02:31	CPU Time: 0 0:10: 3.37 (603.37 sec)	Binary
2713	Time Step No. = 2000	Elapsed Time = 5.039333E+04 days		
2714	Date: 02/14/07	Time: 10:02:33	CPU Time: 0 0:10: 5.81 (605.81 sec)	Binary
2716	Time Step No. = 2020	Elapsed Time = 5.152954E+04 days		
2717	Date: 02/14/07	Time: 10:02:38	CPU Time: 0 0:10:10.98 (610.98 sec)	Binary
2719	Time Step No. = 2040	Elapsed Time = 5.170355E+04 days		
2720	Date: 02/14/07	Time: 10:02:49	CPU Time: 0 0:10:21.44 (621.44 sec)	Binary
2722	Time Step No. = 2060	Elapsed Time = 5.179583E+04 days		
2723	Date: 02/14/07	Time: 10:02:58	CPU Time: 0 0:10:30.92 (630.92 sec)	Binary
2725	Time Step No. = 2080	Elapsed Time = 5.180198E+04 days		
2726	Date: 02/14/07	Time: 10:03:00	CPU Time: 0 0:10:33.09 (633.09 sec)	Binary
2728	Time Step No. = 2100	Elapsed Time = 5.184257E+04 days		
2729	Date: 02/14/07	Time: 10:03:08	CPU Time: 0 0:10:40.75 (640.75 sec)	Binary
2731	Time Step No. = 2120	Elapsed Time = 5.188772E+04 days		
2732	Date: 02/14/07	Time: 10:03:11	CPU Time: 0 0:10:43.90 (643.90 sec)	Binary
2734	Time Step No. = 2140	Elapsed Time = 5.191531E+04 days		
2735	Date: 02/14/07	Time: 10:03:19	CPU Time: 0 0:10:52.07 (652.07 sec)	Binary
2737	Time Step No. = 2160	Elapsed Time = 5.208117E+04 days		
2738	Date: 02/14/07	Time: 10:03:23	CPU Time: 0 0:10:55.69 (655.69 sec)	Binary
2740	Time Step No. = 2180	Elapsed Time = 5.738239E+04 days		
2741	Date: 02/14/07	Time: 10:03:30	CPU Time: 0 0:11: 2.72 (662.72 sec)	Binary
2743	Time Step No. = 2200	Elapsed Time = 5.874693E+04 days		
2744	Date: 02/14/07	Time: 10:03:44	CPU Time: 0 0:11:16.72 (676.72 sec)	Binary
2746	Time Step No. = 2220	Elapsed Time = 5.877274E+04 days		
2747	Date: 02/14/07	Time: 10:03:47	CPU Time: 0 0:11:19.53 (679.53 sec)	Binary
2749	Time Step No. = 2240	Elapsed Time = 6.101085E+04 days		
2750	Date: 02/14/07	Time: 10:03:52	CPU Time: 0 0:11:24.32 (684.32 sec)	Binary
2752	Time Step No. = 2260	Elapsed Time = 6.281765E+04 days		
2753	Date: 02/14/07	Time: 10:04:05	CPU Time: 0 0:11:37.13 (697.13 sec)	Binary
2755	Time Step No. = 2280	Elapsed Time = 6.294611E+04 days		
2756	Date: 02/14/07	Time: 10:04:09	CPU Time: 0 0:11:40.77 (700.77 sec)	Binary
2758	Time Step No. = 2300	Elapsed Time = 6.313878E+04 days		
2759	Date: 02/14/07	Time: 10:04:17	CPU Time: 0 0:11:48.74 (708.74 sec)	Binary
2761	Time Step No. = 2320	Elapsed Time = 6.361068E+04 days		
2762	Date: 02/14/07	Time: 10:04:21	CPU Time: 0 0:11:52.88 (712.88 sec)	Binary
2764	Time Step No. = 2340	Elapsed Time = 6.737769E+04 days		
2765	Date: 02/14/07	Time: 10:04:35	CPU Time: 0 0:12: 7.53 (727.53 sec)	Binary
2767	Time Step No. = 2360	Elapsed Time = 6.740478E+04 days		
2768	Date: 02/14/07	Time: 10:04:38	CPU Time: 0 0:12:10.40 (730.40 sec)	Binary
2770	Time Step No. = 2380	Elapsed Time = 6.741391E+04 days		
2771	Date: 02/14/07	Time: 10:04:46	CPU Time: 0 0:12:18.11 (738.11 sec)	Binary
2773	Time Step No. = 2400	Elapsed Time = 6.761291E+04 days		
2774	Date: 02/14/07	Time: 10:04:50	CPU Time: 0 0:12:21.91 (741.91 sec)	Binary
2776	Time Step No. = 2420	Elapsed Time = 6.773452E+04 days		
2777	Date: 02/14/07	Time: 10:04:59	CPU Time: 0 0:12:30.71 (750.71 sec)	Binary
2779	Time Step No. = 2440	Elapsed Time = 6.776699E+04 days		
2780	Date: 02/14/07	Time: 10:05:07	CPU Time: 0 0:12:39.15 (759.15 sec)	Binary
2782	Time Step No. = 2460	Elapsed Time = 6.779795E+04 days		
2783	Date: 02/14/07	Time: 10:05:10	CPU Time: 0 0:12:42.10 (762.10 sec)	Binary
2785	Time Step No. = 2480	Elapsed Time = 7.048314E+04 days		
2786	Date: 02/14/07	Time: 10:05:15	CPU Time: 0 0:12:46.90 (766.90 sec)	Binary
2788	Time Step No. = 2500	Elapsed Time = 8.118433E+04 days		
2789	Date: 02/14/07	Time: 10:05:25	CPU Time: 0 0:12:56.52 (776.52 sec)	Binary
2791	Time Step No. = 2520	Elapsed Time = 8.428954E+04 days		
2792	Date: 02/14/07	Time: 10:05:37	CPU Time: 0 0:13: 8.96 (788.96 sec)	Binary
2794	Time Step No. = 2540	Elapsed Time = 8.439398E+04 days		

2795 Date: 02/14/07 Time: 10:05:41 CPU Time: 0 0:13:12.55 (792.55 sec) Binary
2797 Time Step No. = 2560 Elapsed Time = 8.992246E+04 days
2798 Date: 02/14/07 Time: 10:05:47 CPU Time: 0 0:13:19.01 (799.01 sec) Binary
2800 Time Step No. = 2580 Elapsed Time = 9.139559E+04 days
2801 Date: 02/14/07 Time: 10:05:59 CPU Time: 0 0:13:30.78 (810.78 sec) Binary
2803 Time Step No. = 2600 Elapsed Time = 9.153888E+04 days
2804 Date: 02/14/07 Time: 10:06:06 CPU Time: 0 0:13:37.89 (817.89 sec) Binary
2806 Time Step No. = 2620 Elapsed Time = 9.175238E+04 days
2807 Date: 02/14/07 Time: 10:06:14 CPU Time: 0 0:13:45.32 (825.32 sec) Binary
2809 Time Step No. = 2640 Elapsed Time = 9.184598E+04 days
2810 Date: 02/14/07 Time: 10:06:22 CPU Time: 0 0:13:53.65 (833.65 sec) Binary
2812 Time Step No. = 2660 Elapsed Time = 9.190019E+04 days
2813 Date: 02/14/07 Time: 10:06:32 CPU Time: 0 0:14: 4.08 (844.08 sec) Binary
2815 Time Step No. = 2680 Elapsed Time = 9.194215E+04 days
2816 Date: 02/14/07 Time: 10:06:40 CPU Time: 0 0:14:11.21 (851.21 sec) Binary
2818 Time Step No. = 2700 Elapsed Time = 9.204832E+04 days
2819 Date: 02/14/07 Time: 10:06:48 CPU Time: 0 0:14:19.76 (859.76 sec) Binary
2821 Time Step No. = 2720 Elapsed Time = 9.208378E+04 days
2822 Date: 02/14/07 Time: 10:06:59 CPU Time: 0 0:14:30.59 (870.59 sec) Binary
2824 Time Step No. = 2740 Elapsed Time = 9.211140E+04 days
2825 Date: 02/14/07 Time: 10:07:09 CPU Time: 0 0:14:40.74 (880.74 sec) Binary
2827 Time Step No. = 2760 Elapsed Time = 9.214645E+04 days
2828 Date: 02/14/07 Time: 10:07:21 CPU Time: 0 0:14:52.32 (892.32 sec) Binary
2830 Time Step No. = 2780 Elapsed Time = 9.216828E+04 days
2831 Date: 02/14/07 Time: 10:07:31 CPU Time: 0 0:15: 2.56 (902.56 sec) Binary
2833 Time Step No. = 2800 Elapsed Time = 9.218932E+04 days
2834 Date: 02/14/07 Time: 10:07:41 CPU Time: 0 0:15:11.69 (911.69 sec) Binary
2836 Time Step No. = 2820 Elapsed Time = 9.220924E+04 days
2837 Date: 02/14/07 Time: 10:07:50 CPU Time: 0 0:15:21.53 (921.53 sec) Binary
2839 Time Step No. = 2840 Elapsed Time = 9.222973E+04 days
2840 Date: 02/14/07 Time: 10:08:00 CPU Time: 0 0:15:31.06 (931.06 sec) Binary
2842 Time Step No. = 2860 Elapsed Time = 9.225032E+04 days
2843 Date: 02/14/07 Time: 10:08:09 CPU Time: 0 0:15:40.31 (940.31 sec) Binary
2845 Time Step No. = 2880 Elapsed Time = 9.227070E+04 days
2846 Date: 02/14/07 Time: 10:08:21 CPU Time: 0 0:15:51.78 (951.78 sec) Binary
2848 Time Step No. = 2900 Elapsed Time = 9.229232E+04 days
2849 Date: 02/14/07 Time: 10:08:32 CPU Time: 0 0:16: 2.69 (962.69 sec) Binary
2851 Time Step No. = 2920 Elapsed Time = 9.231037E+04 days
2852 Date: 02/14/07 Time: 10:08:41 CPU Time: 0 0:16:11.94 (971.94 sec) Binary
2854 Time Step No. = 2940 Elapsed Time = 9.232895E+04 days
2855 Date: 02/14/07 Time: 10:08:50 CPU Time: 0 0:16:20.61 (980.61 sec) Binary
2857 Time Step No. = 2960 Elapsed Time = 9.234552E+04 days
2858 Date: 02/14/07 Time: 10:08:58 CPU Time: 0 0:16:28.50 (988.50 sec) Binary
2860 Time Step No. = 2980 Elapsed Time = 9.236376E+04 days
2861 Date: 02/14/07 Time: 10:09:06 CPU Time: 0 0:16:36.64 (996.64 sec) Binary
2863 Time Step No. = 3000 Elapsed Time = 9.238011E+04 days
2864 Date: 02/14/07 Time: 10:09:14 CPU Time: 0 0:16:44.37 (1004.37 sec) Binary
2866 Time Step No. = 3020 Elapsed Time = 9.239686E+04 days
2867 Date: 02/14/07 Time: 10:09:21 CPU Time: 0 0:16:51.55 (1011.55 sec) Binary
2869 Time Step No. = 3040 Elapsed Time = 9.241242E+04 days
2870 Date: 02/14/07 Time: 10:09:29 CPU Time: 0 0:16:59.27 (1019.27 sec) Binary
2872 Time Step No. = 3060 Elapsed Time = 9.242781E+04 days
2873 Date: 02/14/07 Time: 10:09:36 CPU Time: 0 0:17: 6.44 (1026.44 sec) Binary
2875 Time Step No. = 3080 Elapsed Time = 9.244312E+04 days
2876 Date: 02/14/07 Time: 10:09:43 CPU Time: 0 0:17:14.18 (1034.18 sec) Binary
2878 Time Step No. = 3100 Elapsed Time = 9.245725E+04 days
2879 Date: 02/14/07 Time: 10:09:51 CPU Time: 0 0:17:21.35 (1041.35 sec) Binary
2881 Time Step No. = 3120 Elapsed Time = 9.247181E+04 days
2882 Date: 02/14/07 Time: 10:09:58 CPU Time: 0 0:17:28.80 (1048.80 sec) Binary
2884 Time Step No. = 3140 Elapsed Time = 9.248478E+04 days
2885 Date: 02/14/07 Time: 10:10:05 CPU Time: 0 0:17:35.29 (1055.29 sec) Binary
2887 Time Step No. = 3160 Elapsed Time = 9.249861E+04 days
2888 Date: 02/14/07 Time: 10:10:12 CPU Time: 0 0:17:42.01 (1062.01 sec) Binary
2890 Time Step No. = 3180 Elapsed Time = 9.251140E+04 days
2891 Date: 02/14/07 Time: 10:10:17 CPU Time: 0 0:17:47.89 (1067.89 sec) Binary
2893 Time Step No. = 3200 Elapsed Time = 9.252410E+04 days
2894 Date: 02/14/07 Time: 10:10:24 CPU Time: 0 0:17:54.18 (1074.18 sec) Binary
2896 Time Step No. = 3220 Elapsed Time = 9.253757E+04 days
2897 Date: 02/14/07 Time: 10:10:30 CPU Time: 0 0:17:59.95 (1079.95 sec) Binary
2899 Time Step No. = 3240 Elapsed Time = 9.255098E+04 days
2900 Date: 02/14/07 Time: 10:10:35 CPU Time: 0 0:18: 5.71 (1085.71 sec) Binary
2902 Time Step No. = 3260 Elapsed Time = 9.256381E+04 days
2903 Date: 02/14/07 Time: 10:10:42 CPU Time: 0 0:18:11.99 (1091.99 sec) Binary
2905 Time Step No. = 3280 Elapsed Time = 9.257743E+04 days
2906 Date: 02/14/07 Time: 10:10:47 CPU Time: 0 0:18:17.75 (1097.75 sec) Binary
2908 Time Step No. = 3300 Elapsed Time = 9.259099E+04 days

2909 Date: 02/14/07 Time: 10:10:54 CPU Time: 0 0:18:24.04 (1104.04 sec) Binary
2911 Time Step No. = 3320 Elapsed Time = 9.260441E+04 days
2912 Date: 02/14/07 Time: 10:10:59 CPU Time: 0 0:18:29.81 (1109.81 sec) Binary
2914 Time Step No. = 3340 Elapsed Time = 9.261774E+04 days
2915 Date: 02/14/07 Time: 10:11:06 CPU Time: 0 0:18:36.11 (1116.11 sec) Binary
2917 Time Step No. = 3360 Elapsed Time = 9.263189E+04 days
2918 Date: 02/14/07 Time: 10:11:12 CPU Time: 0 0:18:41.88 (1121.88 sec) Binary
2920 Time Step No. = 3380 Elapsed Time = 9.264596E+04 days
2921 Date: 02/14/07 Time: 10:11:17 CPU Time: 0 0:18:47.65 (1127.65 sec) Binary
2923 Time Step No. = 3400 Elapsed Time = 9.265943E+04 days
2924 Date: 02/14/07 Time: 10:11:24 CPU Time: 0 0:18:53.93 (1133.93 sec) Binary
2926 Time Step No. = 3420 Elapsed Time = 9.267372E+04 days
2927 Date: 02/14/07 Time: 10:11:29 CPU Time: 0 0:18:59.70 (1139.70 sec) Binary
2929 Time Step No. = 3440 Elapsed Time = 9.268795E+04 days
2930 Date: 02/14/07 Time: 10:11:36 CPU Time: 0 0:19: 5.98 (1145.98 sec) Binary
2932 Time Step No. = 3460 Elapsed Time = 9.270205E+04 days
2933 Date: 02/14/07 Time: 10:11:41 CPU Time: 0 0:19:11.76 (1151.76 sec) Binary
2935 Time Step No. = 3480 Elapsed Time = 9.271604E+04 days
2936 Date: 02/14/07 Time: 10:11:48 CPU Time: 0 0:19:18.05 (1158.05 sec) Binary
2938 Time Step No. = 3500 Elapsed Time = 9.273088E+04 days
2939 Date: 02/14/07 Time: 10:11:54 CPU Time: 0 0:19:24.26 (1164.26 sec) Binary
2941 Time Step No. = 3520 Elapsed Time = 9.274566E+04 days
2942 Date: 02/14/07 Time: 10:12:00 CPU Time: 0 0:19:30.48 (1170.48 sec) Binary
2944 Time Step No. = 3540 Elapsed Time = 9.275979E+04 days
2945 Date: 02/14/07 Time: 10:12:07 CPU Time: 0 0:19:37.23 (1177.23 sec) Binary
2947 Time Step No. = 3560 Elapsed Time = 9.277479E+04 days
2948 Date: 02/14/07 Time: 10:12:13 CPU Time: 0 0:19:43.43 (1183.43 sec) Binary
2950 Time Step No. = 3580 Elapsed Time = 9.278974E+04 days
2951 Date: 02/14/07 Time: 10:12:20 CPU Time: 0 0:19:50.19 (1190.19 sec) Binary
2953 Time Step No. = 3600 Elapsed Time = 9.280453E+04 days
2954 Date: 02/14/07 Time: 10:12:26 CPU Time: 0 0:19:56.38 (1196.38 sec) Binary
2956 Time Step No. = 3620 Elapsed Time = 9.281975E+04 days
2957 Date: 02/14/07 Time: 10:12:32 CPU Time: 0 0:20: 2.59 (1202.59 sec) Binary
2959 Time Step No. = 3640 Elapsed Time = 9.283533E+04 days
2960 Date: 02/14/07 Time: 10:12:39 CPU Time: 0 0:20: 9.36 (1209.36 sec) Binary
2962 Time Step No. = 3660 Elapsed Time = 9.285137E+04 days
2963 Date: 02/14/07 Time: 10:12:45 CPU Time: 0 0:20:15.56 (1215.56 sec) Binary
2965 Time Step No. = 3680 Elapsed Time = 9.286675E+04 days
2966 Date: 02/14/07 Time: 10:12:52 CPU Time: 0 0:20:22.31 (1222.31 sec) Binary
2968 Time Step No. = 3700 Elapsed Time = 9.288250E+04 days
2969 Date: 02/14/07 Time: 10:12:58 CPU Time: 0 0:20:28.51 (1228.51 sec) Binary
2971 Time Step No. = 3720 Elapsed Time = 9.289928E+04 days
2972 Date: 02/14/07 Time: 10:13:05 CPU Time: 0 0:20:35.27 (1235.27 sec) Binary
2974 Time Step No. = 3740 Elapsed Time = 9.291592E+04 days
2975 Date: 02/14/07 Time: 10:13:11 CPU Time: 0 0:20:41.48 (1241.48 sec) Binary
2977 Time Step No. = 3760 Elapsed Time = 9.293247E+04 days
2978 Date: 02/14/07 Time: 10:13:17 CPU Time: 0 0:20:47.36 (1247.36 sec) Binary
2980 Time Step No. = 3780 Elapsed Time = 9.294882E+04 days
2981 Date: 02/14/07 Time: 10:13:23 CPU Time: 0 0:20:53.65 (1253.65 sec) Binary
2983 Time Step No. = 3800 Elapsed Time = 9.296682E+04 days
2984 Date: 02/14/07 Time: 10:13:29 CPU Time: 0 0:20:59.43 (1259.43 sec) Binary
2986 Time Step No. = 3820 Elapsed Time = 9.298414E+04 days
2987 Date: 02/14/07 Time: 10:13:36 CPU Time: 0 0:21: 5.74 (1265.74 sec) Binary
2989 Time Step No. = 3840 Elapsed Time = 9.300189E+04 days
2990 Date: 02/14/07 Time: 10:13:41 CPU Time: 0 0:21:11.53 (1271.53 sec) Binary
2992 Time Step No. = 3860 Elapsed Time = 9.302014E+04 days
2993 Date: 02/14/07 Time: 10:13:47 CPU Time: 0 0:21:17.32 (1277.32 sec) Binary
2995 Time Step No. = 3880 Elapsed Time = 9.303884E+04 days
2996 Date: 02/14/07 Time: 10:13:53 CPU Time: 0 0:21:23.61 (1283.61 sec) Binary
2998 Time Step No. = 3900 Elapsed Time = 9.305808E+04 days
2999 Date: 02/14/07 Time: 10:13:59 CPU Time: 0 0:21:29.41 (1289.41 sec) Binary
3001 Time Step No. = 3920 Elapsed Time = 9.307720E+04 days
3002 Date: 02/14/07 Time: 10:14:06 CPU Time: 0 0:21:35.98 (1295.98 sec) Binary
3004 Time Step No. = 3940 Elapsed Time = 9.309678E+04 days
3005 Date: 02/14/07 Time: 10:14:12 CPU Time: 0 0:21:42.19 (1302.19 sec) Binary
3007 Time Step No. = 3960 Elapsed Time = 9.311692E+04 days
3008 Date: 02/14/07 Time: 10:14:19 CPU Time: 0 0:21:48.91 (1308.91 sec) Binary
3010 Time Step No. = 3980 Elapsed Time = 9.313829E+04 days
3011 Date: 02/14/07 Time: 10:14:25 CPU Time: 0 0:21:55.11 (1315.11 sec) Binary
3013 Time Step No. = 4000 Elapsed Time = 9.316104E+04 days
3014 Date: 02/14/07 Time: 10:14:31 CPU Time: 0 0:22: 1.47 (1321.47 sec) Binary
3016 Time Step No. = 4020 Elapsed Time = 9.318366E+04 days
3017 Date: 02/14/07 Time: 10:14:38 CPU Time: 0 0:22: 8.23 (1328.23 sec) Binary
3019 Time Step No. = 4040 Elapsed Time = 9.320767E+04 days
3020 Date: 02/14/07 Time: 10:14:44 CPU Time: 0 0:22:14.39 (1334.39 sec) Binary
3022 Time Step No. = 4060 Elapsed Time = 9.323324E+04 days

3023 Date: 02/14/07 Time: 10:14:51 CPU Time: 0 0:22:20.62 (1340.62 sec) Binary
3025 Time Step No. = 4080 Elapsed Time = 9.325948E+04 days
3026 Date: 02/14/07 Time: 10:14:57 CPU Time: 0 0:22:27.46 (1347.46 sec) Binary
3028 Time Step No. = 4100 Elapsed Time = 9.328834E+04 days
3029 Date: 02/14/07 Time: 10:15:04 CPU Time: 0 0:22:33.82 (1353.82 sec) Binary
3031 Time Step No. = 4120 Elapsed Time = 9.332128E+04 days
3032 Date: 02/14/07 Time: 10:15:10 CPU Time: 0 0:22:40.33 (1360.33 sec) Binary
3034 Time Step No. = 4140 Elapsed Time = 9.336491E+04 days
3035 Date: 02/14/07 Time: 10:15:18 CPU Time: 0 0:22:47.50 (1367.50 sec) Binary
3037 Time Step No. = 4160 Elapsed Time = 9.361676E+04 days
3038 Date: 02/14/07 Time: 10:15:25 CPU Time: 0 0:22:54.75 (1374.75 sec) Binary
3040 Time Step No. = 4180 Elapsed Time = 9.422795E+04 days
3041 Date: 02/14/07 Time: 10:15:34 CPU Time: 0 0:23: 4.12 (1384.12 sec) Binary
3043 Time Step No. = 4200 Elapsed Time = 9.893912E+04 days
3044 Date: 02/14/07 Time: 10:15:42 CPU Time: 0 0:23:12.17 (1392.17 sec) Binary
3046 Time Step No. = 4220 Elapsed Time = 1.009195E+05 days
3047 Date: 02/14/07 Time: 10:15:56 CPU Time: 0 0:23:26.30 (1406.30 sec) Binary
3049 Time Step No. = 4240 Elapsed Time = 1.009222E+05 days
3050 Date: 02/14/07 Time: 10:16:03 CPU Time: 0 0:23:32.98 (1412.98 sec) Binary
3052 Time Step No. = 4260 Elapsed Time = 1.009250E+05 days
3053 Date: 02/14/07 Time: 10:16:10 CPU Time: 0 0:23:39.31 (1419.31 sec) Binary
3055 Time Step No. = 4280 Elapsed Time = 1.009279E+05 days
3056 Date: 02/14/07 Time: 10:16:16 CPU Time: 0 0:23:45.65 (1425.65 sec) Binary
3058 Time Step No. = 4300 Elapsed Time = 1.009308E+05 days
3059 Date: 02/14/07 Time: 10:16:23 CPU Time: 0 0:23:52.56 (1432.56 sec) Binary
3061 Time Step No. = 4320 Elapsed Time = 1.009339E+05 days
3062 Date: 02/14/07 Time: 10:16:29 CPU Time: 0 0:23:58.88 (1438.88 sec) Binary
3064 Time Step No. = 4340 Elapsed Time = 1.009372E+05 days
3065 Date: 02/14/07 Time: 10:16:36 CPU Time: 0 0:24: 5.23 (1445.23 sec) Binary
3067 Time Step No. = 4360 Elapsed Time = 1.009405E+05 days
3068 Date: 02/14/07 Time: 10:16:43 CPU Time: 0 0:24:12.13 (1452.13 sec) Binary
3070 Time Step No. = 4380 Elapsed Time = 1.009440E+05 days
3071 Date: 02/14/07 Time: 10:16:52 CPU Time: 0 0:24:21.23 (1461.23 sec) Binary
3073 Time Step No. = 4400 Elapsed Time = 1.009468E+05 days
3074 Date: 02/14/07 Time: 10:16:54 CPU Time: 0 0:24:23.19 (1463.19 sec) Binary
3076 Time Step No. = 4420 Elapsed Time = 1.011909E+05 days
3077 Date: 02/14/07 Time: 10:16:58 CPU Time: 0 0:24:27.03 (1467.03 sec) Binary
3079 Time Step No. = 4440 Elapsed Time = 1.024529E+05 days
3080 Date: 02/14/07 Time: 10:17:11 CPU Time: 0 0:24:39.78 (1479.78 sec) Binary
3082 Time Step No. = 4460 Elapsed Time = 1.026770E+05 days
3083 Date: 02/14/07 Time: 10:17:14 CPU Time: 0 0:24:43.55 (1483.55 sec) Binary
3085 Time Step No. = 4480 Elapsed Time = 1.041130E+05 days
3086 Date: 02/14/07 Time: 10:17:28 CPU Time: 0 0:24:56.86 (1496.86 sec) Binary
3088 Time Step No. = 4500 Elapsed Time = 1.041673E+05 days
3089 Date: 02/14/07 Time: 10:17:33 CPU Time: 0 0:25: 1.82 (1501.82 sec) Binary
3091 Time Step No. = 4520 Elapsed Time = 1.049488E+05 days
3092 Date: 02/14/07 Time: 10:17:42 CPU Time: 0 0:25:11.13 (1511.13 sec) Binary
3094 Time Step No. = 4540 Elapsed Time = 1.066226E+05 days
3095 Date: 02/14/07 Time: 10:17:52 CPU Time: 0 0:25:21.22 (1521.22 sec) Binary
3097 Time Step No. = 4560 Elapsed Time = 1.087496E+05 days
3098 Date: 02/14/07 Time: 10:18:01 CPU Time: 0 0:25:29.93 (1529.93 sec) Binary
3100 Time Step No. = 4580 Elapsed Time = 1.143056E+05 days
3101 Date: 02/14/07 Time: 10:18:06 CPU Time: 0 0:25:35.01 (1535.01 sec) Binary
3103 Time Step No. = 4600 Elapsed Time = 1.395547E+05 days
3104 Date: 02/14/07 Time: 10:18:15 CPU Time: 0 0:25:43.98 (1543.98 sec) Binary
3106 Time Step No. = 4620 Elapsed Time = 1.524241E+05 days
3107 Date: 02/14/07 Time: 10:18:26 CPU Time: 0 0:25:54.92 (1554.92 sec) Binary
3109 Time Step No. = 4640 Elapsed Time = 1.553196E+05 days
3110 Date: 02/14/07 Time: 10:18:35 CPU Time: 0 0:26: 4.08 (1564.08 sec) Binary
3112 Time Step No. = 4660 Elapsed Time = 1.591320E+05 days
3113 Date: 02/14/07 Time: 10:18:44 CPU Time: 0 0:26:12.77 (1572.77 sec) Binary
3115 Time Step No. = 4680 Elapsed Time = 1.721310E+05 days
3116 Date: 02/14/07 Time: 10:18:53 CPU Time: 0 0:26:22.15 (1582.15 sec) Binary
3118 Time Step No. = 4700 Elapsed Time = 1.944112E+05 days
3119 Date: 02/14/07 Time: 10:19:02 CPU Time: 0 0:26:30.77 (1590.77 sec) Binary
3121 Time Step No. = 4720 Elapsed Time = 1.986996E+05 days
3122 Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0:26:40.02 (1600.02 sec) Binary
3124 Time Step No. = 4740 Elapsed Time = 2.057306E+05 days
3125 Date: 02/14/07 Time: 10:19:19 CPU Time: 0 0:26:47.82 (1607.82 sec) Binary
3127 Time Step No. = 4760 Elapsed Time = 2.132912E+05 days
3128 Date: 02/14/07 Time: 10:19:26 CPU Time: 0 0:26:55.61 (1615.61 sec) Binary
3130 Time Step No. = 4780 Elapsed Time = 2.193162E+05 days
3131 Date: 02/14/07 Time: 10:19:35 CPU Time: 0 0:27: 4.02 (1624.02 sec) Binary
3133 Time Step No. = 4800 Elapsed Time = 2.226687E+05 days
3134 Date: 02/14/07 Time: 10:19:45 CPU Time: 0 0:27:13.81 (1633.81 sec) Binary
3136 Time Step No. = 4820 Elapsed Time = 2.259834E+05 days

3137 Date: 02/14/07 Time: 10:19:52 CPU Time: 0 0:27:20.63 (1640.63 sec) Binary
3139 Time Step No. = 4840 Elapsed Time = 2.712249E+05 days
3140 Date: 02/14/07 Time: 10:19:58 CPU Time: 0 0:27:26.68 (1646.68 sec) Binary
3142 Time Step No. = 4860 Elapsed Time = 3.652431E+05 days
3143 Date: 02/14/07 Time: 10:20:06 CPU Time: 0 0:27:34.69 (1654.69 sec) Binary
3145 Time Step No. = 4880 Elapsed Time = 3.652444E+05 days
3146 Date: 02/14/07 Time: 10:20:08 CPU Time: 0 0:27:37.49 (1657.49 sec) Binary
3148 Time Step No. = 4900 Elapsed Time = 3.653026E+05 days
3149 Date: 02/14/07 Time: 10:20:12 CPU Time: 0 0:27:40.63 (1660.63 sec) Binary
3151 Time Step No. = 4920 Elapsed Time = 3.655257E+05 days
3152 Date: 02/14/07 Time: 10:20:18 CPU Time: 0 0:27:47.05 (1667.05 sec) Binary
3154 Time Step No. = 4940 Elapsed Time = 3.664875E+05 days
3155 Date: 02/14/07 Time: 10:20:25 CPU Time: 0 0:27:54.29 (1674.29 sec) Binary
3157 Time Step No. = 4960 Elapsed Time = 3.665925E+05 days
3158 Date: 02/14/07 Time: 10:20:27 CPU Time: 0 0:27:55.94 (1675.94 sec) Binary
3160 Time Step No. = 4980 Elapsed Time = 3.668305E+05 days
3161 Date: 02/14/07 Time: 10:20:30 CPU Time: 0 0:27:59.13 (1679.13 sec) Binary
3163 Time Step No. = 5000 Elapsed Time = 3.681194E+05 days
3164 Date: 02/14/07 Time: 10:20:38 CPU Time: 0 0:28: 6.47 (1686.47 sec) Binary
3166 Time Step No. = 5020 Elapsed Time = 3.709195E+05 days
3167 Date: 02/14/07 Time: 10:20:44 CPU Time: 0 0:28:13.19 (1693.19 sec) Binary
3169 Time Step No. = 5040 Elapsed Time = 4.282789E+05 days
3170 Date: 02/14/07 Time: 10:20:52 CPU Time: 0 0:28:20.55 (1700.55 sec) Binary
3172 Time Step No. = 5060 Elapsed Time = 4.653183E+05 days
3173 Date: 02/14/07 Time: 10:21:00 CPU Time: 0 0:28:28.25 (1708.25 sec) Binary
3175 Time Step No. = 5080 Elapsed Time = 4.900809E+05 days
3176 Date: 02/14/07 Time: 10:21:06 CPU Time: 0 0:28:35.17 (1715.17 sec) Binary
3178 Time Step No. = 5100 Elapsed Time = 5.157774E+05 days
3179 Date: 02/14/07 Time: 10:21:12 CPU Time: 0 0:28:41.18 (1721.18 sec) Binary
3181 Time Step No. = 5120 Elapsed Time = 5.494751E+05 days
3182 Date: 02/14/07 Time: 10:21:19 CPU Time: 0 0:28:47.85 (1727.85 sec) Binary
3184 Time Step No. = 5140 Elapsed Time = 5.579649E+05 days
3185 Date: 02/14/07 Time: 10:21:29 CPU Time: 0 0:28:58.11 (1738.11 sec) Binary
3187 Time Step No. = 5160 Elapsed Time = 5.584439E+05 days
3188 Date: 02/14/07 Time: 10:21:33 CPU Time: 0 0:29: 1.74 (1741.74 sec) Binary
3190 Time Step No. = 5180 Elapsed Time = 5.690395E+05 days
3191 Date: 02/14/07 Time: 10:21:39 CPU Time: 0 0:29: 7.97 (1747.97 sec) Binary
3193 Time Step No. = 5200 Elapsed Time = 5.825788E+05 days
3194 Date: 02/14/07 Time: 10:21:48 CPU Time: 0 0:29:17.13 (1757.13 sec) Binary
3196 Time Step No. = 5220 Elapsed Time = 5.945658E+05 days
3197 Date: 02/14/07 Time: 10:21:55 CPU Time: 0 0:29:23.17 (1763.17 sec) Binary
3199 Time Step No. = 5240 Elapsed Time = 6.257360E+05 days
3200 Date: 02/14/07 Time: 10:22:01 CPU Time: 0 0:29:29.47 (1769.47 sec) Binary
3202 Time Step No. = 5260 Elapsed Time = 6.705437E+05 days
3203 Date: 02/14/07 Time: 10:22:10 CPU Time: 0 0:29:38.51 (1778.51 sec) Binary
3205 Time Step No. = 5280 Elapsed Time = 7.337650E+05 days
3206 Date: 02/14/07 Time: 10:22:19 CPU Time: 0 0:29:47.88 (1787.88 sec) Binary
3208 Time Step No. = 5300 Elapsed Time = 7.882779E+05 days
3209 Date: 02/14/07 Time: 10:22:28 CPU Time: 0 0:29:56.92 (1796.92 sec) Binary
3211 Time Step No. = 5320 Elapsed Time = 9.160867E+05 days
3212 Date: 02/14/07 Time: 10:22:38 CPU Time: 0 0:30: 6.98 (1806.98 sec) Binary
3214 Time Step No. = 5340 Elapsed Time = 9.335625E+05 days
3215 Date: 02/14/07 Time: 10:22:48 CPU Time: 0 0:30:16.46 (1816.46 sec) Binary
3217 Time Step No. = 5360 Elapsed Time = 9.974253E+05 days
3218 Date: 02/14/07 Time: 10:22:57 CPU Time: 0 0:30:25.13 (1825.13 sec) Binary
3220 Time Step No. = 5380 Elapsed Time = 1.042229E+06 days
3221 Date: 02/14/07 Time: 10:23:03 CPU Time: 0 0:30:31.16 (1831.16 sec) Binary
3223 Time Step No. = 5400 Elapsed Time = 1.260820E+06 days
3224 Date: 02/14/07 Time: 10:23:11 CPU Time: 0 0:30:39.28 (1839.28 sec) Binary
3226 Time Step No. = 5420 Elapsed Time = 1.334337E+06 days
3227 Date: 02/14/07 Time: 10:23:19 CPU Time: 0 0:30:47.75 (1847.75 sec) Binary
3229 Time Step No. = 5440 Elapsed Time = 1.345331E+06 days
3230 Date: 02/14/07 Time: 10:23:24 CPU Time: 0 0:30:52.06 (1852.06 sec) Binary
3232 Time Step No. = 5460 Elapsed Time = 1.427559E+06 days
3233 Date: 02/14/07 Time: 10:23:34 CPU Time: 0 0:31: 2.34 (1862.34 sec) Binary
3235 Time Step No. = 5480 Elapsed Time = 1.441381E+06 days
3236 Date: 02/14/07 Time: 10:23:41 CPU Time: 0 0:31: 9.28 (1869.28 sec) Binary
3238 Time Step No. = 5500 Elapsed Time = 1.579545E+06 days
3239 Date: 02/14/07 Time: 10:23:49 CPU Time: 0 0:31:17.25 (1877.25 sec) Binary
3241 Time Step No. = 5520 Elapsed Time = 1.722127E+06 days
3242 Date: 02/14/07 Time: 10:23:58 CPU Time: 0 0:31:26.76 (1886.76 sec) Binary
3244 Time Step No. = 5540 Elapsed Time = 1.729742E+06 days
3245 Date: 02/14/07 Time: 10:24:02 CPU Time: 0 0:31:30.25 (1890.25 sec) Binary
3247 Time Step No. = 5560 Elapsed Time = 1.756478E+06 days
3248 Date: 02/14/07 Time: 10:24:09 CPU Time: 0 0:31:37.26 (1897.26 sec) Binary
3250 Time Step No. = 5580 Elapsed Time = 1.769620E+06 days

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3251 Date: 02/14/07 Time: 10:24:17 CPU Time: 0 0:31:45.78 ( 1905.78 sec) Binary
3253 Time Step No. = 5600 Elapsed Time = 1.839288E+06 days
3254 Date: 02/14/07 Time: 10:24:25 CPU Time: 0 0:31:53.40 ( 1913.40 sec) Binary
3256 Time Step No. = 5620 Elapsed Time = 2.169142E+06 days
3257 Date: 02/14/07 Time: 10:24:33 CPU Time: 0 0:32: 1.39 ( 1921.39 sec) Binary
3259 Time Step No. = 5640 Elapsed Time = 2.272625E+06 days
3260 Date: 02/14/07 Time: 10:24:39 CPU Time: 0 0:32: 6.85 ( 1926.85 sec) Binary
3262 Time Step No. = 5660 Elapsed Time = 2.337198E+06 days
3263 Date: 02/14/07 Time: 10:24:46 CPU Time: 0 0:32:14.32 ( 1934.32 sec) Binary
3265 Time Step No. = 5680 Elapsed Time = 2.341430E+06 days
3266 Date: 02/14/07 Time: 10:24:54 CPU Time: 0 0:32:21.87 ( 1941.87 sec) Binary
3268 Time Step No. = 5700 Elapsed Time = 2.377641E+06 days
3269 Date: 02/14/07 Time: 10:24:59 CPU Time: 0 0:32:27.06 ( 1947.06 sec) Binary
3271 Time Step No. = 5720 Elapsed Time = 2.750209E+06 days
3272 Date: 02/14/07 Time: 10:25:05 CPU Time: 0 0:32:33.63 ( 1953.63 sec) Binary
3274 Time Step No. = 5740 Elapsed Time = 2.753701E+06 days
3275 Date: 02/14/07 Time: 10:25:14 CPU Time: 0 0:32:41.92 ( 1961.92 sec) Binary
3277 Time Step No. = 5760 Elapsed Time = 2.765715E+06 days
3278 Date: 02/14/07 Time: 10:25:20 CPU Time: 0 0:32:47.88 ( 1967.88 sec) Binary
3280 Time Step No. = 5780 Elapsed Time = 2.912561E+06 days
3281 Date: 02/14/07 Time: 10:25:27 CPU Time: 0 0:32:55.64 ( 1975.64 sec) Binary
3283 Time Step No. = 5800 Elapsed Time = 3.153612E+06 days
3284 Date: 02/14/07 Time: 10:25:36 CPU Time: 0 0:33: 3.99 ( 1983.99 sec) Binary
3286 Time Step No. = 5820 Elapsed Time = 3.155082E+06 days
3287 Date: 02/14/07 Time: 10:25:44 CPU Time: 0 0:33:11.82 ( 1991.82 sec) Binary
3289 Time Step No. = 5840 Elapsed Time = 3.160573E+06 days
3290 Date: 02/14/07 Time: 10:25:48 CPU Time: 0 0:33:16.26 ( 1996.26 sec) Binary
3292 Time Step No. = 5860 Elapsed Time = 3.171708E+06 days
3293 Date: 02/14/07 Time: 10:25:54 CPU Time: 0 0:33:21.65 ( 2001.65 sec) Binary
3295 Time Step No. = 5880 Elapsed Time = 3.314482E+06 days
3296 Date: 02/14/07 Time: 10:26:00 CPU Time: 0 0:33:27.88 ( 2007.88 sec) Binary
3298 Time Step No. = 5900 Elapsed Time = 3.592771E+06 days
3299 Date: 02/14/07 Time: 10:26:06 CPU Time: 0 0:33:34.32 ( 2014.32 sec) Binary
3302 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
3318 CPU Time (this time step) = 0.24 sec = 0.00007 hr
3319 CPU Time (total for run) = 1727.52 sec = 0.47987 hr
3320 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
3318 CPU Time (this time step) = 0.30 sec = 0.00008 hr
3319 CPU Time (total for run) = 2015.18 sec = 0.55977 hr
3320 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
3996 Date: 02/14/07 Time: 11:13:15 CPU Time: 0 0:28:47.53 ( 1727.53 sec) ASCII
3998 Time Step No. = 5903 Elapsed Time = 3.652431E+06 days
3999 Date: 02/14/07 Time: 11:13:15 CPU Time: 0 0:28:47.53 ( 1727.53 sec) Binary
4004 *****
4005 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
4006 * Completed: 02/14/07 at 11:13:15 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
4007 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
3996 Date: 02/14/07 Time: 10:26:07 CPU Time: 0 0:33:35.20 ( 2015.20 sec) ASCII
3998 Time Step No. = 5903 Elapsed Time = 3.652431E+06 days
3999 Date: 02/14/07 Time: 10:26:07 CPU Time: 0 0:33:35.20 ( 2015.20 sec) Binary
4004 *****
4005 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
4006 * Completed: 02/14/07 at 10:26:07 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
4007 *****
*****
Number of difference sections found: 11
Number of difference records found: 584
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
```

BF2_QB0600_ES45_TEST7_V010_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
3   ** Begun on: 02/14/07 at 10:45:58 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
4   *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
3   ** Begun on: 02/14/07 at 09:53:57 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4   *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
61  PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_TEST7_V010.INP;2
62  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
61  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;2
62  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
66  PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_CLOSURE.DAT;1
67  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
66  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_CLOSURE.DAT;1
67  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
71  PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
72  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
71  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
72  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
76  PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.SUM;1
77  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
76  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.SUM;1
77  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
81  PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.BIN;1
82  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
81  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.BIN;1
82  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
86  PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.ROT;1
87  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
86  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.ROT;1
87  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
1772 CPU Time (this time step) = 0.11 sec = 0.00003 hr
1773 CPU Time (total for run) = 20.70 sec = 0.00575 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 23.38 sec = 0.00649 hr
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1774 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
2450 Date: 02/14/07 Time: 10:46:19 CPU Time: 0 0: 0:20.72 ( 20.72 sec) ASCII
2452 Time Step No. = 138 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:46:19 CPU Time: 0 0: 0:20.72 ( 20.72 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 1.927161E-02 days
2456 Date: 02/14/07 Time: 10:46:20 CPU Time: 0 0: 0:21.14 ( 21.14 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 3.062646E+00 days
2459 Date: 02/14/07 Time: 10:46:23 CPU Time: 0 0: 0:24.48 ( 24.48 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.478092E+02 days
2462 Date: 02/14/07 Time: 10:46:27 CPU Time: 0 0: 0:28.06 ( 28.06 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 2.616479E+03 days
2465 Date: 02/14/07 Time: 10:46:31 CPU Time: 0 0: 0:32.96 ( 32.96 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 1.564322E+04 days
2468 Date: 02/14/07 Time: 10:46:39 CPU Time: 0 0: 0:40.50 ( 40.50 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 1.570228E+04 days
2471 Date: 02/14/07 Time: 10:46:45 CPU Time: 0 0: 0:46.01 ( 46.01 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 1.636574E+04 days
2474 Date: 02/14/07 Time: 10:46:48 CPU Time: 0 0: 0:49.97 ( 49.97 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 2.627969E+04 days
2477 Date: 02/14/07 Time: 10:46:53 CPU Time: 0 0: 0:54.43 ( 54.43 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.052605E+04 days
2480 Date: 02/14/07 Time: 10:47:01 CPU Time: 0 0: 1: 2.16 ( 62.16 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.082160E+04 days
2483 Date: 02/14/07 Time: 10:47:06 CPU Time: 0 0: 1: 7.95 ( 67.95 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 3.098990E+04 days
2486 Date: 02/14/07 Time: 10:47:09 CPU Time: 0 0: 1:10.85 ( 70.85 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.652480E+04 days
2489 Date: 02/14/07 Time: 10:47:16 CPU Time: 0 0: 1:17.84 ( 77.84 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 3.654799E+04 days
2492 Date: 02/14/07 Time: 10:47:19 CPU Time: 0 0: 1:20.87 ( 80.87 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.665586E+04 days
2495 Date: 02/14/07 Time: 10:47:23 CPU Time: 0 0: 1:24.07 ( 84.07 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 3.668780E+04 days
2498 Date: 02/14/07 Time: 10:47:25 CPU Time: 0 0: 1:26.21 ( 86.21 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.849288E+04 days
2501 Date: 02/14/07 Time: 10:47:29 CPU Time: 0 0: 1:30.34 ( 90.34 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 4.259472E+04 days
2504 Date: 02/14/07 Time: 10:47:33 CPU Time: 0 0: 1:34.68 ( 94.68 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 4.286084E+04 days
2507 Date: 02/14/07 Time: 10:47:39 CPU Time: 0 0: 1:39.92 ( 99.92 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 4.373619E+04 days
2510 Date: 02/14/07 Time: 10:47:42 CPU Time: 0 0: 1:43.57 ( 103.57 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 6.235496E+04 days
2513 Date: 02/14/07 Time: 10:47:48 CPU Time: 0 0: 1:49.26 ( 109.26 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 7.292165E+04 days
2516 Date: 02/14/07 Time: 10:47:55 CPU Time: 0 0: 1:56.23 ( 116.23 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 7.898391E+04 days
2519 Date: 02/14/07 Time: 10:48:02 CPU Time: 0 0: 2: 2.90 ( 122.90 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 9.913502E+04 days
2522 Date: 02/14/07 Time: 10:48:08 CPU Time: 0 0: 2: 9.28 ( 129.28 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 1.286357E+05 days
2525 Date: 02/14/07 Time: 10:48:14 CPU Time: 0 0: 2:15.61 ( 135.61 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 1.645239E+05 days
2528 Date: 02/14/07 Time: 10:48:20 CPU Time: 0 0: 2:21.25 ( 141.25 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 1.856670E+05 days
2531 Date: 02/14/07 Time: 10:48:28 CPU Time: 0 0: 2:29.44 ( 149.44 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 2.030085E+05 days
2534 Date: 02/14/07 Time: 10:48:35 CPU Time: 0 0: 2:36.59 ( 156.59 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 2.179414E+05 days
2537 Date: 02/14/07 Time: 10:48:44 CPU Time: 0 0: 2:44.84 ( 164.84 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 2.337832E+05 days
2540 Date: 02/14/07 Time: 10:48:51 CPU Time: 0 0: 2:52.35 ( 172.35 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 2.687785E+05 days
2543 Date: 02/14/07 Time: 10:48:57 CPU Time: 0 0: 2:58.29 ( 178.29 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.009523E+05 days
2546 Date: 02/14/07 Time: 10:49:05 CPU Time: 0 0: 3: 6.05 ( 186.05 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.219089E+05 days
2549 Date: 02/14/07 Time: 10:49:13 CPU Time: 0 0: 3:13.96 ( 193.96 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.391516E+05 days
2552 Date: 02/14/07 Time: 10:49:20 CPU Time: 0 0: 3:20.58 ( 200.58 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.652438E+05 days
2555 Date: 02/14/07 Time: 10:49:25 CPU Time: 0 0: 3:25.89 ( 205.89 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 3.652885E+05 days
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2558 Date: 02/14/07 Time: 10:49:27 CPU Time: 0 0: 3:28.27 (208.27 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 3.665818E+05 days
2561 Date: 02/14/07 Time: 10:49:30 CPU Time: 0 0: 3:30.78 (210.78 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 3.665902E+05 days
2564 Date: 02/14/07 Time: 10:49:31 CPU Time: 0 0: 3:32.00 (212.00 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 3.673164E+05 days
2567 Date: 02/14/07 Time: 10:49:33 CPU Time: 0 0: 3:34.32 (214.32 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 3.787894E+05 days
2570 Date: 02/14/07 Time: 10:49:38 CPU Time: 0 0: 3:39.43 (219.43 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 3.981376E+05 days
2573 Date: 02/14/07 Time: 10:49:46 CPU Time: 0 0: 3:46.53 (226.53 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 4.776050E+05 days
2576 Date: 02/14/07 Time: 10:49:53 CPU Time: 0 0: 3:53.16 (233.16 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 6.163774E+05 days
2579 Date: 02/14/07 Time: 10:49:59 CPU Time: 0 0: 3:59.70 (239.70 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 8.538495E+05 days
2582 Date: 02/14/07 Time: 10:50:07 CPU Time: 0 0: 4: 7.39 (247.39 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.041013E+06 days
2585 Date: 02/14/07 Time: 10:50:14 CPU Time: 0 0: 4:14.54 (254.54 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 1.426013E+06 days
2588 Date: 02/14/07 Time: 10:50:20 CPU Time: 0 0: 4:20.02 (260.02 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.569664E+06 days
2591 Date: 02/14/07 Time: 10:50:26 CPU Time: 0 0: 4:26.71 (266.71 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.838319E+06 days
2594 Date: 02/14/07 Time: 10:50:33 CPU Time: 0 0: 4:33.46 (273.46 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.081785E+06 days
2597 Date: 02/14/07 Time: 10:50:37 CPU Time: 0 0: 4:37.71 (277.71 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 2.372417E+06 days
2600 Date: 02/14/07 Time: 10:50:43 CPU Time: 0 0: 4:43.12 (283.12 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 2.772417E+06 days
2603 Date: 02/14/07 Time: 10:50:46 CPU Time: 0 0: 4:46.85 (286.85 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 3.172417E+06 days
2606 Date: 02/14/07 Time: 10:50:50 CPU Time: 0 0: 4:50.46 (290.46 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 3.572417E+06 days
2609 Date: 02/14/07 Time: 10:50:54 CPU Time: 0 0: 4:54.00 (294.00 sec) Binary
2612 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA: [ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
2450 Date: 02/14/07 Time: 09:54:21 CPU Time: 0 0: 0:23.39 (23.39 sec) ASCII
2452 Time Step No. = 138 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:54:21 CPU Time: 0 0: 0:23.40 (23.40 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 1.927161E-02 days
2456 Date: 02/14/07 Time: 09:54:21 CPU Time: 0 0: 0:23.87 (23.87 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 3.062646E+00 days
2459 Date: 02/14/07 Time: 09:54:25 CPU Time: 0 0: 0:27.65 (27.65 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.478092E+02 days
2462 Date: 02/14/07 Time: 09:54:29 CPU Time: 0 0: 0:31.69 (31.69 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 2.616479E+03 days
2465 Date: 02/14/07 Time: 09:54:35 CPU Time: 0 0: 0:37.25 (37.25 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 1.564322E+04 days
2468 Date: 02/14/07 Time: 09:54:43 CPU Time: 0 0: 0:45.86 (45.86 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 1.570228E+04 days
2471 Date: 02/14/07 Time: 09:54:50 CPU Time: 0 0: 0:52.16 (52.16 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 1.636574E+04 days
2474 Date: 02/14/07 Time: 09:54:54 CPU Time: 0 0: 0:56.68 (56.68 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 2.627969E+04 days
2477 Date: 02/14/07 Time: 09:54:59 CPU Time: 0 0: 1: 1.80 (61.80 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.052605E+04 days
2480 Date: 02/14/07 Time: 09:55:08 CPU Time: 0 0: 1:10.47 (70.47 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.082160E+04 days
2483 Date: 02/14/07 Time: 09:55:14 CPU Time: 0 0: 1:16.74 (76.74 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 3.098990E+04 days
2486 Date: 02/14/07 Time: 09:55:17 CPU Time: 0 0: 1:19.98 (79.98 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.652480E+04 days
2489 Date: 02/14/07 Time: 09:55:26 CPU Time: 0 0: 1:28.15 (88.15 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 3.654799E+04 days
2492 Date: 02/14/07 Time: 09:55:29 CPU Time: 0 0: 1:31.69 (91.69 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.665586E+04 days
2495 Date: 02/14/07 Time: 09:55:33 CPU Time: 0 0: 1:35.44 (95.44 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 3.668780E+04 days
2498 Date: 02/14/07 Time: 09:55:35 CPU Time: 0 0: 1:37.97 (97.97 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.849288E+04 days
2501 Date: 02/14/07 Time: 09:55:40 CPU Time: 0 0: 1:42.81 (102.81 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 4.259472E+04 days
2504 Date: 02/14/07 Time: 09:55:45 CPU Time: 0 0: 1:47.90 (107.90 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 4.286084E+04 days

2507 Date: 02/14/07 Time: 09:55:52 CPU Time: 0 0: 1:54.02 (114.02 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 4.373619E+04 days
2510 Date: 02/14/07 Time: 09:55:56 CPU Time: 0 0: 1:58.30 (118.30 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 6.235496E+04 days
2513 Date: 02/14/07 Time: 09:56:03 CPU Time: 0 0: 2: 4.96 (124.96 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 7.292165E+04 days
2516 Date: 02/14/07 Time: 09:56:10 CPU Time: 0 0: 2:12.94 (132.94 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 7.898391E+04 days
2519 Date: 02/14/07 Time: 09:56:18 CPU Time: 0 0: 2:20.64 (140.64 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 9.913502E+04 days
2522 Date: 02/14/07 Time: 09:56:26 CPU Time: 0 0: 2:28.07 (148.07 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 1.286357E+05 days
2525 Date: 02/14/07 Time: 09:56:33 CPU Time: 0 0: 2:35.50 (155.50 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 1.645239E+05 days
2528 Date: 02/14/07 Time: 09:56:40 CPU Time: 0 0: 2:41.94 (161.94 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 1.856670E+05 days
2531 Date: 02/14/07 Time: 09:56:49 CPU Time: 0 0: 2:51.42 (171.42 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 2.030085E+05 days
2534 Date: 02/14/07 Time: 09:56:57 CPU Time: 0 0: 2:59.53 (179.53 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 2.179414E+05 days
2537 Date: 02/14/07 Time: 09:57:07 CPU Time: 0 0: 3: 9.09 (189.09 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 2.337832E+05 days
2540 Date: 02/14/07 Time: 09:57:15 CPU Time: 0 0: 3:17.84 (197.84 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 2.687785E+05 days
2543 Date: 02/14/07 Time: 09:57:22 CPU Time: 0 0: 3:24.76 (204.76 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.009523E+05 days
2546 Date: 02/14/07 Time: 09:57:31 CPU Time: 0 0: 3:33.78 (213.78 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.218089E+05 days
2549 Date: 02/14/07 Time: 09:57:40 CPU Time: 0 0: 3:42.74 (222.74 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.391516E+05 days
2552 Date: 02/14/07 Time: 09:57:48 CPU Time: 0 0: 3:49.95 (229.95 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.652438E+05 days
2555 Date: 02/14/07 Time: 09:57:53 CPU Time: 0 0: 3:55.62 (235.62 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 3.652885E+05 days
2558 Date: 02/14/07 Time: 09:57:56 CPU Time: 0 0: 3:58.15 (238.15 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 3.665818E+05 days
2561 Date: 02/14/07 Time: 09:57:59 CPU Time: 0 0: 4: 0.84 (240.84 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 3.665902E+05 days
2564 Date: 02/14/07 Time: 09:58:00 CPU Time: 0 0: 4: 2.17 (242.17 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 3.673164E+05 days
2567 Date: 02/14/07 Time: 09:58:03 CPU Time: 0 0: 4: 4.70 (244.70 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 3.787894E+05 days
2570 Date: 02/14/07 Time: 09:58:08 CPU Time: 0 0: 4:10.23 (250.23 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 3.981376E+05 days
2573 Date: 02/14/07 Time: 09:58:16 CPU Time: 0 0: 4:17.91 (257.91 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 4.776050E+05 days
2576 Date: 02/14/07 Time: 09:58:23 CPU Time: 0 0: 4:25.08 (265.08 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 6.163774E+05 days
2579 Date: 02/14/07 Time: 09:58:31 CPU Time: 0 0: 4:32.12 (272.12 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 8.538495E+05 days
2582 Date: 02/14/07 Time: 09:58:39 CPU Time: 0 0: 4:40.41 (280.41 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.041013E+06 days
2585 Date: 02/14/07 Time: 09:58:47 CPU Time: 0 0: 4:48.64 (288.64 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 1.426013E+06 days
2588 Date: 02/14/07 Time: 09:58:54 CPU Time: 0 0: 4:55.14 (295.14 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.569664E+06 days
2591 Date: 02/14/07 Time: 09:59:02 CPU Time: 0 0: 5: 3.12 (303.12 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.838319E+06 days
2594 Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 5:11.14 (311.14 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.081785E+06 days
2597 Date: 02/14/07 Time: 09:59:15 CPU Time: 0 0: 5:16.21 (316.21 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 2.372417E+06 days
2600 Date: 02/14/07 Time: 09:59:22 CPU Time: 0 0: 5:22.67 (322.67 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 2.772417E+06 days
2603 Date: 02/14/07 Time: 09:59:26 CPU Time: 0 0: 5:27.13 (327.13 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 3.172417E+06 days
2606 Date: 02/14/07 Time: 09:59:31 CPU Time: 0 0: 5:31.46 (331.46 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 3.572417E+06 days
2609 Date: 02/14/07 Time: 09:59:35 CPU Time: 0 0: 5:35.70 (335.70 sec) Binary
2612 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT:1

2628 CPU Time (this time step) = 0.06 sec = 0.00002 hr
2629 CPU Time (total for run) = 294.76 sec = 0.08188 hr
2630 *****

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*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
 2628 CPU Time (this time step) = 0.07 sec = 0.00002 hr
 2629 CPU Time (total for run) = 336.61 sec = 0.09350 hr
 2630 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
 3306 Date: 02/14/07 Time: 10:50:54 CPU Time: 0 0: 4:54.78 ( 294.78 sec) ASCII
 3308 Time Step No. = 1165 Elapsed Time = 3.652431E+06 days
 3309 Date: 02/14/07 Time: 10:50:54 CPU Time: 0 0: 4:54.78 ( 294.78 sec) Binary
 3314 *****
 3315 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3316 * Completed: 02/14/07 at 10:50:54 Run on: TBN - ALPHA AXP OpenVMS V8.2 *
 3317 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
 3306 Date: 02/14/07 Time: 09:59:36 CPU Time: 0 0: 5:36.64 ( 336.64 sec) ASCII
 3308 Time Step No. = 1165 Elapsed Time = 3.652431E+06 days
 3309 Date: 02/14/07 Time: 09:59:36 CPU Time: 0 0: 5:36.64 ( 336.64 sec) Binary
 3314 *****
 3315 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3316 * Completed: 02/14/07 at 09:59:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3317 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 124

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
```

BF2_QB0600_ES45_TEST7_V011_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
 3 ** Begun on: 02/14/07 at 10:46:28 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 3 ** Begun on: 02/14/07 at 09:54:06 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
 61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_TEST7_V011.INP;2
 62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;2
 62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
 66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_CLOSURE.DAT;1
 67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_CLOSURE.DAT;1
 67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
 71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
 72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
```

```
76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
1772 CPU Time (this time step) = 0.12 sec = 0.00003 hr
1773 CPU Time (total for run) = 21.50 sec = 0.00597 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
1772 CPU Time (this time step) = 0.14 sec = 0.00004 hr
1773 CPU Time (total for run) = 25.63 sec = 0.00712 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
2450 Date: 02/14/07 Time: 10:46:49 CPU Time: 0 0: 0:21.51 ( 21.51 sec) ASCII
2452 Time Step No. = 142 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:46:49 CPU Time: 0 0: 0:21.52 ( 21.52 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 1.064671E-03 days
2456 Date: 02/14/07 Time: 10:46:52 CPU Time: 0 0: 0:24.53 ( 24.53 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 9.402002E-02 days
2459 Date: 02/14/07 Time: 10:46:55 CPU Time: 0 0: 0:27.33 ( 27.33 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 5.514852E+00 days
2462 Date: 02/14/07 Time: 10:46:58 CPU Time: 0 0: 0:30.11 ( 30.11 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 2.178362E+02 days
2465 Date: 02/14/07 Time: 10:47:01 CPU Time: 0 0: 0:33.58 ( 33.58 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 2.221380E+03 days
2468 Date: 02/14/07 Time: 10:47:07 CPU Time: 0 0: 0:38.83 ( 38.83 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 5.532745E+03 days
2471 Date: 02/14/07 Time: 10:47:13 CPU Time: 0 0: 0:45.52 ( 45.52 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 5.850050E+03 days
2474 Date: 02/14/07 Time: 10:47:18 CPU Time: 0 0: 0:50.26 ( 50.26 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 7.163773E+03 days
2477 Date: 02/14/07 Time: 10:47:24 CPU Time: 0 0: 0:56.54 ( 56.54 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 7.646916E+03 days
2480 Date: 02/14/07 Time: 10:47:30 CPU Time: 0 0: 1: 1.90 ( 61.90 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 8.451464E+03 days
2483 Date: 02/14/07 Time: 10:47:34 CPU Time: 0 0: 1: 6.24 ( 66.24 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 8.495154E+03 days
2486 Date: 02/14/07 Time: 10:47:39 CPU Time: 0 0: 1:11.09 ( 71.09 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 8.550791E+03 days
2489 Date: 02/14/07 Time: 10:47:43 CPU Time: 0 0: 1:15.37 ( 75.37 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 8.902588E+03 days
2492 Date: 02/14/07 Time: 10:47:48 CPU Time: 0 0: 1:20.37 ( 80.37 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 1.392947E+04 days
2495 Date: 02/14/07 Time: 10:47:54 CPU Time: 0 0: 1:25.77 ( 85.77 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 1.478125E+04 days
2498 Date: 02/14/07 Time: 10:47:59 CPU Time: 0 0: 1:30.67 ( 90.67 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 1.657464E+04 days
2501 Date: 02/14/07 Time: 10:48:04 CPU Time: 0 0: 1:35.96 ( 95.96 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 1.869145E+04 days
2504 Date: 02/14/07 Time: 10:48:10 CPU Time: 0 0: 1:42.39 ( 102.39 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 1.980385E+04 days
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2507 Date: 02/14/07 Time: 10:48:15 CPU Time: 0 0: 1:46.72 (106.72 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 2.165433E+04 days
2510 Date: 02/14/07 Time: 10:48:20 CPU Time: 0 0: 1:52.54 (112.54 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 2.189594E+04 days
2513 Date: 02/14/07 Time: 10:48:26 CPU Time: 0 0: 1:57.95 (117.95 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 2.219046E+04 days
2516 Date: 02/14/07 Time: 10:48:32 CPU Time: 0 0: 2: 3.76 (123.76 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 2.441063E+04 days
2519 Date: 02/14/07 Time: 10:48:36 CPU Time: 0 0: 2: 8.15 (128.15 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 2.696736E+04 days
2522 Date: 02/14/07 Time: 10:48:42 CPU Time: 0 0: 2:14.25 (134.25 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 3.055720E+04 days
2525 Date: 02/14/07 Time: 10:48:48 CPU Time: 0 0: 2:20.31 (140.31 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 3.382226E+04 days
2528 Date: 02/14/07 Time: 10:48:53 CPU Time: 0 0: 2:25.14 (145.14 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 3.652433E+04 days
2531 Date: 02/14/07 Time: 10:49:00 CPU Time: 0 0: 2:32.15 (152.15 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 3.652532E+04 days
2534 Date: 02/14/07 Time: 10:49:03 CPU Time: 0 0: 2:34.60 (154.60 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 3.656608E+04 days
2537 Date: 02/14/07 Time: 10:49:06 CPU Time: 0 0: 2:37.73 (157.73 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 3.665527E+04 days
2540 Date: 02/14/07 Time: 10:49:08 CPU Time: 0 0: 2:39.95 (159.95 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 3.669519E+04 days
2543 Date: 02/14/07 Time: 10:49:10 CPU Time: 0 0: 2:42.05 (162.05 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 3.766504E+04 days
2546 Date: 02/14/07 Time: 10:49:14 CPU Time: 0 0: 2:46.21 (166.21 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.934114E+04 days
2549 Date: 02/14/07 Time: 10:49:23 CPU Time: 0 0: 2:54.74 (174.74 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.965251E+04 days
2552 Date: 02/14/07 Time: 10:49:28 CPU Time: 0 0: 2:59.81 (179.81 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 4.316593E+04 days
2555 Date: 02/14/07 Time: 10:49:32 CPU Time: 0 0: 3: 4.20 (184.20 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 4.553491E+04 days
2558 Date: 02/14/07 Time: 10:49:37 CPU Time: 0 0: 3: 8.82 (188.82 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 4.659621E+04 days
2561 Date: 02/14/07 Time: 10:49:43 CPU Time: 0 0: 3:14.41 (194.41 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 4.893931E+04 days
2564 Date: 02/14/07 Time: 10:49:47 CPU Time: 0 0: 3:18.53 (198.53 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 5.227856E+04 days
2567 Date: 02/14/07 Time: 10:49:52 CPU Time: 0 0: 3:23.87 (203.87 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 5.601875E+04 days
2570 Date: 02/14/07 Time: 10:49:57 CPU Time: 0 0: 3:28.29 (208.29 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 6.489817E+04 days
2573 Date: 02/14/07 Time: 10:50:03 CPU Time: 0 0: 3:35.03 (215.03 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 8.093757E+04 days
2576 Date: 02/14/07 Time: 10:50:09 CPU Time: 0 0: 3:40.94 (220.94 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 9.509876E+04 days
2579 Date: 02/14/07 Time: 10:50:15 CPU Time: 0 0: 3:46.46 (226.46 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 1.828252E+05 days
2582 Date: 02/14/07 Time: 10:50:21 CPU Time: 0 0: 3:53.05 (233.05 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 1.900656E+05 days
2585 Date: 02/14/07 Time: 10:50:29 CPU Time: 0 0: 4: 0.76 (240.76 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 1.905214E+05 days
2588 Date: 02/14/07 Time: 10:50:35 CPU Time: 0 0: 4: 6.64 (246.64 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 1.961906E+05 days
2591 Date: 02/14/07 Time: 10:50:39 CPU Time: 0 0: 4:10.74 (250.74 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 2.299386E+05 days
2594 Date: 02/14/07 Time: 10:50:45 CPU Time: 0 0: 4:17.02 (257.02 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 2.596134E+05 days
2597 Date: 02/14/07 Time: 10:50:51 CPU Time: 0 0: 4:22.73 (262.73 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 3.652468E+05 days
2600 Date: 02/14/07 Time: 10:50:58 CPU Time: 0 0: 4:29.99 (269.99 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 3.653374E+05 days
2603 Date: 02/14/07 Time: 10:51:02 CPU Time: 0 0: 4:33.34 (273.34 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 3.666344E+05 days
2606 Date: 02/14/07 Time: 10:51:06 CPU Time: 0 0: 4:37.51 (277.51 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 3.666427E+05 days
2609 Date: 02/14/07 Time: 10:51:07 CPU Time: 0 0: 4:38.82 (278.82 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 3.673690E+05 days
2612 Date: 02/14/07 Time: 10:51:10 CPU Time: 0 0: 4:41.96 (281.96 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 3.729208E+05 days
2615 Date: 02/14/07 Time: 10:51:16 CPU Time: 0 0: 4:47.32 (287.32 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 4.158995E+05 days
2618 Date: 02/14/07 Time: 10:51:23 CPU Time: 0 0: 4:54.34 (294.34 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 5.845356E+05 days

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2621 Date: 02/14/07 Time: 10:51:30 CPU Time: 0 0: 5: 1.57 ( 301.57 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 6.132993E+05 days
2624 Date: 02/14/07 Time: 10:51:36 CPU Time: 0 0: 5: 7.38 ( 307.38 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 7.292501E+05 days
2627 Date: 02/14/07 Time: 10:51:42 CPU Time: 0 0: 5:13.82 ( 313.82 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 8.282454E+05 days
2630 Date: 02/14/07 Time: 10:51:51 CPU Time: 0 0: 5:22.96 ( 322.96 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 9.166550E+05 days
2633 Date: 02/14/07 Time: 10:51:58 CPU Time: 0 0: 5:29.74 ( 329.74 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 1.068826E+06 days
2636 Date: 02/14/07 Time: 10:52:05 CPU Time: 0 0: 5:36.62 ( 336.62 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 1.100765E+06 days
2639 Date: 02/14/07 Time: 10:52:10 CPU Time: 0 0: 5:41.25 ( 341.25 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 1.227518E+06 days
2642 Date: 02/14/07 Time: 10:52:17 CPU Time: 0 0: 5:48.28 ( 348.28 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 1.298193E+06 days
2645 Date: 02/14/07 Time: 10:52:24 CPU Time: 0 0: 5:55.24 ( 355.24 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 1.579761E+06 days
2648 Date: 02/14/07 Time: 10:52:31 CPU Time: 0 0: 6: 2.03 ( 362.03 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 1.705411E+06 days
2651 Date: 02/14/07 Time: 10:52:38 CPU Time: 0 0: 6: 9.24 ( 369.24 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 1.791793E+06 days
2654 Date: 02/14/07 Time: 10:52:45 CPU Time: 0 0: 6:16.37 ( 376.37 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 1.801222E+06 days
2657 Date: 02/14/07 Time: 10:52:53 CPU Time: 0 0: 6:24.19 ( 384.19 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 1.841044E+06 days
2660 Date: 02/14/07 Time: 10:52:58 CPU Time: 0 0: 6:29.65 ( 389.65 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 1.955743E+06 days
2663 Date: 02/14/07 Time: 10:53:07 CPU Time: 0 0: 6:37.92 ( 397.92 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 1.990221E+06 days
2666 Date: 02/14/07 Time: 10:53:12 CPU Time: 0 0: 6:43.34 ( 403.34 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 2.118411E+06 days
2669 Date: 02/14/07 Time: 10:53:19 CPU Time: 0 0: 6:49.93 ( 409.93 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 2.133494E+06 days
2672 Date: 02/14/07 Time: 10:53:26 CPU Time: 0 0: 6:57.58 ( 417.58 sec) Binary
2674 Time Step No. = 1620 Elapsed Time = 2.148308E+06 days
2675 Date: 02/14/07 Time: 10:53:32 CPU Time: 0 0: 7: 3.79 ( 423.79 sec) Binary
2677 Time Step No. = 1640 Elapsed Time = 2.159609E+06 days
2678 Date: 02/14/07 Time: 10:53:39 CPU Time: 0 0: 7:10.01 ( 430.01 sec) Binary
2680 Time Step No. = 1660 Elapsed Time = 2.165261E+06 days
2681 Date: 02/14/07 Time: 10:53:47 CPU Time: 0 0: 7:18.47 ( 438.47 sec) Binary
2683 Time Step No. = 1680 Elapsed Time = 2.170603E+06 days
2684 Date: 02/14/07 Time: 10:53:54 CPU Time: 0 0: 7:25.55 ( 445.55 sec) Binary
2686 Time Step No. = 1700 Elapsed Time = 2.174318E+06 days
2687 Date: 02/14/07 Time: 10:54:00 CPU Time: 0 0: 7:30.86 ( 450.86 sec) Binary
2689 Time Step No. = 1720 Elapsed Time = 2.176154E+06 days
2690 Date: 02/14/07 Time: 10:54:05 CPU Time: 0 0: 7:36.66 ( 456.66 sec) Binary
2692 Time Step No. = 1740 Elapsed Time = 2.179173E+06 days
2693 Date: 02/14/07 Time: 10:54:10 CPU Time: 0 0: 7:41.27 ( 461.27 sec) Binary
2695 Time Step No. = 1760 Elapsed Time = 2.198642E+06 days
2696 Date: 02/14/07 Time: 10:54:16 CPU Time: 0 0: 7:47.42 ( 467.42 sec) Binary
2698 Time Step No. = 1780 Elapsed Time = 2.238214E+06 days
2699 Date: 02/14/07 Time: 10:54:20 CPU Time: 0 0: 7:51.41 ( 471.41 sec) Binary
2701 Time Step No. = 1800 Elapsed Time = 2.265291E+06 days
2702 Date: 02/14/07 Time: 10:54:27 CPU Time: 0 0: 7:57.93 ( 477.93 sec) Binary
2704 Time Step No. = 1820 Elapsed Time = 2.290810E+06 days
2705 Date: 02/14/07 Time: 10:54:34 CPU Time: 0 0: 8: 4.94 ( 484.94 sec) Binary
2707 Time Step No. = 1840 Elapsed Time = 2.381658E+06 days
2708 Date: 02/14/07 Time: 10:54:38 CPU Time: 0 0: 8: 9.33 ( 489.33 sec) Binary
2710 Time Step No. = 1860 Elapsed Time = 2.781658E+06 days
2711 Date: 02/14/07 Time: 10:54:42 CPU Time: 0 0: 8:12.91 ( 492.91 sec) Binary
2713 Time Step No. = 1880 Elapsed Time = 3.181658E+06 days
2714 Date: 02/14/07 Time: 10:54:45 CPU Time: 0 0: 8:16.38 ( 496.38 sec) Binary
2716 Time Step No. = 1900 Elapsed Time = 3.581658E+06 days
2717 Date: 02/14/07 Time: 10:54:49 CPU Time: 0 0: 8:19.85 ( 499.85 sec) Binary
2720 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
2450 Date: 02/14/07 Time: 09:54:32 CPU Time: 0 0: 0:25.64 ( 25.64 sec) ASCII
2452 Time Step No. = 142 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:54:32 CPU Time: 0 0: 0:25.65 ( 25.65 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 1.064671E-03 days
2456 Date: 02/14/07 Time: 09:54:35 CPU Time: 0 0: 0:29.24 ( 29.24 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 9.402002E-02 days
2459 Date: 02/14/07 Time: 09:54:38 CPU Time: 0 0: 0:32.57 ( 32.57 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 5.514852E+00 days
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2462 Date: 02/14/07 Time: 09:54:42 CPU Time: 0 0: 0:35.90 (35.90 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 2.178362E+02 days
2465 Date: 02/14/07 Time: 09:54:46 CPU Time: 0 0: 0:40.05 (40.05 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 2.221380E+03 days
2468 Date: 02/14/07 Time: 09:54:52 CPU Time: 0 0: 0:46.31 (46.31 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 5.532745E+03 days
2471 Date: 02/14/07 Time: 09:55:00 CPU Time: 0 0: 0:54.27 (54.27 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 5.850050E+03 days
2474 Date: 02/14/07 Time: 09:55:06 CPU Time: 0 0: 0:59.92 (59.92 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 7.163773E+03 days
2477 Date: 02/14/07 Time: 09:55:13 CPU Time: 0 0: 1: 7.39 (67.39 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 7.646916E+03 days
2480 Date: 02/14/07 Time: 09:55:20 CPU Time: 0 0: 1:13.55 (73.55 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 8.451464E+03 days
2483 Date: 02/14/07 Time: 09:55:24 CPU Time: 0 0: 1:18.35 (78.35 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 8.495154E+03 days
2486 Date: 02/14/07 Time: 09:55:30 CPU Time: 0 0: 1:23.72 (83.72 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 8.550791E+03 days
2489 Date: 02/14/07 Time: 09:55:35 CPU Time: 0 0: 1:28.46 (88.46 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 8.902588E+03 days
2492 Date: 02/14/07 Time: 09:55:40 CPU Time: 0 0: 1:34.02 (94.02 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 1.392947E+04 days
2495 Date: 02/14/07 Time: 09:55:46 CPU Time: 0 0: 1:39.96 (99.96 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 1.478125E+04 days
2498 Date: 02/14/07 Time: 09:55:52 CPU Time: 0 0: 1:45.40 (105.40 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 1.657464E+04 days
2501 Date: 02/14/07 Time: 09:55:57 CPU Time: 0 0: 1:51.29 (111.29 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 1.869145E+04 days
2504 Date: 02/14/07 Time: 09:56:05 CPU Time: 0 0: 1:58.40 (118.40 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 1.980385E+04 days
2507 Date: 02/14/07 Time: 09:56:10 CPU Time: 0 0: 2: 3.52 (123.52 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 2.165433E+04 days
2510 Date: 02/14/07 Time: 09:56:17 CPU Time: 0 0: 2:10.59 (130.59 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 2.189594E+04 days
2513 Date: 02/14/07 Time: 09:56:23 CPU Time: 0 0: 2:17.18 (137.18 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 2.219046E+04 days
2516 Date: 02/14/07 Time: 09:56:30 CPU Time: 0 0: 2:23.84 (143.84 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 2.441063E+04 days
2519 Date: 02/14/07 Time: 09:56:35 CPU Time: 0 0: 2:28.71 (148.71 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 2.696736E+04 days
2522 Date: 02/14/07 Time: 09:56:42 CPU Time: 0 0: 2:35.49 (155.49 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 3.055720E+04 days
2525 Date: 02/14/07 Time: 09:56:49 CPU Time: 0 0: 2:42.17 (162.17 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 3.382226E+04 days
2528 Date: 02/14/07 Time: 09:56:54 CPU Time: 0 0: 2:47.54 (167.54 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 3.652433E+04 days
2531 Date: 02/14/07 Time: 09:57:02 CPU Time: 0 0: 2:55.35 (175.35 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 3.652532E+04 days
2534 Date: 02/14/07 Time: 09:57:05 CPU Time: 0 0: 2:58.07 (178.07 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 3.656608E+04 days
2537 Date: 02/14/07 Time: 09:57:08 CPU Time: 0 0: 3: 1.55 (181.55 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 3.665527E+04 days
2540 Date: 02/14/07 Time: 09:57:11 CPU Time: 0 0: 3: 4.02 (184.02 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 3.669519E+04 days
2543 Date: 02/14/07 Time: 09:57:13 CPU Time: 0 0: 3: 6.38 (186.38 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 3.766504E+04 days
2546 Date: 02/14/07 Time: 09:57:18 CPU Time: 0 0: 3:10.97 (190.97 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.934114E+04 days
2549 Date: 02/14/07 Time: 09:57:27 CPU Time: 0 0: 3:20.67 (200.67 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.965251E+04 days
2552 Date: 02/14/07 Time: 09:57:33 CPU Time: 0 0: 3:26.52 (206.52 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 4.316593E+04 days
2555 Date: 02/14/07 Time: 09:57:38 CPU Time: 0 0: 3:31.59 (211.59 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 4.553491E+04 days
2558 Date: 02/14/07 Time: 09:57:44 CPU Time: 0 0: 3:36.92 (216.92 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 4.659621E+04 days
2561 Date: 02/14/07 Time: 09:57:50 CPU Time: 0 0: 3:43.38 (223.38 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 4.893931E+04 days
2564 Date: 02/14/07 Time: 09:57:55 CPU Time: 0 0: 3:48.11 (228.11 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 5.227856E+04 days
2567 Date: 02/14/07 Time: 09:58:02 CPU Time: 0 0: 3:54.29 (234.29 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 5.601875E+04 days
2570 Date: 02/14/07 Time: 09:58:07 CPU Time: 0 0: 3:59.43 (239.43 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 6.489817E+04 days
2573 Date: 02/14/07 Time: 09:58:15 CPU Time: 0 0: 4: 7.20 (247.20 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 8.093757E+04 days

2576 Date: 02/14/07 Time: 09:58:21 CPU Time: 0 0: 4:14.05 (254.05 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 9.509876E+04 days
2579 Date: 02/14/07 Time: 09:58:28 CPU Time: 0 0: 4:20.44 (260.44 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 1.828252E+05 days
2582 Date: 02/14/07 Time: 09:58:36 CPU Time: 0 0: 4:28.01 (268.01 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 1.900656E+05 days
2585 Date: 02/14/07 Time: 09:58:45 CPU Time: 0 0: 4:36.92 (276.92 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 1.905214E+05 days
2588 Date: 02/14/07 Time: 09:58:51 CPU Time: 0 0: 4:43.71 (283.71 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 1.961906E+05 days
2591 Date: 02/14/07 Time: 09:58:56 CPU Time: 0 0: 4:48.46 (288.46 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 2.299386E+05 days
2594 Date: 02/14/07 Time: 09:59:04 CPU Time: 0 0: 4:55.72 (295.72 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 2.596134E+05 days
2597 Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 5: 2.33 (302.33 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 3.652468E+05 days
2600 Date: 02/14/07 Time: 09:59:19 CPU Time: 0 0: 5:10.69 (310.69 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 3.653374E+05 days
2603 Date: 02/14/07 Time: 09:59:22 CPU Time: 0 0: 5:14.53 (314.53 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 3.666344E+05 days
2606 Date: 02/14/07 Time: 09:59:28 CPU Time: 0 0: 5:19.36 (319.36 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 3.666427E+05 days
2609 Date: 02/14/07 Time: 09:59:29 CPU Time: 0 0: 5:20.89 (320.89 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 3.673690E+05 days
2612 Date: 02/14/07 Time: 09:59:33 CPU Time: 0 0: 5:24.49 (324.49 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 3.729208E+05 days
2615 Date: 02/14/07 Time: 09:59:39 CPU Time: 0 0: 5:30.69 (330.69 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 4.158995E+05 days
2618 Date: 02/14/07 Time: 09:59:47 CPU Time: 0 0: 5:38.82 (338.82 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 5.845356E+05 days
2621 Date: 02/14/07 Time: 09:59:56 CPU Time: 0 0: 5:47.21 (347.21 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 6.132993E+05 days
2624 Date: 02/14/07 Time: 10:00:02 CPU Time: 0 0: 5:53.95 (353.95 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 7.292501E+05 days
2627 Date: 02/14/07 Time: 10:00:10 CPU Time: 0 0: 6: 1.41 (361.41 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 8.282454E+05 days
2630 Date: 02/14/07 Time: 10:00:20 CPU Time: 0 0: 6:11.96 (371.96 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 9.166550E+05 days
2633 Date: 02/14/07 Time: 10:00:28 CPU Time: 0 0: 6:19.81 (379.81 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 1.068826E+06 days
2636 Date: 02/14/07 Time: 10:00:36 CPU Time: 0 0: 6:27.79 (387.79 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 1.100765E+06 days
2639 Date: 02/14/07 Time: 10:00:42 CPU Time: 0 0: 6:33.15 (393.15 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 1.227518E+06 days
2642 Date: 02/14/07 Time: 10:00:50 CPU Time: 0 0: 6:41.25 (401.25 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 1.298193E+06 days
2645 Date: 02/14/07 Time: 10:00:58 CPU Time: 0 0: 6:49.28 (409.28 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 1.579761E+06 days
2648 Date: 02/14/07 Time: 10:01:06 CPU Time: 0 0: 6:57.14 (417.14 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 1.705411E+06 days
2651 Date: 02/14/07 Time: 10:01:14 CPU Time: 0 0: 7: 5.45 (425.45 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 1.791793E+06 days
2654 Date: 02/14/07 Time: 10:01:22 CPU Time: 0 0: 7:13.70 (433.70 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 1.801222E+06 days
2657 Date: 02/14/07 Time: 10:01:31 CPU Time: 0 0: 7:22.72 (442.72 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 1.841044E+06 days
2660 Date: 02/14/07 Time: 10:01:38 CPU Time: 0 0: 7:29.05 (449.05 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 1.955743E+06 days
2663 Date: 02/14/07 Time: 10:01:47 CPU Time: 0 0: 7:38.61 (458.61 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 1.990221E+06 days
2666 Date: 02/14/07 Time: 10:01:54 CPU Time: 0 0: 7:44.88 (464.88 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 2.118411E+06 days
2669 Date: 02/14/07 Time: 10:02:01 CPU Time: 0 0: 7:52.53 (472.53 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 2.133494E+06 days
2672 Date: 02/14/07 Time: 10:02:10 CPU Time: 0 0: 8: 1.38 (481.38 sec) Binary
2674 Time Step No. = 1620 Elapsed Time = 2.148308E+06 days
2675 Date: 02/14/07 Time: 10:02:17 CPU Time: 0 0: 8: 8.59 (488.59 sec) Binary
2677 Time Step No. = 1640 Elapsed Time = 2.159609E+06 days
2678 Date: 02/14/07 Time: 10:02:25 CPU Time: 0 0: 8:15.77 (495.77 sec) Binary
2680 Time Step No. = 1660 Elapsed Time = 2.165261E+06 days
2681 Date: 02/14/07 Time: 10:02:34 CPU Time: 0 0: 8:25.54 (505.54 sec) Binary
2683 Time Step No. = 1680 Elapsed Time = 2.170603E+06 days
2684 Date: 02/14/07 Time: 10:02:43 CPU Time: 0 0: 8:33.74 (513.74 sec) Binary
2686 Time Step No. = 1700 Elapsed Time = 2.174318E+06 days
2687 Date: 02/14/07 Time: 10:02:49 CPU Time: 0 0: 8:39.90 (519.90 sec) Binary
2689 Time Step No. = 1720 Elapsed Time = 2.176154E+06 days

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2690 Date: 02/14/07 Time: 10:02:56 CPU Time: 0 0: 8:46.64 ( 526.64 sec) Binary
2692 Time Step No. = 1740 Elapsed Time = 2.179173E+06 days
2693 Date: 02/14/07 Time: 10:03:01 CPU Time: 0 0: 8:52.00 ( 532.00 sec) Binary
2695 Time Step No. = 1760 Elapsed Time = 2.198642E+06 days
2696 Date: 02/14/07 Time: 10:03:09 CPU Time: 0 0: 8:59.23 ( 539.23 sec) Binary
2698 Time Step No. = 1780 Elapsed Time = 2.238214E+06 days
2699 Date: 02/14/07 Time: 10:03:13 CPU Time: 0 0: 9: 4.11 ( 544.11 sec) Binary
2701 Time Step No. = 1800 Elapsed Time = 2.265291E+06 days
2702 Date: 02/14/07 Time: 10:03:21 CPU Time: 0 0: 9:11.98 ( 551.98 sec) Binary
2704 Time Step No. = 1820 Elapsed Time = 2.290810E+06 days
2705 Date: 02/14/07 Time: 10:03:30 CPU Time: 0 0: 9:20.52 ( 560.52 sec) Binary
2707 Time Step No. = 1840 Elapsed Time = 2.381658E+06 days
2708 Date: 02/14/07 Time: 10:03:35 CPU Time: 0 0: 9:25.86 ( 565.86 sec) Binary
2710 Time Step No. = 1860 Elapsed Time = 2.781658E+06 days
2711 Date: 02/14/07 Time: 10:03:40 CPU Time: 0 0: 9:30.25 ( 570.25 sec) Binary
2713 Time Step No. = 1880 Elapsed Time = 3.181658E+06 days
2714 Date: 02/14/07 Time: 10:03:44 CPU Time: 0 0: 9:34.48 ( 574.48 sec) Binary
2716 Time Step No. = 1900 Elapsed Time = 3.581658E+06 days
2717 Date: 02/14/07 Time: 10:03:48 CPU Time: 0 0: 9:38.73 ( 578.73 sec) Binary
2720 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
2736 CPU Time (this time step) = 0.12 sec = 0.00003 hr
2737 CPU Time (total for run) = 500.49 sec = 0.13902 hr
2738 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
2736 CPU Time (this time step) = 0.15 sec = 0.00004 hr
2737 CPU Time (total for run) = 579.52 sec = 0.16098 hr
2738 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
3414 Date: 02/14/07 Time: 10:54:49 CPU Time: 0 0: 8:20.50 ( 500.50 sec) ASCII
3416 Time Step No. = 1904 Elapsed Time = 3.652431E+06 days
3417 Date: 02/14/07 Time: 10:54:49 CPU Time: 0 0: 8:20.51 ( 500.51 sec) Binary
3422 *****
3423 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3424 * Completed: 02/14/07 at 10:54:49 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
3425 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
3414 Date: 02/14/07 Time: 10:03:49 CPU Time: 0 0: 9:39.53 ( 579.53 sec) ASCII
3416 Time Step No. = 1904 Elapsed Time = 3.652431E+06 days
3417 Date: 02/14/07 Time: 10:03:49 CPU Time: 0 0: 9:39.54 ( 579.54 sec) Binary
3422 *****
3423 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3424 * Completed: 02/14/07 at 10:03:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3425 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 196

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
```

BF2_QB0600_ES45_TEST7_V012_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
3 ** Begun on: 02/14/07 at 10:47:53 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
3 ** Begun on: 02/14/07 at 09:56:26 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_TEST7_V012.INP;2
```

```
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
1772 CPU Time (this time step) = 0.12 sec = 0.00003 hr
1773 CPU Time (total for run) = 19.88 sec = 0.00552 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 23.20 sec = 0.00644 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
2450 Date: 02/14/07 Time: 10:48:12 CPU Time: 0 0: 0:19.89 { 19.89 sec} ASCII
2452 Time Step No. = 131 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:48:13 CPU Time: 0 0: 0:19.89 { 19.89 sec} Binary
2455 Time Step No. = 140 Elapsed Time = 1.728808E-01 days
2456 Date: 02/14/07 Time: 10:48:14 CPU Time: 0 0: 0:21.52 { 21.52 sec} Binary
2458 Time Step No. = 160 Elapsed Time = 1.502175E+01 days
2459 Date: 02/14/07 Time: 10:48:17 CPU Time: 0 0: 0:24.82 { 24.82 sec} Binary
2461 Time Step No. = 180 Elapsed Time = 7.625276E+02 days
2462 Date: 02/14/07 Time: 10:48:21 CPU Time: 0 0: 0:28.77 { 28.77 sec} Binary
2464 Time Step No. = 200 Elapsed Time = 6.318104E+03 days
2465 Date: 02/14/07 Time: 10:48:27 CPU Time: 0 0: 0:34.31 { 34.31 sec} Binary
2467 Time Step No. = 220 Elapsed Time = 3.653252E+04 days
```

2468 Date: 02/14/07 Time: 10:48:34 CPU Time: 0 0: 0:41.80 (41.80 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.665724E+04 days
2471 Date: 02/14/07 Time: 10:48:38 CPU Time: 0 0: 0:44.90 (44.90 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.667033E+04 days
2474 Date: 02/14/07 Time: 10:48:39 CPU Time: 0 0: 0:46.62 (46.62 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.708680E+04 days
2477 Date: 02/14/07 Time: 10:48:43 CPU Time: 0 0: 0:50.28 (50.28 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 5.092008E+04 days
2480 Date: 02/14/07 Time: 10:48:48 CPU Time: 0 0: 0:54.86 (54.86 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 2.039729E+05 days
2483 Date: 02/14/07 Time: 10:48:55 CPU Time: 0 0: 1: 1.91 (61.91 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 2.274452E+05 days
2486 Date: 02/14/07 Time: 10:49:03 CPU Time: 0 0: 1: 9.92 (69.92 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.652467E+05 days
2489 Date: 02/14/07 Time: 10:49:09 CPU Time: 0 0: 1:16.56 (76.56 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 3.652814E+05 days
2492 Date: 02/14/07 Time: 10:49:15 CPU Time: 0 0: 1:21.87 (81.87 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.655778E+05 days
2495 Date: 02/14/07 Time: 10:49:20 CPU Time: 0 0: 1:27.17 (87.17 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 3.666037E+05 days
2498 Date: 02/14/07 Time: 10:49:26 CPU Time: 0 0: 1:33.41 (93.41 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.666104E+05 days
2501 Date: 02/14/07 Time: 10:49:28 CPU Time: 0 0: 1:35.07 (95.07 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 3.671914E+05 days
2504 Date: 02/14/07 Time: 10:49:31 CPU Time: 0 0: 1:38.50 (98.50 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 3.687879E+05 days
2507 Date: 02/14/07 Time: 10:49:37 CPU Time: 0 0: 1:44.43 (104.43 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 3.778499E+05 days
2510 Date: 02/14/07 Time: 10:49:45 CPU Time: 0 0: 1:52.44 (112.44 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 3.789049E+05 days
2513 Date: 02/14/07 Time: 10:49:52 CPU Time: 0 0: 1:58.81 (118.81 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 3.809367E+05 days
2516 Date: 02/14/07 Time: 10:49:58 CPU Time: 0 0: 2: 4.95 (124.95 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 3.809693E+05 days
2519 Date: 02/14/07 Time: 10:50:00 CPU Time: 0 0: 2: 7.12 (127.12 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 3.836875E+05 days
2522 Date: 02/14/07 Time: 10:50:05 CPU Time: 0 0: 2:11.59 (131.59 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 3.871760E+05 days
2525 Date: 02/14/07 Time: 10:50:11 CPU Time: 0 0: 2:17.73 (137.73 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 3.879593E+05 days
2528 Date: 02/14/07 Time: 10:50:14 CPU Time: 0 0: 2:21.22 (141.22 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.964171E+05 days
2531 Date: 02/14/07 Time: 10:50:19 CPU Time: 0 0: 2:26.09 (146.09 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.984106E+05 days
2534 Date: 02/14/07 Time: 10:50:23 CPU Time: 0 0: 2:30.20 (150.20 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 4.040124E+05 days
2537 Date: 02/14/07 Time: 10:50:31 CPU Time: 0 0: 2:37.81 (157.81 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 4.084891E+05 days
2540 Date: 02/14/07 Time: 10:50:35 CPU Time: 0 0: 2:42.03 (162.03 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 4.148775E+05 days
2543 Date: 02/14/07 Time: 10:50:42 CPU Time: 0 0: 2:48.89 (168.89 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 4.152695E+05 days
2546 Date: 02/14/07 Time: 10:50:45 CPU Time: 0 0: 2:52.42 (172.42 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 4.155957E+05 days
2549 Date: 02/14/07 Time: 10:50:49 CPU Time: 0 0: 2:55.83 (175.83 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 4.159067E+05 days
2552 Date: 02/14/07 Time: 10:50:53 CPU Time: 0 0: 3: 0.03 (180.03 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 4.230351E+05 days
2555 Date: 02/14/07 Time: 10:50:59 CPU Time: 0 0: 3: 6.16 (186.16 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 4.231681E+05 days
2558 Date: 02/14/07 Time: 10:51:03 CPU Time: 0 0: 3: 9.44 (189.44 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 4.246312E+05 days
2561 Date: 02/14/07 Time: 10:51:06 CPU Time: 0 0: 3:12.69 (192.69 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 4.284259E+05 days
2564 Date: 02/14/07 Time: 10:51:11 CPU Time: 0 0: 3:17.66 (197.66 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 4.288881E+05 days
2567 Date: 02/14/07 Time: 10:51:16 CPU Time: 0 0: 3:22.92 (202.92 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 4.293308E+05 days
2570 Date: 02/14/07 Time: 10:51:20 CPU Time: 0 0: 3:26.79 (206.79 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 4.432583E+05 days
2573 Date: 02/14/07 Time: 10:51:26 CPU Time: 0 0: 3:32.45 (212.45 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 4.443255E+05 days
2576 Date: 02/14/07 Time: 10:51:31 CPU Time: 0 0: 3:37.71 (217.71 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 4.483126E+05 days
2579 Date: 02/14/07 Time: 10:51:36 CPU Time: 0 0: 3:43.18 (223.18 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 4.534391E+05 days

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2582 Date: 02/14/07 Time: 10:51:40 CPU Time: 0 0: 3:47.22 ( 227.22 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 4.699167E+05 days
2585 Date: 02/14/07 Time: 10:51:47 CPU Time: 0 0: 3:53.60 ( 233.60 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 4.858432E+05 days
2588 Date: 02/14/07 Time: 10:51:53 CPU Time: 0 0: 4: 0.01 ( 240.01 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 4.937961E+05 days
2591 Date: 02/14/07 Time: 10:51:58 CPU Time: 0 0: 4: 4.53 ( 244.53 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 5.466139E+05 days
2594 Date: 02/14/07 Time: 10:52:05 CPU Time: 0 0: 4:11.97 ( 251.97 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 5.780318E+05 days
2597 Date: 02/14/07 Time: 10:52:13 CPU Time: 0 0: 4:19.97 ( 259.97 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 6.270315E+05 days
2600 Date: 02/14/07 Time: 10:52:21 CPU Time: 0 0: 4:27.68 ( 267.68 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 7.054870E+05 days
2603 Date: 02/14/07 Time: 10:52:27 CPU Time: 0 0: 4:33.85 ( 273.85 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 7.169027E+05 days
2606 Date: 02/14/07 Time: 10:52:34 CPU Time: 0 0: 4:39.96 ( 279.96 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 7.402913E+05 days
2609 Date: 02/14/07 Time: 10:52:41 CPU Time: 0 0: 4:47.11 ( 287.11 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 7.847129E+05 days
2612 Date: 02/14/07 Time: 10:52:47 CPU Time: 0 0: 4:53.34 ( 293.34 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 8.332294E+05 days
2615 Date: 02/14/07 Time: 10:52:56 CPU Time: 0 0: 5: 2.51 ( 302.51 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 8.509701E+05 days
2618 Date: 02/14/07 Time: 10:53:02 CPU Time: 0 0: 5: 8.05 ( 308.05 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 9.067910E+05 days
2621 Date: 02/14/07 Time: 10:53:11 CPU Time: 0 0: 5:17.33 ( 317.33 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 9.383181E+05 days
2624 Date: 02/14/07 Time: 10:53:18 CPU Time: 0 0: 5:24.07 ( 324.07 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 9.948692E+05 days
2627 Date: 02/14/07 Time: 10:53:25 CPU Time: 0 0: 5:31.22 ( 331.22 sec) Binary
2629 Time Step No. = 1300 Elapsed Time = 1.246977E+06 days
2630 Date: 02/14/07 Time: 10:53:31 CPU Time: 0 0: 5:37.44 ( 337.44 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 1.378669E+06 days
2633 Date: 02/14/07 Time: 10:53:40 CPU Time: 0 0: 5:46.26 ( 346.26 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 1.477485E+06 days
2636 Date: 02/14/07 Time: 10:53:46 CPU Time: 0 0: 5:51.75 ( 351.75 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 1.512368E+06 days
2639 Date: 02/14/07 Time: 10:53:54 CPU Time: 0 0: 6: 0.12 ( 360.12 sec) Binary
2641 Time Step No. = 1380 Elapsed Time = 1.528588E+06 days
2642 Date: 02/14/07 Time: 10:54:01 CPU Time: 0 0: 6: 7.57 ( 367.57 sec) Binary
2644 Time Step No. = 1400 Elapsed Time = 1.544193E+06 days
2645 Date: 02/14/07 Time: 10:54:08 CPU Time: 0 0: 6:13.88 ( 373.88 sec) Binary
2647 Time Step No. = 1420 Elapsed Time = 1.579430E+06 days
2648 Date: 02/14/07 Time: 10:54:15 CPU Time: 0 0: 6:20.98 ( 380.98 sec) Binary
2650 Time Step No. = 1440 Elapsed Time = 1.605319E+06 days
2651 Date: 02/14/07 Time: 10:54:21 CPU Time: 0 0: 6:26.94 ( 386.94 sec) Binary
2653 Time Step No. = 1460 Elapsed Time = 1.707900E+06 days
2654 Date: 02/14/07 Time: 10:54:28 CPU Time: 0 0: 6:34.31 ( 394.31 sec) Binary
2656 Time Step No. = 1480 Elapsed Time = 1.729509E+06 days
2657 Date: 02/14/07 Time: 10:54:34 CPU Time: 0 0: 6:40.50 ( 400.50 sec) Binary
2659 Time Step No. = 1500 Elapsed Time = 1.810878E+06 days
2660 Date: 02/14/07 Time: 10:54:40 CPU Time: 0 0: 6:46.43 ( 406.43 sec) Binary
2662 Time Step No. = 1520 Elapsed Time = 1.877326E+06 days
2663 Date: 02/14/07 Time: 10:54:48 CPU Time: 0 0: 6:53.74 ( 413.74 sec) Binary
2665 Time Step No. = 1540 Elapsed Time = 1.994765E+06 days
2666 Date: 02/14/07 Time: 10:54:54 CPU Time: 0 0: 7: 0.38 ( 420.38 sec) Binary
2668 Time Step No. = 1560 Elapsed Time = 2.126096E+06 days
2669 Date: 02/14/07 Time: 10:55:02 CPU Time: 0 0: 7: 8.39 ( 428.39 sec) Binary
2671 Time Step No. = 1580 Elapsed Time = 2.173060E+06 days
2672 Date: 02/14/07 Time: 10:55:06 CPU Time: 0 0: 7:11.65 ( 431.65 sec) Binary
2674 Time Step No. = 1600 Elapsed Time = 2.558345E+06 days
2675 Date: 02/14/07 Time: 10:55:10 CPU Time: 0 0: 7:15.25 ( 435.25 sec) Binary
2677 Time Step No. = 1620 Elapsed Time = 2.958345E+06 days
2678 Date: 02/14/07 Time: 10:55:13 CPU Time: 0 0: 7:18.73 ( 438.73 sec) Binary
2680 Time Step No. = 1640 Elapsed Time = 3.358345E+06 days
2681 Date: 02/14/07 Time: 10:55:16 CPU Time: 0 0: 7:22.03 ( 442.03 sec) Binary
2684 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
File PAA: [ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
2450 Date: 02/14/07 Time: 09:56:50 CPU Time: 0 0: 0:23.22 ( 23.22 sec) ASCII
2452 Time Step No. = 131 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 09:56:50 CPU Time: 0 0: 0:23.22 ( 23.22 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 1.728808E-01 days
2456 Date: 02/14/07 Time: 09:56:52 CPU Time: 0 0: 0:25.17 ( 25.17 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 1.502175E+01 days
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2459 Date: 02/14/07 Time: 09:56:55 CPU Time: 0 0: 0:29.11 (29.11 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 7.625276E+02 days
2462 Date: 02/14/07 Time: 09:57:00 CPU Time: 0 0: 0:33.77 (33.77 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 6.318104E+03 days
2465 Date: 02/14/07 Time: 09:57:07 CPU Time: 0 0: 0:40.16 (40.16 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.653252E+04 days
2468 Date: 02/14/07 Time: 09:57:15 CPU Time: 0 0: 0:48.80 (48.80 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.665724E+04 days
2471 Date: 02/14/07 Time: 09:57:19 CPU Time: 0 0: 0:52.38 (52.38 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.667033E+04 days
2474 Date: 02/14/07 Time: 09:57:21 CPU Time: 0 0: 0:54.43 (54.43 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.708680E+04 days
2477 Date: 02/14/07 Time: 09:57:25 CPU Time: 0 0: 0:58.88 (58.88 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 5.092008E+04 days
2480 Date: 02/14/07 Time: 09:57:31 CPU Time: 0 0: 1: 4.46 (64.46 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 2.039729E+05 days
2483 Date: 02/14/07 Time: 09:57:40 CPU Time: 0 0: 1:13.01 (73.01 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 2.274452E+05 days
2486 Date: 02/14/07 Time: 09:57:49 CPU Time: 0 0: 1:22.77 (82.77 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.652467E+05 days
2489 Date: 02/14/07 Time: 09:57:58 CPU Time: 0 0: 1:30.87 (90.87 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 3.652814E+05 days
2492 Date: 02/14/07 Time: 09:58:04 CPU Time: 0 0: 1:37.34 (97.34 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.655778E+05 days
2495 Date: 02/14/07 Time: 09:58:11 CPU Time: 0 0: 1:43.81 (103.81 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 3.666037E+05 days
2498 Date: 02/14/07 Time: 09:58:18 CPU Time: 0 0: 1:51.39 (111.39 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.666104E+05 days
2501 Date: 02/14/07 Time: 09:58:20 CPU Time: 0 0: 1:53.43 (113.43 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 3.671914E+05 days
2504 Date: 02/14/07 Time: 09:58:25 CPU Time: 0 0: 1:57.61 (117.61 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 3.687879E+05 days
2507 Date: 02/14/07 Time: 09:58:32 CPU Time: 0 0: 2: 4.83 (124.83 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 3.778499E+05 days
2510 Date: 02/14/07 Time: 09:58:42 CPU Time: 0 0: 2:14.54 (134.54 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 3.789049E+05 days
2513 Date: 02/14/07 Time: 09:58:49 CPU Time: 0 0: 2:21.59 (141.59 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 3.809367E+05 days
2516 Date: 02/14/07 Time: 09:58:55 CPU Time: 0 0: 2:28.36 (148.36 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 3.809693E+05 days
2519 Date: 02/14/07 Time: 09:58:58 CPU Time: 0 0: 2:30.77 (150.77 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 3.836875E+05 days
2522 Date: 02/14/07 Time: 09:59:03 CPU Time: 0 0: 2:35.71 (155.71 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 3.871760E+05 days
2525 Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 2:42.48 (162.48 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 3.879593E+05 days
2528 Date: 02/14/07 Time: 09:59:13 CPU Time: 0 0: 2:46.34 (166.34 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.964171E+05 days
2531 Date: 02/14/07 Time: 09:59:19 CPU Time: 0 0: 2:51.71 (171.71 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.984106E+05 days
2534 Date: 02/14/07 Time: 09:59:23 CPU Time: 0 0: 2:56.26 (176.26 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 4.040124E+05 days
2537 Date: 02/14/07 Time: 09:59:32 CPU Time: 0 0: 3: 4.67 (184.67 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 4.084891E+05 days
2540 Date: 02/14/07 Time: 09:59:37 CPU Time: 0 0: 3: 9.34 (189.34 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 4.148775E+05 days
2543 Date: 02/14/07 Time: 09:59:45 CPU Time: 0 0: 3:17.23 (197.23 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 4.152695E+05 days
2546 Date: 02/14/07 Time: 09:59:49 CPU Time: 0 0: 3:21.47 (201.47 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 4.155957E+05 days
2549 Date: 02/14/07 Time: 09:59:53 CPU Time: 0 0: 3:25.54 (205.54 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 4.159067E+05 days
2552 Date: 02/14/07 Time: 09:59:58 CPU Time: 0 0: 3:30.57 (210.57 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 4.230351E+05 days
2555 Date: 02/14/07 Time: 10:00:06 CPU Time: 0 0: 3:37.88 (217.88 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 4.231681E+05 days
2558 Date: 02/14/07 Time: 10:00:09 CPU Time: 0 0: 3:41.77 (221.77 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 4.246312E+05 days
2561 Date: 02/14/07 Time: 10:00:13 CPU Time: 0 0: 3:45.65 (225.65 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 4.284259E+05 days
2564 Date: 02/14/07 Time: 10:00:19 CPU Time: 0 0: 3:51.58 (231.58 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 4.288881E+05 days
2567 Date: 02/14/07 Time: 10:00:26 CPU Time: 0 0: 3:57.85 (237.85 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 4.293308E+05 days
2570 Date: 02/14/07 Time: 10:00:30 CPU Time: 0 0: 4: 2.54 (242.54 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 4.432583E+05 days

2573 Date: 02/14/07 Time: 10:00:37 CPU Time: 0 0: 4: 9.44 (249.44 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 4.443255E+05 days
2576 Date: 02/14/07 Time: 10:00:44 CPU Time: 0 0: 4:15.87 (255.87 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 4.483126E+05 days
2579 Date: 02/14/07 Time: 10:00:50 CPU Time: 0 0: 4:22.56 (262.56 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 4.534391E+05 days
2582 Date: 02/14/07 Time: 10:00:55 CPU Time: 0 0: 4:27.48 (267.48 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 4.699167E+05 days
2585 Date: 02/14/07 Time: 10:01:03 CPU Time: 0 0: 4:35.26 (275.26 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 4.858432E+05 days
2588 Date: 02/14/07 Time: 10:01:11 CPU Time: 0 0: 4:43.04 (283.04 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 4.937961E+05 days
2591 Date: 02/14/07 Time: 10:01:17 CPU Time: 0 0: 4:48.52 (288.52 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 5.466139E+05 days
2594 Date: 02/14/07 Time: 10:01:26 CPU Time: 0 0: 4:57.51 (297.51 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 5.780318E+05 days
2597 Date: 02/14/07 Time: 10:01:35 CPU Time: 0 0: 5: 7.24 (307.24 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 6.270315E+05 days
2600 Date: 02/14/07 Time: 10:01:45 CPU Time: 0 0: 5:16.63 (316.63 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 7.054870E+05 days
2603 Date: 02/14/07 Time: 10:01:52 CPU Time: 0 0: 5:24.14 (324.14 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 7.169027E+05 days
2606 Date: 02/14/07 Time: 10:02:00 CPU Time: 0 0: 5:31.57 (331.57 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 7.402913E+05 days
2609 Date: 02/14/07 Time: 10:02:08 CPU Time: 0 0: 5:40.26 (340.26 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 7.847129E+05 days
2612 Date: 02/14/07 Time: 10:02:16 CPU Time: 0 0: 5:47.86 (347.86 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 8.332294E+05 days
2615 Date: 02/14/07 Time: 10:02:27 CPU Time: 0 0: 5:59.01 (359.01 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 8.509701E+05 days
2618 Date: 02/14/07 Time: 10:02:34 CPU Time: 0 0: 6: 5.77 (365.77 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 9.067910E+05 days
2621 Date: 02/14/07 Time: 10:02:45 CPU Time: 0 0: 6:17.02 (377.02 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 9.383181E+05 days
2624 Date: 02/14/07 Time: 10:02:54 CPU Time: 0 0: 6:25.21 (385.21 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 9.948692E+05 days
2627 Date: 02/14/07 Time: 10:03:02 CPU Time: 0 0: 6:33.92 (393.92 sec) Binary
2629 Time Step No. = 1300 Elapsed Time = 1.246977E+06 days
2630 Date: 02/14/07 Time: 10:03:10 CPU Time: 0 0: 6:41.33 (401.33 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 1.378669E+06 days
2633 Date: 02/14/07 Time: 10:03:19 CPU Time: 0 0: 6:51.09 (411.09 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 1.477485E+06 days
2636 Date: 02/14/07 Time: 10:03:26 CPU Time: 0 0: 6:57.17 (417.17 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 1.512368E+06 days
2639 Date: 02/14/07 Time: 10:03:35 CPU Time: 0 0: 7: 6.42 (426.42 sec) Binary
2641 Time Step No. = 1380 Elapsed Time = 1.528588E+06 days
2642 Date: 02/14/07 Time: 10:03:43 CPU Time: 0 0: 7:14.66 (434.66 sec) Binary
2644 Time Step No. = 1400 Elapsed Time = 1.544193E+06 days
2645 Date: 02/14/07 Time: 10:03:50 CPU Time: 0 0: 7:21.63 (441.63 sec) Binary
2647 Time Step No. = 1420 Elapsed Time = 1.579430E+06 days
2648 Date: 02/14/07 Time: 10:03:58 CPU Time: 0 0: 7:29.70 (449.70 sec) Binary
2650 Time Step No. = 1440 Elapsed Time = 1.605319E+06 days
2651 Date: 02/14/07 Time: 10:04:05 CPU Time: 0 0: 7:36.78 (456.78 sec) Binary
2653 Time Step No. = 1460 Elapsed Time = 1.707900E+06 days
2654 Date: 02/14/07 Time: 10:04:14 CPU Time: 0 0: 7:45.54 (465.54 sec) Binary
2656 Time Step No. = 1480 Elapsed Time = 1.729509E+06 days
2657 Date: 02/14/07 Time: 10:04:22 CPU Time: 0 0: 7:52.89 (472.89 sec) Binary
2659 Time Step No. = 1500 Elapsed Time = 1.810878E+06 days
2660 Date: 02/14/07 Time: 10:04:29 CPU Time: 0 0: 7:59.97 (479.97 sec) Binary
2662 Time Step No. = 1520 Elapsed Time = 1.877326E+06 days
2663 Date: 02/14/07 Time: 10:04:37 CPU Time: 0 0: 8: 8.67 (488.67 sec) Binary
2665 Time Step No. = 1540 Elapsed Time = 1.994765E+06 days
2666 Date: 02/14/07 Time: 10:04:45 CPU Time: 0 0: 8:16.55 (496.55 sec) Binary
2668 Time Step No. = 1560 Elapsed Time = 2.126096E+06 days
2669 Date: 02/14/07 Time: 10:04:55 CPU Time: 0 0: 8:25.99 (505.99 sec) Binary
2671 Time Step No. = 1580 Elapsed Time = 2.173060E+06 days
2672 Date: 02/14/07 Time: 10:04:59 CPU Time: 0 0: 8:29.90 (509.90 sec) Binary
2674 Time Step No. = 1600 Elapsed Time = 2.558345E+06 days
2675 Date: 02/14/07 Time: 10:05:03 CPU Time: 0 0: 8:34.31 (514.31 sec) Binary
2677 Time Step No. = 1620 Elapsed Time = 2.958345E+06 days
2678 Date: 02/14/07 Time: 10:05:07 CPU Time: 0 0: 8:38.42 (518.42 sec) Binary
2680 Time Step No. = 1640 Elapsed Time = 3.358345E+06 days
2681 Date: 02/14/07 Time: 10:05:11 CPU Time: 0 0: 8:42.20 (522.20 sec) Binary
2684 Restart information has been written to I/O unit 2 in DISKW, file name:


```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
2700 CPU Time (this time step) = 0.17 sec = 0.00005 hr
2701 CPU Time (total for run) = 444.64 sec = 0.12351 hr
2702 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
2700 CPU Time (this time step) = 0.20 sec = 0.00006 hr
2701 CPU Time (total for run) = 525.21 sec = 0.14589 hr
2702 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
3378 Date: 02/14/07 Time: 10:55:19 CPU Time: 0 0: 7:24.66 ( 444.66 sec) ASCII
3380 Time Step No. = 1655 Elapsed Time = 3.652431E+06 days
3381 Date: 02/14/07 Time: 10:55:19 CPU Time: 0 0: 7:24.66 ( 444.66 sec) Binary
3386 *****
3387 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3388 * Completed: 02/14/07 at 10:55:19 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
3389 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
3378 Date: 02/14/07 Time: 10:05:14 CPU Time: 0 0: 8:45.24 ( 525.24 sec) ASCII
3380 Time Step No. = 1655 Elapsed Time = 3.652431E+06 days
3381 Date: 02/14/07 Time: 10:05:14 CPU Time: 0 0: 8:45.24 ( 525.24 sec) Binary
3386 *****
3387 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3388 * Completed: 02/14/07 at 10:05:14 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3389 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 172

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
```

BF2_QB0600_ES45_TEST7_V013_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
3 ** Begun on: 02/14/07 at 10:51:00 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
3 ** Begun on: 02/14/07 at 09:59:42 Run on: TBE - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_TEST7_V013.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
```

```
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
1772 CPU Time (this time step) = 0.11 sec = 0.00003 hr
1773 CPU Time (total for run) = 19.45 sec = 0.00540 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 21.39 sec = 0.00594 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
2450 Date: 02/14/07 Time: 10:51:20 CPU Time: 0 0: 0:19.46 ( 19.46 sec) ASCII
2452 Time Step No. = 140 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:51:20 CPU Time: 0 0: 0:19.46 ( 19.46 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 3.349069E-03 days
2456 Date: 02/14/07 Time: 10:51:23 CPU Time: 0 0: 0:22.72 ( 22.72 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 2.938345E-01 days
2459 Date: 02/14/07 Time: 10:51:26 CPU Time: 0 0: 0:25.75 ( 25.75 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 2.474097E+01 days
2462 Date: 02/14/07 Time: 10:51:29 CPU Time: 0 0: 0:28.83 ( 28.83 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 8.724359E+02 days
2465 Date: 02/14/07 Time: 10:51:34 CPU Time: 0 0: 0:33.59 ( 33.59 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 1.061273E+04 days
2468 Date: 02/14/07 Time: 10:51:39 CPU Time: 0 0: 0:38.99 ( 38.99 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 2.155677E+04 days
2471 Date: 02/14/07 Time: 10:51:46 CPU Time: 0 0: 0:45.24 ( 45.24 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 3.652647E+04 days
2474 Date: 02/14/07 Time: 10:51:50 CPU Time: 0 0: 0:50.05 ( 50.05 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 3.665348E+04 days
2477 Date: 02/14/07 Time: 10:51:54 CPU Time: 0 0: 0:54.04 ( 54.04 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 3.665883E+04 days
2480 Date: 02/14/07 Time: 10:51:56 CPU Time: 0 0: 0:55.64 ( 55.64 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 3.699010E+04 days
2483 Date: 02/14/07 Time: 10:51:59 CPU Time: 0 0: 0:59.02 ( 59.02 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 6.033302E+04 days
2486 Date: 02/14/07 Time: 10:52:04 CPU Time: 0 0: 1: 3.66 ( 63.66 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 1.684360E+05 days
2489 Date: 02/14/07 Time: 10:52:11 CPU Time: 0 0: 1:10.77 ( 70.77 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 3.612153E+05 days
2492 Date: 02/14/07 Time: 10:52:19 CPU Time: 0 0: 1:18.38 ( 78.38 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 3.652431E+05 days
2495 Date: 02/14/07 Time: 10:52:26 CPU Time: 0 0: 1:25.89 ( 85.89 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 3.652431E+05 days
2498 Date: 02/14/07 Time: 10:52:29 CPU Time: 0 0: 1:28.23 ( 88.23 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 3.652440E+05 days
```

2501 Date: 02/14/07 Time: 10:52:31 CPU Time: 0 0: 1:30.58 (90.58 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 3.652772E+05 days
2504 Date: 02/14/07 Time: 10:52:35 CPU Time: 0 0: 1:34.77 (94.77 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 3.654262E+05 days
2507 Date: 02/14/07 Time: 10:52:41 CPU Time: 0 0: 1:40.79 (100.79 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 3.662645E+05 days
2510 Date: 02/14/07 Time: 10:52:45 CPU Time: 0 0: 1:44.63 (104.63 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 3.667286E+05 days
2513 Date: 02/14/07 Time: 10:52:47 CPU Time: 0 0: 1:46.34 (106.34 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 3.669189E+05 days
2516 Date: 02/14/07 Time: 10:52:49 CPU Time: 0 0: 1:48.62 (108.62 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 3.688841E+05 days
2519 Date: 02/14/07 Time: 10:52:56 CPU Time: 0 0: 1:55.67 (115.67 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 3.692609E+05 days
2522 Date: 02/14/07 Time: 10:53:01 CPU Time: 0 0: 2: 0.48 (120.48 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 3.727217E+05 days
2525 Date: 02/14/07 Time: 10:53:08 CPU Time: 0 0: 2: 7.06 (127.06 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 3.728322E+05 days
2528 Date: 02/14/07 Time: 10:53:12 CPU Time: 0 0: 2:11.63 (131.63 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 3.736573E+05 days
2531 Date: 02/14/07 Time: 10:53:16 CPU Time: 0 0: 2:15.23 (135.23 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 3.751879E+05 days
2534 Date: 02/14/07 Time: 10:53:22 CPU Time: 0 0: 2:21.87 (141.87 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 3.753562E+05 days
2537 Date: 02/14/07 Time: 10:53:27 CPU Time: 0 0: 2:26.90 (146.90 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 3.760316E+05 days
2540 Date: 02/14/07 Time: 10:53:31 CPU Time: 0 0: 2:30.85 (150.85 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 3.825332E+05 days
2543 Date: 02/14/07 Time: 10:53:37 CPU Time: 0 0: 2:36.04 (156.04 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 3.866955E+05 days
2546 Date: 02/14/07 Time: 10:53:42 CPU Time: 0 0: 2:41.03 (161.03 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.873444E+05 days
2549 Date: 02/14/07 Time: 10:53:47 CPU Time: 0 0: 2:46.19 (166.19 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.889694E+05 days
2552 Date: 02/14/07 Time: 10:53:52 CPU Time: 0 0: 2:50.96 (170.96 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 4.148787E+05 days
2555 Date: 02/14/07 Time: 10:53:57 CPU Time: 0 0: 2:56.23 (176.23 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 4.172059E+05 days
2558 Date: 02/14/07 Time: 10:54:03 CPU Time: 0 0: 3: 1.89 (181.89 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 4.696437E+05 days
2561 Date: 02/14/07 Time: 10:54:08 CPU Time: 0 0: 3: 7.16 (187.16 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 4.778589E+05 days
2564 Date: 02/14/07 Time: 10:54:13 CPU Time: 0 0: 3:12.75 (192.75 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 5.620786E+05 days
2567 Date: 02/14/07 Time: 10:54:21 CPU Time: 0 0: 3:20.03 (200.03 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 6.268580E+05 days
2570 Date: 02/14/07 Time: 10:54:29 CPU Time: 0 0: 3:28.41 (208.41 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 6.704336E+05 days
2573 Date: 02/14/07 Time: 10:54:35 CPU Time: 0 0: 3:34.02 (214.02 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 9.857664E+05 days
2576 Date: 02/14/07 Time: 10:54:42 CPU Time: 0 0: 3:41.70 (221.70 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 1.073310E+06 days
2579 Date: 02/14/07 Time: 10:54:49 CPU Time: 0 0: 3:47.93 (227.93 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 1.150990E+06 days
2582 Date: 02/14/07 Time: 10:54:56 CPU Time: 0 0: 3:54.96 (234.96 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 1.287816E+06 days
2585 Date: 02/14/07 Time: 10:55:03 CPU Time: 0 0: 4: 2.21 (242.21 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 1.308346E+06 days
2588 Date: 02/14/07 Time: 10:55:10 CPU Time: 0 0: 4: 9.50 (249.50 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 1.456825E+06 days
2591 Date: 02/14/07 Time: 10:55:15 CPU Time: 0 0: 4:13.95 (253.95 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 1.537825E+06 days
2594 Date: 02/14/07 Time: 10:55:21 CPU Time: 0 0: 4:20.50 (260.50 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 1.696934E+06 days
2597 Date: 02/14/07 Time: 10:55:29 CPU Time: 0 0: 4:28.28 (268.28 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 1.751881E+06 days
2600 Date: 02/14/07 Time: 10:55:36 CPU Time: 0 0: 4:35.41 (275.41 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 1.820898E+06 days
2603 Date: 02/14/07 Time: 10:55:44 CPU Time: 0 0: 4:43.47 (283.47 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 1.881985E+06 days
2606 Date: 02/14/07 Time: 10:55:50 CPU Time: 0 0: 4:49.05 (289.05 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 1.916306E+06 days
2609 Date: 02/14/07 Time: 10:55:58 CPU Time: 0 0: 4:57.41 (297.41 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 1.918460E+06 days
2612 Date: 02/14/07 Time: 10:56:04 CPU Time: 0 0: 5: 3.50 (303.50 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 1.946643E+06 days

2615 Date: 02/14/07 Time: 10:56:10 CPU Time: 0 0: 5: 8.95 (308.95 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 1.960029E+06 days
2618 Date: 02/14/07 Time: 10:56:16 CPU Time: 0 0: 5:15.50 (315.50 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 2.008712E+06 days
2621 Date: 02/14/07 Time: 10:56:21 CPU Time: 0 0: 5:20.48 (320.48 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 2.077272E+06 days
2624 Date: 02/14/07 Time: 10:56:30 CPU Time: 0 0: 5:28.71 (328.71 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 2.097683E+06 days
2627 Date: 02/14/07 Time: 10:56:36 CPU Time: 0 0: 5:34.86 (334.86 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 2.146337E+06 days
2630 Date: 02/14/07 Time: 10:56:43 CPU Time: 0 0: 5:42.16 (342.16 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 2.165527E+06 days
2633 Date: 02/14/07 Time: 10:56:50 CPU Time: 0 0: 5:48.73 (348.73 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 2.287329E+06 days
2636 Date: 02/14/07 Time: 10:56:54 CPU Time: 0 0: 5:52.82 (352.82 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 2.468490E+06 days
2639 Date: 02/14/07 Time: 10:57:01 CPU Time: 0 0: 5:59.74 (359.74 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 2.868490E+06 days
2642 Date: 02/14/07 Time: 10:57:06 CPU Time: 0 0: 6: 4.74 (364.74 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 2.934390E+06 days
2645 Date: 02/14/07 Time: 10:57:12 CPU Time: 0 0: 6:10.79 (370.79 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 2.959040E+06 days
2648 Date: 02/14/07 Time: 10:57:18 CPU Time: 0 0: 6:17.35 (377.35 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 2.965271E+06 days
2651 Date: 02/14/07 Time: 10:57:22 CPU Time: 0 0: 6:20.74 (380.74 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 3.018341E+06 days
2654 Date: 02/14/07 Time: 10:57:28 CPU Time: 0 0: 6:27.45 (387.45 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 3.091685E+06 days
2657 Date: 02/14/07 Time: 10:57:35 CPU Time: 0 0: 6:34.36 (394.36 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 3.113442E+06 days
2660 Date: 02/14/07 Time: 10:57:40 CPU Time: 0 0: 6:38.90 (398.90 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 3.431278E+06 days
2663 Date: 02/14/07 Time: 10:57:44 CPU Time: 0 0: 6:42.99 (402.99 sec) Binary
2666 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
2450 Date: 02/14/07 Time: 10:00:03 CPU Time: 0 0: 0:21.41 (21.41 sec) ASCII
2452 Time Step No. = 140 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:00:03 CPU Time: 0 0: 0:21.41 (21.41 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 3.349069E-03 days
2456 Date: 02/14/07 Time: 10:00:07 CPU Time: 0 0: 0:24.99 (24.99 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 2.938345E-01 days
2459 Date: 02/14/07 Time: 10:00:10 CPU Time: 0 0: 0:28.33 (28.33 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 2.474097E+01 days
2462 Date: 02/14/07 Time: 10:00:14 CPU Time: 0 0: 0:31.73 (31.73 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 8.724359E+02 days
2465 Date: 02/14/07 Time: 10:00:19 CPU Time: 0 0: 0:36.96 (36.96 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 1.061273E+04 days
2468 Date: 02/14/07 Time: 10:00:25 CPU Time: 0 0: 0:42.87 (42.87 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 2.155677E+04 days
2471 Date: 02/14/07 Time: 10:00:32 CPU Time: 0 0: 0:49.72 (49.72 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 3.652647E+04 days
2474 Date: 02/14/07 Time: 10:00:37 CPU Time: 0 0: 0:55.02 (55.02 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 3.665348E+04 days
2477 Date: 02/14/07 Time: 10:00:41 CPU Time: 0 0: 0:59.42 (59.42 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 3.665883E+04 days
2480 Date: 02/14/07 Time: 10:00:43 CPU Time: 0 0: 1: 1.18 (61.18 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 3.699010E+04 days
2483 Date: 02/14/07 Time: 10:00:47 CPU Time: 0 0: 1: 4.89 (64.89 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 6.033302E+04 days
2486 Date: 02/14/07 Time: 10:00:52 CPU Time: 0 0: 1: 9.99 (69.99 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 1.684360E+05 days
2489 Date: 02/14/07 Time: 10:01:00 CPU Time: 0 0: 1:17.78 (77.78 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 3.612153E+05 days
2492 Date: 02/14/07 Time: 10:01:08 CPU Time: 0 0: 1:26.16 (86.16 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 3.652431E+05 days
2495 Date: 02/14/07 Time: 10:01:16 CPU Time: 0 0: 1:34.41 (94.41 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 3.652431E+05 days
2498 Date: 02/14/07 Time: 10:01:19 CPU Time: 0 0: 1:37.00 (97.00 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 3.652440E+05 days
2501 Date: 02/14/07 Time: 10:01:22 CPU Time: 0 0: 1:39.59 (99.59 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 3.652772E+05 days
2504 Date: 02/14/07 Time: 10:01:26 CPU Time: 0 0: 1:44.20 (104.20 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 3.654262E+05 days
2507 Date: 02/14/07 Time: 10:01:33 CPU Time: 0 0: 1:50.81 (110.81 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 3.662645E+05 days

2510 Date: 02/14/07 Time: 10:01:37 CPU Time: 0 0: 1:55.04 (115.04 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 3.667286E+05 days
2513 Date: 02/14/07 Time: 10:01:39 CPU Time: 0 0: 1:56.94 (116.94 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 3.669189E+05 days
2516 Date: 02/14/07 Time: 10:01:41 CPU Time: 0 0: 1:59.48 (119.48 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 3.688841E+05 days
2519 Date: 02/14/07 Time: 10:01:49 CPU Time: 0 0: 2: 7.23 (127.23 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 3.692609E+05 days
2522 Date: 02/14/07 Time: 10:01:55 CPU Time: 0 0: 2:12.52 (132.52 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 3.727217E+05 days
2525 Date: 02/14/07 Time: 10:02:02 CPU Time: 0 0: 2:19.78 (139.78 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 3.728322E+05 days
2528 Date: 02/14/07 Time: 10:02:07 CPU Time: 0 0: 2:24.81 (144.81 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 3.736573E+05 days
2531 Date: 02/14/07 Time: 10:02:11 CPU Time: 0 0: 2:28.79 (148.79 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 3.751879E+05 days
2534 Date: 02/14/07 Time: 10:02:18 CPU Time: 0 0: 2:36.13 (156.13 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 3.753562E+05 days
2537 Date: 02/14/07 Time: 10:02:24 CPU Time: 0 0: 2:41.67 (161.67 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 3.760316E+05 days
2540 Date: 02/14/07 Time: 10:02:28 CPU Time: 0 0: 2:46.00 (166.00 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 3.825332E+05 days
2543 Date: 02/14/07 Time: 10:02:34 CPU Time: 0 0: 2:51.74 (171.74 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 3.866955E+05 days
2546 Date: 02/14/07 Time: 10:02:40 CPU Time: 0 0: 2:57.23 (177.23 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.873444E+05 days
2549 Date: 02/14/07 Time: 10:02:45 CPU Time: 0 0: 3: 2.89 (182.89 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.889694E+05 days
2552 Date: 02/14/07 Time: 10:02:51 CPU Time: 0 0: 3: 8.13 (188.13 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 4.148787E+05 days
2555 Date: 02/14/07 Time: 10:02:56 CPU Time: 0 0: 3:13.93 (193.93 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 4.172059E+05 days
2558 Date: 02/14/07 Time: 10:03:03 CPU Time: 0 0: 3:20.19 (200.19 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 4.696437E+05 days
2561 Date: 02/14/07 Time: 10:03:09 CPU Time: 0 0: 3:26.00 (206.00 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 4.778589E+05 days
2564 Date: 02/14/07 Time: 10:03:15 CPU Time: 0 0: 3:32.43 (212.43 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 5.620786E+05 days
2567 Date: 02/14/07 Time: 10:03:23 CPU Time: 0 0: 3:40.80 (220.80 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 6.268580E+05 days
2570 Date: 02/14/07 Time: 10:03:33 CPU Time: 0 0: 3:50.44 (230.44 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 6.704336E+05 days
2573 Date: 02/14/07 Time: 10:03:40 CPU Time: 0 0: 3:56.93 (236.93 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 9.857664E+05 days
2576 Date: 02/14/07 Time: 10:03:49 CPU Time: 0 0: 4: 5.76 (245.76 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 1.073310E+06 days
2579 Date: 02/14/07 Time: 10:03:56 CPU Time: 0 0: 4:13.00 (253.00 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 1.150990E+06 days
2582 Date: 02/14/07 Time: 10:04:04 CPU Time: 0 0: 4:21.02 (261.02 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 1.287816E+06 days
2585 Date: 02/14/07 Time: 10:04:12 CPU Time: 0 0: 4:29.33 (269.33 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 1.308346E+06 days
2588 Date: 02/14/07 Time: 10:04:21 CPU Time: 0 0: 4:37.72 (277.72 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 1.456825E+06 days
2591 Date: 02/14/07 Time: 10:04:26 CPU Time: 0 0: 4:42.82 (282.82 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 1.537825E+06 days
2594 Date: 02/14/07 Time: 10:04:33 CPU Time: 0 0: 4:50.27 (290.27 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 1.696934E+06 days
2597 Date: 02/14/07 Time: 10:04:42 CPU Time: 0 0: 4:59.13 (299.13 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 1.751881E+06 days
2600 Date: 02/14/07 Time: 10:04:50 CPU Time: 0 0: 5: 7.35 (307.35 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 1.820898E+06 days
2603 Date: 02/14/07 Time: 10:05:00 CPU Time: 0 0: 5:16.62 (316.62 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 1.881985E+06 days
2606 Date: 02/14/07 Time: 10:05:06 CPU Time: 0 0: 5:23.09 (323.09 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 1.916306E+06 days
2609 Date: 02/14/07 Time: 10:05:16 CPU Time: 0 0: 5:33.16 (333.16 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 1.918460E+06 days
2612 Date: 02/14/07 Time: 10:05:23 CPU Time: 0 0: 5:40.34 (340.34 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 1.946643E+06 days
2615 Date: 02/14/07 Time: 10:05:30 CPU Time: 0 0: 5:46.69 (346.69 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 1.960029E+06 days
2618 Date: 02/14/07 Time: 10:05:37 CPU Time: 0 0: 5:54.42 (354.42 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 2.008712E+06 days
2621 Date: 02/14/07 Time: 10:05:43 CPU Time: 0 0: 6: 0.32 (360.32 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 2.077272E+06 days

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2624 Date: 02/14/07 Time: 10:05:53 CPU Time: 0 0: 6:10.03 ( 370.03 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 2.097683E+06 days
2627 Date: 02/14/07 Time: 10:06:00 CPU Time: 0 0: 6:17.28 ( 377.28 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 2.146337E+06 days
2630 Date: 02/14/07 Time: 10:06:09 CPU Time: 0 0: 6:25.64 ( 385.64 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 2.165527E+06 days
2633 Date: 02/14/07 Time: 10:06:16 CPU Time: 0 0: 6:32.86 ( 392.86 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 2.287329E+06 days
2636 Date: 02/14/07 Time: 10:06:21 CPU Time: 0 0: 6:37.40 ( 397.40 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 2.468490E+06 days
2639 Date: 02/14/07 Time: 10:06:28 CPU Time: 0 0: 6:45.00 ( 405.00 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 2.868490E+06 days
2642 Date: 02/14/07 Time: 10:06:34 CPU Time: 0 0: 6:50.47 ( 410.47 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 2.934390E+06 days
2645 Date: 02/14/07 Time: 10:06:40 CPU Time: 0 0: 6:57.02 ( 417.02 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 2.959040E+06 days
2648 Date: 02/14/07 Time: 10:06:48 CPU Time: 0 0: 7: 4.18 ( 424.18 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 2.965271E+06 days
2651 Date: 02/14/07 Time: 10:06:51 CPU Time: 0 0: 7: 7.89 ( 427.89 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 3.018341E+06 days
2654 Date: 02/14/07 Time: 10:06:59 CPU Time: 0 0: 7:15.19 ( 435.19 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 3.091685E+06 days
2657 Date: 02/14/07 Time: 10:07:06 CPU Time: 0 0: 7:22.74 ( 442.74 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 3.113442E+06 days
2660 Date: 02/14/07 Time: 10:07:11 CPU Time: 0 0: 7:27.70 ( 447.70 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 3.431278E+06 days
2663 Date: 02/14/07 Time: 10:07:16 CPU Time: 0 0: 7:32.17 ( 452.17 sec) Binary
2666 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
2682 CPU Time (this time step) = 0.11 sec = 0.00003 hr
2683 CPU Time (total for run) = 405.26 sec = 0.11257 hr
2684 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
2682 CPU Time (this time step) = 0.13 sec = 0.00004 hr
2683 CPU Time (total for run) = 454.65 sec = 0.12629 hr
2684 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
3360 Date: 02/14/07 Time: 10:57:46 CPU Time: 0 0: 6:45.27 ( 405.27 sec) ASCII
3362 Time Step No. = 1552 Elapsed Time = 3.652431E+06 days
3363 Date: 02/14/07 Time: 10:57:46 CPU Time: 0 0: 6:45.27 ( 405.27 sec) Binary
3368 *****
3369 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3370 * Completed: 02/14/07 at 10:57:46 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
3371 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
3360 Date: 02/14/07 Time: 10:07:18 CPU Time: 0 0: 7:34.66 ( 454.66 sec) ASCII
3362 Time Step No. = 1552 Elapsed Time = 3.652431E+06 days
3363 Date: 02/14/07 Time: 10:07:18 CPU Time: 0 0: 7:34.66 ( 454.66 sec) Binary
3368 *****
3369 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3370 * Completed: 02/14/07 at 10:07:18 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3371 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 160

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
```

BF2_QB0600_ES45_TEST7_V014_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
3 ** Begun on: 02/14/07 at 10:54:57 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
4 *****
```



```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
  3  ** Begun on: 02/14/07 at 10:03:56 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4  ****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_TEST7_V014.INP;2
  62 ****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;2
  62 ****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_CLOSURE.DAT;1
  67 ****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_CLOSURE.DAT;1
  67 ****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
  72 ****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
  72 ****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.SUM;1
  77 ****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.SUM;1
  77 ****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.BIN;1
  82 ****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.BIN;1
  82 ****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.ROT;1
  87 ****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.ROT;1
  87 ****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
  1772 CPU Time (this time step) = 0.11 sec = 0.00003 hr
  1773 CPU Time (total for run) = 24.30 sec = 0.00675 hr
  1774 ****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
  1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
  1773 CPU Time (total for run) = 26.91 sec = 0.00747 hr
  1774 ****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
  2450 Date: 02/14/07 Time: 10:55:21 CPU Time: 0 0: 0:24.31 ( 24.31 sec) ASCII
  2452 Time Step No. = 143 Elapsed Time = 0.000000E+00 days
  2453 Date: 02/14/07 Time: 10:55:21 CPU Time: 0 0: 0:24.32 ( 24.32 sec) Binary
  2455 Time Step No. = 160 Elapsed Time = 1.888386E-01 days
```

2456 Date: 02/14/07 Time: 10:55:26 CPU Time: 0 0: 0:28.82 (28.82 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 1.049209E+01 days
2459 Date: 02/14/07 Time: 10:55:29 CPU Time: 0 0: 0:32.61 (32.61 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 7.381917E+01 days
2462 Date: 02/14/07 Time: 10:55:33 CPU Time: 0 0: 0:36.56 (36.56 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 1.303821E+03 days
2465 Date: 02/14/07 Time: 10:55:38 CPU Time: 0 0: 0:41.70 (41.70 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 1.029855E+04 days
2468 Date: 02/14/07 Time: 10:55:44 CPU Time: 0 0: 0:47.33 (47.33 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 1.453486E+04 days
2471 Date: 02/14/07 Time: 10:55:48 CPU Time: 0 0: 0:51.29 (51.29 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 1.897038E+04 days
2474 Date: 02/14/07 Time: 10:55:53 CPU Time: 0 0: 0:56.00 (56.00 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 3.655441E+04 days
2477 Date: 02/14/07 Time: 10:56:01 CPU Time: 0 0: 1: 3.46 (63.46 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 3.665178E+04 days
2480 Date: 02/14/07 Time: 10:56:05 CPU Time: 0 0: 1: 7.56 (67.56 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 3.666487E+04 days
2483 Date: 02/14/07 Time: 10:56:07 CPU Time: 0 0: 1: 9.44 (69.44 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 3.745088E+04 days
2486 Date: 02/14/07 Time: 10:56:10 CPU Time: 0 0: 1:12.88 (72.88 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 6.127717E+04 days
2489 Date: 02/14/07 Time: 10:56:16 CPU Time: 0 0: 1:18.78 (78.78 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 6.603191E+04 days
2492 Date: 02/14/07 Time: 10:56:21 CPU Time: 0 0: 1:23.92 (83.92 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 7.703200E+04 days
2495 Date: 02/14/07 Time: 10:56:26 CPU Time: 0 0: 1:28.48 (88.48 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 1.085280E+05 days
2498 Date: 02/14/07 Time: 10:56:36 CPU Time: 0 0: 1:38.66 (98.66 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 1.090970E+05 days
2501 Date: 02/14/07 Time: 10:56:43 CPU Time: 0 0: 1:45.49 (105.49 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 1.344497E+05 days
2504 Date: 02/14/07 Time: 10:56:53 CPU Time: 0 0: 1:55.30 (115.30 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 1.371412E+05 days
2507 Date: 02/14/07 Time: 10:56:56 CPU Time: 0 0: 1:59.16 (119.16 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 1.661861E+05 days
2510 Date: 02/14/07 Time: 10:57:05 CPU Time: 0 0: 2: 8.03 (128.03 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 1.808157E+05 days
2513 Date: 02/14/07 Time: 10:57:13 CPU Time: 0 0: 2:15.46 (135.46 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 1.870527E+05 days
2516 Date: 02/14/07 Time: 10:57:20 CPU Time: 0 0: 2:22.91 (142.91 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 1.979271E+05 days
2519 Date: 02/14/07 Time: 10:57:29 CPU Time: 0 0: 2:31.56 (151.56 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 2.023248E+05 days
2522 Date: 02/14/07 Time: 10:57:36 CPU Time: 0 0: 2:39.08 (159.08 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 2.067971E+05 days
2525 Date: 02/14/07 Time: 10:57:44 CPU Time: 0 0: 2:46.19 (166.19 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 2.087652E+05 days
2528 Date: 02/14/07 Time: 10:57:49 CPU Time: 0 0: 2:51.91 (171.91 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 2.118872E+05 days
2531 Date: 02/14/07 Time: 10:57:55 CPU Time: 0 0: 2:57.86 (177.86 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 2.157256E+05 days
2534 Date: 02/14/07 Time: 10:58:01 CPU Time: 0 0: 3: 3.89 (183.89 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 2.321898E+05 days
2537 Date: 02/14/07 Time: 10:58:11 CPU Time: 0 0: 3:13.75 (193.75 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 2.494542E+05 days
2540 Date: 02/14/07 Time: 10:58:17 CPU Time: 0 0: 3:19.62 (199.62 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 3.250039E+05 days
2543 Date: 02/14/07 Time: 10:58:26 CPU Time: 0 0: 3:28.28 (208.28 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 3.652439E+05 days
2546 Date: 02/14/07 Time: 10:58:33 CPU Time: 0 0: 3:35.56 (215.56 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.653114E+05 days
2549 Date: 02/14/07 Time: 10:58:36 CPU Time: 0 0: 3:38.82 (218.82 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.659945E+05 days
2552 Date: 02/14/07 Time: 10:58:41 CPU Time: 0 0: 3:43.25 (223.25 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 3.665915E+05 days
2555 Date: 02/14/07 Time: 10:58:43 CPU Time: 0 0: 3:44.81 (224.81 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 3.667438E+05 days
2558 Date: 02/14/07 Time: 10:58:44 CPU Time: 0 0: 3:46.73 (226.73 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 3.702620E+05 days
2561 Date: 02/14/07 Time: 10:58:49 CPU Time: 0 0: 3:51.51 (231.51 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 4.022279E+05 days
2564 Date: 02/14/07 Time: 10:58:56 CPU Time: 0 0: 3:57.86 (237.86 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 4.058413E+05 days
2567 Date: 02/14/07 Time: 10:59:03 CPU Time: 0 0: 4: 5.09 (245.09 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 4.157257E+05 days

2570 Date: 02/14/07 Time: 10:59:09 CPU Time: 0 0: 4:11.20 (251.20 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 4.680020E+05 days
2573 Date: 02/14/07 Time: 10:59:17 CPU Time: 0 0: 4:18.78 (258.78 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 4.960207E+05 days
2576 Date: 02/14/07 Time: 10:59:23 CPU Time: 0 0: 4:24.73 (264.73 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 5.004681E+05 days
2579 Date: 02/14/07 Time: 10:59:29 CPU Time: 0 0: 4:31.49 (271.49 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 5.185227E+05 days
2582 Date: 02/14/07 Time: 10:59:34 CPU Time: 0 0: 4:36.51 (276.51 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 5.256549E+05 days
2585 Date: 02/14/07 Time: 10:59:40 CPU Time: 0 0: 4:41.95 (281.95 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 5.710331E+05 days
2588 Date: 02/14/07 Time: 10:59:45 CPU Time: 0 0: 4:47.25 (287.25 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 5.995540E+05 days
2591 Date: 02/14/07 Time: 10:59:51 CPU Time: 0 0: 4:53.31 (293.31 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 6.468026E+05 days
2594 Date: 02/14/07 Time: 10:59:58 CPU Time: 0 0: 4:59.95 (299.95 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 7.581412E+05 days
2597 Date: 02/14/07 Time: 11:00:05 CPU Time: 0 0: 5: 6.74 (306.74 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 7.595371E+05 days
2600 Date: 02/14/07 Time: 11:00:11 CPU Time: 0 0: 5:12.70 (312.70 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 7.605376E+05 days
2603 Date: 02/14/07 Time: 11:00:16 CPU Time: 0 0: 5:18.10 (318.10 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 8.320140E+05 days
2606 Date: 02/14/07 Time: 11:00:20 CPU Time: 0 0: 5:22.32 (322.32 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 8.885727E+05 days
2609 Date: 02/14/07 Time: 11:00:29 CPU Time: 0 0: 5:30.99 (330.99 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 8.890150E+05 days
2612 Date: 02/14/07 Time: 11:00:34 CPU Time: 0 0: 5:36.03 (336.03 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 8.899916E+05 days
2615 Date: 02/14/07 Time: 11:00:38 CPU Time: 0 0: 5:40.01 (340.01 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 8.947272E+05 days
2618 Date: 02/14/07 Time: 11:00:42 CPU Time: 0 0: 5:43.75 (343.75 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 9.437904E+05 days
2621 Date: 02/14/07 Time: 11:00:47 CPU Time: 0 0: 5:48.61 (348.61 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 1.213758E+06 days
2624 Date: 02/14/07 Time: 11:00:57 CPU Time: 0 0: 5:59.37 (359.37 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 1.226074E+06 days
2627 Date: 02/14/07 Time: 11:01:02 CPU Time: 0 0: 6: 4.05 (364.05 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 1.335351E+06 days
2630 Date: 02/14/07 Time: 11:01:11 CPU Time: 0 0: 6:12.93 (372.93 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 1.355313E+06 days
2633 Date: 02/14/07 Time: 11:01:15 CPU Time: 0 0: 6:16.72 (376.72 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 1.691414E+06 days
2636 Date: 02/14/07 Time: 11:01:22 CPU Time: 0 0: 6:24.03 (384.03 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 1.935904E+06 days
2639 Date: 02/14/07 Time: 11:01:30 CPU Time: 0 0: 6:32.06 (392.06 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 2.156829E+06 days
2642 Date: 02/14/07 Time: 11:01:37 CPU Time: 0 0: 6:38.93 (398.93 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 2.385035E+06 days
2645 Date: 02/14/07 Time: 11:01:45 CPU Time: 0 0: 6:47.35 (407.35 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 2.388859E+06 days
2648 Date: 02/14/07 Time: 11:01:51 CPU Time: 0 0: 6:53.20 (413.20 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 2.446663E+06 days
2651 Date: 02/14/07 Time: 11:01:57 CPU Time: 0 0: 6:58.88 (418.88 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 2.487155E+06 days
2654 Date: 02/14/07 Time: 11:02:06 CPU Time: 0 0: 7: 7.63 (427.63 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 2.546664E+06 days
2657 Date: 02/14/07 Time: 11:02:13 CPU Time: 0 0: 7:14.92 (434.92 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 2.746584E+06 days
2660 Date: 02/14/07 Time: 11:02:18 CPU Time: 0 0: 7:20.18 (440.18 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 2.785922E+06 days
2663 Date: 02/14/07 Time: 11:02:26 CPU Time: 0 0: 7:28.07 (448.07 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 2.839066E+06 days
2666 Date: 02/14/07 Time: 11:02:34 CPU Time: 0 0: 7:35.55 (455.55 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 2.853716E+06 days
2669 Date: 02/14/07 Time: 11:02:41 CPU Time: 0 0: 7:42.74 (462.74 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 2.906230E+06 days
2672 Date: 02/14/07 Time: 11:02:48 CPU Time: 0 0: 7:50.17 (470.17 sec) Binary
2674 Time Step No. = 1620 Elapsed Time = 3.005066E+06 days
2675 Date: 02/14/07 Time: 11:02:56 CPU Time: 0 0: 7:58.28 (478.28 sec) Binary
2677 Time Step No. = 1640 Elapsed Time = 3.035896E+06 days
2678 Date: 02/14/07 Time: 11:03:04 CPU Time: 0 0: 8: 5.98 (485.98 sec) Binary
2680 Time Step No. = 1660 Elapsed Time = 3.044398E+06 days
2681 Date: 02/14/07 Time: 11:03:12 CPU Time: 0 0: 8:14.14 (494.14 sec) Binary
2683 Time Step No. = 1680 Elapsed Time = 3.057017E+06 days

2684 Date: 02/14/07 Time: 11:03:19 CPU Time: 0 0: 8:20.34 (500.34 sec) Binary
2686 Time Step No. = 1700 Elapsed Time = 3.100833E+06 days
2687 Date: 02/14/07 Time: 11:03:24 CPU Time: 0 0: 8:25.51 (505.51 sec) Binary
2689 Time Step No. = 1720 Elapsed Time = 3.124165E+06 days
2690 Date: 02/14/07 Time: 11:03:31 CPU Time: 0 0: 8:33.26 (513.26 sec) Binary
2692 Time Step No. = 1740 Elapsed Time = 3.186781E+06 days
2693 Date: 02/14/07 Time: 11:03:39 CPU Time: 0 0: 8:40.00 (520.00 sec) Binary
2695 Time Step No. = 1760 Elapsed Time = 3.196106E+06 days
2696 Date: 02/14/07 Time: 11:03:42 CPU Time: 0 0: 8:43.79 (523.79 sec) Binary
2698 Time Step No. = 1780 Elapsed Time = 3.298901E+06 days
2699 Date: 02/14/07 Time: 11:03:49 CPU Time: 0 0: 8:50.62 (530.62 sec) Binary
2701 Time Step No. = 1800 Elapsed Time = 3.409211E+06 days
2702 Date: 02/14/07 Time: 11:03:58 CPU Time: 0 0: 8:58.91 (538.91 sec) Binary
2704 Time Step No. = 1820 Elapsed Time = 3.458423E+06 days
2705 Date: 02/14/07 Time: 11:04:00 CPU Time: 0 0: 9: 1.78 (541.78 sec) Binary
2708 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA: [ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
2450 Date: 02/14/07 Time: 10:04:23 CPU Time: 0 0: 0:26.93 (26.93 sec) ASCII
2452 Time Step No. = 143 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:04:23 CPU Time: 0 0: 0:26.93 (26.93 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 1.888386E-01 days
2456 Date: 02/14/07 Time: 10:04:28 CPU Time: 0 0: 0:31.89 (31.89 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 1.049209E+01 days
2459 Date: 02/14/07 Time: 10:04:32 CPU Time: 0 0: 0:36.02 (36.02 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 7.381917E+01 days
2462 Date: 02/14/07 Time: 10:04:37 CPU Time: 0 0: 0:40.41 (40.41 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 1.303821E+03 days
2465 Date: 02/14/07 Time: 10:04:42 CPU Time: 0 0: 0:46.07 (46.07 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 1.029855E+04 days
2468 Date: 02/14/07 Time: 10:04:49 CPU Time: 0 0: 0:52.32 (52.32 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 1.453486E+04 days
2471 Date: 02/14/07 Time: 10:04:53 CPU Time: 0 0: 0:56.71 (56.71 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 1.897038E+04 days
2474 Date: 02/14/07 Time: 10:04:58 CPU Time: 0 0: 1: 1.94 (61.94 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 3.655441E+04 days
2477 Date: 02/14/07 Time: 10:05:07 CPU Time: 0 0: 1:10.21 (70.21 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 3.665178E+04 days
2480 Date: 02/14/07 Time: 10:05:11 CPU Time: 0 0: 1:14.75 (74.75 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 3.666487E+04 days
2483 Date: 02/14/07 Time: 10:05:13 CPU Time: 0 0: 1:16.82 (76.82 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 3.745088E+04 days
2486 Date: 02/14/07 Time: 10:05:17 CPU Time: 0 0: 1:20.62 (80.62 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 6.127717E+04 days
2489 Date: 02/14/07 Time: 10:05:24 CPU Time: 0 0: 1:27.44 (87.44 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 6.603191E+04 days
2492 Date: 02/14/07 Time: 10:05:30 CPU Time: 0 0: 1:33.46 (93.46 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 7.703200E+04 days
2495 Date: 02/14/07 Time: 10:05:35 CPU Time: 0 0: 1:38.69 (98.69 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 1.085280E+05 days
2498 Date: 02/14/07 Time: 10:05:47 CPU Time: 0 0: 1:50.38 (110.38 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 1.090970E+05 days
2501 Date: 02/14/07 Time: 10:05:55 CPU Time: 0 0: 1:58.25 (118.25 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 1.344497E+05 days
2504 Date: 02/14/07 Time: 10:06:06 CPU Time: 0 0: 2: 9.56 (129.56 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 1.371412E+05 days
2507 Date: 02/14/07 Time: 10:06:11 CPU Time: 0 0: 2:14.04 (134.04 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 1.661861E+05 days
2510 Date: 02/14/07 Time: 10:06:21 CPU Time: 0 0: 2:24.25 (144.25 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 1.808157E+05 days
2513 Date: 02/14/07 Time: 10:06:29 CPU Time: 0 0: 2:32.79 (152.79 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 1.870527E+05 days
2516 Date: 02/14/07 Time: 10:06:38 CPU Time: 0 0: 2:41.42 (161.42 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 1.979271E+05 days
2519 Date: 02/14/07 Time: 10:06:48 CPU Time: 0 0: 2:51.58 (171.58 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 2.023248E+05 days
2522 Date: 02/14/07 Time: 10:06:57 CPU Time: 0 0: 3: 0.53 (180.53 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 2.067971E+05 days
2525 Date: 02/14/07 Time: 10:07:06 CPU Time: 0 0: 3: 9.00 (189.00 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 2.087652E+05 days
2528 Date: 02/14/07 Time: 10:07:13 CPU Time: 0 0: 3:15.78 (195.78 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 2.118872E+05 days
2531 Date: 02/14/07 Time: 10:07:20 CPU Time: 0 0: 3:22.79 (202.79 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 2.157256E+05 days
2534 Date: 02/14/07 Time: 10:07:27 CPU Time: 0 0: 3:29.88 (209.88 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 2.321898E+05 days

2537 Date: 02/14/07 Time: 10:07:39 CPU Time: 0 0: 3:41.79 (221.79 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 2.494542E+05 days
2540 Date: 02/14/07 Time: 10:07:46 CPU Time: 0 0: 3:48.88 (228.88 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 3.250039E+05 days
2543 Date: 02/14/07 Time: 10:07:57 CPU Time: 0 0: 3:59.31 (239.31 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 3.652439E+05 days
2546 Date: 02/14/07 Time: 10:08:06 CPU Time: 0 0: 4: 8.15 (248.15 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.653114E+05 days
2549 Date: 02/14/07 Time: 10:08:10 CPU Time: 0 0: 4:12.13 (252.13 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.659945E+05 days
2552 Date: 02/14/07 Time: 10:08:15 CPU Time: 0 0: 4:17.51 (257.51 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 3.665915E+05 days
2555 Date: 02/14/07 Time: 10:08:17 CPU Time: 0 0: 4:19.43 (259.43 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 3.667438E+05 days
2558 Date: 02/14/07 Time: 10:08:20 CPU Time: 0 0: 4:21.79 (261.79 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 3.702620E+05 days
2561 Date: 02/14/07 Time: 10:08:26 CPU Time: 0 0: 4:27.60 (267.60 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 4.022279E+05 days
2564 Date: 02/14/07 Time: 10:08:33 CPU Time: 0 0: 4:35.32 (275.32 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 4.058413E+05 days
2567 Date: 02/14/07 Time: 10:08:42 CPU Time: 0 0: 4:44.10 (284.10 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 4.157257E+05 days
2570 Date: 02/14/07 Time: 10:08:49 CPU Time: 0 0: 4:51.54 (291.54 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 4.680020E+05 days
2573 Date: 02/14/07 Time: 10:08:59 CPU Time: 0 0: 5: 0.75 (300.75 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 4.960207E+05 days
2576 Date: 02/14/07 Time: 10:09:06 CPU Time: 0 0: 5: 7.97 (307.97 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 5.004681E+05 days
2579 Date: 02/14/07 Time: 10:09:14 CPU Time: 0 0: 5:16.19 (316.19 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 5.185227E+05 days
2582 Date: 02/14/07 Time: 10:09:20 CPU Time: 0 0: 5:22.28 (322.28 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 5.256549E+05 days
2585 Date: 02/14/07 Time: 10:09:27 CPU Time: 0 0: 5:28.87 (328.87 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 5.710331E+05 days
2588 Date: 02/14/07 Time: 10:09:33 CPU Time: 0 0: 5:35.32 (335.32 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 5.995540E+05 days
2591 Date: 02/14/07 Time: 10:09:41 CPU Time: 0 0: 5:42.67 (342.67 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 6.468026E+05 days
2594 Date: 02/14/07 Time: 10:09:49 CPU Time: 0 0: 5:50.75 (350.75 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 7.581412E+05 days
2597 Date: 02/14/07 Time: 10:09:57 CPU Time: 0 0: 5:58.97 (358.97 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 7.595371E+05 days
2600 Date: 02/14/07 Time: 10:10:04 CPU Time: 0 0: 6: 6.17 (366.17 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 7.605376E+05 days
2603 Date: 02/14/07 Time: 10:10:11 CPU Time: 0 0: 6:12.69 (372.69 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 8.320140E+05 days
2606 Date: 02/14/07 Time: 10:10:16 CPU Time: 0 0: 6:17.80 (377.80 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 8.885727E+05 days
2609 Date: 02/14/07 Time: 10:10:27 CPU Time: 0 0: 6:28.25 (388.25 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 8.890150E+05 days
2612 Date: 02/14/07 Time: 10:10:33 CPU Time: 0 0: 6:34.36 (394.36 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 8.899916E+05 days
2615 Date: 02/14/07 Time: 10:10:38 CPU Time: 0 0: 6:39.20 (399.20 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 8.947272E+05 days
2618 Date: 02/14/07 Time: 10:10:42 CPU Time: 0 0: 6:43.74 (403.74 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 9.437904E+05 days
2621 Date: 02/14/07 Time: 10:10:48 CPU Time: 0 0: 6:49.61 (409.61 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 1.213758E+06 days
2624 Date: 02/14/07 Time: 10:11:01 CPU Time: 0 0: 7: 2.61 (422.61 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 1.226074E+06 days
2627 Date: 02/14/07 Time: 10:11:07 CPU Time: 0 0: 7: 8.26 (428.26 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 1.335351E+06 days
2630 Date: 02/14/07 Time: 10:11:18 CPU Time: 0 0: 7:19.01 (439.01 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 1.355313E+06 days
2633 Date: 02/14/07 Time: 10:11:22 CPU Time: 0 0: 7:23.61 (443.61 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 1.691414E+06 days
2636 Date: 02/14/07 Time: 10:11:31 CPU Time: 0 0: 7:32.45 (452.45 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 1.935904E+06 days
2639 Date: 02/14/07 Time: 10:11:41 CPU Time: 0 0: 7:42.07 (462.07 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 2.156829E+06 days
2642 Date: 02/14/07 Time: 10:11:49 CPU Time: 0 0: 7:50.15 (470.15 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 2.385035E+06 days
2645 Date: 02/14/07 Time: 10:11:58 CPU Time: 0 0: 7:59.43 (479.43 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 2.388859E+06 days
2648 Date: 02/14/07 Time: 10:12:05 CPU Time: 0 0: 8: 5.88 (485.88 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 2.446663E+06 days

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2651 Date: 02/14/07 Time: 10:12:11 CPU Time: 0 0: 8:12.12 ( 492.12 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 2.487155E+06 days
2654 Date: 02/14/07 Time: 10:12:21 CPU Time: 0 0: 8:21.81 ( 501.81 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 2.546664E+06 days
2657 Date: 02/14/07 Time: 10:12:29 CPU Time: 0 0: 8:29.85 ( 509.85 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 2.746584E+06 days
2660 Date: 02/14/07 Time: 10:12:35 CPU Time: 0 0: 8:35.65 ( 515.65 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 2.785922E+06 days
2663 Date: 02/14/07 Time: 10:12:44 CPU Time: 0 0: 8:44.34 ( 524.34 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 2.839066E+06 days
2666 Date: 02/14/07 Time: 10:12:52 CPU Time: 0 0: 8:52.59 ( 532.59 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 2.853716E+06 days
2669 Date: 02/14/07 Time: 10:13:00 CPU Time: 0 0: 9: 0.53 ( 540.53 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 2.906230E+06 days
2672 Date: 02/14/07 Time: 10:13:08 CPU Time: 0 0: 9: 8.72 ( 548.72 sec) Binary
2674 Time Step No. = 1620 Elapsed Time = 3.005066E+06 days
2675 Date: 02/14/07 Time: 10:13:17 CPU Time: 0 0: 9:18.08 ( 558.08 sec) Binary
2677 Time Step No. = 1640 Elapsed Time = 3.035896E+06 days
2678 Date: 02/14/07 Time: 10:13:27 CPU Time: 0 0: 9:27.41 ( 567.41 sec) Binary
2680 Time Step No. = 1660 Elapsed Time = 3.044398E+06 days
2681 Date: 02/14/07 Time: 10:13:37 CPU Time: 0 0: 9:37.30 ( 577.30 sec) Binary
2683 Time Step No. = 1680 Elapsed Time = 3.057017E+06 days
2684 Date: 02/14/07 Time: 10:13:44 CPU Time: 0 0: 9:44.77 ( 584.77 sec) Binary
2686 Time Step No. = 1700 Elapsed Time = 3.100833E+06 days
2687 Date: 02/14/07 Time: 10:13:50 CPU Time: 0 0: 9:51.05 ( 591.05 sec) Binary
2689 Time Step No. = 1720 Elapsed Time = 3.124165E+06 days
2690 Date: 02/14/07 Time: 10:14:00 CPU Time: 0 0:10: 0.43 ( 600.43 sec) Binary
2692 Time Step No. = 1740 Elapsed Time = 3.186781E+06 days
2693 Date: 02/14/07 Time: 10:14:08 CPU Time: 0 0:10: 8.20 ( 608.20 sec) Binary
2695 Time Step No. = 1760 Elapsed Time = 3.196106E+06 days
2696 Date: 02/14/07 Time: 10:14:12 CPU Time: 0 0:10:12.70 ( 612.70 sec) Binary
2698 Time Step No. = 1780 Elapsed Time = 3.298901E+06 days
2699 Date: 02/14/07 Time: 10:14:21 CPU Time: 0 0:10:21.00 ( 621.00 sec) Binary
2701 Time Step No. = 1800 Elapsed Time = 3.409211E+06 days
2702 Date: 02/14/07 Time: 10:14:31 CPU Time: 0 0:10:31.05 ( 631.05 sec) Binary
2704 Time Step No. = 1820 Elapsed Time = 3.458423E+06 days
2705 Date: 02/14/07 Time: 10:14:34 CPU Time: 0 0:10:34.52 ( 634.52 sec) Binary
2708 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
2724 CPU Time (this time step) = 0.18 sec = 0.00005 hr
2725 CPU Time (total for run) = 545.20 sec = 0.15144 hr
2726 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
2724 CPU Time (this time step) = 0.21 sec = 0.00006 hr
2725 CPU Time (total for run) = 638.67 sec = 0.17741 hr
2726 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
3402 Date: 02/14/07 Time: 11:04:04 CPU Time: 0 0: 9: 5.21 ( 545.21 sec) ASCII
3404 Time Step No. = 1833 Elapsed Time = 3.652431E+06 days
3405 Date: 02/14/07 Time: 11:04:04 CPU Time: 0 0: 9: 5.21 ( 545.21 sec) Binary
3410 *****
3411 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3412 * Completed: 02/14/07 at 11:04:04 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
3413 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
3402 Date: 02/14/07 Time: 10:14:38 CPU Time: 0 0:10:38.68 ( 638.68 sec) ASCII
3404 Time Step No. = 1833 Elapsed Time = 3.652431E+06 days
3405 Date: 02/14/07 Time: 10:14:38 CPU Time: 0 0:10:38.69 ( 638.69 sec) Binary
3410 *****
3411 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3412 * Completed: 02/14/07 at 10:14:38 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3413 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 188

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=--
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1-

PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1

BF2_QB0600_ES45_TEST7_V015_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
  3  ** Begun on: 02/14/07 at 10:55:26 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
  3  ** Begun on: 02/14/07 at 10:05:21 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_TEST7_V015.INP;2
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;2
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
  86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.ROT;1
  87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
 1772 CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1773 CPU Time (total for run) = 32.58 sec = 0.00905 hr
 1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
```

1772 CPU Time (this time step) = 0.12 sec = 0.00003 hr
1773 CPU Time (total for run) = 36.30 sec = 0.01008 hr
1774 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
2450 Date: 02/14/07 Time: 10:55:59 CPU Time: 0 0: 0:32.59 (32.59 sec) ASCII
2452 Time Step No. = 210 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:55:59 CPU Time: 0 0: 0:32.59 (32.59 sec) Binary
2455 Time Step No. = 220 Elapsed Time = 2.536995E-06 days
2456 Date: 02/14/07 Time: 10:56:01 CPU Time: 0 0: 0:35.13 (35.13 sec) Binary
2458 Time Step No. = 240 Elapsed Time = 2.462139E-04 days
2459 Date: 02/14/07 Time: 10:56:04 CPU Time: 0 0: 0:37.46 (37.46 sec) Binary
2461 Time Step No. = 260 Elapsed Time = 2.138181E-02 days
2462 Date: 02/14/07 Time: 10:56:06 CPU Time: 0 0: 0:40.03 (40.03 sec) Binary
2464 Time Step No. = 280 Elapsed Time = 8.282803E-01 days
2465 Date: 02/14/07 Time: 10:56:10 CPU Time: 0 0: 0:44.31 (44.31 sec) Binary
2467 Time Step No. = 300 Elapsed Time = 9.304805E+00 days
2468 Date: 02/14/07 Time: 10:56:15 CPU Time: 0 0: 0:48.47 (48.47 sec) Binary
2470 Time Step No. = 320 Elapsed Time = 3.446185E+01 days
2471 Date: 02/14/07 Time: 10:56:19 CPU Time: 0 0: 0:52.69 (52.69 sec) Binary
2473 Time Step No. = 340 Elapsed Time = 3.301301E+02 days
2474 Date: 02/14/07 Time: 10:56:23 CPU Time: 0 0: 0:56.67 (56.67 sec) Binary
2476 Time Step No. = 360 Elapsed Time = 3.883799E+03 days
2477 Date: 02/14/07 Time: 10:56:28 CPU Time: 0 0: 1: 2.15 (62.15 sec) Binary
2479 Time Step No. = 380 Elapsed Time = 9.380975E+03 days
2480 Date: 02/14/07 Time: 10:56:34 CPU Time: 0 0: 1: 7.17 (67.17 sec) Binary
2482 Time Step No. = 400 Elapsed Time = 1.987397E+04 days
2483 Date: 02/14/07 Time: 10:56:38 CPU Time: 0 0: 1:11.27 (71.27 sec) Binary
2485 Time Step No. = 420 Elapsed Time = 2.958099E+04 days
2486 Date: 02/14/07 Time: 10:56:45 CPU Time: 0 0: 1:18.41 (78.41 sec) Binary
2488 Time Step No. = 440 Elapsed Time = 3.655662E+04 days
2489 Date: 02/14/07 Time: 10:56:50 CPU Time: 0 0: 1:24.10 (84.10 sec) Binary
2491 Time Step No. = 460 Elapsed Time = 3.667440E+04 days
2492 Date: 02/14/07 Time: 10:56:53 CPU Time: 0 0: 1:26.44 (86.44 sec) Binary
2494 Time Step No. = 480 Elapsed Time = 3.673678E+04 days
2495 Date: 02/14/07 Time: 10:56:55 CPU Time: 0 0: 1:28.76 (88.76 sec) Binary
2497 Time Step No. = 500 Elapsed Time = 3.915452E+04 days
2498 Date: 02/14/07 Time: 10:56:59 CPU Time: 0 0: 1:33.00 (93.00 sec) Binary
2500 Time Step No. = 520 Elapsed Time = 7.353667E+04 days
2501 Date: 02/14/07 Time: 10:57:06 CPU Time: 0 0: 1:39.56 (99.56 sec) Binary
2503 Time Step No. = 540 Elapsed Time = 1.617796E+05 days
2504 Date: 02/14/07 Time: 10:57:15 CPU Time: 0 0: 1:48.89 (108.89 sec) Binary
2506 Time Step No. = 560 Elapsed Time = 1.667678E+05 days
2507 Date: 02/14/07 Time: 10:57:24 CPU Time: 0 0: 1:57.56 (117.56 sec) Binary
2509 Time Step No. = 580 Elapsed Time = 1.677068E+05 days
2510 Date: 02/14/07 Time: 10:57:28 CPU Time: 0 0: 2: 1.68 (121.68 sec) Binary
2512 Time Step No. = 600 Elapsed Time = 1.761057E+05 days
2513 Date: 02/14/07 Time: 10:57:34 CPU Time: 0 0: 2: 7.75 (127.75 sec) Binary
2515 Time Step No. = 620 Elapsed Time = 2.548561E+05 days
2516 Date: 02/14/07 Time: 10:57:42 CPU Time: 0 0: 2:15.38 (135.38 sec) Binary
2518 Time Step No. = 640 Elapsed Time = 3.342697E+05 days
2519 Date: 02/14/07 Time: 10:57:50 CPU Time: 0 0: 2:23.70 (143.70 sec) Binary
2521 Time Step No. = 660 Elapsed Time = 3.395756E+05 days
2522 Date: 02/14/07 Time: 10:57:59 CPU Time: 0 0: 2:32.72 (152.72 sec) Binary
2524 Time Step No. = 680 Elapsed Time = 3.398686E+05 days
2525 Date: 02/14/07 Time: 10:58:02 CPU Time: 0 0: 2:35.42 (155.42 sec) Binary
2527 Time Step No. = 700 Elapsed Time = 3.453184E+05 days
2528 Date: 02/14/07 Time: 10:58:08 CPU Time: 0 0: 2:40.94 (160.94 sec) Binary
2530 Time Step No. = 720 Elapsed Time = 3.619564E+05 days
2531 Date: 02/14/07 Time: 10:58:14 CPU Time: 0 0: 2:47.74 (167.74 sec) Binary
2533 Time Step No. = 740 Elapsed Time = 3.652437E+05 days
2534 Date: 02/14/07 Time: 10:58:18 CPU Time: 0 0: 2:51.72 (171.72 sec) Binary
2536 Time Step No. = 760 Elapsed Time = 3.652836E+05 days
2537 Date: 02/14/07 Time: 10:58:22 CPU Time: 0 0: 2:55.60 (175.60 sec) Binary
2539 Time Step No. = 780 Elapsed Time = 3.659700E+05 days
2540 Date: 02/14/07 Time: 10:58:27 CPU Time: 0 0: 3: 0.18 (180.18 sec) Binary
2542 Time Step No. = 800 Elapsed Time = 3.665230E+05 days
2543 Date: 02/14/07 Time: 10:58:29 CPU Time: 0 0: 3: 1.78 (181.78 sec) Binary
2545 Time Step No. = 820 Elapsed Time = 3.666753E+05 days
2546 Date: 02/14/07 Time: 10:58:30 CPU Time: 0 0: 3: 3.25 (183.25 sec) Binary
2548 Time Step No. = 840 Elapsed Time = 3.798850E+05 days
2549 Date: 02/14/07 Time: 10:58:34 CPU Time: 0 0: 3: 7.13 (187.13 sec) Binary
2551 Time Step No. = 860 Elapsed Time = 3.879056E+05 days
2552 Date: 02/14/07 Time: 10:58:38 CPU Time: 0 0: 3:11.42 (191.42 sec) Binary
2554 Time Step No. = 880 Elapsed Time = 3.946995E+05 days

2555 Date: 02/14/07 Time: 10:58:47 CPU Time: 0 0: 3:20.16 (200.16 sec) Binary
2557 Time Step No. = 900 Elapsed Time = 3.975263E+05 days
2558 Date: 02/14/07 Time: 10:58:52 CPU Time: 0 0: 3:25.26 (205.26 sec) Binary
2560 Time Step No. = 920 Elapsed Time = 4.345875E+05 days
2561 Date: 02/14/07 Time: 10:58:59 CPU Time: 0 0: 3:31.96 (211.96 sec) Binary
2563 Time Step No. = 940 Elapsed Time = 4.372829E+05 days
2564 Date: 02/14/07 Time: 10:59:04 CPU Time: 0 0: 3:36.87 (216.87 sec) Binary
2566 Time Step No. = 960 Elapsed Time = 4.689932E+05 days
2567 Date: 02/14/07 Time: 10:59:12 CPU Time: 0 0: 3:44.66 (224.66 sec) Binary
2569 Time Step No. = 980 Elapsed Time = 4.690669E+05 days
2570 Date: 02/14/07 Time: 10:59:15 CPU Time: 0 0: 3:48.50 (228.50 sec) Binary
2572 Time Step No. = 1000 Elapsed Time = 4.692436E+05 days
2573 Date: 02/14/07 Time: 10:59:21 CPU Time: 0 0: 3:53.67 (233.67 sec) Binary
2575 Time Step No. = 1020 Elapsed Time = 4.727425E+05 days
2576 Date: 02/14/07 Time: 10:59:24 CPU Time: 0 0: 3:56.80 (236.80 sec) Binary
2578 Time Step No. = 1040 Elapsed Time = 4.959067E+05 days
2579 Date: 02/14/07 Time: 10:59:31 CPU Time: 0 0: 4: 3.91 (243.91 sec) Binary
2581 Time Step No. = 1060 Elapsed Time = 4.961354E+05 days
2582 Date: 02/14/07 Time: 10:59:37 CPU Time: 0 0: 4: 9.69 (249.69 sec) Binary
2584 Time Step No. = 1080 Elapsed Time = 4.962283E+05 days
2585 Date: 02/14/07 Time: 10:59:40 CPU Time: 0 0: 4:13.59 (253.59 sec) Binary
2587 Time Step No. = 1100 Elapsed Time = 4.963551E+05 days
2588 Date: 02/14/07 Time: 10:59:46 CPU Time: 0 0: 4:19.44 (259.44 sec) Binary
2590 Time Step No. = 1120 Elapsed Time = 4.965395E+05 days
2591 Date: 02/14/07 Time: 10:59:51 CPU Time: 0 0: 4:23.92 (263.92 sec) Binary
2593 Time Step No. = 1140 Elapsed Time = 4.967846E+05 days
2594 Date: 02/14/07 Time: 10:59:56 CPU Time: 0 0: 4:28.89 (268.89 sec) Binary
2596 Time Step No. = 1160 Elapsed Time = 4.970089E+05 days
2597 Date: 02/14/07 Time: 11:00:00 CPU Time: 0 0: 4:33.12 (273.12 sec) Binary
2599 Time Step No. = 1180 Elapsed Time = 5.106798E+05 days
2600 Date: 02/14/07 Time: 11:00:04 CPU Time: 0 0: 4:37.25 (277.25 sec) Binary
2602 Time Step No. = 1200 Elapsed Time = 6.282308E+05 days
2603 Date: 02/14/07 Time: 11:00:11 CPU Time: 0 0: 4:44.32 (284.32 sec) Binary
2605 Time Step No. = 1220 Elapsed Time = 6.292016E+05 days
2606 Date: 02/14/07 Time: 11:00:16 CPU Time: 0 0: 4:49.05 (289.05 sec) Binary
2608 Time Step No. = 1240 Elapsed Time = 6.724873E+05 days
2609 Date: 02/14/07 Time: 11:00:20 CPU Time: 0 0: 4:52.72 (292.72 sec) Binary
2611 Time Step No. = 1260 Elapsed Time = 7.595756E+05 days
2612 Date: 02/14/07 Time: 11:00:31 CPU Time: 0 0: 5: 3.66 (303.66 sec) Binary
2614 Time Step No. = 1280 Elapsed Time = 7.597863E+05 days
2615 Date: 02/14/07 Time: 11:00:35 CPU Time: 0 0: 5: 7.67 (307.67 sec) Binary
2617 Time Step No. = 1300 Elapsed Time = 7.652157E+05 days
2618 Date: 02/14/07 Time: 11:00:39 CPU Time: 0 0: 5:11.67 (311.67 sec) Binary
2620 Time Step No. = 1320 Elapsed Time = 9.698579E+05 days
2621 Date: 02/14/07 Time: 11:00:46 CPU Time: 0 0: 5:18.89 (318.89 sec) Binary
2623 Time Step No. = 1340 Elapsed Time = 1.034415E+06 days
2624 Date: 02/14/07 Time: 11:00:53 CPU Time: 0 0: 5:26.09 (326.09 sec) Binary
2626 Time Step No. = 1360 Elapsed Time = 1.037401E+06 days
2627 Date: 02/14/07 Time: 11:00:58 CPU Time: 0 0: 5:30.82 (330.82 sec) Binary
2629 Time Step No. = 1380 Elapsed Time = 1.041328E+06 days
2630 Date: 02/14/07 Time: 11:01:02 CPU Time: 0 0: 5:34.48 (334.48 sec) Binary
2632 Time Step No. = 1400 Elapsed Time = 1.098365E+06 days
2633 Date: 02/14/07 Time: 11:01:08 CPU Time: 0 0: 5:40.93 (340.93 sec) Binary
2635 Time Step No. = 1420 Elapsed Time = 1.141983E+06 days
2636 Date: 02/14/07 Time: 11:01:17 CPU Time: 0 0: 5:50.09 (350.09 sec) Binary
2638 Time Step No. = 1440 Elapsed Time = 1.153665E+06 days
2639 Date: 02/14/07 Time: 11:01:21 CPU Time: 0 0: 5:54.26 (354.26 sec) Binary
2641 Time Step No. = 1460 Elapsed Time = 1.335324E+06 days
2642 Date: 02/14/07 Time: 11:01:30 CPU Time: 0 0: 6: 2.50 (362.50 sec) Binary
2644 Time Step No. = 1480 Elapsed Time = 1.341276E+06 days
2645 Date: 02/14/07 Time: 11:01:36 CPU Time: 0 0: 6: 8.73 (368.73 sec) Binary
2647 Time Step No. = 1500 Elapsed Time = 1.507144E+06 days
2648 Date: 02/14/07 Time: 11:01:43 CPU Time: 0 0: 6:14.91 (374.91 sec) Binary
2650 Time Step No. = 1520 Elapsed Time = 1.542314E+06 days
2651 Date: 02/14/07 Time: 11:01:50 CPU Time: 0 0: 6:22.29 (382.29 sec) Binary
2653 Time Step No. = 1540 Elapsed Time = 1.584898E+06 days
2654 Date: 02/14/07 Time: 11:02:00 CPU Time: 0 0: 6:32.81 (392.81 sec) Binary
2656 Time Step No. = 1560 Elapsed Time = 1.593257E+06 days
2657 Date: 02/14/07 Time: 11:02:05 CPU Time: 0 0: 6:36.87 (396.87 sec) Binary
2659 Time Step No. = 1580 Elapsed Time = 1.610328E+06 days
2660 Date: 02/14/07 Time: 11:02:13 CPU Time: 0 0: 6:45.56 (405.56 sec) Binary
2662 Time Step No. = 1600 Elapsed Time = 1.612772E+06 days
2663 Date: 02/14/07 Time: 11:02:17 CPU Time: 0 0: 6:48.98 (408.98 sec) Binary
2665 Time Step No. = 1620 Elapsed Time = 1.644829E+06 days
2666 Date: 02/14/07 Time: 11:02:24 CPU Time: 0 0: 6:56.42 (416.42 sec) Binary
2668 Time Step No. = 1640 Elapsed Time = 1.647332E+06 days

2669 Date: 02/14/07 Time: 11:02:28 CPU Time: 0 0: 6:59.91 (419.91 sec) Binary
2671 Time Step No. = 1660 Elapsed Time = 1.676105E+06 days
2672 Date: 02/14/07 Time: 11:02:35 CPU Time: 0 0: 7: 7.59 (427.59 sec) Binary
2674 Time Step No. = 1680 Elapsed Time = 1.683726E+06 days
2675 Date: 02/14/07 Time: 11:02:42 CPU Time: 0 0: 7:14.06 (434.06 sec) Binary
2677 Time Step No. = 1700 Elapsed Time = 1.687797E+06 days
2678 Date: 02/14/07 Time: 11:02:48 CPU Time: 0 0: 7:20.11 (440.11 sec) Binary
2680 Time Step No. = 1720 Elapsed Time = 1.698092E+06 days
2681 Date: 02/14/07 Time: 11:02:56 CPU Time: 0 0: 7:28.01 (448.01 sec) Binary
2683 Time Step No. = 1740 Elapsed Time = 1.699011E+06 days
2684 Date: 02/14/07 Time: 11:03:00 CPU Time: 0 0: 7:32.64 (452.64 sec) Binary
2686 Time Step No. = 1760 Elapsed Time = 1.705672E+06 days
2687 Date: 02/14/07 Time: 11:03:06 CPU Time: 0 0: 7:38.35 (458.35 sec) Binary
2689 Time Step No. = 1780 Elapsed Time = 1.706405E+06 days
2690 Date: 02/14/07 Time: 11:03:10 CPU Time: 0 0: 7:42.29 (462.29 sec) Binary
2692 Time Step No. = 1800 Elapsed Time = 1.706652E+06 days
2693 Date: 02/14/07 Time: 11:03:14 CPU Time: 0 0: 7:46.06 (466.06 sec) Binary
2695 Time Step No. = 1820 Elapsed Time = 1.724983E+06 days
2696 Date: 02/14/07 Time: 11:03:17 CPU Time: 0 0: 7:49.61 (469.61 sec) Binary
2698 Time Step No. = 1840 Elapsed Time = 1.787596E+06 days
2699 Date: 02/14/07 Time: 11:03:25 CPU Time: 0 0: 7:57.37 (477.37 sec) Binary
2701 Time Step No. = 1860 Elapsed Time = 1.788665E+06 days
2702 Date: 02/14/07 Time: 11:03:28 CPU Time: 0 0: 8: 0.12 (480.12 sec) Binary
2704 Time Step No. = 1880 Elapsed Time = 1.881371E+06 days
2705 Date: 02/14/07 Time: 11:03:32 CPU Time: 0 0: 8: 4.17 (484.17 sec) Binary
2707 Time Step No. = 1900 Elapsed Time = 1.938667E+06 days
2708 Date: 02/14/07 Time: 11:03:38 CPU Time: 0 0: 8:10.51 (490.51 sec) Binary
2710 Time Step No. = 1920 Elapsed Time = 1.983257E+06 days
2711 Date: 02/14/07 Time: 11:03:45 CPU Time: 0 0: 8:17.07 (497.07 sec) Binary
2713 Time Step No. = 1940 Elapsed Time = 2.079511E+06 days
2714 Date: 02/14/07 Time: 11:03:51 CPU Time: 0 0: 8:22.72 (502.72 sec) Binary
2716 Time Step No. = 1960 Elapsed Time = 2.106284E+06 days
2717 Date: 02/14/07 Time: 11:03:56 CPU Time: 0 0: 8:28.44 (508.44 sec) Binary
2719 Time Step No. = 1980 Elapsed Time = 2.374555E+06 days
2720 Date: 02/14/07 Time: 11:04:00 CPU Time: 0 0: 8:32.04 (512.04 sec) Binary
2722 Time Step No. = 2000 Elapsed Time = 2.774555E+06 days
2723 Date: 02/14/07 Time: 11:04:04 CPU Time: 0 0: 8:35.52 (515.52 sec) Binary
2725 Time Step No. = 2020 Elapsed Time = 3.174555E+06 days
2726 Date: 02/14/07 Time: 11:04:07 CPU Time: 0 0: 8:39.03 (519.03 sec) Binary
2728 Time Step No. = 2040 Elapsed Time = 3.574555E+06 days
2729 Date: 02/14/07 Time: 11:04:11 CPU Time: 0 0: 8:42.52 (522.52 sec) Binary
2732 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
2450 Date: 02/14/07 Time: 10:05:57 CPU Time: 0 0: 0:36.32 (36.32 sec) ASCII
2452 Time Step No. = 210 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:05:57 CPU Time: 0 0: 0:36.32 (36.32 sec) Binary
2455 Time Step No. = 220 Elapsed Time = 2.536995E-06 days
2456 Date: 02/14/07 Time: 10:06:00 CPU Time: 0 0: 0:39.15 (39.15 sec) Binary
2458 Time Step No. = 240 Elapsed Time = 2.462139E-04 days
2459 Date: 02/14/07 Time: 10:06:03 CPU Time: 0 0: 0:41.76 (41.76 sec) Binary
2461 Time Step No. = 260 Elapsed Time = 2.138181E-02 days
2462 Date: 02/14/07 Time: 10:06:06 CPU Time: 0 0: 0:44.68 (44.68 sec) Binary
2464 Time Step No. = 280 Elapsed Time = 8.282803E-01 days
2465 Date: 02/14/07 Time: 10:06:11 CPU Time: 0 0: 0:49.77 (49.77 sec) Binary
2467 Time Step No. = 300 Elapsed Time = 9.304805E+00 days
2468 Date: 02/14/07 Time: 10:06:16 CPU Time: 0 0: 0:54.74 (54.74 sec) Binary
2470 Time Step No. = 320 Elapsed Time = 3.446185E+01 days
2471 Date: 02/14/07 Time: 10:06:21 CPU Time: 0 0: 0:59.75 (59.75 sec) Binary
2473 Time Step No. = 340 Elapsed Time = 3.301301E+02 days
2474 Date: 02/14/07 Time: 10:06:26 CPU Time: 0 0: 1: 4.51 (64.51 sec) Binary
2476 Time Step No. = 360 Elapsed Time = 3.883799E+03 days
2477 Date: 02/14/07 Time: 10:06:32 CPU Time: 0 0: 1:11.03 (71.03 sec) Binary
2479 Time Step No. = 380 Elapsed Time = 9.380975E+03 days
2480 Date: 02/14/07 Time: 10:06:38 CPU Time: 0 0: 1:17.01 (77.01 sec) Binary
2482 Time Step No. = 400 Elapsed Time = 1.987397E+04 days
2483 Date: 02/14/07 Time: 10:06:43 CPU Time: 0 0: 1:21.87 (81.87 sec) Binary
2485 Time Step No. = 420 Elapsed Time = 2.958099E+04 days
2486 Date: 02/14/07 Time: 10:06:51 CPU Time: 0 0: 1:30.13 (90.13 sec) Binary
2488 Time Step No. = 440 Elapsed Time = 3.655662E+04 days
2489 Date: 02/14/07 Time: 10:06:58 CPU Time: 0 0: 1:36.74 (96.74 sec) Binary
2491 Time Step No. = 460 Elapsed Time = 3.667440E+04 days
2492 Date: 02/14/07 Time: 10:07:01 CPU Time: 0 0: 1:39.47 (99.47 sec) Binary
2494 Time Step No. = 480 Elapsed Time = 3.673678E+04 days
2495 Date: 02/14/07 Time: 10:07:03 CPU Time: 0 0: 1:42.19 (102.19 sec) Binary
2497 Time Step No. = 500 Elapsed Time = 3.915452E+04 days

2498 Date: 02/14/07 Time: 10:07:08 CPU Time: 0 0: 1:47.08 (107.08 sec) Binary
2500 Time Step No. = 520 Elapsed Time = 7.353667E+04 days
2501 Date: 02/14/07 Time: 10:07:16 CPU Time: 0 0: 1:54.69 (114.69 sec) Binary
2503 Time Step No. = 540 Elapsed Time = 1.617796E+05 days
2504 Date: 02/14/07 Time: 10:07:27 CPU Time: 0 0: 2: 5.58 (125.58 sec) Binary
2506 Time Step No. = 560 Elapsed Time = 1.667678E+05 days
2507 Date: 02/14/07 Time: 10:07:38 CPU Time: 0 0: 2:15.94 (135.94 sec) Binary
2509 Time Step No. = 580 Elapsed Time = 1.677068E+05 days
2510 Date: 02/14/07 Time: 10:07:42 CPU Time: 0 0: 2:20.84 (140.84 sec) Binary
2512 Time Step No. = 600 Elapsed Time = 1.761057E+05 days
2513 Date: 02/14/07 Time: 10:07:50 CPU Time: 0 0: 2:28.08 (148.08 sec) Binary
2515 Time Step No. = 620 Elapsed Time = 2.548561E+05 days
2516 Date: 02/14/07 Time: 10:07:59 CPU Time: 0 0: 2:37.21 (157.21 sec) Binary
2518 Time Step No. = 640 Elapsed Time = 3.342697E+05 days
2519 Date: 02/14/07 Time: 10:08:08 CPU Time: 0 0: 2:46.85 (166.85 sec) Binary
2521 Time Step No. = 660 Elapsed Time = 3.395756E+05 days
2522 Date: 02/14/07 Time: 10:08:19 CPU Time: 0 0: 2:57.26 (177.26 sec) Binary
2524 Time Step No. = 680 Elapsed Time = 3.398686E+05 days
2525 Date: 02/14/07 Time: 10:08:22 CPU Time: 0 0: 3: 0.38 (180.38 sec) Binary
2527 Time Step No. = 700 Elapsed Time = 3.453184E+05 days
2528 Date: 02/14/07 Time: 10:08:29 CPU Time: 0 0: 3: 6.81 (186.81 sec) Binary
2530 Time Step No. = 720 Elapsed Time = 3.619564E+05 days
2531 Date: 02/14/07 Time: 10:08:37 CPU Time: 0 0: 3:14.71 (194.71 sec) Binary
2533 Time Step No. = 740 Elapsed Time = 3.652437E+05 days
2534 Date: 02/14/07 Time: 10:08:41 CPU Time: 0 0: 3:19.35 (199.35 sec) Binary
2536 Time Step No. = 760 Elapsed Time = 3.652836E+05 days
2537 Date: 02/14/07 Time: 10:08:46 CPU Time: 0 0: 3:23.87 (203.87 sec) Binary
2539 Time Step No. = 780 Elapsed Time = 3.659700E+05 days
2540 Date: 02/14/07 Time: 10:08:51 CPU Time: 0 0: 3:29.19 (209.19 sec) Binary
2542 Time Step No. = 800 Elapsed Time = 3.665230E+05 days
2543 Date: 02/14/07 Time: 10:08:53 CPU Time: 0 0: 3:31.08 (211.08 sec) Binary
2545 Time Step No. = 820 Elapsed Time = 3.666753E+05 days
2546 Date: 02/14/07 Time: 10:08:55 CPU Time: 0 0: 3:32.81 (212.81 sec) Binary
2548 Time Step No. = 840 Elapsed Time = 3.798850E+05 days
2549 Date: 02/14/07 Time: 10:08:59 CPU Time: 0 0: 3:37.33 (217.33 sec) Binary
2551 Time Step No. = 860 Elapsed Time = 3.879056E+05 days
2552 Date: 02/14/07 Time: 10:09:04 CPU Time: 0 0: 3:42.32 (222.32 sec) Binary
2554 Time Step No. = 880 Elapsed Time = 3.946995E+05 days
2555 Date: 02/14/07 Time: 10:09:14 CPU Time: 0 0: 3:52.50 (232.50 sec) Binary
2557 Time Step No. = 900 Elapsed Time = 3.975263E+05 days
2558 Date: 02/14/07 Time: 10:09:20 CPU Time: 0 0: 3:58.42 (238.42 sec) Binary
2560 Time Step No. = 920 Elapsed Time = 4.345875E+05 days
2561 Date: 02/14/07 Time: 10:09:28 CPU Time: 0 0: 4: 6.20 (246.20 sec) Binary
2563 Time Step No. = 940 Elapsed Time = 4.372829E+05 days
2564 Date: 02/14/07 Time: 10:09:34 CPU Time: 0 0: 4:11.92 (251.92 sec) Binary
2566 Time Step No. = 960 Elapsed Time = 4.689932E+05 days
2567 Date: 02/14/07 Time: 10:09:43 CPU Time: 0 0: 4:20.97 (260.97 sec) Binary
2569 Time Step No. = 980 Elapsed Time = 4.690669E+05 days
2570 Date: 02/14/07 Time: 10:09:47 CPU Time: 0 0: 4:25.42 (265.42 sec) Binary
2572 Time Step No. = 1000 Elapsed Time = 4.692436E+05 days
2573 Date: 02/14/07 Time: 10:09:53 CPU Time: 0 0: 4:31.41 (271.41 sec) Binary
2575 Time Step No. = 1020 Elapsed Time = 4.727425E+05 days
2576 Date: 02/14/07 Time: 10:09:57 CPU Time: 0 0: 4:35.07 (275.07 sec) Binary
2578 Time Step No. = 1040 Elapsed Time = 4.959067E+05 days
2579 Date: 02/14/07 Time: 10:10:05 CPU Time: 0 0: 4:43.30 (283.30 sec) Binary
2581 Time Step No. = 1060 Elapsed Time = 4.961354E+05 days
2582 Date: 02/14/07 Time: 10:10:12 CPU Time: 0 0: 4:50.00 (290.00 sec) Binary
2584 Time Step No. = 1080 Elapsed Time = 4.962283E+05 days
2585 Date: 02/14/07 Time: 10:10:17 CPU Time: 0 0: 4:54.52 (294.52 sec) Binary
2587 Time Step No. = 1100 Elapsed Time = 4.963551E+05 days
2588 Date: 02/14/07 Time: 10:10:23 CPU Time: 0 0: 5: 1.30 (301.30 sec) Binary
2590 Time Step No. = 1120 Elapsed Time = 4.965395E+05 days
2591 Date: 02/14/07 Time: 10:10:29 CPU Time: 0 0: 5: 6.50 (306.50 sec) Binary
2593 Time Step No. = 1140 Elapsed Time = 4.967846E+05 days
2594 Date: 02/14/07 Time: 10:10:34 CPU Time: 0 0: 5:12.30 (312.30 sec) Binary
2596 Time Step No. = 1160 Elapsed Time = 4.970089E+05 days
2597 Date: 02/14/07 Time: 10:10:39 CPU Time: 0 0: 5:17.24 (317.24 sec) Binary
2599 Time Step No. = 1180 Elapsed Time = 5.106798E+05 days
2600 Date: 02/14/07 Time: 10:10:44 CPU Time: 0 0: 5:22.04 (322.04 sec) Binary
2602 Time Step No. = 1200 Elapsed Time = 6.282308E+05 days
2603 Date: 02/14/07 Time: 10:10:52 CPU Time: 0 0: 5:30.27 (330.27 sec) Binary
2605 Time Step No. = 1220 Elapsed Time = 6.292016E+05 days
2606 Date: 02/14/07 Time: 10:10:58 CPU Time: 0 0: 5:35.80 (335.80 sec) Binary
2608 Time Step No. = 1240 Elapsed Time = 6.724873E+05 days
2609 Date: 02/14/07 Time: 10:11:02 CPU Time: 0 0: 5:40.05 (340.05 sec) Binary
2611 Time Step No. = 1260 Elapsed Time = 7.595756E+05 days

2612 Date: 02/14/07 Time: 10:11:15 CPU Time: 0 0: 5:52.78 (352.78 sec) Binary
2614 Time Step No. = 1280 Elapsed Time = 7.597863E+05 days
2615 Date: 02/14/07 Time: 10:11:20 CPU Time: 0 0: 5:57.45 (357.45 sec) Binary
2617 Time Step No. = 1300 Elapsed Time = 7.652157E+05 days
2618 Date: 02/14/07 Time: 10:11:24 CPU Time: 0 0: 6: 2.12 (362.12 sec) Binary
2620 Time Step No. = 1320 Elapsed Time = 9.698579E+05 days
2621 Date: 02/14/07 Time: 10:11:33 CPU Time: 0 0: 6:10.51 (370.51 sec) Binary
2623 Time Step No. = 1340 Elapsed Time = 1.034415E+06 days
2624 Date: 02/14/07 Time: 10:11:41 CPU Time: 0 0: 6:18.90 (378.90 sec) Binary
2626 Time Step No. = 1360 Elapsed Time = 1.037401E+06 days
2627 Date: 02/14/07 Time: 10:11:47 CPU Time: 0 0: 6:24.43 (384.43 sec) Binary
2629 Time Step No. = 1380 Elapsed Time = 1.041328E+06 days
2630 Date: 02/14/07 Time: 10:11:51 CPU Time: 0 0: 6:28.69 (388.69 sec) Binary
2632 Time Step No. = 1400 Elapsed Time = 1.098365E+06 days
2633 Date: 02/14/07 Time: 10:11:58 CPU Time: 0 0: 6:36.19 (396.19 sec) Binary
2635 Time Step No. = 1420 Elapsed Time = 1.141983E+06 days
2636 Date: 02/14/07 Time: 10:12:09 CPU Time: 0 0: 6:46.82 (406.82 sec) Binary
2638 Time Step No. = 1440 Elapsed Time = 1.153665E+06 days
2639 Date: 02/14/07 Time: 10:12:14 CPU Time: 0 0: 6:51.69 (411.69 sec) Binary
2641 Time Step No. = 1460 Elapsed Time = 1.335324E+06 days
2642 Date: 02/14/07 Time: 10:12:24 CPU Time: 0 0: 7: 1.26 (421.26 sec) Binary
2644 Time Step No. = 1480 Elapsed Time = 1.341276E+06 days
2645 Date: 02/14/07 Time: 10:12:31 CPU Time: 0 0: 7: 8.51 (428.51 sec) Binary
2647 Time Step No. = 1500 Elapsed Time = 1.507144E+06 days
2648 Date: 02/14/07 Time: 10:12:38 CPU Time: 0 0: 7:15.72 (435.72 sec) Binary
2650 Time Step No. = 1520 Elapsed Time = 1.542314E+06 days
2651 Date: 02/14/07 Time: 10:12:47 CPU Time: 0 0: 7:24.30 (444.30 sec) Binary
2653 Time Step No. = 1540 Elapsed Time = 1.584898E+06 days
2654 Date: 02/14/07 Time: 10:12:59 CPU Time: 0 0: 7:36.54 (456.54 sec) Binary
2656 Time Step No. = 1560 Elapsed Time = 1.593257E+06 days
2657 Date: 02/14/07 Time: 10:13:04 CPU Time: 0 0: 7:41.28 (461.28 sec) Binary
2659 Time Step No. = 1580 Elapsed Time = 1.610328E+06 days
2660 Date: 02/14/07 Time: 10:13:14 CPU Time: 0 0: 7:51.37 (471.37 sec) Binary
2662 Time Step No. = 1600 Elapsed Time = 1.612772E+06 days
2663 Date: 02/14/07 Time: 10:13:18 CPU Time: 0 0: 7:55.37 (475.37 sec) Binary
2665 Time Step No. = 1620 Elapsed Time = 1.644829E+06 days
2666 Date: 02/14/07 Time: 10:13:27 CPU Time: 0 0: 8: 4.04 (484.04 sec) Binary
2668 Time Step No. = 1640 Elapsed Time = 1.647332E+06 days
2669 Date: 02/14/07 Time: 10:13:31 CPU Time: 0 0: 8: 8.12 (488.12 sec) Binary
2671 Time Step No. = 1660 Elapsed Time = 1.676105E+06 days
2672 Date: 02/14/07 Time: 10:13:40 CPU Time: 0 0: 8:17.22 (497.22 sec) Binary
2674 Time Step No. = 1680 Elapsed Time = 1.683726E+06 days
2675 Date: 02/14/07 Time: 10:13:48 CPU Time: 0 0: 8:24.92 (504.92 sec) Binary
2677 Time Step No. = 1700 Elapsed Time = 1.687797E+06 days
2678 Date: 02/14/07 Time: 10:13:55 CPU Time: 0 0: 8:32.14 (512.14 sec) Binary
2680 Time Step No. = 1720 Elapsed Time = 1.698092E+06 days
2681 Date: 02/14/07 Time: 10:14:04 CPU Time: 0 0: 8:41.64 (521.64 sec) Binary
2683 Time Step No. = 1740 Elapsed Time = 1.699011E+06 days
2684 Date: 02/14/07 Time: 10:14:10 CPU Time: 0 0: 8:47.29 (527.29 sec) Binary
2686 Time Step No. = 1760 Elapsed Time = 1.705672E+06 days
2687 Date: 02/14/07 Time: 10:14:17 CPU Time: 0 0: 8:53.97 (533.97 sec) Binary
2689 Time Step No. = 1780 Elapsed Time = 1.706405E+06 days
2690 Date: 02/14/07 Time: 10:14:21 CPU Time: 0 0: 8:58.55 (538.55 sec) Binary
2692 Time Step No. = 1800 Elapsed Time = 1.706652E+06 days
2693 Date: 02/14/07 Time: 10:14:26 CPU Time: 0 0: 9: 2.91 (542.91 sec) Binary
2695 Time Step No. = 1820 Elapsed Time = 1.724983E+06 days
2696 Date: 02/14/07 Time: 10:14:30 CPU Time: 0 0: 9: 7.00 (547.00 sec) Binary
2698 Time Step No. = 1840 Elapsed Time = 1.787596E+06 days
2699 Date: 02/14/07 Time: 10:14:39 CPU Time: 0 0: 9:15.99 (555.99 sec) Binary
2701 Time Step No. = 1860 Elapsed Time = 1.788665E+06 days
2702 Date: 02/14/07 Time: 10:14:42 CPU Time: 0 0: 9:19.13 (559.13 sec) Binary
2704 Time Step No. = 1880 Elapsed Time = 1.881371E+06 days
2705 Date: 02/14/07 Time: 10:14:47 CPU Time: 0 0: 9:23.80 (563.80 sec) Binary
2707 Time Step No. = 1900 Elapsed Time = 1.938667E+06 days
2708 Date: 02/14/07 Time: 10:14:54 CPU Time: 0 0: 9:31.13 (571.13 sec) Binary
2710 Time Step No. = 1920 Elapsed Time = 1.983257E+06 days
2711 Date: 02/14/07 Time: 10:15:02 CPU Time: 0 0: 9:38.72 (578.72 sec) Binary
2713 Time Step No. = 1940 Elapsed Time = 2.079511E+06 days
2714 Date: 02/14/07 Time: 10:15:08 CPU Time: 0 0: 9:45.27 (585.27 sec) Binary
2716 Time Step No. = 1960 Elapsed Time = 2.106284E+06 days
2717 Date: 02/14/07 Time: 10:15:15 CPU Time: 0 0: 9:51.89 (591.89 sec) Binary
2719 Time Step No. = 1980 Elapsed Time = 2.374555E+06 days
2720 Date: 02/14/07 Time: 10:15:19 CPU Time: 0 0: 9:56.08 (596.08 sec) Binary
2722 Time Step No. = 2000 Elapsed Time = 2.774555E+06 days
2723 Date: 02/14/07 Time: 10:15:23 CPU Time: 0 0:10: 0.12 (600.12 sec) Binary
2725 Time Step No. = 2020 Elapsed Time = 3.174555E+06 days

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2726 Date: 02/14/07 Time: 10:15:27 CPU Time: 0 0:10: 4.14 ( 604.14 sec) Binary
2728 Time Step No. = 2040 Elapsed Time = 3.574555E+06 days
2729 Date: 02/14/07 Time: 10:15:31 CPU Time: 0 0:10: 8.18 ( 608.18 sec) Binary
2732 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
2748 CPU Time (this time step) = 0.18 sec = 0.00005 hr
2749 CPU Time (total for run) = 523.22 sec = 0.14534 hr
2750 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
2748 CPU Time (this time step) = 0.21 sec = 0.00006 hr
2749 CPU Time (total for run) = 608.99 sec = 0.16916 hr
2750 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
3426 Date: 02/14/07 Time: 11:04:11 CPU Time: 0 0: 8:43.23 ( 523.23 sec) ASCII
3428 Time Step No. = 2044 Elapsed Time = 3.652431E+06 days
3429 Date: 02/14/07 Time: 11:04:11 CPU Time: 0 0: 8:43.24 ( 523.24 sec) Binary
3434 *****
3435 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3436 * Completed: 02/14/07 at 11:04:11 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
3437 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
3426 Date: 02/14/07 Time: 10:15:32 CPU Time: 0 0:10: 9.01 ( 609.01 sec) ASCII
3428 Time Step No. = 2044 Elapsed Time = 3.652431E+06 days
3429 Date: 02/14/07 Time: 10:15:32 CPU Time: 0 0:10: 9.02 ( 609.02 sec) Binary
3434 *****
3435 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3436 * Completed: 02/14/07 at 10:15:32 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3437 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 204

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
```

BF2_QB0600_ES45_TEST7_V016_OUT.DIF

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*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
3 ** Begun on: 02/14/07 at 10:57:53 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
3 ** Begun on: 02/14/07 at 10:07:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_TEST7_V016.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_CLOSURE.DAT;1
67 *****
*****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
1772 CPU Time (this time step) = 0.17 sec = 0.00005 hr
1773 CPU Time (total for run) = 19.12 sec = 0.00531 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
1772 CPU Time (this time step) = 0.18 sec = 0.00005 hr
1773 CPU Time (total for run) = 21.00 sec = 0.00583 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
2450 Date: 02/14/07 Time: 10:58:12 CPU Time: 0 0: 0:19.13 ( 19.13 sec) ASCII
2452 Time Step No. = 126 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:58:12 CPU Time: 0 0: 0:19.13 ( 19.13 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 5.018459E-01 days
2456 Date: 02/14/07 Time: 10:58:15 CPU Time: 0 0: 0:21.69 ( 21.69 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 4.491969E+01 days
2459 Date: 02/14/07 Time: 10:58:18 CPU Time: 0 0: 0:25.19 ( 25.19 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.751377E+03 days
2462 Date: 02/14/07 Time: 10:58:23 CPU Time: 0 0: 0:29.88 ( 29.88 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 1.890365E+04 days
2465 Date: 02/14/07 Time: 10:58:28 CPU Time: 0 0: 0:35.49 ( 35.49 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.653346E+04 days
2468 Date: 02/14/07 Time: 10:58:34 CPU Time: 0 0: 0:40.86 ( 40.86 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.666151E+04 days
2471 Date: 02/14/07 Time: 10:58:38 CPU Time: 0 0: 0:44.93 ( 44.93 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.667459E+04 days
2474 Date: 02/14/07 Time: 10:58:40 CPU Time: 0 0: 0:46.76 ( 46.76 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.759885E+04 days
2477 Date: 02/14/07 Time: 10:58:43 CPU Time: 0 0: 0:50.36 ( 50.36 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 7.590037E+04 days
2480 Date: 02/14/07 Time: 10:58:49 CPU Time: 0 0: 0:56.44 ( 56.44 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 8.991400E+04 days
2483 Date: 02/14/07 Time: 10:58:58 CPU Time: 0 0: 1: 4.90 ( 64.90 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 9.405817E+04 days
2486 Date: 02/14/07 Time: 10:59:02 CPU Time: 0 0: 1: 9.41 ( 69.41 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 1.044295E+05 days
2489 Date: 02/14/07 Time: 10:59:09 CPU Time: 0 0: 1:16.40 ( 76.40 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 1.125125E+05 days
```

2492 Date: 02/14/07 Time: 10:59:18 CPU Time: 0 0: 1:24.48 (84.48 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 1.133195E+05 days
2495 Date: 02/14/07 Time: 10:59:22 CPU Time: 0 0: 1:29.01 (89.01 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 1.135730E+05 days
2498 Date: 02/14/07 Time: 10:59:27 CPU Time: 0 0: 1:34.16 (94.16 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 1.168842E+05 days
2501 Date: 02/14/07 Time: 10:59:33 CPU Time: 0 0: 1:39.61 (99.61 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 1.332167E+05 days
2504 Date: 02/14/07 Time: 10:59:39 CPU Time: 0 0: 1:46.21 (106.21 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 1.516402E+05 days
2507 Date: 02/14/07 Time: 10:59:47 CPU Time: 0 0: 1:54.16 (114.16 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 1.516853E+05 days
2510 Date: 02/14/07 Time: 10:59:52 CPU Time: 0 0: 1:58.68 (118.68 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 1.529846E+05 days
2513 Date: 02/14/07 Time: 10:59:56 CPU Time: 0 0: 2: 2.98 (122.98 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 1.811566E+05 days
2516 Date: 02/14/07 Time: 11:00:01 CPU Time: 0 0: 2: 8.20 (128.20 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 3.652431E+05 days
2519 Date: 02/14/07 Time: 11:00:12 CPU Time: 0 0: 2:18.42 (138.42 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 3.652431E+05 days
2522 Date: 02/14/07 Time: 11:00:14 CPU Time: 0 0: 2:20.77 (140.77 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 3.652431E+05 days
2525 Date: 02/14/07 Time: 11:00:16 CPU Time: 0 0: 2:23.11 (143.11 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 3.652439E+05 days
2528 Date: 02/14/07 Time: 11:00:19 CPU Time: 0 0: 2:25.52 (145.52 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.652792E+05 days
2531 Date: 02/14/07 Time: 11:00:22 CPU Time: 0 0: 2:29.07 (149.07 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.655581E+05 days
2534 Date: 02/14/07 Time: 11:00:27 CPU Time: 0 0: 2:33.64 (153.64 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 3.665267E+05 days
2537 Date: 02/14/07 Time: 11:00:32 CPU Time: 0 0: 2:38.75 (158.75 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 3.665372E+05 days
2540 Date: 02/14/07 Time: 11:00:34 CPU Time: 0 0: 2:40.63 (160.63 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.673325E+05 days
2543 Date: 02/14/07 Time: 11:00:37 CPU Time: 0 0: 2:44.13 (164.13 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.680882E+05 days
2546 Date: 02/14/07 Time: 11:00:42 CPU Time: 0 0: 2:49.23 (169.23 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.755154E+05 days
2549 Date: 02/14/07 Time: 11:00:48 CPU Time: 0 0: 2:54.39 (174.39 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.884150E+05 days
2552 Date: 02/14/07 Time: 11:00:55 CPU Time: 0 0: 3: 1.38 (181.38 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 4.398143E+05 days
2555 Date: 02/14/07 Time: 11:01:01 CPU Time: 0 0: 3: 7.52 (187.52 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 4.509745E+05 days
2558 Date: 02/14/07 Time: 11:01:05 CPU Time: 0 0: 3:11.51 (191.51 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 6.255136E+05 days
2561 Date: 02/14/07 Time: 11:01:13 CPU Time: 0 0: 3:19.83 (199.83 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 7.581150E+05 days
2564 Date: 02/14/07 Time: 11:01:21 CPU Time: 0 0: 3:27.28 (207.28 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 7.985275E+05 days
2567 Date: 02/14/07 Time: 11:01:28 CPU Time: 0 0: 3:34.56 (214.56 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.153809E+06 days
2570 Date: 02/14/07 Time: 11:01:34 CPU Time: 0 0: 3:41.03 (221.03 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.553206E+06 days
2573 Date: 02/14/07 Time: 11:01:41 CPU Time: 0 0: 3:47.33 (227.33 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.821876E+06 days
2576 Date: 02/14/07 Time: 11:01:49 CPU Time: 0 0: 3:55.47 (235.47 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.917947E+06 days
2579 Date: 02/14/07 Time: 11:01:56 CPU Time: 0 0: 4: 2.82 (242.82 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.957679E+06 days
2582 Date: 02/14/07 Time: 11:02:02 CPU Time: 0 0: 4: 8.20 (248.20 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 2.019375E+06 days
2585 Date: 02/14/07 Time: 11:02:10 CPU Time: 0 0: 4:16.40 (256.40 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 2.057381E+06 days
2588 Date: 02/14/07 Time: 11:02:16 CPU Time: 0 0: 4:22.55 (262.55 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 2.150225E+06 days
2591 Date: 02/14/07 Time: 11:02:25 CPU Time: 0 0: 4:31.86 (271.86 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 2.169380E+06 days
2594 Date: 02/14/07 Time: 11:02:31 CPU Time: 0 0: 4:37.29 (277.29 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.200608E+06 days
2597 Date: 02/14/07 Time: 11:02:37 CPU Time: 0 0: 4:43.29 (283.29 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 2.279722E+06 days
2600 Date: 02/14/07 Time: 11:02:44 CPU Time: 0 0: 4:50.57 (290.57 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 2.312949E+06 days
2603 Date: 02/14/07 Time: 11:02:51 CPU Time: 0 0: 4:57.12 (297.12 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 2.348360E+06 days

2606 Date: 02/14/07 Time: 11:02:58 CPU Time: 0 0: 5: 4.54 (304.54 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 2.361300E+06 days
2609 Date: 02/14/07 Time: 11:03:05 CPU Time: 0 0: 5:11.49 (311.49 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 2.395228E+06 days
2612 Date: 02/14/07 Time: 11:03:12 CPU Time: 0 0: 5:18.77 (318.77 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 2.420598E+06 days
2615 Date: 02/14/07 Time: 11:03:19 CPU Time: 0 0: 5:25.66 (325.66 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 2.469898E+06 days
2618 Date: 02/14/07 Time: 11:03:25 CPU Time: 0 0: 5:31.62 (331.62 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 2.523884E+06 days
2621 Date: 02/14/07 Time: 11:03:31 CPU Time: 0 0: 5:37.40 (337.40 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 2.597076E+06 days
2624 Date: 02/14/07 Time: 11:03:38 CPU Time: 0 0: 5:44.72 (344.72 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 2.686846E+06 days
2627 Date: 02/14/07 Time: 11:03:44 CPU Time: 0 0: 5:50.23 (350.23 sec) Binary
2629 Time Step No. = 1300 Elapsed Time = 2.711337E+06 days
2630 Date: 02/14/07 Time: 11:03:51 CPU Time: 0 0: 5:57.35 (357.35 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 2.802768E+06 days
2633 Date: 02/14/07 Time: 11:03:58 CPU Time: 0 0: 6: 4.32 (364.32 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 3.010581E+06 days
2636 Date: 02/14/07 Time: 11:04:02 CPU Time: 0 0: 6: 8.09 (368.09 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 3.410581E+06 days
2639 Date: 02/14/07 Time: 11:04:05 CPU Time: 0 0: 6:11.71 (371.71 sec) Binary
2642 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
2450 Date: 02/14/07 Time: 10:07:46 CPU Time: 0 0: 0:21.02 (21.02 sec) ASCII
2452 Time Step No. = 126 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:07:46 CPU Time: 0 0: 0:21.02 (21.02 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 5.018459E-01 days
2456 Date: 02/14/07 Time: 10:07:49 CPU Time: 0 0: 0:23.84 (23.84 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 4.491969E+01 days
2459 Date: 02/14/07 Time: 10:07:52 CPU Time: 0 0: 0:27.68 (27.68 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.751377E+03 days
2462 Date: 02/14/07 Time: 10:07:58 CPU Time: 0 0: 0:32.84 (32.84 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 1.890365E+04 days
2465 Date: 02/14/07 Time: 10:08:04 CPU Time: 0 0: 0:38.99 (38.99 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.653346E+04 days
2468 Date: 02/14/07 Time: 10:08:10 CPU Time: 0 0: 0:44.91 (44.91 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.666151E+04 days
2471 Date: 02/14/07 Time: 10:08:14 CPU Time: 0 0: 0:49.40 (49.40 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.667459E+04 days
2474 Date: 02/14/07 Time: 10:08:16 CPU Time: 0 0: 0:51.41 (51.41 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.759885E+04 days
2477 Date: 02/14/07 Time: 10:08:20 CPU Time: 0 0: 0:55.38 (55.38 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 7.590037E+04 days
2480 Date: 02/14/07 Time: 10:08:27 CPU Time: 0 0: 1: 2.06 (62.06 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 8.991400E+04 days
2483 Date: 02/14/07 Time: 10:08:36 CPU Time: 0 0: 1:11.39 (71.39 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 9.405817E+04 days
2486 Date: 02/14/07 Time: 10:08:41 CPU Time: 0 0: 1:16.37 (76.37 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 1.044295E+05 days
2489 Date: 02/14/07 Time: 10:08:49 CPU Time: 0 0: 1:24.07 (84.07 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 1.125125E+05 days
2492 Date: 02/14/07 Time: 10:08:58 CPU Time: 0 0: 1:32.97 (92.97 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 1.133195E+05 days
2495 Date: 02/14/07 Time: 10:09:03 CPU Time: 0 0: 1:37.96 (97.96 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 1.135730E+05 days
2498 Date: 02/14/07 Time: 10:09:09 CPU Time: 0 0: 1:43.65 (103.65 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 1.168842E+05 days
2501 Date: 02/14/07 Time: 10:09:15 CPU Time: 0 0: 1:49.65 (109.65 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 1.332167E+05 days
2504 Date: 02/14/07 Time: 10:09:22 CPU Time: 0 0: 1:56.91 (116.91 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 1.516402E+05 days
2507 Date: 02/14/07 Time: 10:09:31 CPU Time: 0 0: 2: 5.66 (125.66 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 1.516853E+05 days
2510 Date: 02/14/07 Time: 10:09:36 CPU Time: 0 0: 2:10.65 (130.65 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 1.529846E+05 days
2513 Date: 02/14/07 Time: 10:09:41 CPU Time: 0 0: 2:15.39 (135.39 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 1.811566E+05 days
2516 Date: 02/14/07 Time: 10:09:46 CPU Time: 0 0: 2:21.13 (141.13 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 3.652431E+05 days
2519 Date: 02/14/07 Time: 10:09:58 CPU Time: 0 0: 2:32.36 (152.36 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 3.652431E+05 days
2522 Date: 02/14/07 Time: 10:10:00 CPU Time: 0 0: 2:34.95 (154.95 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 3.652431E+05 days

2525 Date: 02/14/07 Time: 10:10:03 CPU Time: 0 0: 2:37.54 (157.54 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 3.652439E+05 days
2528 Date: 02/14/07 Time: 10:10:06 CPU Time: 0 0: 2:40.20 (160.20 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.652792E+05 days
2531 Date: 02/14/07 Time: 10:10:10 CPU Time: 0 0: 2:44.42 (164.42 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.655581E+05 days
2534 Date: 02/14/07 Time: 10:10:15 CPU Time: 0 0: 2:49.86 (169.86 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 3.665267E+05 days
2537 Date: 02/14/07 Time: 10:10:21 CPU Time: 0 0: 2:55.92 (175.92 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 3.665372E+05 days
2540 Date: 02/14/07 Time: 10:10:24 CPU Time: 0 0: 2:58.18 (178.18 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.673325E+05 days
2543 Date: 02/14/07 Time: 10:10:28 CPU Time: 0 0: 3: 2.35 (182.35 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.680882E+05 days
2546 Date: 02/14/07 Time: 10:10:34 CPU Time: 0 0: 3: 8.39 (188.39 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.755154E+05 days
2549 Date: 02/14/07 Time: 10:10:40 CPU Time: 0 0: 3:14.51 (194.51 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.884150E+05 days
2552 Date: 02/14/07 Time: 10:10:48 CPU Time: 0 0: 3:22.79 (202.79 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 4.398143E+05 days
2555 Date: 02/14/07 Time: 10:10:56 CPU Time: 0 0: 3:30.06 (210.06 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 4.509745E+05 days
2558 Date: 02/14/07 Time: 10:11:00 CPU Time: 0 0: 3:34.82 (214.82 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 6.255136E+05 days
2561 Date: 02/14/07 Time: 10:11:10 CPU Time: 0 0: 3:44.66 (224.66 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 7.581150E+05 days
2564 Date: 02/14/07 Time: 10:11:19 CPU Time: 0 0: 3:53.47 (233.47 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 7.985275E+05 days
2567 Date: 02/14/07 Time: 10:11:28 CPU Time: 0 0: 4: 2.08 (242.08 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.153809E+06 days
2570 Date: 02/14/07 Time: 10:11:35 CPU Time: 0 0: 4: 9.73 (249.73 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.553206E+06 days
2573 Date: 02/14/07 Time: 10:11:43 CPU Time: 0 0: 4:17.36 (257.36 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.821876E+06 days
2576 Date: 02/14/07 Time: 10:11:53 CPU Time: 0 0: 4:27.18 (267.18 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.917947E+06 days
2579 Date: 02/14/07 Time: 10:12:02 CPU Time: 0 0: 4:36.04 (276.04 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.957679E+06 days
2582 Date: 02/14/07 Time: 10:12:08 CPU Time: 0 0: 4:42.58 (282.58 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 2.019375E+06 days
2585 Date: 02/14/07 Time: 10:12:18 CPU Time: 0 0: 4:52.52 (292.52 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 2.057381E+06 days
2588 Date: 02/14/07 Time: 10:12:26 CPU Time: 0 0: 4:59.94 (299.94 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 2.150225E+06 days
2591 Date: 02/14/07 Time: 10:12:37 CPU Time: 0 0: 5:11.16 (311.16 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 2.169380E+06 days
2594 Date: 02/14/07 Time: 10:12:44 CPU Time: 0 0: 5:17.74 (317.74 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.200608E+06 days
2597 Date: 02/14/07 Time: 10:12:51 CPU Time: 0 0: 5:25.01 (325.01 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 2.279722E+06 days
2600 Date: 02/14/07 Time: 10:13:00 CPU Time: 0 0: 5:33.82 (333.82 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 2.312949E+06 days
2603 Date: 02/14/07 Time: 10:13:08 CPU Time: 0 0: 5:41.72 (341.72 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 2.348360E+06 days
2606 Date: 02/14/07 Time: 10:13:17 CPU Time: 0 0: 5:50.60 (350.60 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 2.361300E+06 days
2609 Date: 02/14/07 Time: 10:13:25 CPU Time: 0 0: 5:58.80 (358.80 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 2.395228E+06 days
2612 Date: 02/14/07 Time: 10:13:33 CPU Time: 0 0: 6: 7.41 (367.41 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 2.420598E+06 days
2615 Date: 02/14/07 Time: 10:13:41 CPU Time: 0 0: 6:15.34 (375.34 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 2.469898E+06 days
2618 Date: 02/14/07 Time: 10:13:48 CPU Time: 0 0: 6:22.23 (382.23 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 2.523884E+06 days
2621 Date: 02/14/07 Time: 10:13:55 CPU Time: 0 0: 6:28.91 (388.91 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 2.597076E+06 days
2624 Date: 02/14/07 Time: 10:14:03 CPU Time: 0 0: 6:37.21 (397.21 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 2.686846E+06 days
2627 Date: 02/14/07 Time: 10:14:09 CPU Time: 0 0: 6:43.28 (403.28 sec) Binary
2629 Time Step No. = 1300 Elapsed Time = 2.711337E+06 days
2630 Date: 02/14/07 Time: 10:14:17 CPU Time: 0 0: 6:51.12 (411.12 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 2.802768E+06 days
2633 Date: 02/14/07 Time: 10:14:25 CPU Time: 0 0: 6:58.83 (418.83 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 3.010581E+06 days
2636 Date: 02/14/07 Time: 10:14:29 CPU Time: 0 0: 7: 3.01 (423.01 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 3.410581E+06 days

```
2639 Date: 02/14/07 Time: 10:14:33 CPU Time: 0 0: 7: 6.99 ( 426.99 sec) Binary
2642 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
2658 CPU Time (this time step) = 0.12 sec = 0.00003 hr
2659 CPU Time (total for run) = 374.46 sec = 0.10402 hr
2660 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
2658 CPU Time (this time step) = 0.13 sec = 0.00004 hr
2659 CPU Time (total for run) = 430.01 sec = 0.11945 hr
2660 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
3336 Date: 02/14/07 Time: 11:04:08 CPU Time: 0 0: 6:14.48 ( 374.48 sec) ASCII
3338 Time Step No. = 1373 Elapsed Time = 3.652431E+06 days
3339 Date: 02/14/07 Time: 11:04:08 CPU Time: 0 0: 6:14.48 ( 374.48 sec) Binary
3344 *****
3345 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3346 * Completed: 02/14/07 at 11:04:08 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
3347 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
3336 Date: 02/14/07 Time: 10:14:36 CPU Time: 0 0: 7:10.01 ( 430.01 sec) ASCII
3338 Time Step No. = 1373 Elapsed Time = 3.652431E+06 days
3339 Date: 02/14/07 Time: 10:14:36 CPU Time: 0 0: 7:10.01 ( 430.01 sec) Binary
3344 *****
3345 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3346 * Completed: 02/14/07 at 10:14:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3347 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 144

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
```

BF2_QB0600_ES45_TEST7_V017_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
3 ** Begun on: 02/14/07 at 11:04:15 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
3 ** Begun on: 02/14/07 at 10:14:48 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_TEST7_V017.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
```

```
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
1772 CPU Time (this time step) = 0.12 sec = 0.00003 hr
1773 CPU Time (total for run) = 20.50 sec = 0.00569 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 23.66 sec = 0.00657 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
2450 Date: 02/14/07 Time: 11:04:35 CPU Time: 0 0: 0:20.51 ( 20.51 sec) ASCII
2452 Time Step No. = 127 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 11:04:35 CPU Time: 0 0: 0:20.51 ( 20.51 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 4.081566E-01 days
2456 Date: 02/14/07 Time: 11:04:38 CPU Time: 0 0: 0:23.01 ( 23.01 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 3.566025E+01 days
2459 Date: 02/14/07 Time: 11:04:41 CPU Time: 0 0: 0:26.35 ( 26.35 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.805959E+03 days
2462 Date: 02/14/07 Time: 11:04:46 CPU Time: 0 0: 0:30.87 ( 30.87 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 1.071373E+04 days
2465 Date: 02/14/07 Time: 11:04:52 CPU Time: 0 0: 0:37.31 ( 37.31 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 2.383842E+04 days
2468 Date: 02/14/07 Time: 11:04:59 CPU Time: 0 0: 0:44.08 ( 44.08 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 2.798180E+04 days
2471 Date: 02/14/07 Time: 11:05:09 CPU Time: 0 0: 0:54.14 ( 54.14 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 2.847338E+04 days
2474 Date: 02/14/07 Time: 11:05:14 CPU Time: 0 0: 0:58.97 ( 58.97 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.652452E+04 days
2477 Date: 02/14/07 Time: 11:05:19 CPU Time: 0 0: 1: 3.61 ( 63.61 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.656711E+04 days
2480 Date: 02/14/07 Time: 11:05:23 CPU Time: 0 0: 1: 7.82 ( 67.82 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.666399E+04 days
2483 Date: 02/14/07 Time: 11:05:26 CPU Time: 0 0: 1:11.22 ( 71.22 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 3.668035E+04 days
2486 Date: 02/14/07 Time: 11:05:28 CPU Time: 0 0: 1:13.10 ( 73.10 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.804994E+04 days
2489 Date: 02/14/07 Time: 11:05:32 CPU Time: 0 0: 1:16.81 ( 76.81 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 4.830166E+04 days
2492 Date: 02/14/07 Time: 11:05:39 CPU Time: 0 0: 1:24.25 ( 84.25 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 5.127831E+04 days
```

2495 Date: 02/14/07 Time: 11:05:49 CPU Time: 0 0: 1:34.16 (94.16 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 5.134701E+04 days
2498 Date: 02/14/07 Time: 11:05:53 CPU Time: 0 0: 1:37.21 (97.21 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 5.218497E+04 days
2501 Date: 02/14/07 Time: 11:05:59 CPU Time: 0 0: 1:43.31 (103.31 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 6.083942E+04 days
2504 Date: 02/14/07 Time: 11:06:04 CPU Time: 0 0: 1:48.19 (108.19 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 7.130398E+04 days
2507 Date: 02/14/07 Time: 11:06:11 CPU Time: 0 0: 1:55.93 (115.93 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 7.759660E+04 days
2510 Date: 02/14/07 Time: 11:06:17 CPU Time: 0 0: 2: 1.66 (121.66 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 7.800566E+04 days
2513 Date: 02/14/07 Time: 11:06:24 CPU Time: 0 0: 2: 8.22 (128.22 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 7.817753E+04 days
2516 Date: 02/14/07 Time: 11:06:27 CPU Time: 0 0: 2:11.91 (131.91 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 8.514452E+04 days
2519 Date: 02/14/07 Time: 11:06:32 CPU Time: 0 0: 2:16.49 (136.49 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 1.017547E+05 days
2522 Date: 02/14/07 Time: 11:06:39 CPU Time: 0 0: 2:23.15 (143.15 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 1.389481E+05 days
2525 Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 2:32.43 (152.43 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 1.423530E+05 days
2528 Date: 02/14/07 Time: 11:06:54 CPU Time: 0 0: 2:38.27 (158.27 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 1.864304E+05 days
2531 Date: 02/14/07 Time: 11:06:59 CPU Time: 0 0: 2:43.48 (163.48 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 1.882230E+05 days
2534 Date: 02/14/07 Time: 11:07:06 CPU Time: 0 0: 2:50.19 (170.19 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 1.986077E+05 days
2537 Date: 02/14/07 Time: 11:07:11 CPU Time: 0 0: 2:55.37 (175.37 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 2.830917E+05 days
2540 Date: 02/14/07 Time: 11:07:21 CPU Time: 0 0: 3: 4.96 (184.96 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.158487E+05 days
2543 Date: 02/14/07 Time: 11:07:26 CPU Time: 0 0: 3:10.39 (190.39 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.652487E+05 days
2546 Date: 02/14/07 Time: 11:07:31 CPU Time: 0 0: 3:15.78 (195.78 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.653477E+05 days
2549 Date: 02/14/07 Time: 11:07:36 CPU Time: 0 0: 3:19.86 (199.86 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.666426E+05 days
2552 Date: 02/14/07 Time: 11:07:40 CPU Time: 0 0: 3:23.92 (203.92 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.666557E+05 days
2555 Date: 02/14/07 Time: 11:07:41 CPU Time: 0 0: 3:25.27 (205.27 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 3.676756E+05 days
2558 Date: 02/14/07 Time: 11:07:44 CPU Time: 0 0: 3:28.68 (208.68 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 4.168857E+05 days
2561 Date: 02/14/07 Time: 11:07:50 CPU Time: 0 0: 3:34.45 (214.45 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 4.834104E+05 days
2564 Date: 02/14/07 Time: 11:07:59 CPU Time: 0 0: 3:43.05 (223.05 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 6.250995E+05 days
2567 Date: 02/14/07 Time: 11:08:05 CPU Time: 0 0: 3:49.11 (229.11 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 6.472604E+05 days
2570 Date: 02/14/07 Time: 11:08:13 CPU Time: 0 0: 3:57.24 (237.24 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 8.509338E+05 days
2573 Date: 02/14/07 Time: 11:08:20 CPU Time: 0 0: 4: 4.45 (244.45 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 8.666179E+05 days
2576 Date: 02/14/07 Time: 11:08:26 CPU Time: 0 0: 4:10.32 (250.32 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 8.980547E+05 days
2579 Date: 02/14/07 Time: 11:08:35 CPU Time: 0 0: 4:19.18 (259.18 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 9.084805E+05 days
2582 Date: 02/14/07 Time: 11:08:42 CPU Time: 0 0: 4:26.23 (266.23 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 9.303573E+05 days
2585 Date: 02/14/07 Time: 11:08:51 CPU Time: 0 0: 4:34.95 (274.95 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 9.354913E+05 days
2588 Date: 02/14/07 Time: 11:08:57 CPU Time: 0 0: 4:40.44 (280.44 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 9.627726E+05 days
2591 Date: 02/14/07 Time: 11:09:04 CPU Time: 0 0: 4:47.62 (287.62 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 9.865575E+05 days
2594 Date: 02/14/07 Time: 11:09:13 CPU Time: 0 0: 4:57.01 (297.01 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 1.010557E+06 days
2597 Date: 02/14/07 Time: 11:09:19 CPU Time: 0 0: 5: 2.30 (302.30 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 1.037354E+06 days
2600 Date: 02/14/07 Time: 11:09:27 CPU Time: 0 0: 5:10.33 (310.33 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 1.044114E+06 days
2603 Date: 02/14/07 Time: 11:09:33 CPU Time: 0 0: 5:16.70 (316.70 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 1.051085E+06 days
2606 Date: 02/14/07 Time: 11:09:41 CPU Time: 0 0: 5:24.14 (324.14 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 1.056924E+06 days

2609 Date: 02/14/07 Time: 11:09:48 CPU Time: 0 0: 5:31.27 (331.27 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 1.069927E+06 days
2612 Date: 02/14/07 Time: 11:09:54 CPU Time: 0 0: 5:38.01 (338.01 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 1.074785E+06 days
2615 Date: 02/14/07 Time: 11:10:03 CPU Time: 0 0: 5:46.54 (346.54 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 1.098676E+06 days
2618 Date: 02/14/07 Time: 11:10:11 CPU Time: 0 0: 5:54.13 (354.13 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 1.104263E+06 days
2621 Date: 02/14/07 Time: 11:10:14 CPU Time: 0 0: 5:57.83 (357.83 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 1.154509E+06 days
2624 Date: 02/14/07 Time: 11:10:21 CPU Time: 0 0: 6: 4.32 (364.32 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 1.203455E+06 days
2627 Date: 02/14/07 Time: 11:10:27 CPU Time: 0 0: 6:10.87 (370.87 sec) Binary
2629 Time Step No. = 1300 Elapsed Time = 1.359187E+06 days
2630 Date: 02/14/07 Time: 11:10:31 CPU Time: 0 0: 6:14.45 (374.45 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 1.597020E+06 days
2633 Date: 02/14/07 Time: 11:10:39 CPU Time: 0 0: 6:22.30 (382.30 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 1.943096E+06 days
2636 Date: 02/14/07 Time: 11:10:43 CPU Time: 0 0: 6:26.01 (386.01 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 2.343096E+06 days
2639 Date: 02/14/07 Time: 11:10:46 CPU Time: 0 0: 6:29.72 (389.72 sec) Binary
2641 Time Step No. = 1380 Elapsed Time = 2.743096E+06 days
2642 Date: 02/14/07 Time: 11:10:50 CPU Time: 0 0: 6:33.42 (393.42 sec) Binary
2644 Time Step No. = 1400 Elapsed Time = 3.143096E+06 days
2645 Date: 02/14/07 Time: 11:10:54 CPU Time: 0 0: 6:37.02 (397.02 sec) Binary
2647 Time Step No. = 1420 Elapsed Time = 3.543096E+06 days
2648 Date: 02/14/07 Time: 11:10:57 CPU Time: 0 0: 6:40.61 (400.61 sec) Binary
2651 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
2450 Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:23.68 (23.68 sec) ASCII
2452 Time Step No. = 127 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:23.68 (23.68 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 4.081566E-01 days
2456 Date: 02/14/07 Time: 10:15:15 CPU Time: 0 0: 0:26.45 (26.45 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 3.566025E+01 days
2459 Date: 02/14/07 Time: 10:15:19 CPU Time: 0 0: 0:30.15 (30.15 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 1.805959E+03 days
2462 Date: 02/14/07 Time: 10:15:24 CPU Time: 0 0: 0:35.13 (35.13 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 1.071373E+04 days
2465 Date: 02/14/07 Time: 10:15:31 CPU Time: 0 0: 0:42.17 (42.17 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 2.383842E+04 days
2468 Date: 02/14/07 Time: 10:15:38 CPU Time: 0 0: 0:49.61 (49.61 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 2.798180E+04 days
2471 Date: 02/14/07 Time: 10:15:50 CPU Time: 0 0: 1: 0.82 (60.82 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 2.847338E+04 days
2474 Date: 02/14/07 Time: 10:15:55 CPU Time: 0 0: 1: 6.12 (66.12 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.652452E+04 days
2477 Date: 02/14/07 Time: 10:16:00 CPU Time: 0 0: 1:11.21 (71.21 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.656711E+04 days
2480 Date: 02/14/07 Time: 10:16:05 CPU Time: 0 0: 1:15.84 (75.84 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.666399E+04 days
2483 Date: 02/14/07 Time: 10:16:09 CPU Time: 0 0: 1:19.58 (79.58 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 3.668035E+04 days
2486 Date: 02/14/07 Time: 10:16:11 CPU Time: 0 0: 1:21.65 (81.65 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 3.804994E+04 days
2489 Date: 02/14/07 Time: 10:16:15 CPU Time: 0 0: 1:25.72 (85.72 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 4.830166E+04 days
2492 Date: 02/14/07 Time: 10:16:23 CPU Time: 0 0: 1:33.84 (93.84 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 5.127831E+04 days
2495 Date: 02/14/07 Time: 10:16:34 CPU Time: 0 0: 1:44.68 (104.68 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 5.134701E+04 days
2498 Date: 02/14/07 Time: 10:16:37 CPU Time: 0 0: 1:48.03 (108.03 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 5.218497E+04 days
2501 Date: 02/14/07 Time: 10:16:44 CPU Time: 0 0: 1:54.68 (114.68 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 6.083942E+04 days
2504 Date: 02/14/07 Time: 10:16:49 CPU Time: 0 0: 2: 0.04 (120.04 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 7.130398E+04 days
2507 Date: 02/14/07 Time: 10:16:58 CPU Time: 0 0: 2: 8.50 (128.50 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 7.759660E+04 days
2510 Date: 02/14/07 Time: 10:17:04 CPU Time: 0 0: 2:14.76 (134.76 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 7.800566E+04 days
2513 Date: 02/14/07 Time: 10:17:11 CPU Time: 0 0: 2:21.94 (141.94 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 7.817753E+04 days
2516 Date: 02/14/07 Time: 10:17:15 CPU Time: 0 0: 2:26.04 (146.04 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 8.514452E+04 days

2519 Date: 02/14/07 Time: 10:17:20 CPU Time: 0 0: 2:31.03 (151.03 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 1.017547E+05 days
2522 Date: 02/14/07 Time: 10:17:27 CPU Time: 0 0: 2:38.33 (158.33 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 1.389481E+05 days
2525 Date: 02/14/07 Time: 10:17:38 CPU Time: 0 0: 2:48.53 (168.53 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 1.423530E+05 days
2528 Date: 02/14/07 Time: 10:17:44 CPU Time: 0 0: 2:54.87 (174.87 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 1.864304E+05 days
2531 Date: 02/14/07 Time: 10:17:50 CPU Time: 0 0: 3: 0.63 (180.63 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 1.882230E+05 days
2534 Date: 02/14/07 Time: 10:17:57 CPU Time: 0 0: 3: 8.00 (188.00 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 1.986077E+05 days
2537 Date: 02/14/07 Time: 10:18:03 CPU Time: 0 0: 3:13.70 (193.70 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 2.830917E+05 days
2540 Date: 02/14/07 Time: 10:18:14 CPU Time: 0 0: 3:24.27 (204.27 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.158487E+05 days
2543 Date: 02/14/07 Time: 10:18:20 CPU Time: 0 0: 3:30.22 (210.22 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.652487E+05 days
2546 Date: 02/14/07 Time: 10:18:25 CPU Time: 0 0: 3:36.16 (216.16 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.653477E+05 days
2549 Date: 02/14/07 Time: 10:18:30 CPU Time: 0 0: 3:40.60 (220.60 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.666426E+05 days
2552 Date: 02/14/07 Time: 10:18:34 CPU Time: 0 0: 3:45.07 (225.07 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.666557E+05 days
2555 Date: 02/14/07 Time: 10:18:36 CPU Time: 0 0: 3:46.57 (226.57 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 3.676756E+05 days
2558 Date: 02/14/07 Time: 10:18:40 CPU Time: 0 0: 3:50.33 (230.33 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 4.168857E+05 days
2561 Date: 02/14/07 Time: 10:18:46 CPU Time: 0 0: 3:56.66 (236.66 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 4.834104E+05 days
2564 Date: 02/14/07 Time: 10:18:56 CPU Time: 0 0: 4: 6.11 (246.11 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 6.250995E+05 days
2567 Date: 02/14/07 Time: 10:19:02 CPU Time: 0 0: 4:12.76 (252.76 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 6.472604E+05 days
2570 Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0: 4:21.71 (261.71 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 8.509338E+05 days
2573 Date: 02/14/07 Time: 10:19:19 CPU Time: 0 0: 4:29.60 (269.60 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 8.666179E+05 days
2576 Date: 02/14/07 Time: 10:19:26 CPU Time: 0 0: 4:36.08 (276.08 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 8.980547E+05 days
2579 Date: 02/14/07 Time: 10:19:35 CPU Time: 0 0: 4:45.79 (285.79 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 9.084805E+05 days
2582 Date: 02/14/07 Time: 10:19:43 CPU Time: 0 0: 4:53.57 (293.57 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 9.303573E+05 days
2585 Date: 02/14/07 Time: 10:19:53 CPU Time: 0 0: 5: 3.15 (303.15 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 9.354913E+05 days
2588 Date: 02/14/07 Time: 10:19:59 CPU Time: 0 0: 5: 9.18 (309.18 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 9.627726E+05 days
2591 Date: 02/14/07 Time: 10:20:07 CPU Time: 0 0: 5:17.07 (317.07 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 9.865575E+05 days
2594 Date: 02/14/07 Time: 10:20:17 CPU Time: 0 0: 5:27.37 (327.37 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 1.010557E+06 days
2597 Date: 02/14/07 Time: 10:20:23 CPU Time: 0 0: 5:33.15 (333.15 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 1.037354E+06 days
2600 Date: 02/14/07 Time: 10:20:32 CPU Time: 0 0: 5:41.97 (341.97 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 1.044114E+06 days
2603 Date: 02/14/07 Time: 10:20:39 CPU Time: 0 0: 5:49.44 (349.44 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 1.051085E+06 days
2606 Date: 02/14/07 Time: 10:20:48 CPU Time: 0 0: 5:58.38 (358.38 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 1.056924E+06 days
2609 Date: 02/14/07 Time: 10:20:57 CPU Time: 0 0: 6: 6.96 (366.96 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 1.069927E+06 days
2612 Date: 02/14/07 Time: 10:21:05 CPU Time: 0 0: 6:15.06 (375.06 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 1.074785E+06 days
2615 Date: 02/14/07 Time: 10:21:15 CPU Time: 0 0: 6:25.12 (385.12 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 1.098676E+06 days
2618 Date: 02/14/07 Time: 10:21:24 CPU Time: 0 0: 6:34.07 (394.07 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 1.104263E+06 days
2621 Date: 02/14/07 Time: 10:21:29 CPU Time: 0 0: 6:38.45 (398.45 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 1.154509E+06 days
2624 Date: 02/14/07 Time: 10:21:36 CPU Time: 0 0: 6:46.09 (406.09 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 1.203455E+06 days
2627 Date: 02/14/07 Time: 10:21:44 CPU Time: 0 0: 6:53.55 (413.55 sec) Binary
2629 Time Step No. = 1300 Elapsed Time = 1.359187E+06 days
2630 Date: 02/14/07 Time: 10:21:48 CPU Time: 0 0: 6:57.51 (417.51 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 1.597020E+06 days

2633 Date: 02/14/07 Time: 10:21:56 CPU Time: 0 0: 7: 6.14 (426.14 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 1.943096E+06 days
2636 Date: 02/14/07 Time: 10:22:00 CPU Time: 0 0: 7:10.23 (430.23 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 2.343096E+06 days
2639 Date: 02/14/07 Time: 10:22:05 CPU Time: 0 0: 7:14.31 (434.31 sec) Binary
2641 Time Step No. = 1380 Elapsed Time = 2.743096E+06 days
2642 Date: 02/14/07 Time: 10:22:09 CPU Time: 0 0: 7:18.38 (438.38 sec) Binary
2644 Time Step No. = 1400 Elapsed Time = 3.143096E+06 days
2645 Date: 02/14/07 Time: 10:22:13 CPU Time: 0 0: 7:22.33 (442.33 sec) Binary
2647 Time Step No. = 1420 Elapsed Time = 3.543096E+06 days
2648 Date: 02/14/07 Time: 10:22:17 CPU Time: 0 0: 7:26.28 (446.28 sec) Binary
2651 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
2667 CPU Time (this time step) = 0.18 sec = 0.00005 hr
2668 CPU Time (total for run) = 401.69 sec = 0.11158 hr
2669 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
2667 CPU Time (this time step) = 0.19 sec = 0.00005 hr
2668 CPU Time (total for run) = 447.46 sec = 0.12429 hr
2669 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
3345 Date: 02/14/07 Time: 11:10:58 CPU Time: 0 0: 6:41.70 (401.70 sec) ASCII
3347 Time Step No. = 1426 Elapsed Time = 3.652431E+06 days
3348 Date: 02/14/07 Time: 11:10:58 CPU Time: 0 0: 6:41.70 (401.70 sec) Binary
3353 *****
3354 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3355 * Completed: 02/14/07 at 11:10:58 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
3356 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
3345 Date: 02/14/07 Time: 10:22:18 CPU Time: 0 0: 7:27.48 (447.48 sec) ASCII
3347 Time Step No. = 1426 Elapsed Time = 3.652431E+06 days
3348 Date: 02/14/07 Time: 10:22:18 CPU Time: 0 0: 7:27.48 (447.48 sec) Binary
3353 *****
3354 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3355 * Completed: 02/14/07 at 10:22:18 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3356 *****

Number of difference sections found: 11
Number of difference records found: 150

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1

BF2_QB0600_ES45_TEST7_V018_OUT.DIF

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
3 ** Begun on: 02/14/07 at 11:04:23 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
4 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
3 ** Begun on: 02/14/07 at 10:14:52 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_TEST7_V018.INP;2
62 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;2
62 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1

```
66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
1772 CPU Time (this time step) = 0.11 sec = 0.00003 hr
1773 CPU Time (total for run) = 17.85 sec = 0.00496 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
1772 CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773 CPU Time (total for run) = 19.84 sec = 0.00551 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
2450 Date: 02/14/07 Time: 11:04:41 CPU Time: 0 0: 0:17.86 ( 17.86 sec) ASCII
2452 Time Step No. = 126 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 11:04:41 CPU Time: 0 0: 0:17.87 ( 17.87 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 1.852005E-01 days
2456 Date: 02/14/07 Time: 11:04:43 CPU Time: 0 0: 0:20.32 ( 20.32 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 1.676048E+01 days
2459 Date: 02/14/07 Time: 11:04:46 CPU Time: 0 0: 0:23.53 ( 23.53 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 9.685600E+02 days
2462 Date: 02/14/07 Time: 11:04:51 CPU Time: 0 0: 0:28.06 ( 28.06 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 1.090054E+04 days
2465 Date: 02/14/07 Time: 11:04:57 CPU Time: 0 0: 0:33.92 ( 33.92 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.542607E+04 days
2468 Date: 02/14/07 Time: 11:05:05 CPU Time: 0 0: 0:42.41 ( 42.41 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.655532E+04 days
2471 Date: 02/14/07 Time: 11:05:11 CPU Time: 0 0: 0:48.21 ( 48.21 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.667264E+04 days
2474 Date: 02/14/07 Time: 11:05:13 CPU Time: 0 0: 0:50.21 ( 50.21 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.673502E+04 days
2477 Date: 02/14/07 Time: 11:05:16 CPU Time: 0 0: 0:52.73 ( 52.73 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.849232E+04 days
```


2480 Date: 02/14/07 Time: 11:05:20 CPU Time: 0 0: 0:57.10 (57.10 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 4.353267E+04 days
2483 Date: 02/14/07 Time: 11:05:28 CPU Time: 0 0: 1: 5.10 (65.10 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 8.646290E+04 days
2486 Date: 02/14/07 Time: 11:05:35 CPU Time: 0 0: 1:11.34 (71.34 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 1.956099E+05 days
2489 Date: 02/14/07 Time: 11:05:45 CPU Time: 0 0: 1:21.67 (81.67 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 2.537997E+05 days
2492 Date: 02/14/07 Time: 11:05:53 CPU Time: 0 0: 1:29.77 (89.77 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.654102E+05 days
2495 Date: 02/14/07 Time: 11:05:59 CPU Time: 0 0: 1:35.29 (95.29 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 3.660393E+05 days
2498 Date: 02/14/07 Time: 11:06:03 CPU Time: 0 0: 1:39.94 (99.94 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.665141E+05 days
2501 Date: 02/14/07 Time: 11:06:05 CPU Time: 0 0: 1:41.65 (101.65 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 3.666116E+05 days
2504 Date: 02/14/07 Time: 11:06:07 CPU Time: 0 0: 1:43.50 (103.50 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 3.698164E+05 days
2507 Date: 02/14/07 Time: 11:06:11 CPU Time: 0 0: 1:47.61 (107.61 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 3.836378E+05 days
2510 Date: 02/14/07 Time: 11:06:18 CPU Time: 0 0: 1:54.12 (114.12 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 4.773464E+05 days
2513 Date: 02/14/07 Time: 11:06:26 CPU Time: 0 0: 2: 2.31 (122.31 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 4.805632E+05 days
2516 Date: 02/14/07 Time: 11:06:31 CPU Time: 0 0: 2: 7.45 (127.45 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 6.090050E+05 days
2519 Date: 02/14/07 Time: 11:06:38 CPU Time: 0 0: 2:13.93 (133.93 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 6.642533E+05 days
2522 Date: 02/14/07 Time: 11:06:45 CPU Time: 0 0: 2:21.64 (141.64 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 6.660298E+05 days
2525 Date: 02/14/07 Time: 11:06:53 CPU Time: 0 0: 2:28.90 (148.90 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 6.750577E+05 days
2528 Date: 02/14/07 Time: 11:06:58 CPU Time: 0 0: 2:34.39 (154.39 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 8.117950E+05 days
2531 Date: 02/14/07 Time: 11:07:04 CPU Time: 0 0: 2:40.09 (160.09 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 8.733977E+05 days
2534 Date: 02/14/07 Time: 11:07:11 CPU Time: 0 0: 2:47.36 (167.36 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 8.853639E+05 days
2537 Date: 02/14/07 Time: 11:07:17 CPU Time: 0 0: 2:53.46 (173.46 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 8.877123E+05 days
2540 Date: 02/14/07 Time: 11:07:20 CPU Time: 0 0: 2:56.10 (176.10 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 8.965246E+05 days
2543 Date: 02/14/07 Time: 11:07:26 CPU Time: 0 0: 3: 2.50 (182.50 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 9.678193E+05 days
2546 Date: 02/14/07 Time: 11:07:32 CPU Time: 0 0: 3: 8.20 (188.20 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 9.824276E+05 days
2549 Date: 02/14/07 Time: 11:07:37 CPU Time: 0 0: 3:13.33 (193.33 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 1.079404E+06 days
2552 Date: 02/14/07 Time: 11:07:45 CPU Time: 0 0: 3:20.68 (200.68 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 1.220016E+06 days
2555 Date: 02/14/07 Time: 11:07:52 CPU Time: 0 0: 3:28.46 (208.46 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 1.358888E+06 days
2558 Date: 02/14/07 Time: 11:07:59 CPU Time: 0 0: 3:35.54 (215.54 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 1.367185E+06 days
2561 Date: 02/14/07 Time: 11:08:05 CPU Time: 0 0: 3:41.12 (221.12 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 1.592454E+06 days
2564 Date: 02/14/07 Time: 11:08:11 CPU Time: 0 0: 3:46.96 (226.96 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 1.607973E+06 days
2567 Date: 02/14/07 Time: 11:08:19 CPU Time: 0 0: 3:55.27 (235.27 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.611408E+06 days
2570 Date: 02/14/07 Time: 11:08:24 CPU Time: 0 0: 3:59.92 (239.92 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.629376E+06 days
2573 Date: 02/14/07 Time: 11:08:29 CPU Time: 0 0: 4: 5.38 (245.38 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.713757E+06 days
2576 Date: 02/14/07 Time: 11:08:34 CPU Time: 0 0: 4: 9.78 (249.78 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 2.091414E+06 days
2579 Date: 02/14/07 Time: 11:08:40 CPU Time: 0 0: 4:16.17 (256.17 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 2.491414E+06 days
2582 Date: 02/14/07 Time: 11:08:45 CPU Time: 0 0: 4:20.85 (260.85 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 2.635578E+06 days
2585 Date: 02/14/07 Time: 11:08:53 CPU Time: 0 0: 4:28.98 (268.98 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 2.775082E+06 days
2588 Date: 02/14/07 Time: 11:08:58 CPU Time: 0 0: 4:34.09 (274.09 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 3.175082E+06 days
2591 Date: 02/14/07 Time: 11:09:04 CPU Time: 0 0: 4:39.31 (279.31 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 3.575082E+06 days

2594 Date: 02/14/07 Time: 11:09:09 CPU Time: 0 0: 4:45.19 (285.19 sec) Binary
2597 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
2450 Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:19.85 (19.85 sec) ASCII
2452 Time Step No. = 126 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:19.85 (19.85 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 1.852005E-01 days
2456 Date: 02/14/07 Time: 10:15:15 CPU Time: 0 0: 0:22.75 (22.75 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 1.676048E+01 days
2459 Date: 02/14/07 Time: 10:15:19 CPU Time: 0 0: 0:26.53 (26.53 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 9.685600E+02 days
2462 Date: 02/14/07 Time: 10:15:24 CPU Time: 0 0: 0:31.89 (31.89 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 1.090054E+04 days
2465 Date: 02/14/07 Time: 10:15:31 CPU Time: 0 0: 0:38.77 (38.77 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 3.542607E+04 days
2468 Date: 02/14/07 Time: 10:15:41 CPU Time: 0 0: 0:48.73 (48.73 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.655532E+04 days
2471 Date: 02/14/07 Time: 10:15:48 CPU Time: 0 0: 0:55.72 (55.72 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.667264E+04 days
2474 Date: 02/14/07 Time: 10:15:51 CPU Time: 0 0: 0:58.16 (58.16 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.673502E+04 days
2477 Date: 02/14/07 Time: 10:15:54 CPU Time: 0 0: 1: 1.23 (61.23 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.849232E+04 days
2480 Date: 02/14/07 Time: 10:15:59 CPU Time: 0 0: 1: 6.47 (66.47 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 4.353267E+04 days
2483 Date: 02/14/07 Time: 10:16:09 CPU Time: 0 0: 1:15.69 (75.69 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 8.646290E+04 days
2486 Date: 02/14/07 Time: 10:16:16 CPU Time: 0 0: 1:22.85 (82.85 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 1.956099E+05 days
2489 Date: 02/14/07 Time: 10:16:27 CPU Time: 0 0: 1:34.60 (94.60 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 2.537997E+05 days
2492 Date: 02/14/07 Time: 10:16:37 CPU Time: 0 0: 1:43.87 (103.87 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.654102E+05 days
2495 Date: 02/14/07 Time: 10:16:43 CPU Time: 0 0: 1:50.19 (110.19 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 3.660393E+05 days
2498 Date: 02/14/07 Time: 10:16:48 CPU Time: 0 0: 1:55.53 (115.53 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.665141E+05 days
2501 Date: 02/14/07 Time: 10:16:50 CPU Time: 0 0: 1:57.53 (117.53 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 3.666116E+05 days
2504 Date: 02/14/07 Time: 10:16:53 CPU Time: 0 0: 1:59.66 (119.66 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 3.698164E+05 days
2507 Date: 02/14/07 Time: 10:16:57 CPU Time: 0 0: 2: 4.34 (124.34 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 3.836378E+05 days
2510 Date: 02/14/07 Time: 10:17:05 CPU Time: 0 0: 2:11.72 (131.72 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 4.773464E+05 days
2513 Date: 02/14/07 Time: 10:17:14 CPU Time: 0 0: 2:21.09 (141.09 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 4.805632E+05 days
2516 Date: 02/14/07 Time: 10:17:20 CPU Time: 0 0: 2:26.95 (146.95 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 6.090050E+05 days
2519 Date: 02/14/07 Time: 10:17:27 CPU Time: 0 0: 2:34.33 (154.33 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 6.642533E+05 days
2522 Date: 02/14/07 Time: 10:17:36 CPU Time: 0 0: 2:43.10 (163.10 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 6.660298E+05 days
2525 Date: 02/14/07 Time: 10:17:45 CPU Time: 0 0: 2:51.35 (171.35 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 6.750577E+05 days
2528 Date: 02/14/07 Time: 10:17:51 CPU Time: 0 0: 2:57.63 (177.63 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 8.117950E+05 days
2531 Date: 02/14/07 Time: 10:17:57 CPU Time: 0 0: 3: 4.15 (184.15 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 8.733977E+05 days
2534 Date: 02/14/07 Time: 10:18:06 CPU Time: 0 0: 3:12.64 (192.64 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 8.853639E+05 days
2537 Date: 02/14/07 Time: 10:18:13 CPU Time: 0 0: 3:20.01 (200.01 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 8.877123E+05 days
2540 Date: 02/14/07 Time: 10:18:17 CPU Time: 0 0: 3:23.23 (203.23 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 8.965246E+05 days
2543 Date: 02/14/07 Time: 10:18:24 CPU Time: 0 0: 3:30.91 (210.91 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 9.678193E+05 days
2546 Date: 02/14/07 Time: 10:18:31 CPU Time: 0 0: 3:37.77 (217.77 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 9.824276E+05 days
2549 Date: 02/14/07 Time: 10:18:37 CPU Time: 0 0: 3:43.96 (223.96 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 1.079404E+06 days
2552 Date: 02/14/07 Time: 10:18:46 CPU Time: 0 0: 3:52.82 (232.82 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 1.220016E+06 days
2555 Date: 02/14/07 Time: 10:18:56 CPU Time: 0 0: 4: 2.14 (242.14 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 1.358888E+06 days

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2558 Date: 02/14/07 Time: 10:19:04 CPU Time: 0 0: 4:10.66 ( 250.66 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 1.367185E+06 days
2561 Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0: 4:17.36 ( 257.36 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 1.592454E+06 days
2564 Date: 02/14/07 Time: 10:19:18 CPU Time: 0 0: 4:24.37 ( 264.37 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 1.607973E+06 days
2567 Date: 02/14/07 Time: 10:19:28 CPU Time: 0 0: 4:34.42 ( 274.42 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.611408E+06 days
2570 Date: 02/14/07 Time: 10:19:34 CPU Time: 0 0: 4:40.05 ( 280.05 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.629376E+06 days
2573 Date: 02/14/07 Time: 10:19:40 CPU Time: 0 0: 4:46.63 ( 286.63 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.713757E+06 days
2576 Date: 02/14/07 Time: 10:19:46 CPU Time: 0 0: 4:51.88 ( 291.88 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 2.091414E+06 days
2579 Date: 02/14/07 Time: 10:19:53 CPU Time: 0 0: 4:59.50 ( 299.50 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 2.491414E+06 days
2582 Date: 02/14/07 Time: 10:19:59 CPU Time: 0 0: 5: 5.09 ( 305.09 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 2.635578E+06 days
2585 Date: 02/14/07 Time: 10:20:09 CPU Time: 0 0: 5:14.88 ( 314.88 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 2.775082E+06 days
2588 Date: 02/14/07 Time: 10:20:15 CPU Time: 0 0: 5:20.98 ( 320.98 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 3.175082E+06 days
2591 Date: 02/14/07 Time: 10:20:21 CPU Time: 0 0: 5:27.20 ( 327.20 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 3.575082E+06 days
2594 Date: 02/14/07 Time: 10:20:28 CPU Time: 0 0: 5:34.26 ( 334.26 sec) Binary
2597 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
2613 CPU Time (this time step) = 0.23 sec = 0.00006 hr
2614 CPU Time (total for run) = 286.12 sec = 0.07948 hr
2615 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
2613 CPU Time (this time step) = 0.28 sec = 0.00008 hr
2614 CPU Time (total for run) = 335.38 sec = 0.09316 hr
2615 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
3291 Date: 02/14/07 Time: 11:09:10 CPU Time: 0 0: 4:46.15 ( 286.15 sec) ASCII
3293 Time Step No. = 1064 Elapsed Time = 3.652431E+06 days
3294 Date: 02/14/07 Time: 11:09:10 CPU Time: 0 0: 4:46.15 ( 286.15 sec) Binary
3299 *****
3300 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3301 * Completed: 02/14/07 at 11:09:10 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
3302 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
3291 Date: 02/14/07 Time: 10:20:29 CPU Time: 0 0: 5:35.39 ( 335.39 sec) ASCII
3293 Time Step No. = 1064 Elapsed Time = 3.652431E+06 days
3294 Date: 02/14/07 Time: 10:20:29 CPU Time: 0 0: 5:35.40 ( 335.40 sec) Binary
3299 *****
3300 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3301 * Completed: 02/14/07 at 10:20:29 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3302 *****
*****
Number of difference sections found: 11
Number of difference records found: 114
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
```

BF2_QB0600_ES45_TEST7_V019_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
3 ** Begun on: 02/14/07 at 11:04:26 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
```

```
3  ** Begun on: 02/14/07 at 10:15:39 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4  ****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
61  PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_TEST7_V019.INP;2
62  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
61  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;2
62  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
66  PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_CLOSURE.DAT;1
67  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
66  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_CLOSURE.DAT;1
67  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
71  PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
72  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
71  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
72  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
76  PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.SUM;1
77  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
76  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.SUM;1
77  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
81  PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.BIN;1
82  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
81  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.BIN;1
82  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
86  PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.ROT;1
87  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
86  PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.ROT;1
87  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
1772 CPU Time (this time step) = 0.11 sec = 0.00003 hr
1773 CPU Time (total for run) = 27.46 sec = 0.00763 hr
1774 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
1772 CPU Time (this time step) = 0.14 sec = 0.00004 hr
1773 CPU Time (total for run) = 32.43 sec = 0.00901 hr
1774 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
2450 Date: 02/14/07 Time: 11:04:53 CPU Time: 0 0: 0:27.48 ( 27.48 sec) ASCII
2452 Time Step No. = 156 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 11:04:53 CPU Time: 0 0: 0:27.48 ( 27.48 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 7.207031E-03 days
2456 Date: 02/14/07 Time: 11:04:56 CPU Time: 0 0: 0:29.91 ( 29.91 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 9.919446E-01 days
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2459 Date: 02/14/07 Time: 11:04:59 CPU Time: 0 0: 0:32.97 (32.97 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 5.981381E+01 days
2462 Date: 02/14/07 Time: 11:05:02 CPU Time: 0 0: 0:36.58 (36.58 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 8.084405E+02 days
2465 Date: 02/14/07 Time: 11:05:07 CPU Time: 0 0: 0:41.34 (41.34 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 6.597767E+03 days
2468 Date: 02/14/07 Time: 11:05:13 CPU Time: 0 0: 0:47.41 (47.41 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 8.104276E+03 days
2471 Date: 02/14/07 Time: 11:05:18 CPU Time: 0 0: 0:51.88 (51.88 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 1.013249E+04 days
2474 Date: 02/14/07 Time: 11:05:21 CPU Time: 0 0: 0:55.46 (55.46 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 1.796897E+04 days
2477 Date: 02/14/07 Time: 11:05:28 CPU Time: 0 0: 1: 1.64 (61.64 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 2.541947E+04 days
2480 Date: 02/14/07 Time: 11:05:32 CPU Time: 0 0: 1: 5.75 (65.75 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2483 Date: 02/14/07 Time: 11:05:36 CPU Time: 0 0: 1:10.51 (70.51 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 3.652446E+04 days
2486 Date: 02/14/07 Time: 11:05:41 CPU Time: 0 0: 1:15.25 (75.25 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 3.653794E+04 days
2489 Date: 02/14/07 Time: 11:05:44 CPU Time: 0 0: 1:18.01 (78.01 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 3.665472E+04 days
2492 Date: 02/14/07 Time: 11:05:47 CPU Time: 0 0: 1:21.01 (81.01 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 3.667516E+04 days
2495 Date: 02/14/07 Time: 11:05:49 CPU Time: 0 0: 1:23.01 (83.01 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 3.724922E+04 days
2498 Date: 02/14/07 Time: 11:05:53 CPU Time: 0 0: 1:26.96 (86.96 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 5.413046E+04 days
2501 Date: 02/14/07 Time: 11:05:58 CPU Time: 0 0: 1:31.93 (91.93 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 9.100708E+04 days
2504 Date: 02/14/07 Time: 11:06:07 CPU Time: 0 0: 1:41.24 (101.24 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 1.470830E+05 days
2507 Date: 02/14/07 Time: 11:06:14 CPU Time: 0 0: 1:47.76 (107.76 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 2.204613E+05 days
2510 Date: 02/14/07 Time: 11:06:23 CPU Time: 0 0: 1:57.01 (117.01 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 2.691848E+05 days
2513 Date: 02/14/07 Time: 11:06:31 CPU Time: 0 0: 2: 4.60 (124.60 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 2.832034E+05 days
2516 Date: 02/14/07 Time: 11:06:36 CPU Time: 0 0: 2: 9.11 (129.11 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 3.061970E+05 days
2519 Date: 02/14/07 Time: 11:06:43 CPU Time: 0 0: 2:16.26 (136.26 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 3.110361E+05 days
2522 Date: 02/14/07 Time: 11:06:50 CPU Time: 0 0: 2:23.98 (143.98 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 3.237666E+05 days
2525 Date: 02/14/07 Time: 11:06:59 CPU Time: 0 0: 2:32.63 (152.63 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 3.474124E+05 days
2528 Date: 02/14/07 Time: 11:07:04 CPU Time: 0 0: 2:37.36 (157.36 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 3.652525E+05 days
2531 Date: 02/14/07 Time: 11:07:10 CPU Time: 0 0: 2:43.48 (163.48 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 3.652719E+05 days
2534 Date: 02/14/07 Time: 11:07:16 CPU Time: 0 0: 2:49.09 (169.09 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 3.653962E+05 days
2537 Date: 02/14/07 Time: 11:07:21 CPU Time: 0 0: 2:54.12 (174.12 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 3.660809E+05 days
2540 Date: 02/14/07 Time: 11:07:26 CPU Time: 0 0: 2:59.60 (179.60 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 3.665917E+05 days
2543 Date: 02/14/07 Time: 11:07:28 CPU Time: 0 0: 3: 1.72 (181.72 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 3.666891E+05 days
2546 Date: 02/14/07 Time: 11:07:31 CPU Time: 0 0: 3: 4.24 (184.24 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.685642E+05 days
2549 Date: 02/14/07 Time: 11:07:37 CPU Time: 0 0: 3: 9.97 (189.97 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.704468E+05 days
2552 Date: 02/14/07 Time: 11:07:43 CPU Time: 0 0: 3:15.97 (195.97 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 3.728343E+05 days
2555 Date: 02/14/07 Time: 11:07:48 CPU Time: 0 0: 3:21.40 (201.40 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 3.808843E+05 days
2558 Date: 02/14/07 Time: 11:07:56 CPU Time: 0 0: 3:29.11 (209.11 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 3.829952E+05 days
2561 Date: 02/14/07 Time: 11:08:03 CPU Time: 0 0: 3:35.92 (215.92 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 3.831178E+05 days
2564 Date: 02/14/07 Time: 11:08:07 CPU Time: 0 0: 3:40.23 (220.23 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 3.834087E+05 days
2567 Date: 02/14/07 Time: 11:08:11 CPU Time: 0 0: 3:44.38 (224.38 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 3.859229E+05 days
2570 Date: 02/14/07 Time: 11:08:17 CPU Time: 0 0: 3:50.26 (230.26 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 3.893569E+05 days

2573 Date: 02/14/07 Time: 11:08:22 CPU Time: 0 0: 3:54.92 (234.92 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 3.936979E+05 days
2576 Date: 02/14/07 Time: 11:08:26 CPU Time: 0 0: 3:59.03 (239.03 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 4.144137E+05 days
2579 Date: 02/14/07 Time: 11:08:33 CPU Time: 0 0: 4: 6.15 (246.15 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 4.180260E+05 days
2582 Date: 02/14/07 Time: 11:08:40 CPU Time: 0 0: 4:12.55 (252.55 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 4.184906E+05 days
2585 Date: 02/14/07 Time: 11:08:44 CPU Time: 0 0: 4:16.58 (256.58 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 4.191714E+05 days
2588 Date: 02/14/07 Time: 11:08:50 CPU Time: 0 0: 4:22.67 (262.67 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 4.192872E+05 days
2591 Date: 02/14/07 Time: 11:08:53 CPU Time: 0 0: 4:25.37 (265.37 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 4.283116E+05 days
2594 Date: 02/14/07 Time: 11:08:57 CPU Time: 0 0: 4:30.16 (270.16 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 4.358680E+05 days
2597 Date: 02/14/07 Time: 11:09:02 CPU Time: 0 0: 4:34.91 (274.91 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 4.362891E+05 days
2600 Date: 02/14/07 Time: 11:09:08 CPU Time: 0 0: 4:40.80 (280.80 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 4.374193E+05 days
2603 Date: 02/14/07 Time: 11:09:11 CPU Time: 0 0: 4:44.17 (284.17 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 4.444218E+05 days
2606 Date: 02/14/07 Time: 11:09:17 CPU Time: 0 0: 4:50.12 (290.12 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 4.554530E+05 days
2609 Date: 02/14/07 Time: 11:09:23 CPU Time: 0 0: 4:55.97 (295.97 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 4.557350E+05 days
2612 Date: 02/14/07 Time: 11:09:28 CPU Time: 0 0: 5: 1.04 (301.04 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 4.578442E+05 days
2615 Date: 02/14/07 Time: 11:09:34 CPU Time: 0 0: 5: 6.61 (306.61 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 4.579509E+05 days
2618 Date: 02/14/07 Time: 11:09:41 CPU Time: 0 0: 5:13.51 (313.51 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 4.584427E+05 days
2621 Date: 02/14/07 Time: 11:09:48 CPU Time: 0 0: 5:20.28 (320.28 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 4.599440E+05 days
2624 Date: 02/14/07 Time: 11:09:51 CPU Time: 0 0: 5:23.46 (323.46 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 4.690229E+05 days
2627 Date: 02/14/07 Time: 11:09:58 CPU Time: 0 0: 5:30.48 (330.48 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 4.748604E+05 days
2630 Date: 02/14/07 Time: 11:10:06 CPU Time: 0 0: 5:39.00 (339.00 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 4.830762E+05 days
2633 Date: 02/14/07 Time: 11:10:13 CPU Time: 0 0: 5:45.21 (345.21 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 5.258526E+05 days
2636 Date: 02/14/07 Time: 11:10:19 CPU Time: 0 0: 5:51.98 (351.98 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 5.892641E+05 days
2639 Date: 02/14/07 Time: 11:10:26 CPU Time: 0 0: 5:58.10 (358.10 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 6.795923E+05 days
2642 Date: 02/14/07 Time: 11:10:32 CPU Time: 0 0: 6: 4.64 (364.64 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 6.868502E+05 days
2645 Date: 02/14/07 Time: 11:10:39 CPU Time: 0 0: 6:11.77 (371.77 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 7.652701E+05 days
2648 Date: 02/14/07 Time: 11:10:47 CPU Time: 0 0: 6:19.23 (379.23 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 7.968026E+05 days
2651 Date: 02/14/07 Time: 11:10:55 CPU Time: 0 0: 6:27.55 (387.55 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 8.666657E+05 days
2654 Date: 02/14/07 Time: 11:11:02 CPU Time: 0 0: 6:34.57 (394.57 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 8.983079E+05 days
2657 Date: 02/14/07 Time: 11:11:11 CPU Time: 0 0: 6:43.12 (403.12 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 9.551600E+05 days
2660 Date: 02/14/07 Time: 11:11:19 CPU Time: 0 0: 6:51.02 (411.02 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 9.998592E+05 days
2663 Date: 02/14/07 Time: 11:11:26 CPU Time: 0 0: 6:58.54 (418.54 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 1.085834E+06 days
2666 Date: 02/14/07 Time: 11:11:34 CPU Time: 0 0: 7: 5.80 (425.80 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 1.160714E+06 days
2669 Date: 02/14/07 Time: 11:11:39 CPU Time: 0 0: 7:11.34 (431.34 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 1.559652E+06 days
2672 Date: 02/14/07 Time: 11:11:45 CPU Time: 0 0: 7:17.15 (437.15 sec) Binary
2674 Time Step No. = 1620 Elapsed Time = 1.959652E+06 days
2675 Date: 02/14/07 Time: 11:11:51 CPU Time: 0 0: 7:22.69 (442.69 sec) Binary
2677 Time Step No. = 1640 Elapsed Time = 2.090782E+06 days
2678 Date: 02/14/07 Time: 11:11:59 CPU Time: 0 0: 7:31.49 (451.49 sec) Binary
2680 Time Step No. = 1660 Elapsed Time = 2.163373E+06 days
2681 Date: 02/14/07 Time: 11:12:04 CPU Time: 0 0: 7:36.55 (456.55 sec) Binary
2683 Time Step No. = 1680 Elapsed Time = 2.183046E+06 days
2684 Date: 02/14/07 Time: 11:12:11 CPU Time: 0 0: 7:43.44 (463.44 sec) Binary
2686 Time Step No. = 1700 Elapsed Time = 2.201300E+06 days

2687 Date: 02/14/07 Time: 11:12:20 CPU Time: 0 0: 7:51.71 (471.71 sec) Binary
2689 Time Step No. = 1720 Elapsed Time = 2.251091E+06 days
2690 Date: 02/14/07 Time: 11:12:26 CPU Time: 0 0: 7:57.91 (477.91 sec) Binary
2692 Time Step No. = 1740 Elapsed Time = 2.284094E+06 days
2693 Date: 02/14/07 Time: 11:12:33 CPU Time: 0 0: 8: 5.23 (485.23 sec) Binary
2695 Time Step No. = 1760 Elapsed Time = 2.528019E+06 days
2696 Date: 02/14/07 Time: 11:12:39 CPU Time: 0 0: 8:11.54 (491.54 sec) Binary
2698 Time Step No. = 1780 Elapsed Time = 2.550069E+06 days
2699 Date: 02/14/07 Time: 11:12:45 CPU Time: 0 0: 8:16.73 (496.73 sec) Binary
2701 Time Step No. = 1800 Elapsed Time = 2.589298E+06 days
2702 Date: 02/14/07 Time: 11:12:51 CPU Time: 0 0: 8:23.27 (503.27 sec) Binary
2704 Time Step No. = 1820 Elapsed Time = 2.727802E+06 days
2705 Date: 02/14/07 Time: 11:12:58 CPU Time: 0 0: 8:30.29 (510.29 sec) Binary
2707 Time Step No. = 1840 Elapsed Time = 2.763509E+06 days
2708 Date: 02/14/07 Time: 11:13:02 CPU Time: 0 0: 8:34.42 (514.42 sec) Binary
2710 Time Step No. = 1860 Elapsed Time = 2.944745E+06 days
2711 Date: 02/14/07 Time: 11:13:10 CPU Time: 0 0: 8:41.67 (521.67 sec) Binary
2713 Time Step No. = 1880 Elapsed Time = 3.202991E+06 days
2714 Date: 02/14/07 Time: 11:13:17 CPU Time: 0 0: 8:48.79 (528.79 sec) Binary
2716 Time Step No. = 1900 Elapsed Time = 3.339934E+06 days
2717 Date: 02/14/07 Time: 11:13:21 CPU Time: 0 0: 8:52.60 (532.60 sec) Binary
2720 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA: [ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
2450 Date: 02/14/07 Time: 10:16:12 CPU Time: 0 0: 0:32.44 (32.44 sec) ASCII
2452 Time Step No. = 156 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 10:16:12 CPU Time: 0 0: 0:32.45 (32.45 sec) Binary
2455 Time Step No. = 160 Elapsed Time = 7.207031E-03 days
2456 Date: 02/14/07 Time: 10:16:15 CPU Time: 0 0: 0:35.30 (35.30 sec) Binary
2458 Time Step No. = 180 Elapsed Time = 9.919446E-01 days
2459 Date: 02/14/07 Time: 10:16:18 CPU Time: 0 0: 0:38.93 (38.93 sec) Binary
2461 Time Step No. = 200 Elapsed Time = 5.981381E+01 days
2462 Date: 02/14/07 Time: 10:16:22 CPU Time: 0 0: 0:43.18 (43.18 sec) Binary
2464 Time Step No. = 220 Elapsed Time = 8.084405E+02 days
2465 Date: 02/14/07 Time: 10:16:28 CPU Time: 0 0: 0:48.82 (48.82 sec) Binary
2467 Time Step No. = 240 Elapsed Time = 6.597767E+03 days
2468 Date: 02/14/07 Time: 10:16:35 CPU Time: 0 0: 0:56.00 (56.00 sec) Binary
2470 Time Step No. = 260 Elapsed Time = 8.104276E+03 days
2471 Date: 02/14/07 Time: 10:16:41 CPU Time: 0 0: 1: 1.30 (61.30 sec) Binary
2473 Time Step No. = 280 Elapsed Time = 1.013249E+04 days
2474 Date: 02/14/07 Time: 10:16:45 CPU Time: 0 0: 1: 5.55 (65.55 sec) Binary
2476 Time Step No. = 300 Elapsed Time = 1.796897E+04 days
2477 Date: 02/14/07 Time: 10:16:52 CPU Time: 0 0: 1:12.86 (72.86 sec) Binary
2479 Time Step No. = 320 Elapsed Time = 2.541947E+04 days
2480 Date: 02/14/07 Time: 10:16:57 CPU Time: 0 0: 1:17.73 (77.73 sec) Binary
2482 Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2483 Date: 02/14/07 Time: 10:17:03 CPU Time: 0 0: 1:23.38 (83.38 sec) Binary
2485 Time Step No. = 360 Elapsed Time = 3.652446E+04 days
2486 Date: 02/14/07 Time: 10:17:08 CPU Time: 0 0: 1:28.94 (88.94 sec) Binary
2488 Time Step No. = 380 Elapsed Time = 3.653794E+04 days
2489 Date: 02/14/07 Time: 10:17:12 CPU Time: 0 0: 1:32.23 (92.23 sec) Binary
2491 Time Step No. = 400 Elapsed Time = 3.665472E+04 days
2492 Date: 02/14/07 Time: 10:17:15 CPU Time: 0 0: 1:35.80 (95.80 sec) Binary
2494 Time Step No. = 420 Elapsed Time = 3.667516E+04 days
2495 Date: 02/14/07 Time: 10:17:18 CPU Time: 0 0: 1:38.18 (98.18 sec) Binary
2497 Time Step No. = 440 Elapsed Time = 3.724922E+04 days
2498 Date: 02/14/07 Time: 10:17:22 CPU Time: 0 0: 1:42.84 (102.84 sec) Binary
2500 Time Step No. = 460 Elapsed Time = 5.413046E+04 days
2501 Date: 02/14/07 Time: 10:17:28 CPU Time: 0 0: 1:48.71 (108.71 sec) Binary
2503 Time Step No. = 480 Elapsed Time = 9.100708E+04 days
2504 Date: 02/14/07 Time: 10:17:39 CPU Time: 0 0: 1:59.87 (119.87 sec) Binary
2506 Time Step No. = 500 Elapsed Time = 1.470830E+05 days
2507 Date: 02/14/07 Time: 10:17:47 CPU Time: 0 0: 2: 7.71 (127.71 sec) Binary
2509 Time Step No. = 520 Elapsed Time = 2.204613E+05 days
2510 Date: 02/14/07 Time: 10:17:58 CPU Time: 0 0: 2:18.80 (138.80 sec) Binary
2512 Time Step No. = 540 Elapsed Time = 2.691848E+05 days
2513 Date: 02/14/07 Time: 10:18:07 CPU Time: 0 0: 2:27.70 (147.70 sec) Binary
2515 Time Step No. = 560 Elapsed Time = 2.832034E+05 days
2516 Date: 02/14/07 Time: 10:18:12 CPU Time: 0 0: 2:32.87 (152.87 sec) Binary
2518 Time Step No. = 580 Elapsed Time = 3.061970E+05 days
2519 Date: 02/14/07 Time: 10:18:21 CPU Time: 0 0: 2:41.02 (161.02 sec) Binary
2521 Time Step No. = 600 Elapsed Time = 3.110361E+05 days
2522 Date: 02/14/07 Time: 10:18:29 CPU Time: 0 0: 2:49.87 (169.87 sec) Binary
2524 Time Step No. = 620 Elapsed Time = 3.237666E+05 days
2525 Date: 02/14/07 Time: 10:18:39 CPU Time: 0 0: 2:59.95 (179.95 sec) Binary
2527 Time Step No. = 640 Elapsed Time = 3.474124E+05 days

2528 Date: 02/14/07 Time: 10:18:45 CPU Time: 0 0: 3: 5.55 (185.55 sec) Binary
2530 Time Step No. = 660 Elapsed Time = 3.652525E+05 days
2531 Date: 02/14/07 Time: 10:18:52 CPU Time: 0 0: 3:12.79 (192.79 sec) Binary
2533 Time Step No. = 680 Elapsed Time = 3.652719E+05 days
2534 Date: 02/14/07 Time: 10:18:59 CPU Time: 0 0: 3:19.39 (199.39 sec) Binary
2536 Time Step No. = 700 Elapsed Time = 3.653962E+05 days
2537 Date: 02/14/07 Time: 10:19:05 CPU Time: 0 0: 3:25.32 (205.32 sec) Binary
2539 Time Step No. = 720 Elapsed Time = 3.660809E+05 days
2540 Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0: 3:31.80 (211.80 sec) Binary
2542 Time Step No. = 740 Elapsed Time = 3.665917E+05 days
2543 Date: 02/14/07 Time: 10:19:14 CPU Time: 0 0: 3:34.31 (214.31 sec) Binary
2545 Time Step No. = 760 Elapsed Time = 3.666891E+05 days
2546 Date: 02/14/07 Time: 10:19:17 CPU Time: 0 0: 3:37.30 (217.30 sec) Binary
2548 Time Step No. = 780 Elapsed Time = 3.685642E+05 days
2549 Date: 02/14/07 Time: 10:19:24 CPU Time: 0 0: 3:44.04 (224.04 sec) Binary
2551 Time Step No. = 800 Elapsed Time = 3.704468E+05 days
2552 Date: 02/14/07 Time: 10:19:31 CPU Time: 0 0: 3:51.16 (231.16 sec) Binary
2554 Time Step No. = 820 Elapsed Time = 3.728343E+05 days
2555 Date: 02/14/07 Time: 10:19:37 CPU Time: 0 0: 3:57.58 (237.58 sec) Binary
2557 Time Step No. = 840 Elapsed Time = 3.808843E+05 days
2558 Date: 02/14/07 Time: 10:19:46 CPU Time: 0 0: 4: 6.69 (246.69 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 3.829952E+05 days
2561 Date: 02/14/07 Time: 10:19:54 CPU Time: 0 0: 4:14.77 (254.77 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 3.831178E+05 days
2564 Date: 02/14/07 Time: 10:19:59 CPU Time: 0 0: 4:19.87 (259.87 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 3.834087E+05 days
2567 Date: 02/14/07 Time: 10:20:04 CPU Time: 0 0: 4:24.73 (264.73 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 3.859229E+05 days
2570 Date: 02/14/07 Time: 10:20:11 CPU Time: 0 0: 4:31.71 (271.71 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 3.893569E+05 days
2573 Date: 02/14/07 Time: 10:20:17 CPU Time: 0 0: 4:37.21 (277.21 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 3.936979E+05 days
2576 Date: 02/14/07 Time: 10:20:22 CPU Time: 0 0: 4:42.10 (282.10 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 4.144137E+05 days
2579 Date: 02/14/07 Time: 10:20:30 CPU Time: 0 0: 4:50.44 (290.44 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 4.180260E+05 days
2582 Date: 02/14/07 Time: 10:20:38 CPU Time: 0 0: 4:57.88 (297.88 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 4.184906E+05 days
2585 Date: 02/14/07 Time: 10:20:42 CPU Time: 0 0: 5: 2.51 (302.51 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 4.191714E+05 days
2588 Date: 02/14/07 Time: 10:20:50 CPU Time: 0 0: 5: 9.53 (309.53 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 4.192872E+05 days
2591 Date: 02/14/07 Time: 10:20:53 CPU Time: 0 0: 5:12.66 (312.66 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 4.283116E+05 days
2594 Date: 02/14/07 Time: 10:20:58 CPU Time: 0 0: 5:18.22 (318.22 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 4.358680E+05 days
2597 Date: 02/14/07 Time: 10:21:04 CPU Time: 0 0: 5:23.88 (323.88 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 4.362891E+05 days
2600 Date: 02/14/07 Time: 10:21:11 CPU Time: 0 0: 5:30.96 (330.96 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 4.374193E+05 days
2603 Date: 02/14/07 Time: 10:21:15 CPU Time: 0 0: 5:34.97 (334.97 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 4.444218E+05 days
2606 Date: 02/14/07 Time: 10:21:22 CPU Time: 0 0: 5:42.15 (342.15 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 4.554530E+05 days
2609 Date: 02/14/07 Time: 10:21:30 CPU Time: 0 0: 5:49.18 (349.18 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 4.557350E+05 days
2612 Date: 02/14/07 Time: 10:21:36 CPU Time: 0 0: 5:55.30 (355.30 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 4.578442E+05 days
2615 Date: 02/14/07 Time: 10:21:42 CPU Time: 0 0: 6: 2.07 (362.07 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 4.579509E+05 days
2618 Date: 02/14/07 Time: 10:21:51 CPU Time: 0 0: 6:10.36 (370.36 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 4.584427E+05 days
2621 Date: 02/14/07 Time: 10:21:59 CPU Time: 0 0: 6:18.54 (378.54 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 4.599440E+05 days
2624 Date: 02/14/07 Time: 10:22:03 CPU Time: 0 0: 6:22.33 (382.33 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 4.690229E+05 days
2627 Date: 02/14/07 Time: 10:22:11 CPU Time: 0 0: 6:30.40 (390.40 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 4.748604E+05 days
2630 Date: 02/14/07 Time: 10:22:21 CPU Time: 0 0: 6:40.13 (400.13 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 4.830762E+05 days
2633 Date: 02/14/07 Time: 10:22:28 CPU Time: 0 0: 6:47.48 (407.48 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 5.258526E+05 days
2636 Date: 02/14/07 Time: 10:22:36 CPU Time: 0 0: 6:55.60 (415.60 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 5.892641E+05 days
2639 Date: 02/14/07 Time: 10:22:44 CPU Time: 0 0: 7: 2.96 (422.96 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 6.795923E+05 days


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2642 Date: 02/14/07 Time: 10:22:52 CPU Time: 0 0: 7:10.82 ( 430.82 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 6.868502E+05 days
2645 Date: 02/14/07 Time: 10:23:00 CPU Time: 0 0: 7:19.40 ( 439.40 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 7.652701E+05 days
2648 Date: 02/14/07 Time: 10:23:09 CPU Time: 0 0: 7:28.36 ( 448.36 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 7.968026E+05 days
2651 Date: 02/14/07 Time: 10:23:19 CPU Time: 0 0: 7:38.34 ( 458.34 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 8.666657E+05 days
2654 Date: 02/14/07 Time: 10:23:28 CPU Time: 0 0: 7:46.78 ( 466.78 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 8.983079E+05 days
2657 Date: 02/14/07 Time: 10:23:38 CPU Time: 0 0: 7:56.96 ( 476.96 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 9.551600E+05 days
2660 Date: 02/14/07 Time: 10:23:47 CPU Time: 0 0: 8: 6.46 ( 486.46 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 9.998592E+05 days
2663 Date: 02/14/07 Time: 10:23:56 CPU Time: 0 0: 8:15.43 ( 495.43 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 1.085834E+06 days
2666 Date: 02/14/07 Time: 10:24:05 CPU Time: 0 0: 8:24.14 ( 504.14 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 1.160714E+06 days
2669 Date: 02/14/07 Time: 10:24:12 CPU Time: 0 0: 8:30.80 ( 510.80 sec) Binary
2671 Time Step No. = 1600 Elapsed Time = 1.559652E+06 days
2672 Date: 02/14/07 Time: 10:24:19 CPU Time: 0 0: 8:37.83 ( 517.83 sec) Binary
2674 Time Step No. = 1620 Elapsed Time = 1.959652E+06 days
2675 Date: 02/14/07 Time: 10:24:25 CPU Time: 0 0: 8:44.48 ( 524.48 sec) Binary
2677 Time Step No. = 1640 Elapsed Time = 2.090782E+06 days
2678 Date: 02/14/07 Time: 10:24:36 CPU Time: 0 0: 8:54.75 ( 534.75 sec) Binary
2680 Time Step No. = 1660 Elapsed Time = 2.163373E+06 days
2681 Date: 02/14/07 Time: 10:24:41 CPU Time: 0 0: 9: 0.27 ( 540.27 sec) Binary
2683 Time Step No. = 1680 Elapsed Time = 2.183046E+06 days
2684 Date: 02/14/07 Time: 10:24:49 CPU Time: 0 0: 9: 7.77 ( 547.77 sec) Binary
2686 Time Step No. = 1700 Elapsed Time = 2.201300E+06 days
2687 Date: 02/14/07 Time: 10:24:58 CPU Time: 0 0: 9:16.77 ( 556.77 sec) Binary
2689 Time Step No. = 1720 Elapsed Time = 2.251091E+06 days
2690 Date: 02/14/07 Time: 10:25:05 CPU Time: 0 0: 9:23.52 ( 563.52 sec) Binary
2692 Time Step No. = 1740 Elapsed Time = 2.284094E+06 days
2693 Date: 02/14/07 Time: 10:25:13 CPU Time: 0 0: 9:31.48 ( 571.48 sec) Binary
2695 Time Step No. = 1760 Elapsed Time = 2.528019E+06 days
2696 Date: 02/14/07 Time: 10:25:20 CPU Time: 0 0: 9:38.36 ( 578.36 sec) Binary
2698 Time Step No. = 1780 Elapsed Time = 2.550069E+06 days
2699 Date: 02/14/07 Time: 10:25:25 CPU Time: 0 0: 9:44.01 ( 584.01 sec) Binary
2701 Time Step No. = 1800 Elapsed Time = 2.589298E+06 days
2702 Date: 02/14/07 Time: 10:25:32 CPU Time: 0 0: 9:51.15 ( 591.15 sec) Binary
2704 Time Step No. = 1820 Elapsed Time = 2.727802E+06 days
2705 Date: 02/14/07 Time: 10:25:40 CPU Time: 0 0: 9:58.80 ( 598.80 sec) Binary
2707 Time Step No. = 1840 Elapsed Time = 2.763509E+06 days
2708 Date: 02/14/07 Time: 10:25:45 CPU Time: 0 0:10: 3.31 ( 603.31 sec) Binary
2710 Time Step No. = 1860 Elapsed Time = 2.944745E+06 days
2711 Date: 02/14/07 Time: 10:25:52 CPU Time: 0 0:10:11.24 ( 611.24 sec) Binary
2713 Time Step No. = 1880 Elapsed Time = 3.202991E+06 days
2714 Date: 02/14/07 Time: 10:26:00 CPU Time: 0 0:10:19.01 ( 619.01 sec) Binary
2716 Time Step No. = 1900 Elapsed Time = 3.339934E+06 days
2717 Date: 02/14/07 Time: 10:26:04 CPU Time: 0 0:10:23.21 ( 623.21 sec) Binary
2720 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
2736 CPU Time (this time step) = 0.18 sec = 0.00005 hr
2737 CPU Time (total for run) = 535.47 sec = 0.14874 hr
2738 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
2736 CPU Time (this time step) = 0.19 sec = 0.00005 hr
2737 CPU Time (total for run) = 626.34 sec = 0.17398 hr
2738 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
3414 Date: 02/14/07 Time: 11:13:24 CPU Time: 0 0: 8:55.48 ( 535.48 sec) ASCII
3416 Time Step No. = 1916 Elapsed Time = 3.652431E+06 days
3417 Date: 02/14/07 Time: 11:13:24 CPU Time: 0 0: 8:55.49 ( 535.49 sec) Binary
3422 *****
3423 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3424 * Completed: 02/14/07 at 11:13:24 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
3425 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
3414 Date: 02/14/07 Time: 10:26:08 CPU Time: 0 0:10:26.34 ( 626.34 sec) ASCII
```

```
3416 Time Step No. = 1916 Elapsed Time = 3.652431E+06 days
3417 Date: 02/14/07 Time: 10:26:08 CPU Time: 0 0:10:26.34 ( 626.34 sec) Binary
3422 *****
3423 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3424 * Completed: 02/14/07 at 10:26:08 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3425 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 196

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
```

BF2_QB0600_ES45_TEST7_V020_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
  3 ** Begun on: 02/14/07 at 11:09:17 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
  4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
  3 ** Begun on: 02/14/07 at 10:20:35 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_TEST7_V020.INP;2
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;2
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
```

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86 PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
1772 CPU Time (this time step) = 0.17 sec = 0.00005 hr
1773 CPU Time (total for run) = 20.29 sec = 0.00564 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
1772 CPU Time (this time step) = 0.19 sec = 0.00005 hr
1773 CPU Time (total for run) = 23.66 sec = 0.00657 hr
1774 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
2450 Date: 02/14/07 Time: 11:09:37 CPU Time: 0 0: 0:20.31 ( 20.31 sec) ASCII
2452 Time Step No. = 137 Elapsed Time = 0.000000E+00 days
2453 Date: 02/14/07 Time: 11:09:37 CPU Time: 0 0: 0:20.31 ( 20.31 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 2.563388E-02 days
2456 Date: 02/14/07 Time: 11:09:38 CPU Time: 0 0: 0:20.97 ( 20.97 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 3.725148E+00 days
2459 Date: 02/14/07 Time: 11:09:42 CPU Time: 0 0: 0:24.39 ( 24.39 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 3.246068E+02 days
2462 Date: 02/14/07 Time: 11:09:45 CPU Time: 0 0: 0:28.10 ( 28.10 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 3.684633E+03 days
2465 Date: 02/14/07 Time: 11:09:51 CPU Time: 0 0: 0:34.15 ( 34.15 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 2.822136E+04 days
2468 Date: 02/14/07 Time: 11:09:57 CPU Time: 0 0: 0:39.99 ( 39.99 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.652539E+04 days
2471 Date: 02/14/07 Time: 11:10:07 CPU Time: 0 0: 0:49.81 ( 49.81 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.658477E+04 days
2474 Date: 02/14/07 Time: 11:10:10 CPU Time: 0 0: 0:53.24 ( 53.24 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.666991E+04 days
2477 Date: 02/14/07 Time: 11:10:12 CPU Time: 0 0: 0:55.21 ( 55.21 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.679175E+04 days
2480 Date: 02/14/07 Time: 11:10:15 CPU Time: 0 0: 0:58.19 ( 58.19 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.923507E+04 days
2483 Date: 02/14/07 Time: 11:10:20 CPU Time: 0 0: 1: 3.07 ( 63.07 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 4.281917E+04 days
2486 Date: 02/14/07 Time: 11:10:27 CPU Time: 0 0: 1:10.12 ( 70.12 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 9.658391E+04 days
2489 Date: 02/14/07 Time: 11:10:35 CPU Time: 0 0: 1:17.74 ( 77.74 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 1.853715E+05 days
2492 Date: 02/14/07 Time: 11:10:47 CPU Time: 0 0: 1:29.31 ( 89.31 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 1.865644E+05 days
2495 Date: 02/14/07 Time: 11:10:54 CPU Time: 0 0: 1:36.40 ( 96.40 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 1.885587E+05 days
2498 Date: 02/14/07 Time: 11:10:59 CPU Time: 0 0: 1:41.73 ( 101.73 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 2.016355E+05 days
2501 Date: 02/14/07 Time: 11:11:06 CPU Time: 0 0: 1:49.02 ( 109.02 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 2.152604E+05 days
2504 Date: 02/14/07 Time: 11:11:16 CPU Time: 0 0: 1:59.00 ( 119.00 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 2.153375E+05 days
2507 Date: 02/14/07 Time: 11:11:21 CPU Time: 0 0: 2: 3.94 ( 123.94 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 2.165829E+05 days
2510 Date: 02/14/07 Time: 11:11:27 CPU Time: 0 0: 2: 9.47 ( 129.47 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 2.353299E+05 days
2513 Date: 02/14/07 Time: 11:11:34 CPU Time: 0 0: 2:16.86 ( 136.86 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 2.520000E+05 days
2516 Date: 02/14/07 Time: 11:11:42 CPU Time: 0 0: 2:24.47 ( 144.47 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 2.525213E+05 days
2519 Date: 02/14/07 Time: 11:11:45 CPU Time: 0 0: 2:27.94 ( 147.94 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 2.527760E+05 days
2522 Date: 02/14/07 Time: 11:11:51 CPU Time: 0 0: 2:33.57 ( 153.57 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 2.541176E+05 days
2525 Date: 02/14/07 Time: 11:11:55 CPU Time: 0 0: 2:37.95 ( 157.95 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 2.855709E+05 days
2528 Date: 02/14/07 Time: 11:12:01 CPU Time: 0 0: 2:43.50 ( 163.50 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.161032E+05 days
2531 Date: 02/14/07 Time: 11:12:08 CPU Time: 0 0: 2:50.87 ( 170.87 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.380356E+05 days
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2534 Date: 02/14/07 Time: 11:12:14 CPU Time: 0 0: 2:56.42 (176.42 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 3.652525E+05 days
2537 Date: 02/14/07 Time: 11:12:18 CPU Time: 0 0: 3: 0.60 (180.60 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 3.653546E+05 days
2540 Date: 02/14/07 Time: 11:12:23 CPU Time: 0 0: 3: 5.11 (185.11 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.662726E+05 days
2543 Date: 02/14/07 Time: 11:12:29 CPU Time: 0 0: 3:11.44 (191.44 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.666103E+05 days
2546 Date: 02/14/07 Time: 11:12:31 CPU Time: 0 0: 3:13.18 (193.18 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.667626E+05 days
2549 Date: 02/14/07 Time: 11:12:33 CPU Time: 0 0: 3:15.54 (195.54 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.675399E+05 days
2552 Date: 02/14/07 Time: 11:12:39 CPU Time: 0 0: 3:21.18 (201.18 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.720878E+05 days
2555 Date: 02/14/07 Time: 11:12:44 CPU Time: 0 0: 3:26.28 (206.28 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 3.875699E+05 days
2558 Date: 02/14/07 Time: 11:12:50 CPU Time: 0 0: 3:32.24 (212.24 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 4.462737E+05 days
2561 Date: 02/14/07 Time: 11:12:57 CPU Time: 0 0: 3:39.14 (219.14 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 5.201137E+05 days
2564 Date: 02/14/07 Time: 11:13:02 CPU Time: 0 0: 3:44.18 (224.18 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 5.611927E+05 days
2567 Date: 02/14/07 Time: 11:13:08 CPU Time: 0 0: 3:50.89 (230.89 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 6.996660E+05 days
2570 Date: 02/14/07 Time: 11:13:16 CPU Time: 0 0: 3:58.12 (238.12 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 8.421477E+05 days
2573 Date: 02/14/07 Time: 11:13:24 CPU Time: 0 0: 4: 5.39 (245.39 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 9.138807E+05 days
2576 Date: 02/14/07 Time: 11:13:31 CPU Time: 0 0: 4:12.40 (252.40 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.008458E+06 days
2579 Date: 02/14/07 Time: 11:13:39 CPU Time: 0 0: 4:20.54 (260.54 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.083768E+06 days
2582 Date: 02/14/07 Time: 11:13:48 CPU Time: 0 0: 4:29.25 (269.25 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.211114E+06 days
2585 Date: 02/14/07 Time: 11:13:56 CPU Time: 0 0: 4:36.69 (276.69 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 1.239729E+06 days
2588 Date: 02/14/07 Time: 11:14:04 CPU Time: 0 0: 4:44.68 (284.68 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.431910E+06 days
2591 Date: 02/14/07 Time: 11:14:12 CPU Time: 0 0: 4:52.42 (292.42 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.474052E+06 days
2594 Date: 02/14/07 Time: 11:14:18 CPU Time: 0 0: 4:59.04 (299.04 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 1.548433E+06 days
2597 Date: 02/14/07 Time: 11:14:27 CPU Time: 0 0: 5: 7.40 (307.40 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 1.567154E+06 days
2600 Date: 02/14/07 Time: 11:14:35 CPU Time: 0 0: 5:15.59 (315.59 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 1.587156E+06 days
2603 Date: 02/14/07 Time: 11:14:40 CPU Time: 0 0: 5:20.83 (320.83 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 1.602596E+06 days
2606 Date: 02/14/07 Time: 11:14:47 CPU Time: 0 0: 5:27.92 (327.92 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 1.673711E+06 days
2609 Date: 02/14/07 Time: 11:14:54 CPU Time: 0 0: 5:34.56 (334.56 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 1.708410E+06 days
2612 Date: 02/14/07 Time: 11:15:01 CPU Time: 0 0: 5:42.20 (342.20 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 1.782836E+06 days
2615 Date: 02/14/07 Time: 11:15:07 CPU Time: 0 0: 5:47.62 (347.62 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 1.826297E+06 days
2618 Date: 02/14/07 Time: 11:15:14 CPU Time: 0 0: 5:55.09 (355.09 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 1.930066E+06 days
2621 Date: 02/14/07 Time: 11:15:22 CPU Time: 0 0: 6: 2.41 (362.41 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 2.048923E+06 days
2624 Date: 02/14/07 Time: 11:15:29 CPU Time: 0 0: 6: 9.51 (369.51 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 2.205459E+06 days
2627 Date: 02/14/07 Time: 11:15:32 CPU Time: 0 0: 6:12.73 (372.73 sec) Binary
2629 Time Step No. = 1300 Elapsed Time = 2.605459E+06 days
2630 Date: 02/14/07 Time: 11:15:36 CPU Time: 0 0: 6:16.25 (376.25 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 2.884301E+06 days
2633 Date: 02/14/07 Time: 11:15:40 CPU Time: 0 0: 6:20.51 (380.51 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 3.231409E+06 days
2636 Date: 02/14/07 Time: 11:15:44 CPU Time: 0 0: 6:24.03 (384.03 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 3.631409E+06 days
2639 Date: 02/14/07 Time: 11:15:47 CPU Time: 0 0: 6:27.54 (387.54 sec) Binary
2642 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
2450 Date: 02/14/07 Time: 10:20:59 CPU Time: 0 0: 0:23.68 (23.68 sec) ASCII
2452 Time Step No. = 137 Elapsed Time = 0.000000E+00 days

2453 Date: 02/14/07 Time: 10:20:59 CPU Time: 0 0: 0:23.69 (23.69 sec) Binary
2455 Time Step No. = 140 Elapsed Time = 2.563388E-02 days
2456 Date: 02/14/07 Time: 10:21:00 CPU Time: 0 0: 0:24.43 (24.43 sec) Binary
2458 Time Step No. = 160 Elapsed Time = 3.725148E+00 days
2459 Date: 02/14/07 Time: 10:21:04 CPU Time: 0 0: 0:28.34 (28.34 sec) Binary
2461 Time Step No. = 180 Elapsed Time = 3.246068E+02 days
2462 Date: 02/14/07 Time: 10:21:08 CPU Time: 0 0: 0:32.60 (32.60 sec) Binary
2464 Time Step No. = 200 Elapsed Time = 3.684633E+03 days
2465 Date: 02/14/07 Time: 10:21:15 CPU Time: 0 0: 0:39.49 (39.49 sec) Binary
2467 Time Step No. = 220 Elapsed Time = 2.822136E+04 days
2468 Date: 02/14/07 Time: 10:21:22 CPU Time: 0 0: 0:46.11 (46.11 sec) Binary
2470 Time Step No. = 240 Elapsed Time = 3.652539E+04 days
2471 Date: 02/14/07 Time: 10:21:33 CPU Time: 0 0: 0:57.28 (57.28 sec) Binary
2473 Time Step No. = 260 Elapsed Time = 3.658477E+04 days
2474 Date: 02/14/07 Time: 10:21:37 CPU Time: 0 0: 1: 1.10 (61.10 sec) Binary
2476 Time Step No. = 280 Elapsed Time = 3.666991E+04 days
2477 Date: 02/14/07 Time: 10:21:39 CPU Time: 0 0: 1: 3.25 (63.25 sec) Binary
2479 Time Step No. = 300 Elapsed Time = 3.679175E+04 days
2480 Date: 02/14/07 Time: 10:21:42 CPU Time: 0 0: 1: 6.62 (66.62 sec) Binary
2482 Time Step No. = 320 Elapsed Time = 3.923507E+04 days
2483 Date: 02/14/07 Time: 10:21:48 CPU Time: 0 0: 1:12.33 (72.33 sec) Binary
2485 Time Step No. = 340 Elapsed Time = 4.281917E+04 days
2486 Date: 02/14/07 Time: 10:21:56 CPU Time: 0 0: 1:20.54 (80.54 sec) Binary
2488 Time Step No. = 360 Elapsed Time = 9.658391E+04 days
2489 Date: 02/14/07 Time: 10:22:05 CPU Time: 0 0: 1:29.44 (89.44 sec) Binary
2491 Time Step No. = 380 Elapsed Time = 1.853715E+05 days
2492 Date: 02/14/07 Time: 10:22:19 CPU Time: 0 0: 1:42.96 (102.96 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 1.865644E+05 days
2495 Date: 02/14/07 Time: 10:22:26 CPU Time: 0 0: 1:50.86 (110.86 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 1.885587E+05 days
2498 Date: 02/14/07 Time: 10:22:33 CPU Time: 0 0: 1:56.96 (116.96 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 2.016355E+05 days
2501 Date: 02/14/07 Time: 10:22:41 CPU Time: 0 0: 2: 5.23 (125.23 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 2.152604E+05 days
2504 Date: 02/14/07 Time: 10:22:52 CPU Time: 0 0: 2:16.43 (136.43 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 2.153375E+05 days
2507 Date: 02/14/07 Time: 10:22:58 CPU Time: 0 0: 2:21.93 (141.93 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 2.165829E+05 days
2510 Date: 02/14/07 Time: 10:23:04 CPU Time: 0 0: 2:28.17 (148.17 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 2.353299E+05 days
2513 Date: 02/14/07 Time: 10:23:12 CPU Time: 0 0: 2:36.50 (156.50 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 2.520000E+05 days
2516 Date: 02/14/07 Time: 10:23:21 CPU Time: 0 0: 2:45.12 (165.12 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 2.525213E+05 days
2519 Date: 02/14/07 Time: 10:23:25 CPU Time: 0 0: 2:49.07 (169.07 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 2.527760E+05 days
2522 Date: 02/14/07 Time: 10:23:31 CPU Time: 0 0: 2:55.42 (175.42 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 2.541176E+05 days
2525 Date: 02/14/07 Time: 10:23:36 CPU Time: 0 0: 3: 0.42 (180.42 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 2.855709E+05 days
2528 Date: 02/14/07 Time: 10:23:43 CPU Time: 0 0: 3: 6.73 (186.73 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.161032E+05 days
2531 Date: 02/14/07 Time: 10:23:51 CPU Time: 0 0: 3:15.08 (195.08 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.380356E+05 days
2534 Date: 02/14/07 Time: 10:23:57 CPU Time: 0 0: 3:21.38 (201.38 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 3.652525E+05 days
2537 Date: 02/14/07 Time: 10:24:02 CPU Time: 0 0: 3:26.10 (206.10 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 3.653546E+05 days
2540 Date: 02/14/07 Time: 10:24:07 CPU Time: 0 0: 3:31.22 (211.22 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.662726E+05 days
2543 Date: 02/14/07 Time: 10:24:14 CPU Time: 0 0: 3:38.38 (218.38 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.666103E+05 days
2546 Date: 02/14/07 Time: 10:24:16 CPU Time: 0 0: 3:40.37 (220.37 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.667626E+05 days
2549 Date: 02/14/07 Time: 10:24:19 CPU Time: 0 0: 3:43.07 (223.07 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.675399E+05 days
2552 Date: 02/14/07 Time: 10:24:26 CPU Time: 0 0: 3:49.45 (229.45 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.720878E+05 days
2555 Date: 02/14/07 Time: 10:24:31 CPU Time: 0 0: 3:55.24 (235.24 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 3.875699E+05 days
2558 Date: 02/14/07 Time: 10:24:38 CPU Time: 0 0: 4: 2.00 (242.00 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 4.462737E+05 days
2561 Date: 02/14/07 Time: 10:24:46 CPU Time: 0 0: 4: 9.80 (249.80 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 5.201137E+05 days
2564 Date: 02/14/07 Time: 10:24:52 CPU Time: 0 0: 4:15.50 (255.50 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 5.611927E+05 days

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2567 Date: 02/14/07 Time: 10:24:59 CPU Time: 0 0: 4:23.10 ( 263.10 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 6.996660E+05 days
2570 Date: 02/14/07 Time: 10:25:08 CPU Time: 0 0: 4:31.28 ( 271.28 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 8.421477E+05 days
2573 Date: 02/14/07 Time: 10:25:16 CPU Time: 0 0: 4:39.53 ( 279.53 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 9.138807E+05 days
2576 Date: 02/14/07 Time: 10:25:24 CPU Time: 0 0: 4:47.51 ( 287.51 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.008458E+06 days
2579 Date: 02/14/07 Time: 10:25:33 CPU Time: 0 0: 4:56.74 ( 296.74 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.083768E+06 days
2582 Date: 02/14/07 Time: 10:25:43 CPU Time: 0 0: 5: 6.63 ( 306.63 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.211114E+06 days
2585 Date: 02/14/07 Time: 10:25:51 CPU Time: 0 0: 5:15.09 ( 315.09 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 1.239729E+06 days
2588 Date: 02/14/07 Time: 10:26:00 CPU Time: 0 0: 5:24.14 ( 324.14 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.431910E+06 days
2591 Date: 02/14/07 Time: 10:26:09 CPU Time: 0 0: 5:32.93 ( 332.93 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.474052E+06 days
2594 Date: 02/14/07 Time: 10:26:17 CPU Time: 0 0: 5:40.42 ( 340.42 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 1.548433E+06 days
2597 Date: 02/14/07 Time: 10:26:26 CPU Time: 0 0: 5:49.85 ( 349.85 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 1.567154E+06 days
2600 Date: 02/14/07 Time: 10:26:36 CPU Time: 0 0: 5:59.12 ( 359.12 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 1.587156E+06 days
2603 Date: 02/14/07 Time: 10:26:41 CPU Time: 0 0: 6: 5.05 ( 365.05 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 1.602596E+06 days
2606 Date: 02/14/07 Time: 10:26:50 CPU Time: 0 0: 6:13.07 ( 373.07 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 1.673711E+06 days
2609 Date: 02/14/07 Time: 10:26:57 CPU Time: 0 0: 6:20.57 ( 380.57 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 1.708410E+06 days
2612 Date: 02/14/07 Time: 10:27:06 CPU Time: 0 0: 6:29.18 ( 389.18 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 1.782836E+06 days
2615 Date: 02/14/07 Time: 10:27:12 CPU Time: 0 0: 6:35.31 ( 395.31 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 1.826297E+06 days
2618 Date: 02/14/07 Time: 10:27:20 CPU Time: 0 0: 6:43.74 ( 403.74 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 1.930066E+06 days
2621 Date: 02/14/07 Time: 10:27:29 CPU Time: 0 0: 6:52.44 ( 412.44 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 2.048923E+06 days
2624 Date: 02/14/07 Time: 10:27:37 CPU Time: 0 0: 7: 0.87 ( 420.87 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 2.205459E+06 days
2627 Date: 02/14/07 Time: 10:27:41 CPU Time: 0 0: 7: 4.71 ( 424.71 sec) Binary
2629 Time Step No. = 1300 Elapsed Time = 2.605459E+06 days
2630 Date: 02/14/07 Time: 10:27:45 CPU Time: 0 0: 7: 8.91 ( 428.91 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 2.884301E+06 days
2633 Date: 02/14/07 Time: 10:27:50 CPU Time: 0 0: 7:13.99 ( 433.99 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 3.231409E+06 days
2636 Date: 02/14/07 Time: 10:27:55 CPU Time: 0 0: 7:18.18 ( 438.18 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 3.631409E+06 days
2639 Date: 02/14/07 Time: 10:27:59 CPU Time: 0 0: 7:22.37 ( 442.37 sec) Binary
2642 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
2658 CPU Time (this time step) = 0.12 sec = 0.00003 hr
2659 CPU Time (total for run) = 387.84 sec = 0.10773 hr
2660 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
2658 CPU Time (this time step) = 0.14 sec = 0.00004 hr
2659 CPU Time (total for run) = 442.72 sec = 0.12298 hr
2660 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
3336 Date: 02/14/07 Time: 11:15:47 CPU Time: 0 0: 6:27.86 ( 387.86 sec) ASCII
3338 Time Step No. = 1362 Elapsed Time = 3.652431E+06 days
3339 Date: 02/14/07 Time: 11:15:47 CPU Time: 0 0: 6:27.86 ( 387.86 sec) Binary
3344 *****
3345 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3346 * Completed: 02/14/07 at 11:15:47 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
3347 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
3336 Date: 02/14/07 Time: 10:27:59 CPU Time: 0 0: 7:22.73 ( 442.73 sec) ASCII
3338 Time Step No. = 1362 Elapsed Time = 3.652431E+06 days
3339 Date: 02/14/07 Time: 10:27:59 CPU Time: 0 0: 7:22.73 ( 442.73 sec) Binary
```

```
3344 *****
3345 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3346 * Completed: 02/14/07 at 10:27:59 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3347 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 144

```
DIFFERENCES /IGNORE={SPACING,TRAILING_SPACES,BLANK_LINES}/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1-
```

A.8 Test Case 8 Files

A.8.1 Test Case 8: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST8_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST8.INP  
$ DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES40_Test8.OUT  
$ DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES40_Test8.SUM  
$ DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES40_Test8.BIN  
$ DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES40_Test8.RIN  
$ DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES40_Test8.ROT  
$ set noverify  
  
image name: "BRAGFLO_QB0600"  
image file identification: "P QB0600 6.0"  
image file build identification: ""  
link date/time: 12-FEB-2007 14:57:24.36  
linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST8_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST8.INP  
$ DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES45_Test8.OUT  
$ DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES45_Test8.SUM  
$ DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES45_Test8.BIN  
$ DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES45_Test8.RIN  
$ DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES45_Test8.ROT  
$ set noverify  
  
image name: "BRAGFLO_QB0600"  
image file identification: "P QB0600 6.0"  
image file build identification: ""  
link date/time: 12-FEB-2007 14:57:24.36  
linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST8_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST8.INP  
$ DEFINE bf2_uifold$input   working_dir:BF2_TEST8_QA0500.INP  
$ DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES47_Test8.OUT  
$ DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES47_Test8.SUM  
$ DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES47_Test8.BIN  
$ DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES47_Test8.RIN  
$ DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES47_Test8.ROT
```



```
$ set noverify

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

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

A.8.2 Test Case 8: Input File, BF2_QB0600_TEST8.INP

```
2 grid blocks, 2-phase, constant well bore pressure production
FILES
T T T F F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
  1  2  1  1
TSTART,   TMAX,   MAXSTEPS
  0.0   1000.0   10
DT_INIT,  DT_MIN,  DT_MAX,  DT_INCR, IAUTOPT, TSWITCH
  1.0E+02  1.0E+02  1.0E+06  1.5000E+00  0  1.0000E-02
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
  0
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
  2  0  0  'SI'  'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  10
USER REQUESTED PRINTOUT TIMES
  100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  1000
RESTART PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTRST
  999
ASCII PRINT FLAGS
1 1 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 1 1 0 0 0 1 1 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
BINARY PRINT FLAGS
1 1 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 1 1 0 0 0 1 1 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
HISTORY VARIABLE OUTPUT
  0
MONITOR PARAMETER VALUES AT 1 GRIDBLOCK
T
NUMBER OF MONITOR BLOCKS
  2
MONITOR BLOCK (I,J,K)
  1  1  1
  2  1  1
GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
  0  0  0  0
GRID DATA CARDS: GRID BLOCK DX'S
  10.0
GRID DATA CARDS: GRID BLOCK DY'S
  10.0
GRID DATA CARDS: GRID BLOCK DZ'S
  10.0
GRID DATA CARDS: IORG, JORG, KORG, DEPTH, THETAX, THETAY, THETAZ
  1  1  1  0.000000E+00  9.000000E+01  0.000000E+00  0.000000E+00
WELL DATA
  1
  0.0  1
  1  1  1  1
PROD
  0.  0.  1.E-12  1.0E+06
```

```
DIRCHLET CONDITIONS
0 F
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
10.0E+06 10.0E+06
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
0.5 0.5
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
2*0.0
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
2*0.0
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
2*0.0
DSATLIM, DPRESLIM, SATLIMIT
1.0000E-01 -1.0000E+07 1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
6.0000E-01 1.0000E+06
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX DPRES_MAX
1.0000E+00 1.0000E+07
CONVERGENCE TEST FLAG: 0=OR/1=AND
1
EPS_SAT, EPS_PRES: NORMAL CONVERGENCE CRITERIA
4.0000E+00 1.0000E-04
EPS_SAT, EPS_PRES: RELAXED CONVERGENCE CRITERIA
4.0000E+00 1.0000E-04
FTOL_SAT FTOL_PRES: NORMAL RESIDUAL TOLERANCE
1.0000E-04 1.0000E-04
FTOL_SAT FTOL_PRES: RELAXED RESIDUAL TOLERANCE
1.0000E-04 1.0000E-04
RXN PATH TOLS
4*1.E-4
SOLVER
LU
ITMAX, IRESETMAX, IJACINT, SCALING, P_SCALE, LVARSWTCH
5 40 1 T 1.E7 F
IUPRFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMPAVE
40 40 5.0000E-01 1 0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPOOSE, IUPMFLOOSE
99 10 2 99 99
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
1.0000E-08 1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
1.0000E-09 1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
1
START TIME FOR MAP 1
0.0
MATERIAL TYPE GRID MAP
2*1
# NAME
1 WASTE
NWST
1
WASTE INITIAL, FINAL
1 1
NDRZ
0
NMATRESET
0
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000 0
POWASTEIC
0.
SOWASTEIC
0.
PRESDRZ
0.
NBORERESET
0
# LAMBDA SOR SGR
1 0.7 0.000000E+00 0.000000E+00
# SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KPT
1 5.000000E-02 1.013250E+05 1.000000E+08 0.0 0.0 4 4 0
# PERMX PERMY PERMZ POROSITY COMPRES
1 1.000000E-13 1.000000E-13 1.000000E-13 5.0E-01 0.0
```

```
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
F
KLINKENBERG EFFECT TO BE USED? True or False
F
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01320E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
0.0 996.629 0 0 4.45000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
0.8500E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE; =-2 IDEAL GAS
-2
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0 0.0
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1 1
IGASVAR (1=GENERATION USING REACTION SOURCE; 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
0.0 0.0 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0 0.0
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0 0.0
RATE COEFFICIENTS: RXH2S AND RXCO2
0.0 0.0
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
WICKING SATN, HUMID SMOOTHING, ALPHARXN
0.0 F F 50.
CREEP CLOSURE?
F
RAD DECAY
F
WILL TRANSPORT BE CALCULATED? T or F
F
RXN PATH
F
```

A.8.3 Test Case 8: Output Difference File, BF2_QB0600_ES47_TEST8_OUT.DIF

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

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3 ** Begun on: 02/13/07 at 14:11:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
```

```
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
2 ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3 ** Begun on: 04/12/06 at 14:06:27 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_TEST8.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST8]BF2_TEST8_QA0500.INP;2
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
66 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST8]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
138 Restart output timestep interval (IPRNRST) = 999
140 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
138 Restart output timestep interval (IPRNRST) = 999
140 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
191 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
192 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
193 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
194 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
195 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
196 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
197 49 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
198 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
```

199 51 0 0 QR(I,J,K,4) C6-H10-05 consumption rate -- simple model kg/(s*m^3)
200 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
201 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
202 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
203 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
204 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
205 57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
206 58 0 0 CONCBIO C6-H10-05 concentration -- simple model kg/m^3
207 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
208 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
209 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
210 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
211 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
212 64 0 0 CONCST Salt concentration -- simple model kg/m^3
213 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
214 66 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
215 67 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
216 68 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
217 69 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
218 70 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
219 71 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
220 72 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
221 73 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
222 74 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
223 75 0 0 GENRAT(10,I,J,K) C6-H10-05 consumption rate -- reaction path model kg/(s*m^3)
224 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
225 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
226 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
227 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
228 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
229 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
230 82 0 0 GENRAT(17,I,J,K) Fe(OH) generation rate -- reaction path model kg/(s*m^3)
231 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
232 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
233 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
234 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
235 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
236 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
237 89 0 0 CONCRXN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
238 90 0 0 CONCRXN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
239 91 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
240 92 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
241 93 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
242 94 0 0 CONCRXN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
243 95 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
244 96 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
245 97 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
246 98 0 0 CONCRXN(10,I,J,K) C6-H10-05 concentration -- reaction path model kg/m^3
247 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
248 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
249 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
250 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
251 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
252 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
253 105 0 0 CONCRXN(17,I,J,K) Fe(OH) concentration -- reaction path model kg/m^3
254 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
255 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
256 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
257 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
258 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
259 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
260 112 0 0 H2OFLOWIN Water inflow rate kg/s
261 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
262 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
263 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
264 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
265 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
266 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
267 119 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
268 120 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg

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269 121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
270 122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
271 123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
272 124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
274
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
191 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
192 44 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
193 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
194 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
195 47 0 0 CONCFE Fe concentration -- simple model kg/m^3
196 48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
197 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
198 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
199 51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
200 52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
201 53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
202 54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
203 55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
204 56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
205 57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
206 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
207 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
208 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
209 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
210 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
211 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
212 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
213 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
214 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
215 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
216 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
217 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
218 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
219 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
220 72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
221 73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
222 74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
223 75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
224 76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
225 77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
226 78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
227 79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
228 80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
229 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
230 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
231 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
232 84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
233 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
234 86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
235 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
236 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
237 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
238 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
239 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
240 92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
241 93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
242 94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
243 95 0 0 H2OFLOWIN Water inflow rate kg/s
244 96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
245 97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
246 98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
247 99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
248 100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
249 101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
250 102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
251 103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
252 104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
253 105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
254 106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
255 107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
445  instead of Input IC's for the Cavities
446  [0=No, 1=Yes] (ICWASTE) = 0
448  Uniform Cavity Region
449  Uniform Cavity Region
451  -----
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
428  instead of Input IC's for the Waste
429  [0=No, 1=Yes] (ICWASTE) = 0
431  Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 0.00000E+00 Pa
432  Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
434  -----
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
480  TOL = 1.0000E-02
481  SOCEFFMIN = 1.0000E-03
483  Fracture model will be used? (KRACTURE): F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
464  Fracture model will be used? (KRACTURE): F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
530  Intrinsic reaction rate constants? (LINTRIN): F
532  Reaction rate constants (RK):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
511  Reaction rate constants (RK):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
540  MgO hydration reaction rate constants:
541  Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
542  Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
544  Gas generation factors for biodegradation reaction:
545  Waste Area # 1
546  H2/H2S production (RXH2S) = 0.000000E+00
547  CO2 production (RXCO2) = 0.000000E+00
549  Saturation cutoff value (SOCMIN): 0.000000E+00
551  Stoichiometric coeff's for Rxn 1:
552  H2 coefficient = 0.000000E+00
553  H2O coefficient = 0.000000E+00
554  Fe coefficient = 0.000000E+00
555  Bio coefficient = 0.000000E+00
556  Fe(OH)2 coefficient = 0.000000E+00
557  FeS coefficient = 0.000000E+00
558  MgO coefficient = 0.000000E+00
559  Mg(OH)2 coefficient = 0.000000E+00
560  MgCO3 coefficient = 0.000000E+00
562  Stoichiometric coeff's for Rxn 2:
563  H2 coefficient = 0.000000E+00
564  H2O coefficient = 0.000000E+00
565  Fe coefficient = 0.000000E+00
566  Bio coefficient = 0.000000E+00
567  Fe(OH)2 coefficient = 0.000000E+00
568  FeS coefficient = 0.000000E+00
569  MgO coefficient = 0.000000E+00
570  Mg(OH)2 coefficient = 0.000000E+00
571  MgCO3 coefficient = 0.000000E+00
573  Stoichiometric coeff's for Rxn 3:
574  H2 coefficient = 0.000000E+00
575  H2O coefficient = 0.000000E+00
576  Fe coefficient = 0.000000E+00
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577 Bio coefficient = 0.000000E+00
578 Fe(OH)2 coefficient = 0.000000E+00
579 FeS coefficient = 0.000000E+00
580 MgO coefficient = 0.000000E+00
581 Mg(OH)2 coefficient = 0.000000E+00
582 MgCO3 coefficient = 0.000000E+00
584 Stoichiometric coeff's for Rxn 4:
585 H2 coefficient = 0.000000E+00
586 H2O coefficient = 0.000000E+00
587 Fe coefficient = 0.000000E+00
588 Bio coefficient = 0.000000E+00
589 Fe(OH)2 coefficient = 0.000000E+00
590 FeS coefficient = 0.000000E+00
591 MgO coefficient = 0.000000E+00
592 Mg(OH)2 coefficient = 0.000000E+00
593 MgCO3 coefficient = 0.000000E+00
595 Stoichiometric coeff's for Rxn 5:
596 H2 coefficient = 0.000000E+00
597 H2O coefficient = 0.000000E+00
598 Fe coefficient = 0.000000E+00
599 Bio coefficient = 0.000000E+00
600 Fe(OH)2 coefficient = 0.000000E+00
601 FeS coefficient = 0.000000E+00
602 MgO coefficient = 0.000000E+00
603 Mg(OH)2 coefficient = 0.000000E+00
604 MgCO3 coefficient = 0.000000E+00
606 Stoichiometric coeff's for Rxn 6:
607 H2 coefficient = 0.000000E+00
608 H2O coefficient = 0.000000E+00
609 Fe coefficient = 0.000000E+00
610 Bio coefficient = 0.000000E+00
611 Fe(OH)2 coefficient = 0.000000E+00
612 FeS coefficient = 0.000000E+00
613 MgO coefficient = 0.000000E+00
614 Mg(OH)2 coefficient = 0.000000E+00
615 MgCO3 coefficient = 0.000000E+00
617 Stoichiometric coeff's for Rxn 7:
618 H2 coefficient = 0.000000E+00
619 H2O coefficient = 0.000000E+00
620 Fe coefficient = 0.000000E+00
621 Bio coefficient = 0.000000E+00
622 Fe(OH)2 coefficient = 0.000000E+00
623 FeS coefficient = 0.000000E+00
624 MgO coefficient = 0.000000E+00
625 Mg(OH)2 coefficient = 0.000000E+00
626 MgCO3 coefficient = 0.000000E+00
628 Wicking term (SATWICK) = 0.000000E+00
629 Humid rates to be smoothed? (LARXN) = F
630 Concentration rates to be smoothed? (LARXN2) = F
631 Humid rate smoothing factor (ALPHARXN) = 5.000000E+01
633 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
519 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
520 Gas coefficient = 1.173000E+00
521 H2O coefficient = 1.654000E+00
522 Fe coefficient = 1.000000E+00
524 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
525 Gas coefficient = 7.677000E-01
526 H2O coefficient = 0.000000E+00
527 Bio coefficient = 1.000000E+00
529 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
637 Bio: 2.7023E-02 kg/mol
639 Molecular weights (WM):
640 Fe(OH)2: 8.9862E-02 kg/mol
641 FeS: 8.7900E-02 kg/mol
642 MgO: 4.0304E-02 kg/mol
643 Mg(OH)2: 5.8320E-02 kg/mol
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644 MgCO3: 8.4314E-02 kg/mol
646 Densities (DEN(1-4)):
647 Fe: 7.8700E+03 kg/m3
648 Fe(OH)2: 3.4000E+03 kg/m3
649 FeS: 4.7000E+03 kg/m3
650 Bio: 1.1000E+03 kg/m3
652 Densities (DEN(5-8)):
653 MgO: 3.6000E+03 kg/m3
654 Mg(OH)2: 2.3700E+03 kg/m3
655 MgCO3: 3.0500E+03 kg/m3
656 SALT: 2.1700E+03 kg/m3
658 Will creep closure be used (CLOSURE): F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
533 Bio: 3.0026E-02 kg/mol
535 Wicking term (SATWICK) = 0.000000E+00
536 Humid rates to be smoothed? (LARXN) = F
537 Humid rate smoothing factor (ALPHARXN) = 5.000000E+01
539 Will creep closure be used (CLOSURE): F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
735 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
738 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
616 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
619 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
746 CPU Time (this time step) = 0.03 sec = 0.00001 hr
747 CPU Time (total for run) = 0.03 sec = 0.00001 hr
748 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
627 CPU Time (this time step) = 0.02 sec = 0.00001 hr
628 CPU Time (total for run) = 0.02 sec = 0.00001 hr
629 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
790 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
792 Time Step No. = 1 Elapsed Time = 1.157407E-03 days
793 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
796 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
671 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
673 Time Step No. = 1 Elapsed Time = 1.157407E-03 days
674 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
677 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
805 CPU Time (total for run) = 0.03 sec = 0.00001 hr
806 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
686 CPU Time (total for run) = 0.02 sec = 0.00001 hr
687 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
848 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
850 Time Step No. = 2 Elapsed Time = 2.314815E-03 days
851 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
854 *****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
729 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
731 Time Step No. = 2 Elapsed Time = 2.314815E-03 days
732 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
735 *****
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 862 CPU Time (this time step) = 0.01 sec = 0.00000 hr
 863 CPU Time (total for run) = 0.04 sec = 0.00001 hr
 864 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
 743 CPU Time (this time step) = 0.00 sec = 0.00000 hr
 744 CPU Time (total for run) = 0.02 sec = 0.00001 hr
 745 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 906 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 908 Time Step No. = 3 Elapsed Time = 3.472222E-03 days
 909 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 912 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
 787 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
 789 Time Step No. = 3 Elapsed Time = 3.472222E-03 days
 790 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
 793 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 921 CPU Time (total for run) = 0.04 sec = 0.00001 hr
 922 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
 802 CPU Time (total for run) = 0.02 sec = 0.00001 hr
 803 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 964 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 966 Time Step No. = 4 Elapsed Time = 4.629630E-03 days
 967 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 970 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
 845 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
 847 Time Step No. = 4 Elapsed Time = 4.629630E-03 days
 848 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
 851 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 979 CPU Time (total for run) = 0.04 sec = 0.00001 hr
 980 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
 860 CPU Time (total for run) = 0.02 sec = 0.00001 hr
 861 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1022 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
1024 Time Step No. = 5 Elapsed Time = 5.787037E-03 days
1025 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
1028 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
 903 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
 905 Time Step No. = 5 Elapsed Time = 5.787037E-03 days
 906 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
 909 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1036 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1037 CPU Time (total for run) = 0.04 sec = 0.00001 hr
1038 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
 917 CPU Time (this time step) = 0.01 sec = 0.00000 hr
```

```
918 CPU Time (total for run) = 0.03 sec = 0.00001 hr
919 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1080 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
1082 Time Step No. = 6 Elapsed Time = 6.944444E-03 days
1083 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
1086 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
961 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
963 Time Step No. = 6 Elapsed Time = 6.944444E-03 days
964 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
967 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1095 CPU Time (total for run) = 0.04 sec = 0.00001 hr
1096 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
976 CPU Time (total for run) = 0.03 sec = 0.00001 hr
977 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1138 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
1140 Time Step No. = 7 Elapsed Time = 8.101852E-03 days
1141 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
1144 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
1019 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
1021 Time Step No. = 7 Elapsed Time = 8.101852E-03 days
1022 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
1025 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1153 CPU Time (total for run) = 0.04 sec = 0.00001 hr
1154 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
1034 CPU Time (total for run) = 0.03 sec = 0.00001 hr
1035 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1196 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
1198 Time Step No. = 8 Elapsed Time = 9.259259E-03 days
1199 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
1202 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
1077 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
1079 Time Step No. = 8 Elapsed Time = 9.259259E-03 days
1080 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
1083 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1210 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1211 CPU Time (total for run) = 0.05 sec = 0.00001 hr
1212 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
1091 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1092 CPU Time (total for run) = 0.03 sec = 0.00001 hr
1093 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1254 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
1256 Time Step No. = 9 Elapsed Time = 1.041667E-02 days
1257 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
```

```
1260 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
1135 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
1137 Time Step No. = 9 Elapsed Time = 1.041667E-02 days
1138 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
1141 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1269 CPU Time (total for run) = 0.05 sec = 0.00001 hr
1270 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
1150 CPU Time (total for run) = 0.03 sec = 0.00001 hr
1151 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1312 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
1314 Time Step No. = 10 Elapsed Time = 1.157407E-02 days
1315 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
1320 *****
1321 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
1322 * Completed: 02/13/07 at 14:11:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
1323 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
1193 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
1195 Time Step No. = 10 Elapsed Time = 1.157407E-02 days
1196 Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
1201 *****
1202 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
1203 * Completed: 04/12/06 at 14:06:30 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
1204 *****
*****
```

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

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

A.8.4 Test Case 8: Output Difference Files, BF2_QB0600_ES40_TEST8_OUT.DIF and BF2_QB0600_ES45_TEST8_OUT.DIF

BF2_QB0600_ES40_TEST8_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
3 ** Begun on: 02/14/07 at 08:53:09 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
3 ** Begun on: 02/13/07 at 14:11:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_TEST8.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_TEST8.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_CLOSURE.DAT;1
67 *****
```

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
  735 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
  738 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  735 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  738 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
  746 CPU Time (this time step) = 0.05 sec = 0.00001 hr
  747 CPU Time (total for run) = 0.05 sec = 0.00001 hr
  748 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  746 CPU Time (this time step) = 0.03 sec = 0.00001 hr
  747 CPU Time (total for run) = 0.03 sec = 0.00001 hr
  748 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
  790 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
  792 Time Step No. = 1 Elapsed Time = 1.157407E-03 days
  793 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
  796 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  790 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
  792 Time Step No. = 1 Elapsed Time = 1.157407E-03 days
  793 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  796 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
  805 CPU Time (total for run) = 0.05 sec = 0.00001 hr
  806 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  805 CPU Time (total for run) = 0.03 sec = 0.00001 hr
  806 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
```

```
848 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
850 Time Step No. = 2 Elapsed Time = 2.314815E-03 days
851 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
854 *****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
848 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
850 Time Step No. = 2 Elapsed Time = 2.314815E-03 days
851 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
854 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
862 CPU Time (this time step) = 0.00 sec = 0.00000 hr
863 CPU Time (total for run) = 0.05 sec = 0.00001 hr
864 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
862 CPU Time (this time step) = 0.01 sec = 0.00000 hr
863 CPU Time (total for run) = 0.04 sec = 0.00001 hr
864 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
906 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
908 Time Step No. = 3 Elapsed Time = 3.472222E-03 days
909 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
912 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
906 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
908 Time Step No. = 3 Elapsed Time = 3.472222E-03 days
909 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
912 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
921 CPU Time (total for run) = 0.05 sec = 0.00001 hr
922 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
921 CPU Time (total for run) = 0.04 sec = 0.00001 hr
922 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
964 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
966 Time Step No. = 4 Elapsed Time = 4.629630E-03 days
967 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
970 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
964 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
966 Time Step No. = 4 Elapsed Time = 4.629630E-03 days
967 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
970 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
978 CPU Time (this time step) = 0.01 sec = 0.00000 hr
979 CPU Time (total for run) = 0.06 sec = 0.00002 hr
980 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
978 CPU Time (this time step) = 0.00 sec = 0.00000 hr
979 CPU Time (total for run) = 0.04 sec = 0.00001 hr
980 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
1022 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
1024 Time Step No. = 5 Elapsed Time = 5.787037E-03 days
1025 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
1028 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
```

```
1022 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
1024 Time Step No. = 5 Elapsed Time = 5.787037E-03 days
1025 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
1028 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
1037 CPU Time (total for run) = 0.06 sec = 0.00002 hr
1038 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1037 CPU Time (total for run) = 0.04 sec = 0.00001 hr
1038 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
1080 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
1082 Time Step No. = 6 Elapsed Time = 6.944444E-03 days
1083 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
1086 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1080 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
1082 Time Step No. = 6 Elapsed Time = 6.944444E-03 days
1083 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
1086 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
1095 CPU Time (total for run) = 0.06 sec = 0.00002 hr
1096 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1095 CPU Time (total for run) = 0.04 sec = 0.00001 hr
1096 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
1138 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
1140 Time Step No. = 7 Elapsed Time = 8.101852E-03 days
1141 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
1144 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1138 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
1140 Time Step No. = 7 Elapsed Time = 8.101852E-03 days
1141 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
1144 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
1153 CPU Time (total for run) = 0.06 sec = 0.00002 hr
1154 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1153 CPU Time (total for run) = 0.04 sec = 0.00001 hr
1154 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
1196 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
1198 Time Step No. = 8 Elapsed Time = 9.259259E-03 days
1199 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
1202 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1196 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
1198 Time Step No. = 8 Elapsed Time = 9.259259E-03 days
1199 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
1202 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
1211 CPU Time (total for run) = 0.07 sec = 0.00002 hr
1212 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1211 CPU Time (total for run) = 0.05 sec = 0.00001 hr
1212 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
1254 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
1256 Time Step No. = 9 Elapsed Time = 1.041667E-02 days
1257 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
1260 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1254 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
1256 Time Step No. = 9 Elapsed Time = 1.041667E-02 days
1257 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
1260 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
1269 CPU Time (total for run) = 0.07 sec = 0.00002 hr
1270 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1269 CPU Time (total for run) = 0.05 sec = 0.00001 hr
1270 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
1312 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
1314 Time Step No. = 10 Elapsed Time = 1.157407E-02 days
1315 Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
1320 *****
1321 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
1322 * Completed: 02/14/07 at 08:53:09 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
1323 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1312 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
1314 Time Step No. = 10 Elapsed Time = 1.157407E-02 days
1315 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
1320 *****
1321 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
1322 * Completed: 02/13/07 at 14:11:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
1323 *****
*****
```

Number of difference sections found: 27
Number of difference records found: 53

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
```

BF2_QB0600_ES45_TEST8_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
3 ** Begun on: 02/14/07 at 09:15:13 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
3 ** Begun on: 02/13/07 at 14:11:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_TEST8.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_TEST8.INP;1
62 *****
*****
```



```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
  735 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) Binary
  738 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  735 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  738 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
  746 CPU Time (this time step) = 0.01 sec = 0.00000 hr
  747 CPU Time (total for run) = 0.01 sec = 0.00000 hr
  748 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  746 CPU Time (this time step) = 0.03 sec = 0.00001 hr
  747 CPU Time (total for run) = 0.03 sec = 0.00001 hr
  748 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
  790 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) ASCII
  792 Time Step No. = 1 Elapsed Time = 1.157407E-03 days
  793 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) Binary
  796 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  790 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
  792 Time Step No. = 1 Elapsed Time = 1.157407E-03 days
  793 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  796 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
  805 CPU Time (total for run) = 0.01 sec = 0.00000 hr
  806 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  805 CPU Time (total for run) = 0.03 sec = 0.00001 hr
```

```
806 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
848 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) ASCII
850 Time Step No. = 2 Elapsed Time = 2.314815E-03 days
851 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) Binary
854 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
848 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
850 Time Step No. = 2 Elapsed Time = 2.314815E-03 days
851 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
854 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
862 CPU Time (this time step) = 0.00 sec = 0.00000 hr
863 CPU Time (total for run) = 0.01 sec = 0.00000 hr
864 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
862 CPU Time (this time step) = 0.01 sec = 0.00000 hr
863 CPU Time (total for run) = 0.04 sec = 0.00001 hr
864 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
906 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) ASCII
908 Time Step No. = 3 Elapsed Time = 3.472222E-03 days
909 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) Binary
912 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
906 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
908 Time Step No. = 3 Elapsed Time = 3.472222E-03 days
909 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
912 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
920 CPU Time (this time step) = 0.01 sec = 0.00000 hr
921 CPU Time (total for run) = 0.02 sec = 0.00001 hr
922 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
920 CPU Time (this time step) = 0.00 sec = 0.00000 hr
921 CPU Time (total for run) = 0.04 sec = 0.00001 hr
922 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
964 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
966 Time Step No. = 4 Elapsed Time = 4.629630E-03 days
967 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
970 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
964 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
966 Time Step No. = 4 Elapsed Time = 4.629630E-03 days
967 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
970 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
979 CPU Time (total for run) = 0.02 sec = 0.00001 hr
980 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
979 CPU Time (total for run) = 0.04 sec = 0.00001 hr
980 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
1022 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
1024 Time Step No. = 5 Elapsed Time = 5.787037E-03 days
```

```
1025 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
1028 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1022 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
1024 Time Step No. = 5 Elapsed Time = 5.787037E-03 days
1025 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
1028 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
1037 CPU Time (total for run) = 0.02 sec = 0.00001 hr
1038 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1037 CPU Time (total for run) = 0.04 sec = 0.00001 hr
1038 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
1080 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
1082 Time Step No. = 6 Elapsed Time = 6.944444E-03 days
1083 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
1086 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1080 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
1082 Time Step No. = 6 Elapsed Time = 6.944444E-03 days
1083 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
1086 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
1095 CPU Time (total for run) = 0.02 sec = 0.00001 hr
1096 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1095 CPU Time (total for run) = 0.04 sec = 0.00001 hr
1096 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
1138 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
1140 Time Step No. = 7 Elapsed Time = 8.101852E-03 days
1141 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
1144 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1138 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
1140 Time Step No. = 7 Elapsed Time = 8.101852E-03 days
1141 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
1144 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
1153 CPU Time (total for run) = 0.02 sec = 0.00001 hr
1154 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1153 CPU Time (total for run) = 0.04 sec = 0.00001 hr
1154 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
1196 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
1198 Time Step No. = 8 Elapsed Time = 9.259259E-03 days
1199 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
1202 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1196 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
1198 Time Step No. = 8 Elapsed Time = 9.259259E-03 days
1199 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
1202 *****
*****
*****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
1210 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1211 CPU Time (total for run) = 0.02 sec = 0.00001 hr
1212 *****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1210 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1211 CPU Time (total for run) = 0.05 sec = 0.00001 hr
1212 *****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
1254 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
1256 Time Step No. = 9 Elapsed Time = 1.041667E-02 days
1257 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
1260 *****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1254 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
1256 Time Step No. = 9 Elapsed Time = 1.041667E-02 days
1257 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
1260 *****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
1268 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1269 CPU Time (total for run) = 0.03 sec = 0.00001 hr
1270 *****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1268 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1269 CPU Time (total for run) = 0.05 sec = 0.00001 hr
1270 *****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
1312 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
1314 Time Step No. = 10 Elapsed Time = 1.157407E-02 days
1315 Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
1320 *****
1321 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
1322 * Completed: 02/14/07 at 09:15:13 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
1323 *****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
1312 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
1314 Time Step No. = 10 Elapsed Time = 1.157407E-02 days
1315 Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
1320 *****
1321 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
1322 * Completed: 02/13/07 at 14:11:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
1323 *****
```

Number of difference sections found: 27
Number of difference records found: 55

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
```

A.9 Test Case 9 Files

A.9.1 Test Case 9: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST9_HETER_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST9_HETER.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_Test9_HETER.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_Test9_HETER.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_Test9_HETER.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_Test9_HETER.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_Test9_HETER.ROT  
$ set noverify  
  
image name: "BRAGFLO_QB0600"  
image file identification: "P QB0600 6.0"  
image file build identification: ""  
link date/time: 12-FEB-2007 14:57:24.36  
linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST9_HETER_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST9_HETER.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_Test9_HETER.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_Test9_HETER.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_Test9_HETER.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_Test9_HETER.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_Test9_HETER.ROT  
$ set noverify  
  
image name: "BRAGFLO_QB0600"  
image file identification: "P QB0600 6.0"  
image file build identification: ""  
link date/time: 12-FEB-2007 14:57:24.36  
linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST9_HETER_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST9_HETER.INP  
$ DEFINE bf2_uifold$input   working_dir:BF2_TEST9_HETER_QA0500.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_Test9_HETER.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_Test9_HETER.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_Test9_HETER.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_Test9_HETER.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_Test9_HETER.ROT
```

```
$ set noverify

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

$ show symbol bragflo_exe
```

BF2_QB0600_ES40_TEST9_HOMOG_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST9_HOMOG.INP
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_Test9_HOMOG.OUT
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_Test9_HOMOG.SUM
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_Test9_HOMOG.BIN
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_Test9_HOMOG.RIN
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_Test9_HOMOG.ROT
$ set noverify

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

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

BF2_QB0600_ES45_TEST9_HOMOG_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST9_HOMOG.INP
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_Test9_HOMOG.OUT
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_Test9_HOMOG.SUM
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_Test9_HOMOG.BIN
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_Test9_HOMOG.RIN
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_Test9_HOMOG.ROT
$ set noverify

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

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

BF2_QB0600_ES47_TEST9_HOMOG_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST9_HOMOG.INP
$ DEFINE bf2_uifold$input   working_dir:BF2_TEST9_HOMOG_QA0500.INP
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT
```

```
$ DEFINE bf2_dbg$output working_dir:BF2_QB0600_ES47_Test9_HOMOG.OUT
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES47_Test9_HOMOG.SUM
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES47_Test9_HOMOG.BIN
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES47_Test9_HOMOG.RIN
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES47_Test9_HOMOG.ROT
$ set noverify
```

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

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

A.9.2 Test Case 9: Input Files, BF2_QB0600_TEST9_HETER.INP and BF2_QB0600_TEST9_HOMOG.INP

BF2_QB0600_TEST9_HETER.INP

```
BF2_TEST9_HETER.INP: HETEROGENEOUS RESERVOIR CONDITIONS
SPECIFY FILES: ASCII OUT, BIN OUT, ASCII SUM, RESTART OUT, RESTART IN
T T T F F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
1 15 1 1
TSTART, TMAX, MAXSTEPS
0.0 1.E5 200
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
1.0E1 0.99999E1 1.E4 1.2 1 1.0000E-02
NUMBER OF TIME TO FIX TIME STEP: NDTFIX
0
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
2 0 0 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
1
OUTPUT TIMES
1.E+04
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
200
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
200
ASCII PRINT FLAGS
1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 1
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
BINARY PRINT FLAGS
1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 1
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
NUMBER OF HISTORY VARIABLES;
0
MONITOR PARAMETER VALUES AT 1 GRIDBLOCK
T
NUMBER OF MONITOR BLOCKS
1
MONITOR BLOCK (I,J,K)
1 1 1
GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
0 0 0 0
GRID DATA CARDS: GRID BLOCK DX'S
1.0
GRID DATA CARDS: GRID BLOCK DY'S
1.0
```

```
GRID DATA CARDS: GRID BLOCK DZ'S
1.0
DEPTH
0.0
WELL DATA
1
0.0 2
1 1 1 1
INJQ
0.0 0.1 1.0 1.E5
15 1 1 1
INJQ
0.0 -0.1 1.0 1.E5
DIRICHLET CONDITIONS
F 0
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
15*1.0E+06
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
15*0.999999999
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
15*0.0
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
15*0.0
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
15*0.0
DSATLIM, DPRESLIM, SATLIMIT
1.0000E-01 -1.0000E+07 1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
6.0000E-01 1.0000E+06
DDEPMAX(1) DDEPMAX(2)
1.000 1.0E7
CONVERGENCE TEST FLAG: 0=OR, 1=AND
1
EPS_SAT, EPS_PRES: NORMAL CONVERGENCE CRITERIA
5.0000E+00 1.0000E-05
EPS_SAT, EPS_PRES: LOOSE CONVERGENCE CRITERIA
5.0000E+00 1.0000E-05
FTOL SAT FTOL PRESS: NORMAL CONVERGENCE CRITERIA
1.0000E-06 1.00000E-6
FTOL SAT FTOL PRESS: LOOSE CONVERGENCE CRITERIA
1.0000E-06 1.00000E-6
EPSGAS1 EPSGAS2 EPSGAS3 EPSGAS4: GAS MODEL CONVERGENCE CRITERIA
1.0E-05 1.0E-05 1.0E-05 1.0E-05
LINEAR EQUATION SOLVER TYPE
LU
ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWTCH
40 40 1 F 1.0000E+07 F
IUPRFLAG, IUPMFFLAG, DT_REDU, ITRAVE, IMFAVE
40 40 5.0000E-01 1 0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPFLOOSE, IUPMFLOOSE
40 40 40 40 40
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
1.0000E-08 1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
1.0000E-09 1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
1
START TIME FOR MAP 1
0.0
MATERIAL TYPE GRID MAP
5*1 5*2 5*3
# NAME
1 ROCK1
2 ROCK2
3 ROCK3
NWST
0
NDRZ
0
NUMRESET
0
MAT_BOREHOLE
0
RESET TIME, ICWASTE
0.0 0
POWASTEIC
```



```
0.0
SOWASTEIC
0.0
PRESDRZ
0.0
NBORERESET
0
# LAMBDA      SOR      SGR
1 7.00E-01    0.0      0.0
2 7.00E-01    0.0      0.0
3 7.00E-01    0.0      0.0
# SBMIN  POMIN  PCMAX  PCTA  PCTEXP  KRP  KPC  KPT
1 0.2  1.01325E5 1.0000E8 0.0  0.0E+00  4  1  0
2 0.2  1.01325E5 1.0000E8 0.0  0.0E+00  4  1  0
3 0.2  1.01325E5 1.0000E8 0.0  0.0E+00  4  1  0
# PERMX  PERMY  PERMZ  POROSITY  COMPRES
1 0.250E-11  0.250E-11  0.250E-11 1.0000E-01  1.0E-10
2 1.000E-11  1.000E-11  1.000E-11 1.0000E-01  1.0E-10
3 0.250E-11  0.250E-11  0.250E-11 1.0000E-01  1.0E-10
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL FLAG
F
KLINKENBERG EFFECT
F
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
300. 1.01325E+05
SALT(WT.%) DEN_BR      KGSAT  IDGAS  COMPR_BR  WMSALT  WMH2O
0.0  1.00E+03  0  0  0.0  58.442468D-03  18.01528D-03
VISC_BR  VISC_GAS
1.0000E-03  8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, O2, NGAS, AND NLGAS
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUAL USED (NGAS) AND COMPONENT NUMBER (NLGAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.0000D+00 +0.0000D+00
IGASVAR (1=GENERATION USING REACTION SOURCE; 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
0.0 0.0 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1.0 1.0
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0 0.0
RATE COEFFICIENTS: RXH2S AND RXCO2
CHEMISTRY CUTOFF SATURATION: SOCMIN
```

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

BF2_QB0600_TEST9_HOMOG.INP

```
BF2_TEST9_HOMOG.INP: HOMOGENEOUS RESERVOIR CONDITIONS
SPECIFY FILES: ASCII OUT, BIN OUT, ASCII SUM, RESTART OUT, RESTART IN
T T T F F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
1 15 1 1
TSTART, TMAX, MAXSTEPS
0.0 1.E5 200
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
1.0E1 0.99999E1 1.E4 1.2 1 1.0000E-02
NUMBER OF TIME TO FIX TIME STEP: NDTFIX
0
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
2 0 0 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
1
OUTPUT TIMES
1.E+04
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
200
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
200
ASCII PRINT FLAGS
1 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
BINARY PRINT FLAGS
1 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
NUMBER OF HISTORY VARIABLES;
0
MONITOR PARAMETER VALUES AT 1 GRIDBLOCK
T
NUMBER OF MONITOR BLOCKS
1
MONITOR BLOCK (I,J,K)
1 1 1
GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
```

```
0 0 0 0
GRID DATA CARDS: GRID BLOCK DX'S
1.0
GRID DATA CARDS: GRID BLOCK DY'S
1.0
GRID DATA CARDS: GRID BLOCK DZ'S
1.0
DEPTH
0.0
WELL DATA
1
0.0 2
1 1 1 1
INJQ
0.0 0.1 1.0 1.E5
15 1 1 1
INJQ
0.0 -0.1 1.0 1.E5
DIRICHLET CONDITIONS
F 0
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
15*1.0E+06
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
15*0.999999999
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
15*0.0
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
15*0.0
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
15*0.0
DSATLIM, DPRESLIM, SATLIMIT
1.0000E-01 -1.0000E+07 1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
6.0000E-01 1.0000E+06
DDEPMAX(1) DDEPMAX(2)
1.000 1.0E7
CONVERGENCE TEST FLAG: 0=OR, 1=AND
1
EPS_SAT, EPS_PRES: NORMAL CONVERGENCE CRITERIA
5.0000E+00 1.0000E-05
EPS_SAT, EPS_PRES: LOOSE CONVERGENCE CRITERIA
5.0000E+00 1.0000E-05
FTOL SAT FTOL PRESS: NORMAL CONVERGENCE CRITERIA
1.0000E-06 1.0000E-6
FTOL SAT FTOL PRESS: LOOSE CONVERGENCE CRITERIA
1.0000E-06 1.0000E-6
EPGAS1 EPGAS2 EPGAS3 EPGAS4: GAS MODEL CONVERGENCE CRITERIA
1.0E-05 1.0E-05 1.0E-05 1.0E-05
LINEAR EQUATION SOLVER TYPE
LU
ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWTCH
40 40 1 F 1.0000E+07 F
IUPRFLAG, IUPMFFLAG, DT_REDU, ITRAVE, IMFAVE
40 40 5.0000E-01 1 0
IJACSWITCH, IJACMIN, IJACRESET, IUPRFLOOSE, IUPMFLOOSE
40 40 40 40 40
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
1.0000E-08 1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
1.0000E-09 1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
1
START TIME FOR MAP 1
0.0
MATERIAL TYPE GRID MAP
15*1
# NAME
1 ROCK
NWST
0
NDRZ
0
NUMRESET
0
MAT_BOREHOLE
0
```

```
RESET TIME, ICWASTE
0.0 0
POWASTEIC
0.0
SOWASTEIC
0.0
PRESDRZ
0.0
NBORERESET
0
# LAMBDA SOR SGR
1 7.00E-01 0.0 0.0
# SBMIN POMIN PCMAX PCTA PCTEXP KRP KPC KPT
1 0.2 1.01325E5 1.0000E8 0.0 0.0E+00 4 1 0
# PERMX PERMY PERMZ POROSITY COMPRES
1 1.000E-11 1.000E-11 1.000E-11 1.0000E-01 1.0E-10
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL FLAG
F
KLINKENBURG EFFECT
F
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
300. 1.01325E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
0.0 1.00E+03 0 0 0.0 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.0000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, O2, NGAS, AND N1GAS
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WEIGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.0000D+00 +0.0000D+00
IGASVAR (1=GENERATION USING REACTION SOURCE; 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
0.0 0.0 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1.0 1.0
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0 0.0
RATE COEFFICIENTS: RXH2S AND RXCO2
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
```

```
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.4000E+03 4.7000E+03 1.1000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.3700E+03 3.0500E+03 2.1700E+03
WICKING SATURATION, LARXN, ALPHARXN
0.0000E+00 F F 5.0000E+01
WILL CREEP CLOSURE BE ACTIVATED?
F
WILL RADIONUCLIDE DECAY BE CALCULATED?
F
WILL TRANSPORT BE ACTIVATED?
F
WILL RADIOLYSIS BE CALCULATED?
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

A.9.3 Test Case 9: Output Difference Files, BF2_QB0600_ES47_TEST9_HETER_OUT.DIF and BF2_QB0600_ES47_TEST9_HOMOG_OUT.DIF

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

BF2_QB0600_ES47_TEST9_HETER_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
2  ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3  ** Begun on: 02/13/07 at 14:11:54 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
2  ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3  ** Begun on: 04/12/06 at 14:08:55 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
61  PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_TEST9_HETER.INP;1
62  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
61  PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST9HETER]BF2_TEST9_HETER_QA0500.INP;2
62  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
66  PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_CLOSURE.DAT;1
67  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
66  PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST9HETER]BF2_CLOSURE.DAT;1
67  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
71  PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
72  ****
```

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
  71 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST9HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
  76 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST9HETER]BF2_VMS82_V500_ES47_TEST9_HETER.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
  81 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST9HETER]BF2_VMS82_V500_ES47_TEST9_HETER.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  129 Restart output timestep interval (IPRNTRST) = 200
  131 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
  129 Restart output timestep interval (IPRNTRST) =200
  131 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  182 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  183 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  184 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  185 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  186 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  187 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  188 49 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  189 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  190 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  191 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  192 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  193 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  194 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  195 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  196 57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  197 58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  198 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  199 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  200 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  201 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  202 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  203 64 0 0 CONCST Salt concentration -- simple model kg/m^3
  204 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  205 66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  206 67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  207 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  208 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  209 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  210 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  211 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  212 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  213 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  214 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  215 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  216 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
```

```
217 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
218 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
219 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
220 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
221 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
222 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
223 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
224 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
225 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
226 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
227 88 0 0 CONCRXN(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
228 89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
229 90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
230 91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
231 92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
232 93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
233 94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
234 95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
235 96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
236 97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
237 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
238 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
239 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
240 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
241 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
242 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
243 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
244 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
245 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
246 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
247 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
248 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
249 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
250 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
251 112 0 0 H2OFLOWIN Water inflow rate kg/s
252 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
253 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
254 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
255 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
256 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
257 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
258 119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
259 120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
260 121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
261 122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
262 123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
263 124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
265
```



```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
182 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
183 44 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
184 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
185 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
186 47 0 0 CONCFE Fe concentration -- simple model kg/m^3
187 48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
188 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
189 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
190 51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
191 52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
192 53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
193 54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
194 55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
195 56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
196 57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
197 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
198 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
199 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
200 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
201 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
```

```
202 63 0 0 GENRAT(15,I,J,K) FeCO3_0 generation rate -- reaction path model kg/(s*m^3)
203 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
204 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
205 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
206 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
207 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
208 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
209 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
210 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
211 72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
212 73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
213 74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
214 75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
215 76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
216 77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
217 78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
218 79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
219 80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
220 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
221 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
222 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
223 84 0 0 CONCRXN(13,I,J,K) FeS2_0 concentration -- reaction path model kg/m^3
224 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
225 86 0 0 CONCRXN(15,I,J,K) FeCO3_0 concentration -- reaction path model kg/m^3
226 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
227 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
228 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
229 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
230 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
231 92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
232 93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
233 94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
234 95 0 0 H2FLOWIN Water inflow rate kg/s
235 96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
236 97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
237 98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
238 99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
239 100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
240 101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
241 102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
242 103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
243 104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
244 105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
245 106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
246 107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
248
```



```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
 437 instead of Input IC's for the Cavities
 438 [0=No, 1=Yes] (ICWASTE) = 0
 440 Uniform Cavity Region
 441 Uniform Cavity Region
 443 -----
```

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
 420 instead of Input IC's for the Waste
 421 [0=No, 1=Yes] (ICWASTE) = 0
 423 Uniform Waste Region
 424 Uniform Waste Region
 426 -----
```

```
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
 474 TOL = 1.0000E-02
 475 SOCEFFMIN = 1.0000E-03
 477 Fracture model will be used? (KFRACTURE): F
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
 458 Fracture model will be used? (KFRACTURE): F
*****
```

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1

576 **Intrinsic reaction rate constants? (LINTRIN): F**
578 Reaction rate constants (RK):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1

557 Reaction rate constants (RK):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1

586 **MgO hydration reaction rate constants:**
587 **Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)**
588 **Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)**
590 **Saturation cutoff value (SOCMIN): 0.000000E+00**
592 **Stoichiometric coeff's for Rxn 1:**
593 **H2 coefficient = 0.000000E+00**
594 **H2O coefficient = 0.000000E+00**
595 **Fe coefficient = 0.000000E+00**
596 **Bio coefficient = 0.000000E+00**
597 **Fe(OH)2 coefficient = 0.000000E+00**
598 **FeS coefficient = 0.000000E+00**
599 **MgO coefficient = 0.000000E+00**
600 **Mg(OH)2 coefficient = 0.000000E+00**
601 **MgCO3 coefficient = 0.000000E+00**
603 **Stoichiometric coeff's for Rxn 2:**
604 **H2 coefficient = 0.000000E+00**
605 **H2O coefficient = 0.000000E+00**
606 **Fe coefficient = 0.000000E+00**
607 **Bio coefficient = 0.000000E+00**
608 **Fe(OH)2 coefficient = 0.000000E+00**
609 **FeS coefficient = 0.000000E+00**
610 **MgO coefficient = 0.000000E+00**
611 **Mg(OH)2 coefficient = 0.000000E+00**
612 **MgCO3 coefficient = 0.000000E+00**
614 **Stoichiometric coeff's for Rxn 3:**
615 **H2 coefficient = 0.000000E+00**
616 **H2O coefficient = 0.000000E+00**
617 **Fe coefficient = 0.000000E+00**
618 **Bio coefficient = 0.000000E+00**
619 **Fe(OH)2 coefficient = 0.000000E+00**
620 **FeS coefficient = 0.000000E+00**
621 **MgO coefficient = 0.000000E+00**
622 **Mg(OH)2 coefficient = 0.000000E+00**
623 **MgCO3 coefficient = 0.000000E+00**
625 **Stoichiometric coeff's for Rxn 4:**
626 **H2 coefficient = 0.000000E+00**
627 **H2O coefficient = 0.000000E+00**
628 **Fe coefficient = 0.000000E+00**
629 **Bio coefficient = 0.000000E+00**
630 **Fe(OH)2 coefficient = 0.000000E+00**
631 **FeS coefficient = 0.000000E+00**
632 **MgO coefficient = 0.000000E+00**
633 **Mg(OH)2 coefficient = 0.000000E+00**
634 **MgCO3 coefficient = 0.000000E+00**
636 **Stoichiometric coeff's for Rxn 5:**
637 **H2 coefficient = 0.000000E+00**
638 **H2O coefficient = 0.000000E+00**
639 **Fe coefficient = 0.000000E+00**
640 **Bio coefficient = 0.000000E+00**
641 **Fe(OH)2 coefficient = 0.000000E+00**
642 **FeS coefficient = 0.000000E+00**
643 **MgO coefficient = 0.000000E+00**
644 **Mg(OH)2 coefficient = 0.000000E+00**
645 **MgCO3 coefficient = 0.000000E+00**
647 **Stoichiometric coeff's for Rxn 6:**
648 **H2 coefficient = 0.000000E+00**
649 **H2O coefficient = 0.000000E+00**
650 **Fe coefficient = 0.000000E+00**
651 **Bio coefficient = 0.000000E+00**
652 **Fe(OH)2 coefficient = 0.000000E+00**

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653 FeS coefficient = 0.000000E+00
654 MgO coefficient = 0.000000E+00
655 Mg(OH)2 coefficient = 0.000000E+00
656 MgCO3 coefficient = 0.000000E+00
658 Stoichiometric coeff's for Rxn 7:
659 H2 coefficient = 0.000000E+00
660 H2O coefficient = 0.000000E+00
661 Fe coefficient = 0.000000E+00
662 Bio coefficient = 0.000000E+00
663 Fe(OH)2 coefficient = 0.000000E+00
664 FeS coefficient = 0.000000E+00
665 MgO coefficient = 0.000000E+00
666 Mg(OH)2 coefficient = 0.000000E+00
667 MgCO3 coefficient = 0.000000E+00
669 Wicking term (SATWICK) = 0.000000E+00
670 Humid rates to be smoothed? (LARXN) = F
671 Concentration rates to be smoothed? (LARXN2) = F
672 Humid rate smoothing factor (ALPHARXN) = 5.000000E+01
674 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
565 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
566 Gas coefficient = 1.000000E+00
567 H2O coefficient = 0.000000E+00
568 Fe coefficient = 1.000000E+00
570 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
571 Gas coefficient = 1.000000E+00
572 H2O coefficient = 0.000000E+00
573 Bio coefficient = 1.000000E+00
575 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
678 Bio: 2.7023E-02 kg/mol
680 Molecular weights (WM):
681 Fe(OH)2: 8.9862E-02 kg/mol
682 FeS: 8.7900E-02 kg/mol
683 MgO: 4.0304E-02 kg/mol
684 Mg(OH)2: 5.8320E-02 kg/mol
685 MgCO3: 8.4314E-02 kg/mol
687 Densities (DEN(1-4)):
688 Fe: 7.8700E+03 kg/m3
689 Fe(OH)2: 3.4000E+03 kg/m3
690 FeS: 4.7000E+03 kg/m3
691 Bio: 1.1000E+03 kg/m3
693 Densities (DEN(5-8)):
694 MgO: 3.6000E+03 kg/m3
695 Mg(OH)2: 2.3700E+03 kg/m3
696 MgCO3: 3.0500E+03 kg/m3
697 SALT: 2.1700E+03 kg/m3
699 Will creep closure be used (CLOSURE): F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
579 Bio: 3.0026E-02 kg/mol
581 Wicking term (SATWICK) = 0.000000E+00
582 Humid rates to be smoothed? (LARXN) = F
583 Humid rate smoothing factor (ALPHARXN) = 5.000000E+01
585 Will creep closure be used (CLOSURE): F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
777 Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
780 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
663 Date: 04/12/06 Time: 14:08:55 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
666 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
789 CPU Time (total for run) = 0.06 sec = 0.00002 hr
790 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
675 CPU Time (total for run) = 0.05 sec = 0.00001 hr
676 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
825 Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
827 Time Step No. = 30 Elapsed Time = 1.157407E-01 days
828 Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
831 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
711 Date: 04/12/06 Time: 14:08:55 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
713 Time Step No. = 30 Elapsed Time = 1.157407E-01 days
714 Date: 04/12/06 Time: 14:08:55 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
717 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
840 CPU Time (total for run) = 0.07 sec = 0.00002 hr
841 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
726 CPU Time (total for run) = 0.06 sec = 0.00002 hr
727 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
876 Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
878 Time Step No. = 44 Elapsed Time = 1.157407E+00 days
879 Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
884 *****
885 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
886 * Completed: 02/13/07 at 14:11:54 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
887 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
762 Date: 04/12/06 Time: 14:08:55 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
764 Time Step No. = 44 Elapsed Time = 1.157407E+00 days
765 Date: 04/12/06 Time: 14:08:55 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
770 *****
771 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
772 * Completed: 04/12/06 at 14:08:55 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
773 *****
*****
```

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

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

BF2_QB0600_ES47_TEST9_HOMOG_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3 ** Begun on: 02/13/07 at 14:12:02 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
2 ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3 ** Begun on: 04/12/06 at 14:18:16 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_TEST9_HOMOG.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
61 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST9HOMOG]BF2_TEST9_HOMOG_QA0500.INP;2
```

```
62 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
66 PAA: [ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
66 PAA: [ANALYSIS.VMS82.BF2.V500.ES47.TEST9HOMOG]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
71 PAA: [ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
72 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
71 PAA: [ANALYSIS.VMS82.BF2.V500.ES47.TEST9HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
72 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
76 PAA: [ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.SUM;1
77 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
76 PAA: [ANALYSIS.VMS82.BF2.V500.ES47.TEST9HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.SUM;1
77 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
81 PAA: [ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.BIN;1
82 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
81 PAA: [ANALYSIS.VMS82.BF2.V500.ES47.TEST9HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.BIN;1
82 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
129 Restart output timestep interval (IPRNTRST) = 200
131 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
129 Restart output timestep interval (IPRNTRST) =200
131 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
182 43 0 0 RKNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
183 44 0 0 RKNR(I,J,K,6) Fe sulfidation rate mol/s
184 45 0 0 RKNR(I,J,K,7) MgO hydration rate mol/s
185 46 0 0 RKNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
186 47 0 0 RKNR(I,J,K,9) MgO carbonation rate mol/s
187 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
188 49 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
189 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
190 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
191 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
192 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
193 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
194 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
195 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
196 57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
197 58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
198 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
199 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
200 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
201 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
202 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
```

203 64 0 0 CONCS_T Salt concentration -- simple model kg/m³
204 65 0 0 POR_{SOLID} Volume fraction of generated solids dimensionless
205 66 0 0 GEN_{RAT}(1,I,J,K) H₂ generation rate -- reaction path model kg/(s*m³)
206 67 0 0 GEN_{RAT}(2,I,J,K) CO₂ generation rate -- reaction path model kg/(s*m³)
207 68 0 0 GEN_{RAT}(3,I,J,K) CH₄ generation rate -- reaction path model kg/(s*m³)
208 69 0 0 GEN_{RAT}(4,I,J,K) N₂ generation rate -- reaction path model kg/(s*m³)
209 70 0 0 GEN_{RAT}(5,I,J,K) H₂S generation rate -- reaction path model kg/(s*m³)
210 71 0 0 GEN_{RAT}(6,I,J,K) O₂ generation rate -- reaction path model kg/(s*m³)
211 72 0 0 GEN_{RAT}(7,I,J,K) H₂O generation rate -- reaction path model kg/(s*m³)
212 73 0 0 GEN_{RAT}(8,I,J,K) H₂SO₄ generation rate -- reaction path model kg/(s*m³)
213 74 0 0 GEN_{RAT}(9,I,J,K) HNO₃ generation rate -- reaction path model kg/(s*m³)
214 75 0 0 GEN_{RAT}(10,I,J,K) C₆-H₁₀-O₅ consumption rate -- reaction path model kg/(s*m³)
215 76 0 0 GEN_{RAT}(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m³)
216 77 0 0 GEN_{RAT}(12,I,J,K) FeS₂_F generation rate -- reaction path model kg/(s*m³)
217 78 0 0 GEN_{RAT}(13,I,J,K) FeS₂_O generation rate -- reaction path model kg/(s*m³)
218 79 0 0 GEN_{RAT}(14,I,J,K) FeCO₃_F generation rate -- reaction path model kg/(s*m³)
219 80 0 0 GEN_{RAT}(15,I,J,K) FeCO₃_O generation rate -- reaction path model kg/(s*m³)
220 81 0 0 GEN_{RAT}(16,I,J,K) Fe(OH)₂ generation rate -- reaction path model kg/(s*m³)
221 82 0 0 GEN_{RAT}(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m³)
222 83 0 0 GEN_{RAT}(18,I,J,K) Fe₃O₄ generation rate -- reaction path model kg/(s*m³)
223 84 0 0 GEN_{RAT}(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m³)
224 85 0 0 GEN_{RAT}(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m³)
225 86 0 0 GEN_{RAT}(21,I,J,K) Ca(OH)₂ generation rate -- reaction path model kg/(s*m³)
226 87 0 0 GEN_{RAT}(22,I,J,K) CaCO₃ generation rate -- reaction path model kg/(s*m³)
227 88 0 0 GEN_{RAT}(23,I,J,K) H₂ generation rate -- radiolysis kg/(s*m³)
228 89 0 0 CON_{CRXN}(1,I,J,K) H₂ concentration -- reaction path model kg/m³
229 90 0 0 CON_{CRXN}(2,I,J,K) CO₂ concentration -- reaction path model kg/m³
230 91 0 0 CON_{CRXN}(3,I,J,K) CH₄ concentration -- reaction path model kg/m³
231 92 0 0 CON_{CRXN}(4,I,J,K) N₂ concentration -- reaction path model kg/m³
232 93 0 0 CON_{CRXN}(5,I,J,K) H₂S concentration -- reaction path model kg/m³
233 94 0 0 CON_{CRXN}(6,I,J,K) O₂ concentration -- reaction path model kg/m³
234 95 0 0 CON_{CRXN}(7,I,J,K) H₂O concentration -- reaction path model kg/m³
235 96 0 0 CON_{CRXN}(8,I,J,K) H₂SO₄ concentration -- reaction path model kg/m³
236 97 0 0 CON_{CRXN}(9,I,J,K) HNO₃ concentration -- reaction path model kg/m³
237 98 0 0 CON_{CRXN}(10,I,J,K) C₆-H₁₀-O₅ concentration -- reaction path model kg/m³
238 99 0 0 CON_{CRXN}(11,I,J,K) Fe concentration -- reaction path model kg/m³
239 100 0 0 CON_{CRXN}(12,I,J,K) FeS₂_F concentration -- reaction path model kg/m³
240 101 0 0 CON_{CRXN}(13,I,J,K) FeS₂_O concentration -- reaction path model kg/m³
241 102 0 0 CON_{CRXN}(14,I,J,K) FeCO₃_F concentration -- reaction path model kg/m³
242 103 0 0 CON_{CRXN}(15,I,J,K) FeCO₃_O concentration -- reaction path model kg/m³
243 104 0 0 CON_{CRXN}(16,I,J,K) Fe(OH)₂ concentration -- reaction path model kg/m³
244 105 0 0 CON_{CRXN}(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m³
245 106 0 0 CON_{CRXN}(18,I,J,K) Fe₃O₄ concentration -- reaction path model kg/m³
246 107 0 0 CON_{CRXN}(19,I,J,K) FeS concentration -- reaction path model kg/m³
247 108 0 0 CON_{CRXN}(20,I,J,K) CaO concentration -- reaction path model kg/m³
248 109 0 0 CON_{CRXN}(21,I,J,K) Ca(OH)₂ concentration -- reaction path model kg/m³
249 110 0 0 CON_{CRXN}(22,I,J,K) CaCO₃ concentration -- reaction path model kg/m³
250 111 0 0 CON_{CRXN}(23,I,J,K) H₂ concentration -- radiolysis kg/m³
251 112 0 0 H₂O_{FLOWIN} Water inflow rate kg/s
252 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
253 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m³
254 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
255 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
256 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m³
257 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
258 119 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
259 120 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg
260 121 0 0 B_CONC(1,1) Conc of isotope 1 from Waste Region 1 kg/m³
261 122 0 0 B_CONC(1,2) Conc of isotope 1 from Waste Region 2 kg/m³
262 123 0 0 S_MASS(1,1) Solid mass of isotope 1 from Waste Region 1 kg
263 124 0 0 S_MASS(1,2) Solid mass of isotope 1 from Waste Region 2 kg
265

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
182 43 0 0 QR(I,J,K,1) H₂ generation rate -- simple model kg/(s*m³)
183 44 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m³)
184 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m³)
185 46 0 0 QR(I,J,K,4) C₆-H₁₀-O₅ consumption rate -- simple model kg/(s*m³)

```
186 47 0 0 CONCFE Fe concentration -- simple model kg/m^3
187 48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
188 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
189 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
190 51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
191 52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
192 53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
193 54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
194 55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
195 56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
196 57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
197 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
198 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
199 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
200 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
201 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
202 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
203 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
204 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
205 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
206 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
207 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
208 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
209 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
210 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
211 72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
212 73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
213 74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
214 75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
215 76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
216 77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
217 78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
218 79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
219 80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
220 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
221 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
222 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
223 84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
224 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
225 86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
226 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
227 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
228 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
229 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
230 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
231 92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
232 93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
233 94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
234 95 0 0 H2OFLOWIN Water inflow rate kg/s
235 96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
236 97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
237 98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
238 99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
239 100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
240 101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
241 102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
242 103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
243 104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
244 105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
245 106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
246 107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
248
```

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

```
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
435 instead of Input IC's for the Cavities
436 [0=No, 1=Yes] (ICWASTE) = 0
438 Uniform Cavity Region
439 Uniform Cavity Region
441
```

```
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
```

418 instead of Input IC's for the Waste
419 [0=No, 1=Yes] (ICWASTE) = 0
421 Uniform Waste Region
422 Uniform Waste Region
424 -----

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1

470 TOL = 1.0000E-02
471 SOCEFFMIN = 1.0000E-03
473 Fracture model will be used? (K FRACTURE): F

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1

454 Fracture model will be used? (K FRACTURE): F

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1

572 Intrinsic reaction rate constants? (LINTRIN): F
574 Reaction rate constants (RK):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1

553 Reaction rate constants (RK):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1

582 MgO hydration reaction rate constants:
583 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
584 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
586 Saturation cutoff value (SOCMIN): 0.000000E+00
588 Stoichiometric coeff's for Rxn 1:
589 H2 coefficient = 0.000000E+00
590 H2O coefficient = 0.000000E+00
591 Fe coefficient = 0.000000E+00
592 Bio coefficient = 0.000000E+00
593 Fe(OH)2 coefficient = 0.000000E+00
594 FeS coefficient = 0.000000E+00
595 MgO coefficient = 0.000000E+00
596 Mg(OH)2 coefficient = 0.000000E+00
597 MgCO3 coefficient = 0.000000E+00
599 Stoichiometric coeff's for Rxn 2:
600 H2 coefficient = 0.000000E+00
601 H2O coefficient = 0.000000E+00
602 Fe coefficient = 0.000000E+00
603 Bio coefficient = 0.000000E+00
604 Fe(OH)2 coefficient = 0.000000E+00
605 FeS coefficient = 0.000000E+00
606 MgO coefficient = 0.000000E+00
607 Mg(OH)2 coefficient = 0.000000E+00
608 MgCO3 coefficient = 0.000000E+00
610 Stoichiometric coeff's for Rxn 3:
611 H2 coefficient = 0.000000E+00
612 H2O coefficient = 0.000000E+00
613 Fe coefficient = 0.000000E+00
614 Bio coefficient = 0.000000E+00
615 Fe(OH)2 coefficient = 0.000000E+00
616 FeS coefficient = 0.000000E+00
617 MgO coefficient = 0.000000E+00
618 Mg(OH)2 coefficient = 0.000000E+00
619 MgCO3 coefficient = 0.000000E+00
621 Stoichiometric coeff's for Rxn 4:
622 H2 coefficient = 0.000000E+00
623 H2O coefficient = 0.000000E+00
624 Fe coefficient = 0.000000E+00
625 Bio coefficient = 0.000000E+00
626 Fe(OH)2 coefficient = 0.000000E+00
627 FeS coefficient = 0.000000E+00
628 MgO coefficient = 0.000000E+00
629 Mg(OH)2 coefficient = 0.000000E+00
630 MgCO3 coefficient = 0.000000E+00
632 Stoichiometric coeff's for Rxn 5:

```
633 H2 coefficient = 0.000000E+00
634 H2O coefficient = 0.000000E+00
635 Fe coefficient = 0.000000E+00
636 Bio coefficient = 0.000000E+00
637 Fe(OH)2 coefficient = 0.000000E+00
638 FeS coefficient = 0.000000E+00
639 MgO coefficient = 0.000000E+00
640 Mg(OH)2 coefficient = 0.000000E+00
641 MgCO3 coefficient = 0.000000E+00
643 Stoichiometric coeff's for Rxn 6:
644 H2 coefficient = 0.000000E+00
645 H2O coefficient = 0.000000E+00
646 Fe coefficient = 0.000000E+00
647 Bio coefficient = 0.000000E+00
648 Fe(OH)2 coefficient = 0.000000E+00
649 FeS coefficient = 0.000000E+00
650 MgO coefficient = 0.000000E+00
651 Mg(OH)2 coefficient = 0.000000E+00
652 MgCO3 coefficient = 0.000000E+00
654 Stoichiometric coeff's for Rxn 7:
655 H2 coefficient = 0.000000E+00
656 H2O coefficient = 0.000000E+00
657 Fe coefficient = 0.000000E+00
658 Bio coefficient = 0.000000E+00
659 Fe(OH)2 coefficient = 0.000000E+00
660 FeS coefficient = 0.000000E+00
661 MgO coefficient = 0.000000E+00
662 Mg(OH)2 coefficient = 0.000000E+00
663 MgCO3 coefficient = 0.000000E+00
665 Wicking term (SATWICK) = 0.000000E+00
666 Humid rates to be smoothed? (LARXN) = F
667 Concentration rates to be smoothed? (LARXN2) = F
668 Humid rate smoothing factor (ALPHARXN) = 5.000000E+01
670 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
561 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
562 Gas coefficient = 1.000000E+00
563 H2O coefficient = 0.000000E+00
564 Fe coefficient = 1.000000E+00
566 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
567 Gas coefficient = 1.000000E+00
568 H2O coefficient = 0.000000E+00
569 Bio coefficient = 1.000000E+00
571 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
674 Bio: 2.7023E-02 kg/mol
676 Molecular weights (WM):
677 Fe(OH)2: 8.9862E-02 kg/mol
678 FeS: 8.7900E-02 kg/mol
679 MgO: 4.0304E-02 kg/mol
680 Mg(OH)2: 5.8320E-02 kg/mol
681 MgCO3: 8.4314E-02 kg/mol
683 Densities (DEN(1-4)):
684 Fe: 7.8700E+03 kg/m3
685 Fe(OH)2: 3.4000E+03 kg/m3
686 FeS: 4.7000E+03 kg/m3
687 Bio: 1.1000E+03 kg/m3
689 Densities (DEN(5-8)):
690 MgO: 3.6000E+03 kg/m3
691 Mg(OH)2: 2.3700E+03 kg/m3
692 MgCO3: 3.0500E+03 kg/m3
693 SALT: 2.1700E+03 kg/m3
695 Will creep closure be used (CLOSURE): F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
575 Bio: 3.0026E-02 kg/mol
577 Wicking term (SATWICK) = 0.000000E+00
578 Humid rates to be smoothed? (LARXN) = F
```



```
579 Humid rate smoothing factor (ALPHARXN) = 5.000000E+01
581 Will creep closure be used (CLOSURE): F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
773 Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
776 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
659 Date: 04/12/06 Time: 14:18:16 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
662 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
785 CPU Time (total for run) = 0.03 sec = 0.00001 hr
786 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
671 CPU Time (total for run) = 0.06 sec = 0.00002 hr
672 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
821 Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
823 Time Step No. = 30 Elapsed Time = 1.157407E-01 days
824 Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
827 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
707 Date: 04/12/06 Time: 14:18:16 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
709 Time Step No. = 30 Elapsed Time = 1.157407E-01 days
710 Date: 04/12/06 Time: 14:18:16 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
713 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
835 CPU Time (this time step) = 0.00 sec = 0.00000 hr
836 CPU Time (total for run) = 0.04 sec = 0.00001 hr
837 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
721 CPU Time (this time step) = 0.01 sec = 0.00000 hr
722 CPU Time (total for run) = 0.07 sec = 0.00002 hr
723 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
872 Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
874 Time Step No. = 44 Elapsed Time = 1.157407E+00 days
875 Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
880 *****
881 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
882 * Completed: 02/13/07 at 14:12:02 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
883 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
758 Date: 04/12/06 Time: 14:18:16 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
760 Time Step No. = 44 Elapsed Time = 1.157407E+00 days
761 Date: 04/12/06 Time: 14:18:16 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
766 *****
767 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
768 * Completed: 04/12/06 at 14:18:16 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
769 *****
*****
```

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

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

**A.9.4 Test Case 9: Output Difference Files,
BF2_QB0600_ES40_TEST9_HETER_OUT.DIF,
BF2_QB0600_ES45_TEST9_HETER_OUT.DIF,
BF2_QB0600_ES40_TEST9_HOMOG_OUT.DIF and
BF2_QB0600_ES45_TEST9_HOMOG_OUT.DIF**

BF2_QB0600_ES40_TEST9_HETER_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1
 3 ** Begun on: 02/14/07 at 08:53:30 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
 3 ** Begun on: 02/13/07 at 14:11:54 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1
 61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_TEST9_HETER.INP;1
 62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
 61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_TEST9_HETER.INP;1
 62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1
 66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_CLOSURE.DAT;1
 67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
 66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_CLOSURE.DAT;1
 67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1
 71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1
 72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
 71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
 72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1
 76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.SUM;1
 77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
 76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.SUM;1
 77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1
 81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.BIN;1
 82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
 81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.BIN;1
 82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1
 777 Date: 02/14/07 Time: 08:53:30 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 780 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
 777 Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 780 *****
```

```
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1
 825 Date: 02/14/07 Time: 08:53:30 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
 827 Time Step No. = 30 Elapsed Time = 1.157407E-01 days
 828 Date: 02/14/07 Time: 08:53:30 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
 831 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
 825 Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
 827 Time Step No. = 30 Elapsed Time = 1.157407E-01 days
 828 Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
 831 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1
 876 Date: 02/14/07 Time: 08:53:30 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
 878 Time Step No. = 44 Elapsed Time = 1.157407E+00 days
 879 Date: 02/14/07 Time: 08:53:30 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
 884 *****
 885 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 886 * Completed: 02/14/07 at 08:53:30 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 887 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
 876 Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 878 Time Step No. = 44 Elapsed Time = 1.157407E+00 days
 879 Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 884 *****
 885 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 886 * Completed: 02/13/07 at 14:11:54 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 887 *****
*****
```

Number of difference sections found: 9
Number of difference records found: 16

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER_OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER_OUT;1

BF2_QB0600_ES45_TEST9_HETER_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
 3 ** Begun on: 02/14/07 at 09:15:19 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
 3 ** Begun on: 02/13/07 at 14:11:54 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
 61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_TEST9_HETER.INP;1
 62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
 61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_TEST9_HETER.INP;1
 62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
 66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_CLOSURE.DAT;1
 67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
 66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_CLOSURE.DAT;1
 67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
 71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
```

```
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
777 Date: 02/14/07 Time: 09:15:19 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
780 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
777 Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
780 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
789 CPU Time (total for run) = 0.05 sec = 0.00001 hr
790 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
789 CPU Time (total for run) = 0.06 sec = 0.00002 hr
790 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
825 Date: 02/14/07 Time: 09:15:19 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
827 Time Step No. = 30 Elapsed Time = 1.157407E-01 days
828 Date: 02/14/07 Time: 09:15:19 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
831 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
825 Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
827 Time Step No. = 30 Elapsed Time = 1.157407E-01 days
828 Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
831 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
840 CPU Time (total for run) = 0.05 sec = 0.00001 hr
841 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
840 CPU Time (total for run) = 0.07 sec = 0.00002 hr
841 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
876 Date: 02/14/07 Time: 09:15:19 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
878 Time Step No. = 44 Elapsed Time = 1.157407E+00 days
879 Date: 02/14/07 Time: 09:15:19 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
884 *****
885 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
886 * Completed: 02/14/07 at 09:15:19 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
887 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
876 Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
```

```
878 Time Step No. = 44 Elapsed Time = 1.157407E+00 days
879 Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
884 *****
885 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
886 * Completed: 02/13/07 at 14:11:54 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
887 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 18

```
DIFFERENCES /IGNORE={SPACING,TRAILING_SPACES,BLANK_LINES}/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
```

BF2_QB0600_ES40_TEST9_HOMOG_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
 3 ** Begun on: 02/14/07 at 08:53:24 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
 3 ** Begun on: 02/13/07 at 14:12:02 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
 4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
 61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_TEST9_HOMOG.INP;1
 62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
 61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_TEST9_HOMOG.INP;1
 62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
 66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_CLOSURE.DAT;1
 67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
 66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_CLOSURE.DAT;1
 67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
 71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
 72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
 71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
 72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
 76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.SUM;1
 77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
 76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.SUM;1
 77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
 81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.BIN;1
 82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
 81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.BIN;1
 82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
```

```
773 Date: 02/14/07 Time: 08:53:24 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
776 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
773 Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
776 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
785 CPU Time (total for run) = 0.07 sec = 0.00002 hr
786 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
785 CPU Time (total for run) = 0.03 sec = 0.00001 hr
786 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
821 Date: 02/14/07 Time: 08:53:24 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
823 Time Step No. = 30 Elapsed Time = 1.157407E-01 days
824 Date: 02/14/07 Time: 08:53:24 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
827 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
821 Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
823 Time Step No. = 30 Elapsed Time = 1.157407E-01 days
824 Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
827 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
835 CPU Time (this time step) = 0.01 sec = 0.00000 hr
836 CPU Time (total for run) = 0.09 sec = 0.00003 hr
837 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
835 CPU Time (this time step) = 0.00 sec = 0.00000 hr
836 CPU Time (total for run) = 0.04 sec = 0.00001 hr
837 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
872 Date: 02/14/07 Time: 08:53:24 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
874 Time Step No. = 44 Elapsed Time = 1.157407E+00 days
875 Date: 02/14/07 Time: 08:53:24 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
880 *****
881 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
882 * Completed: 02/14/07 at 08:53:24 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
883 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
872 Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
874 Time Step No. = 44 Elapsed Time = 1.157407E+00 days
875 Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
880 *****
881 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
882 * Completed: 02/13/07 at 14:12:02 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
883 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 19

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
```

BF2_QB0600_ES45_TEST9_HOMOG_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
3 ** Begun on: 02/14/07 at 09:15:27 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
4 *****
```

Information Only

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  3  ** Begun on: 02/13/07 at 14:12:02 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_TEST9_HOMOG.INP;1
  62 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_TEST9_HOMOG.INP;1
  62 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_CLOSURE.DAT;1
  67 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_CLOSURE.DAT;1
  67 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
  72 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  72 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.SUM;1
  77 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.SUM;1
  77 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.BIN;1
  82 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.BIN;1
  82 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
  773 Date: 02/14/07 Time: 09:15:27 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  776 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  773 Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
  776 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
  785 CPU Time (total for run) = 0.05 sec = 0.00001 hr
  786 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  785 CPU Time (total for run) = 0.03 sec = 0.00001 hr
  786 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
  821 Date: 02/14/07 Time: 09:15:27 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  823 Time Step No. = 30 Elapsed Time = 1.157407E-01 days
  824 Date: 02/14/07 Time: 09:15:27 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
  827 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
```

```
821 Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
823 Time Step No. = 30 Elapsed Time = 1.157407E-01 days
824 Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
827 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
836 CPU Time (total for run) = 0.06 sec = 0.00002 hr
837 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
836 CPU Time (total for run) = 0.04 sec = 0.00001 hr
837 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
872 Date: 02/14/07 Time: 09:15:27 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
874 Time Step No. = 44 Elapsed Time = 1.157407E+00 days
875 Date: 02/14/07 Time: 09:15:27 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
880 *****
881 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
882 * Completed: 02/14/07 at 09:15:27 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
883 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
872 Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
874 Time Step No. = 44 Elapsed Time = 1.157407E+00 days
875 Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
880 *****
881 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
882 * Completed: 02/13/07 at 14:12:02 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
883 *****
*****
```

Number of difference sections found: 11
Number of difference records found: 18

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
```


A.10 Test Case 10 Files

A.10.1 Test Case 10: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST10_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST10.INP
$ DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES40_Test10.OUT
$ DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES40_Test10.SUM
$ DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES40_Test10.BIN
$ DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES40_Test10.RIN
$ DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES40_Test10.ROT
$ set noverify

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

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

BF2_QB0600_ES45_TEST10_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST10.INP
$ DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES45_Test10.OUT
$ DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES45_Test10.SUM
$ DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES45_Test10.BIN
$ DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES45_Test10.RIN
$ DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES45_Test10.ROT
$ set noverify

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

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

BF2_QB0600_ES47_TEST10_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST10.INP
$ DEFINE bf2_uifold$input   working_dir:BF2_TEST10_QA0500.INP
$ DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES47_Test10.OUT
$ DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES47_Test10.SUM
$ DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES47_Test10.BIN
$ DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES47_Test10.RIN
$ DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES47_Test10.ROT
```



```
9.6331549E-01 1.1625220E+00 1.4029230E+00 1.6930372E+00 2.0431448E+00
2.4656522E+00 2.9755309E+00 3.5908488E+00 4.3334099E+00 5.2295271E+00
6.3109548E+00 7.6160139E+00 9.1909495E+00 1.1091570E+01 1.3385225E+01
1.6153191E+01 1.9493552E+01 2.3524676E+01 2.8389405E+01 3.4260126E+01
4.1344867E+01 4.9894682E+01 6.0212535E+01 7.2664044E+01 8.7690433E+01
1.0582417E+02 1.2770783E+02 1.5411687E+02 1.8598710E+02 2.2444787E+02
2.7086203E+02 3.2687431E+02 3.9446951E+02 4.7604290E+02 5.7448507E+02
DEPTH
10.
WELL DATA
1
0.0 1
1 1 1 1
INJQ
0.0 -1.0 1.0 1.E5
DIRICHLET CONDITIONS
F 0
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
50*10.E6
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
50*0.99999999
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
50*0.0
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
50*0.0
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
50*0.0
DSATLIM, DPRESLIM, SATLIMIT
1.0000E-01 -1.0000E+07 1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
6.0000E-01 1.0000E+06
DDEPMAX(1) DDEPMAX(2)
1.000 1.0E7
CONVERGENCE TEST FLAG: 0=OR, 1=AND
1
EPS_SAT, EPS_PRES: NORMAL CONVERGENCE CRITERIA
5.0000E+00 1.0000E-05
EPS_SAT, EPS_PRES: LOOSE CONVERGENCE CRITERIA
5.0000E+00 1.0000E-05
FTOL SAT FTOL PRESS: NORMAL CONVERGENCE CRITERIA
1.0000E-04 1.0000E-4
FTOL SAT FTOL PRESS: LOOSE CONVERGENCE CRITERIA
1.0000E-04 1.0000E-4
EPSGAS1 EPSGAS2 EPSGAS3 EPSGAS4: GAS MODEL CONVERGENCE CRITERIA
1.0000E-05 1.0000E-05 1.0000E-05 1.0000E-05
LINEAR EQUATION SOLVER TYPE
LU
ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWTCH
40 40 1 F 1.0000E+07 F
IUPRFLAG, IUPMFFLAG, DT_REDU, ITRAVE, IMPFAVE
40 40 5.0000E-01 1 0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPOOSE, IUPMFLOOSE
40 40 40 40 40
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
1.0000E-08 1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
1.0000E-09 1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
1
START TIME FOR MAP 1
0.0
MATERIAL TYPE GRID MAP
2 49*1
# NAME
1 ROCK
2 WELBORE
NWST
0
NDRZ
0
NUMRESET
0
MAT_BOREHOLE
0
RESET TIME, ICWASTE
0.0 0
```

```
POWASTEIC
0.0
SOWASTEIC
0.0
PRESDRZ
0.0
NBORERESSET
0
# LAMBDA      SOR      SGR
1 7.00E-01    0.0      0.0
2 7.00E-01    0.0      0.0
# SBMIN  POMIN  PCMAX  PCTA  PCTEXP  KRP  KPC  KPT
1 0.2  1.01325E5  1.0000E8  0.0  0.0  3  1  0
2 0.2  1.01325E5  1.0000E8  0.0  0.0  3  1  0
# PERMX  PERMY  PERMZ  POROSITY  COMPRES
1 1.8000E-12 1.8000E-12 1.8000E-12 1.0000E-01 1.0E-8
2 1.8000E-08 1.8000E-08 1.8000E-08 1.0000E-01 1.0E-8
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL FLAG
F
KLINKENBURG EFFECT
F
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
300. 1.01325E+05
SALT(WT.%) DEN_BR      KGSAT  IDGAS  COMPR_BR  WMSALT  WMH2O
0.0  1.000E+03  0  0  0.0  58.442468D-03  18.01528D-03
VISC_BR      VISC_GAS
1.80000E-03  8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, O2, NGAS, AND N1GAS
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
-0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.000D+00 +0.0000D+00
IGASVAR (1=GENERATION USING REACTION SOURCE; 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
0.0 0.0 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1.0 1.0
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0 0.0
RATE COEFFICIENTS: RXH2S AND RXCO2
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-05]/6)
```

```
2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.4000E+03 4.7000E+03 1.1000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.3700E+03 3.0500E+03 2.1700E+03
WICKING SATURATION, LARXN, ALPHARXN
0.0000E+00 F F 5.0000E+01
WILL CREEP CLOSURE BE ACTIVATED?
F
WILL RADIONUCLIDE DECAY BE CALCULATED?
F
WILL TRANSPORT BE ACTIVATED?
F
WILL RADIOLYSIS BE CALCULATED?
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

A.10.3 Test Case 10: Output Difference File, BF2_QB0600_ES47_TEST10_OUT.DIF

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

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
2  ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3  ** Begun on: 02/13/07 at 14:12:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
2  ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3  ** Begun on: 04/12/06 at 14:20:21 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
61  PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_TEST10.INP;1
62  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
61  PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST10]BF2_TEST10_QA0500.INP;2
62  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
66  PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_CLOSURE.DAT;1
67  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
66  PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST10]BF2_CLOSURE.DAT;1
67  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
71  PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
72  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
71  PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
72  ****
*****
*****
```

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
118 Restart output timestep interval (IPRNRTRST) = 200
120

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
118 Restart output timestep interval (IPRNRTRST) =200
120

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1

- 171 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
- 172 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
- 173 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
- 174 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
- 175 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
- 176 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
- 177 49 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
- 178 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
- 179 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
- 180 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
- 181 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
- 182 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
- 183 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
- 184 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
- 185 57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
- 186 58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
- 187 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
- 188 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
- 189 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
- 190 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
- 191 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
- 192 64 0 0 CONCST Salt concentration -- simple model kg/m^3
- 193 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
- 194 66 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
- 195 67 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
- 196 68 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
- 197 69 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
- 198 70 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
- 199 71 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
- 200 72 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
- 201 73 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
- 202 74 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
- 203 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
- 204 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
- 205 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
- 206 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
- 207 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
- 208 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
- 209 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
- 210 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
- 211 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
- 212 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
- 213 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
- 214 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
- 215 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
- 216 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
- 217 89 0 0 CONCRXN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
- 218 90 0 0 CONCRXN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
- 219 91 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
- 220 92 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
- 221 93 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
- 222 94 0 0 CONCRXN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
- 223 95 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
- 224 96 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
- 225 97 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
- 226 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
- 227 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3

228 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
229 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
230 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
231 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
232 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
233 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
234 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
235 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
236 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
237 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
238 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
239 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
240 112 0 0 H2OFLOWIN Water inflow rate kg/s
241 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
242 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
243 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
244 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
245 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
246 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
247 119 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
248 120 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg
249 121 0 0 B_CONC(1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
250 122 0 0 B_CONC(1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
251 123 0 0 S_MASS(1,1) Solid mass of isotope 1 from Waste Region 1 kg
252 124 0 0 S_MASS(1,2) Solid mass of isotope 1 from Waste Region 2 kg
254

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1

171 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
172 44 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
173 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
174 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
175 47 0 0 CONCFE Fe concentration -- simple model kg/m^3
176 48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
177 49 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
178 50 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
179 51 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
180 52 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
181 53 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
182 54 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
183 55 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
184 56 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
185 57 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
186 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
187 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
188 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
189 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
190 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
191 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
192 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
193 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
194 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
195 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
196 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
197 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
198 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
199 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
200 72 0 0 CONCRXN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
201 73 0 0 CONCRXN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
202 74 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
203 75 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
204 76 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
205 77 0 0 CONCRXN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
206 78 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
207 79 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
208 80 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
209 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
210 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
211 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
212 84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
213 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3

```
214 86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
215 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
216 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
217 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
218 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
219 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
220 92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
221 93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
222 94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
223 95 0 0 H2OFLOWIN Water inflow rate kg/s
224 96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
225 97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
226 98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
227 99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
228 100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
229 101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
230 102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
231 103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
232 104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
233 105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
234 106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
235 107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
237
*****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
 444 instead of Input IC's for the Cavities
 445 [0=No, 1=Yes] (ICWASTE) = 0
 447 Uniform Cavity Region
 448 Uniform Cavity Region
 450
-----
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
 427 instead of Input IC's for the Waste
 428 [0=No, 1=Yes] (ICWASTE) = 0
 430 Uniform Waste Region
 431 Uniform Waste Region
 433
-----
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
 480 TOL = 1.0000E-02
 481 SOCEFFMIN = 1.0000E-03
 483 Fracture model will be used? (K FRACTURE): F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
 464 Fracture model will be used? (K FRACTURE): F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
 582 Intrinsic reaction rate constants? (LINTRIN): F
 584 Reaction rate constants (RK):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
 563 Reaction rate constants (RK):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
 592 MgO hydration reaction rate constants:
 593 Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
 594 Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
 596 Saturation cutoff value (SOCMIN): 0.000000E+00
 598 Stoichiometric coeff's for Rxn 1:
 599 H2 coefficient = 0.000000E+00
 600 H2O coefficient = 0.000000E+00
 601 Fe coefficient = 0.000000E+00
 602 Bio coefficient = 0.000000E+00
 603 Fe(OH)2 coefficient = 0.000000E+00
 604 FeS coefficient = 0.000000E+00
 605 MgO coefficient = 0.000000E+00
```



```
606 Mg(OH)2 coefficient = 0.000000E+00
607 MgCO3 coefficient = 0.000000E+00
609 Stoichiometric coeff's for Rxn 2:
610 H2 coefficient = 0.000000E+00
611 H2O coefficient = 0.000000E+00
612 Fe coefficient = 0.000000E+00
613 Bio coefficient = 0.000000E+00
614 Fe(OH)2 coefficient = 0.000000E+00
615 FeS coefficient = 0.000000E+00
616 MgO coefficient = 0.000000E+00
617 Mg(OH)2 coefficient = 0.000000E+00
618 MgCO3 coefficient = 0.000000E+00
620 Stoichiometric coeff's for Rxn 3:
621 H2 coefficient = 0.000000E+00
622 H2O coefficient = 0.000000E+00
623 Fe coefficient = 0.000000E+00
624 Bio coefficient = 0.000000E+00
625 Fe(OH)2 coefficient = 0.000000E+00
626 FeS coefficient = 0.000000E+00
627 MgO coefficient = 0.000000E+00
628 Mg(OH)2 coefficient = 0.000000E+00
629 MgCO3 coefficient = 0.000000E+00
631 Stoichiometric coeff's for Rxn 4:
632 H2 coefficient = 0.000000E+00
633 H2O coefficient = 0.000000E+00
634 Fe coefficient = 0.000000E+00
635 Bio coefficient = 0.000000E+00
636 Fe(OH)2 coefficient = 0.000000E+00
637 FeS coefficient = 0.000000E+00
638 MgO coefficient = 0.000000E+00
639 Mg(OH)2 coefficient = 0.000000E+00
640 MgCO3 coefficient = 0.000000E+00
642 Stoichiometric coeff's for Rxn 5:
643 H2 coefficient = 0.000000E+00
644 H2O coefficient = 0.000000E+00
645 Fe coefficient = 0.000000E+00
646 Bio coefficient = 0.000000E+00
647 Fe(OH)2 coefficient = 0.000000E+00
648 FeS coefficient = 0.000000E+00
649 MgO coefficient = 0.000000E+00
650 Mg(OH)2 coefficient = 0.000000E+00
651 MgCO3 coefficient = 0.000000E+00
653 Stoichiometric coeff's for Rxn 6:
654 H2 coefficient = 0.000000E+00
655 H2O coefficient = 0.000000E+00
656 Fe coefficient = 0.000000E+00
657 Bio coefficient = 0.000000E+00
658 Fe(OH)2 coefficient = 0.000000E+00
659 FeS coefficient = 0.000000E+00
660 MgO coefficient = 0.000000E+00
661 Mg(OH)2 coefficient = 0.000000E+00
662 MgCO3 coefficient = 0.000000E+00
664 Stoichiometric coeff's for Rxn 7:
665 H2 coefficient = 0.000000E+00
666 H2O coefficient = 0.000000E+00
667 Fe coefficient = 0.000000E+00
668 Bio coefficient = 0.000000E+00
669 Fe(OH)2 coefficient = 0.000000E+00
670 FeS coefficient = 0.000000E+00
671 MgO coefficient = 0.000000E+00
672 Mg(OH)2 coefficient = 0.000000E+00
673 MgCO3 coefficient = 0.000000E+00
675 Wicking term (SATWICK) = 0.000000E+00
676 Humid rates to be smoothed? (LARXN) = F
677 Concentration rates to be smoothed? (LARXN2) = F
678 Humid rate smoothing factor (ALPHARXN) = 5.000000E+01
680 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
571 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
```

```
572 Gas coefficient = 1.000000E+00
573 H2O coefficient = 0.000000E+00
574 Fe coefficient = 1.000000E+00
576 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
577 Gas coefficient = 1.000000E+00
578 H2O coefficient = 0.000000E+00
579 Bio coefficient = 1.000000E+00
581 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
684 Bio: 2.7023E-02 kg/mol
686 Molecular weights (WM):
687 Fe(OH)2: 8.9862E-02 kg/mol
688 FeS: 8.7900E-02 kg/mol
689 MgO: 4.0304E-02 kg/mol
690 Mg(OH)2: 5.8320E-02 kg/mol
691 MgCO3: 8.4314E-02 kg/mol
693 Densities (DEN(1-4)):
694 Fe: 7.8700E+03 kg/m3
695 Fe(OH)2: 3.4000E+03 kg/m3
696 FeS: 4.7000E+03 kg/m3
697 Bio: 1.1000E+03 kg/m3
699 Densities (DEN(5-8)):
700 MgO: 3.6000E+03 kg/m3
701 Mg(OH)2: 2.3700E+03 kg/m3
702 MgCO3: 3.0500E+03 kg/m3
703 SALT: 2.1700E+03 kg/m3
705 Will creep closure be used (CLOSURE): F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
585 Bio: 3.0026E-02 kg/mol
587 Wicking term (SATWICK) = 0.000000E+00
588 Humid rates to be smoothed? (LARXN) = F
589 Humid rate smoothing factor (ALPHARXN) = 5.000000E+01
591 Will creep closure be used (CLOSURE): F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
818 Date: 02/13/07 Time: 14:12:04 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
821 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
704 Date: 04/12/06 Time: 14:20:21 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
707 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
830 CPU Time (total for run) = 0.09 sec = 0.00003 hr
831 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
716 CPU Time (total for run) = 0.11 sec = 0.00003 hr
717 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
857 Date: 02/13/07 Time: 14:12:04 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
862 *****
863 * End of BRAGFLO Version: 5.0 Revised: 01/15/07 *
864 * Completed: 02/13/07 at 14:12:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
865 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
743 Date: 04/12/06 Time: 14:20:22 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
748 *****
749 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
750 * Completed: 04/12/06 at 14:20:22 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
751 *****
*****
```

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

DIFFERENCES /IGNORE={SPACING,TRAILING_SPACES,BLANK_LINES}/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMSB2_V500_ES47_TEST10.OUT;1

A.10.4 Test Case 10: Output Difference Files, BF2_QB0600_ES40_TEST10_OUT.DIF and BF2_QB0600_ES45_TEST10_OUT.DIF

BF2_QB0600_ES40_TEST10_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES40_TEST10.OUT;1
  3  ** Begun on: 02/14/07 at 08:53:37 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
  3  ** Begun on: 02/13/07 at 14:12:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES40_TEST10.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_TEST10.INP;1
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_TEST10.INP;1
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES40_TEST10.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES40_TEST10.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES40_TEST10.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES40_TEST10.OUT;1
  818 Date: 02/14/07 Time: 08:53:37 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
  821 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
  818 Date: 02/13/07 Time: 14:12:04 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
  821 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES40_TEST10.OUT;1
  830 CPU Time (total for run) = 0.15 sec = 0.00004 hr
  831 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
  830 CPU Time (total for run) = 0.09 sec = 0.00003 hr
  831 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES40_TEST10.OUT;1
  857 Date: 02/14/07 Time: 08:53:37 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
  862 *****
  863 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  864 * Completed: 02/14/07 at 08:53:37 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
  865 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
857 Date: 02/13/07 Time: 14:12:04 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
862 *****
863 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
864 * Completed: 02/13/07 at 14:12:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
865 *****
*****
```

Number of difference sections found: 7
Number of difference records found: 10

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES40_TEST10_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES40_TEST10.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
```

BF2_QB0600_ES45_TEST10_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES45_TEST10.OUT;1
3 ** Begun on: 02/14/07 at 09:15:32 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
3 ** Begun on: 02/13/07 at 14:12:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES45_TEST10.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_TEST10.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_TEST10.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES45_TEST10.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES45_TEST10.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES45_TEST10.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES45_TEST10.OUT;1
818 Date: 02/14/07 Time: 09:15:32 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) ASCII
821 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
818 Date: 02/13/07 Time: 14:12:04 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
821 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES45_TEST10.OUT;1
830 CPU Time (total for run) = 0.07 sec = 0.00002 hr
831 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
830 CPU Time (total for run) = 0.09 sec = 0.00003 hr
831 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES45_TEST10.OUT;1
```

```
857 Date: 02/14/07 Time: 09:15:32 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
862 *****
863 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
864 * Completed: 02/14/07 at 09:15:32 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
865 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
857 Date: 02/13/07 Time: 14:12:04 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
862 *****
863 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
864 * Completed: 02/13/07 at 14:12:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
865 *****
*****
```

Number of difference sections found: 7
Number of difference records found: 10

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES45_TEST10_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES45_TEST10.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
```

A.11 Test Case 11 Files

A.11.1 Test Case 11: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST11_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST11.INP  
$ DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES40_Test11.OUT  
$ DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES40_Test11.SUM  
$ DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES40_Test11.BIN  
$ DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES40_Test11.RIN  
$ DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES40_Test11.ROT  
$ set noverify  
  
    image name: "BRAGFLO_QB0600"  
    image file identification: "P QB0600 6.0"  
    image file build identification: ""  
    link date/time: 12-FEB-2007 14:57:24.36  
    linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST11_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST11.INP  
$ DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES45_Test11.OUT  
$ DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES45_Test11.SUM  
$ DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES45_Test11.BIN  
$ DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES45_Test11.RIN  
$ DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES45_Test11.ROT  
$ set noverify  
  
    image name: "BRAGFLO_QB0600"  
    image file identification: "P QB0600 6.0"  
    image file build identification: ""  
    link date/time: 12-FEB-2007 14:57:24.36  
    linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST11_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST11.INP  
$ DEFINE bf2_uifold$input   working_dir:BF2_TEST11_DENNEW_QA0500.INP  
$ DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES47_Test11.OUT  
$ DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES47_Test11.SUM  
$ DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES47_Test11.BIN  
$ DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES47_Test11.RIN  
$ DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES47_Test11.ROT
```



```
F 28
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
50*10.E+06
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
50*0.999999E+00
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
50*0.0
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
50*0.0
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
50*0.0
DSATLIM, DPRESLIM, SATLIMIT
1.0000E-01 -1.0000E+07 1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
2.0000E-01 0.5000E+06
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX DPRES_MAX
0.1000E+00 1.0000E+06
CONVERGENCE TEST FLAG: 0=OR/1=AND
1
EPS_SAT, EPS_PRES: NORMAL CONVERGENCE CRITERIA
6.0000E+00 1.0000E-06
EPS_SAT, EPS_PRES: RELAXED CONVERGENCE CRITERIA
6.0000E+00 1.0000E-06
FTOL_SAT FTOL_PRES: NORMAL RESIDUAL TOLERANCE
1.0000E-06 1.0000E-06
FTOL_SAT FTOL_PRES: RELAXED RESIDUAL TOLERANCE
1.0000E-06 1.0000E-06
RXN PATH TOLS
4*1.E-4
SOLVER
LU
ITMAX, IRESETMAX, IJACINT, SCALING, P_SCALE, LVARSWTCH
5 40 1 T 1.E7 F
IUPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFAVE
40 40 5.0000E-01 1 0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPOOSE, IUPMFLOOSE
99 10 2 99 99
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
1.0000E-08 1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
1.0000E-09 1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
1
START TIME FOR MAP 1
0.0
MATERIAL TYPE GRID MAP
50*1
# NAME
1 ROCK
NWST
0
NDRZ
0
NMATRESET
0
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000 0
POWASTEIC
0.
SOWASTEIC
0.
PRESDRZ
0.
NBORERESET
0
# LAMBDA SOR SGR
1 0.7 0.0 0.0
# SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KPT
1 1.0 1.013250E+05 1.0E+08 0.0 0.0 4 2 0
# PERMX PERMY PERMZ POROSITY COMPRES
1 1.E-10 1.E-10 1.E-10 0.3 0.0
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
```



```
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
F
KLINKENBERG EFFECT TO BE USED? True or False
F
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.0E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
0.0 1000.0 0 0 1.0E-8 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.0E-3 1.0E-5
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE; =-2 IDEAL GAS LAW
-2
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0 0.0
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONET NUMBER (N1GAS)
1 1
IGASVAR (1=GENERATION USING REACTION SOURCE; 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND AND BIODEGRADATION (RKBIO)
0.0 0.0 F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0 0.0
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0 0.0
RATE COEFFICIENTS: RXH2S AND RXCO2
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
WICKING SATURATION, HUMID SMOOTHING, ALPHARXN
0.0 F F 1000.
CREEP CLOSURE? IF .TRUE., 0=MOLE-BASED; 1=PRESSURE-BASED, PRES_LITHO TIME_INTRU
F
RADIOACTIVE DECAY?
F
WILL TRANSPORT BE CALCULATED? T or F
F
RXN PATH
F
```

A.11.3 Test Case 11: Output Difference File, BF2_QB0600_ES47_TEST11_OUT.DIF

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

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
2  ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3  ** Begun on: 02/14/07 at 10:55:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
2  ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
```

```
3  ** Begun on: 04/12/06 at 14:31:05 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
4  ****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
61  PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_TEST11.INP;1
62  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
61  PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST11DENNEW]BF2_TEST11_DENNEW_QA0500.INP;2
62  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
66  PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_CLOSURE.DAT;1
67  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
66  PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST11DENNEW]BF2_CLOSURE.DAT;1
67  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
71  PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
72  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
71  PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST11DENNEW]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
72  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
76  PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.SUM;1
77  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
76  PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST11DENNEW]BF2_VMS82_V500_ES47_TEST11_DENNEW.SUM;1
77  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
126  Restart output timestep interval (IPRNTRST) = 999
128
*****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
126  Restart output timestep interval (IPRNTRST) =999
128
*****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
179  43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
180  44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
181  45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
182  46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
183  47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
184  48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
185  49 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
186  50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
187  51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
188  52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
189  53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
190  54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
191  55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
192  56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
193  57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
194  58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
195  59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
196  60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
197  61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
198  62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
```

```
199 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
200 64 0 0 CONCST Salt concentration -- simple model kg/m^3
201 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
202 66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
203 67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
204 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
205 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
206 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
207 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
208 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
209 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
210 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
211 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
212 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
213 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
214 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
215 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
216 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
217 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
218 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
219 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
220 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
221 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
222 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
223 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
224 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
225 89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
226 90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
227 91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
228 92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
229 93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
230 94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
231 95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
232 96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
233 97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
234 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
235 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
236 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
237 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
238 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
239 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
240 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
241 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
242 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
243 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
244 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
245 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
246 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
247 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
248 112 0 0 H2OFLOWIN Water inflow rate kg/s
249 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
250 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
251 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
252 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
253 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
254 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
255 119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
256 120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
257 121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
258 122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
259 123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
260 124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
262
*****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
179 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
180 44 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
181 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
```

182 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
183 47 0 0 CONCFE Fe concentration -- simple model kg/m^3
184 48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
185 49 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
186 50 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
187 51 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
188 52 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
189 53 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
190 54 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
191 55 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
192 56 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
193 57 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
194 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
195 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
196 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
197 61 0 0 GENRAT(13,I,J,K) FeS2_0 generation rate -- reaction path model kg/(s*m^3)
198 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
199 63 0 0 GENRAT(15,I,J,K) FeCO3_0 generation rate -- reaction path model kg/(s*m^3)
200 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
201 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
202 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
203 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
204 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
205 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
206 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
207 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
208 72 0 0 CONCRXN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
209 73 0 0 CONCRXN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
210 74 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
211 75 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
212 76 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
213 77 0 0 CONCRXN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
214 78 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
215 79 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
216 80 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
217 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
218 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
219 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
220 84 0 0 CONCRXN(13,I,J,K) FeS2_0 concentration -- reaction path model kg/m^3
221 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
222 86 0 0 CONCRXN(15,I,J,K) FeCO3_0 concentration -- reaction path model kg/m^3
223 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
224 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
225 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
226 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
227 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
228 92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
229 93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
230 94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
231 95 0 0 H2OFLOWIN Water inflow rate kg/s
232 96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
233 97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
234 98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
235 99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
236 100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
237 101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
238 102 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
239 103 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg
240 104 0 0 B_CONC(1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
241 105 0 0 B_CONC(1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
242 106 0 0 S_MASS(1,1) Solid mass of isotope 1 from Waste Region 1 kg
243 107 0 0 S_MASS(1,2) Solid mass of isotope 1 from Waste Region 2 kg
245

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1

- 412 **instead of Input IC's for the Cavities**
- 413 **[0=No, 1=Yes] (ICWASTE) = 0**
- 415 **Uniform Cavity Region**
- 416 **Uniform Cavity Region**
- 418 -----

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
395 instead of Input IC's for the Waste
396 [0=No, 1=Yes] (ICWASTE) = 0
398 Uniform Waste Region
399 Uniform Waste Region
401 -----

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
447 **TOL = 1.0000E-02**
448 **SOCEFFMIN = 1.0000E-03**
450 Fracture model will be used? (KFRACTURE): F

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
431 Fracture model will be used? (KFRACTURE): F

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
497 **Intrinsic reaction rate constants? (LINTRIN): F**
499 Reaction rate constants (RK):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
478 Reaction rate constants (RK):

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
507 **MgO hydration reaction rate constants:**
508 **Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)**
509 **Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)**
511 **Saturation cutoff value (SOCMIN): 0.000000E+00**
513 **Stoichiometric coeff's for Rxn 1:**
514 **H2 coefficient = 0.000000E+00**
515 **H2O coefficient = 0.000000E+00**
516 **Fe coefficient = 0.000000E+00**
517 **Bio coefficient = 0.000000E+00**
518 **Fe(OH)2 coefficient = 0.000000E+00**
519 **FeS coefficient = 0.000000E+00**
520 **MgO coefficient = 0.000000E+00**
521 **Mg(OH)2 coefficient = 0.000000E+00**
522 **MgCO3 coefficient = 0.000000E+00**
524 **Stoichiometric coeff's for Rxn 2:**
525 **H2 coefficient = 0.000000E+00**
526 **H2O coefficient = 0.000000E+00**
527 **Fe coefficient = 0.000000E+00**
528 **Bio coefficient = 0.000000E+00**
529 **Fe(OH)2 coefficient = 0.000000E+00**
530 **FeS coefficient = 0.000000E+00**
531 **MgO coefficient = 0.000000E+00**
532 **Mg(OH)2 coefficient = 0.000000E+00**
533 **MgCO3 coefficient = 0.000000E+00**
535 **Stoichiometric coeff's for Rxn 3:**
536 **H2 coefficient = 0.000000E+00**
537 **H2O coefficient = 0.000000E+00**
538 **Fe coefficient = 0.000000E+00**
539 **Bio coefficient = 0.000000E+00**
540 **Fe(OH)2 coefficient = 0.000000E+00**
541 **FeS coefficient = 0.000000E+00**
542 **MgO coefficient = 0.000000E+00**
543 **Mg(OH)2 coefficient = 0.000000E+00**
544 **MgCO3 coefficient = 0.000000E+00**
546 **Stoichiometric coeff's for Rxn 4:**
547 **H2 coefficient = 0.000000E+00**
548 **H2O coefficient = 0.000000E+00**
549 **Fe coefficient = 0.000000E+00**
550 **Bio coefficient = 0.000000E+00**
551 **Fe(OH)2 coefficient = 0.000000E+00**
552 **FeS coefficient = 0.000000E+00**
553 **MgO coefficient = 0.000000E+00**
554 **Mg(OH)2 coefficient = 0.000000E+00**
555 **MgCO3 coefficient = 0.000000E+00**
557 **Stoichiometric coeff's for Rxn 5:**

```
558 H2 coefficient = 0.000000E+00
559 H2O coefficient = 0.000000E+00
560 Fe coefficient = 0.000000E+00
561 Bio coefficient = 0.000000E+00
562 Fe(OH)2 coefficient = 0.000000E+00
563 FeS coefficient = 0.000000E+00
564 MgO coefficient = 0.000000E+00
565 Mg(OH)2 coefficient = 0.000000E+00
566 MgCO3 coefficient = 0.000000E+00
568 Stoichiometric coeff's for Rxn 6:
569 H2 coefficient = 0.000000E+00
570 H2O coefficient = 0.000000E+00
571 Fe coefficient = 0.000000E+00
572 Bio coefficient = 0.000000E+00
573 Fe(OH)2 coefficient = 0.000000E+00
574 FeS coefficient = 0.000000E+00
575 MgO coefficient = 0.000000E+00
576 Mg(OH)2 coefficient = 0.000000E+00
577 MgCO3 coefficient = 0.000000E+00
579 Stoichiometric coeff's for Rxn 7:
580 H2 coefficient = 0.000000E+00
581 H2O coefficient = 0.000000E+00
582 Fe coefficient = 0.000000E+00
583 Bio coefficient = 0.000000E+00
584 Fe(OH)2 coefficient = 0.000000E+00
585 FeS coefficient = 0.000000E+00
586 MgO coefficient = 0.000000E+00
587 Mg(OH)2 coefficient = 0.000000E+00
588 MgCO3 coefficient = 0.000000E+00
590 Wicking term (SATWICK) = 0.000000E+00
591 Humid rates to be smoothed? (LARXN) = F
592 Concentration rates to be smoothed? (LARXN2) = F
593 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
595 Molecular weights (WM):
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
486 Stoichiometric coeff's for corrosion rxn [S(1,I)]:
487 Gas coefficient = 1.173000E+00
488 H2O coefficient = 1.654000E+00
489 Fe coefficient = 1.000000E+00
491 Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
492 Gas coefficient = 7.677000E-01
493 H2O coefficient = 0.000000E+00
494 Bio coefficient = 1.000000E+00
496 Molecular weights (WM):
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
599 Bio: 2.7023E-02 kg/mol
601 Molecular weights (WM):
602 Fe(OH)2: 8.9862E-02 kg/mol
603 FeS: 8.7900E-02 kg/mol
604 MgO: 4.0304E-02 kg/mol
605 Mg(OH)2: 5.8320E-02 kg/mol
606 MgCO3: 8.4314E-02 kg/mol
608 Densities (DEN(1-4)):
609 Fe: 7.8700E+03 kg/m3
610 Fe(OH)2: 3.4000E+03 kg/m3
611 FeS: 4.7000E+03 kg/m3
612 Bio: 1.1000E+03 kg/m3
614 Densities (DEN(5-8)):
615 MgO: 3.6000E+03 kg/m3
616 Mg(OH)2: 2.3700E+03 kg/m3
617 MgCO3: 3.0500E+03 kg/m3
618 SALT: 2.1700E+03 kg/m3
620 Will creep closure be used (CLOSURE): F
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
500 Bio: 3.0026E-02 kg/mol
502 Wicking term (SATWICK) = 0.000000E+00
503 Humid rates to be smoothed? (LARXN) = F
```

```
504 Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
506 Will creep closure be used (CLOSURE): F
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
733 Date: 02/14/07 Time: 10:55:25 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
736 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
619 Date: 04/12/06 Time: 14:31:05 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) ASCII
622 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
745 CPU Time (total for run) = 0.16 sec = 0.00004 hr
746 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
631 CPU Time (total for run) = 0.14 sec = 0.00004 hr
632 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
772 Date: 02/14/07 Time: 10:55:25 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
775 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
658 Date: 04/12/06 Time: 14:31:05 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
661 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
784 CPU Time (total for run) = 0.21 sec = 0.00006 hr
785 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
670 CPU Time (total for run) = 0.19 sec = 0.00005 hr
671 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
811 Date: 02/14/07 Time: 10:55:25 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) ASCII
816 *****
817 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
818 * Completed: 02/14/07 at 10:55:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
819 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
697 Date: 04/12/06 Time: 14:31:05 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) ASCII
702 *****
703 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
704 * Completed: 04/12/06 at 14:31:05 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
705 *****
*****

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

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

A.11.4 Test Case 11: Output Difference Files, BF2_QB0600_ES40_TEST11_OUT.DIF and BF2_QB0600_ES45_TEST11_OUT.DIF

BF2_QB0600_ES40_TEST11_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
3 ** Begun on: 02/14/07 at 11:08:08 Run on: CSN - ALPHA AXP OpenVMS V8.2 **
4 *****
```

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  3  ** Begun on: 02/14/07 at 10:55:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
  61  PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_TEST11.INP;1
  62  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  61  PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_TEST11.INP;1
  62  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
  66  PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_CLOSURE.DAT;1
  67  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  66  PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_CLOSURE.DAT;1
  67  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
  71  PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
  72  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  71  PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  72  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
  76  PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.SUM;1
  77  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  76  PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.SUM;1
  77  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
  733  Date: 02/14/07 Time: 11:08:08 CPU Time: 0 0: 0: 0.05 { 0.05 sec) ASCII
  736  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  733  Date: 02/14/07 Time: 10:55:25 CPU Time: 0 0: 0: 0.02 { 0.02 sec) ASCII
  736  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
  745  CPU Time (total for run) = 0.27 sec = 0.00008 hr
  746  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  745  CPU Time (total for run) = 0.16 sec = 0.00004 hr
  746  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
  772  Date: 02/14/07 Time: 11:08:08 CPU Time: 0 0: 0: 0.28 { 0.28 sec) ASCII
  775  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  772  Date: 02/14/07 Time: 10:55:25 CPU Time: 0 0: 0: 0.16 { 0.16 sec) ASCII
  775  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
  784  CPU Time (total for run) = 0.34 sec = 0.00009 hr
  785  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  784  CPU Time (total for run) = 0.21 sec = 0.00006 hr
  785  *****
```



```
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
811 Date: 02/14/07 Time: 11:08:08 CPU Time: 0 0: 0: 0.35 ( 0.35 sec) ASCII
816 *****
817 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
818 * Completed: 02/14/07 at 11:08:08 Run on: CSN - ALPHA AXP OpenVMS V8.2 *
819 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
811 Date: 02/14/07 Time: 10:55:25 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) ASCII
816 *****
817 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
818 * Completed: 02/14/07 at 10:55:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
819 *****
*****
```

Number of difference sections found: 10
Number of difference records found: 13

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
```

BF2_QB0600_ES45_TEST11_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
3 ** Begun on: 02/14/07 at 11:10:33 Run on: CCR - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
3 ** Begun on: 02/14/07 at 10:55:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_TEST11.INP;1
62 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_TEST11.INP;1
62 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_CLOSURE.DAT;1
67 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_CLOSURE.DAT;1
67 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
72 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
72 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.SUM;1
77 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.SUM;1
77 *****
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
```

```
733 Date: 02/14/07 Time: 11:10:33 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
736 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
733 Date: 02/14/07 Time: 10:55:25 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
736 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
745 CPU Time (total for run) = 0.21 sec = 0.00006 hr
746 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
745 CPU Time (total for run) = 0.16 sec = 0.00004 hr
746 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
772 Date: 02/14/07 Time: 11:10:33 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) ASCII
775 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
772 Date: 02/14/07 Time: 10:55:25 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
775 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
784 CPU Time (total for run) = 0.27 sec = 0.00008 hr
785 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
784 CPU Time (total for run) = 0.21 sec = 0.00006 hr
785 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
811 Date: 02/14/07 Time: 11:10:33 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) ASCII
816 *****
817 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
818 * Completed: 02/14/07 at 11:10:33 Run on: CCR - ALPHA AXP OpenVMS V8.2 *
819 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
811 Date: 02/14/07 Time: 10:55:25 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) ASCII
816 *****
817 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
818 * Completed: 02/14/07 at 10:55:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
819 *****
*****
```

Number of difference sections found: 10
Number of difference records found: 13

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
```

A.12 Test Case 12 Files

A.12.1 Test Case 12: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST12_UPPER_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST12_UPPER.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_TEST12_UPPER.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_TEST12_UPPER.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_TEST12_UPPER.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_TEST12_UPPER.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_TEST12_UPPER.ROT  
$ set noverify  
  
    image name: "BRAGFLO_QB0600"  
    image file identification: "P QB0600 6.0"  
    image file build identification: ""  
    link date/time: 12-FEB-2007 14:57:24.36  
    linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST12_UPPER_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST12_UPPER.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_TEST12_UPPER.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_TEST12_UPPER.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_TEST12_UPPER.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_TEST12_UPPER.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_TEST12_UPPER.ROT  
$ set noverify  
  
    image name: "BRAGFLO_QB0600"  
    image file identification: "P QB0600 6.0"  
    image file build identification: ""  
    link date/time: 12-FEB-2007 14:57:24.36  
    linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST12_UPPER_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST12_UPPER.INP  
$ DEFINE bf2_uifold$input   working_dir:BF2_R1_S3_V046_T1200_U_QA0500.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_TEST12_UPPER.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_TEST12_UPPER.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_TEST12_UPPER.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_TEST12_UPPER.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_TEST12_UPPER.ROT
```

```
$ set noverify

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

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

BF2_QB0600_ES40_TEST12_LOWER_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST12_LOWER.INP
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_TEST12_LOWER.OUT
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_TEST12_LOWER.SUM
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_TEST12_LOWER.BIN
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_TEST12_LOWER.RIN
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_TEST12_LOWER.ROT
$ set noverify

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

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

BF2_QB0600_ES45_TEST12_LOWER_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST12_LOWER.INP
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_TEST12_LOWER.OUT
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_TEST12_LOWER.SUM
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_TEST12_LOWER.BIN
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_TEST12_LOWER.RIN
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_TEST12_LOWER.ROT
$ set noverify

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

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

BF2_QB0600_ES47_TEST12_LOWER_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST12_LOWER.INP
$ DEFINE bf2_uifold$input   working_dir:BF2_R1_S3_V046_T1200_L_QA0500.INP
```

```
$ DEFINE bf2_uif$inputs working_dir:BF2_CLOSURE.DAT
$ DEFINE bf2_dbg$output working_dir:BF2_QB0600_ES47_TEST12_LOWER.OUT
$ DEFINE bf2_dbg$summary working_dir:BF2_QB0600_ES47_TEST12_LOWER.SUM
$ DEFINE bf2_bin$output working_dir:BF2_QB0600_ES47_TEST12_LOWER.BIN
$ DEFINE bf2_in$restart working_dir:BF2_QB0600_ES47_TEST12_LOWER.RIN
$ DEFINE bf2_out$restart working_dir:BF2_QB0600_ES47_TEST12_LOWER.ROT
$ set noverify
```

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

```
$ show symbol bragflo_exe
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

A.12.2 Test Case 12: Input Files, BF2_QB0600_TEST12_UPPER.INP and BF2_QB0600_TEST12_LOWER.INP

BF2_QB0600_TEST12_UPPER.INP

```
**QA**      = PREBRAG QA RECORDS
PREBRAG_    = PROGRAM NAME
6.00        = PROGRAM VERSION
02/06/96    = PROGRAM REVISION DATE
05/05/97    = PROGRAM RUN DATE
22:41:10    = PROGRAM RUN TIME
BRINE BLOWOUT IN REPOSITORY SCALE MODEL
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
  2   39  39   1
TSTART,   TMAX,   MAXSTEPS
0.0000E+00 4.3230E+06 1000
DT_INIT,  DT_MIN,  DT_MAX,  DT_INCR, IAUTODT, TSWITCH
8.6400E-01 8.6400E-02 8.6460E+04 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
0
IPRTYPEASC IPRYPEBIN IPRTYPERST UNITSI UNITSO
  2   0   2   'SI'   'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  2
USER REQUESTED PRINTOUT TIMES
0.0000E+00 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  5
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  1
USER REQUESTED RESTART TIMES
4.3230E+06
ASCII PRINT FLAGS
1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
0
0
0
BINARY PRINT FLAGS
1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 1 0 0 0
0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
0
0
```

```
0
HISTORY VARIABLE OUTPUT
  2
  21  2  NAME=TIME-AVERAGE WELL BRINE FLOW RATE
21 27 1  6 5 1
  22  2  NAME=TIME-AVERAGE WELL GAS FLOW RATE
21 27 1  6 5 1
MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
T
NUMBER OF MONITOR BLOCKS
  3
MONITOR BLOCKS (I,J,K)
  8  5  1
 19 18  1
 34 35  1
GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
  1  2  1  7
GRID DATA CARDS: GRID BLOCK DX'S
5.120000E+00 1.000000E+01 3.050000E+01 1.000000E+01 3.050000E+01 1.000000E+01
3.050000E+01 1.000000E+01 3.050000E+01 1.000000E+01 3.050000E+01 1.000000E+01
3.050000E+01 1.000000E+01 2.100000E+01 4.000000E+01 4.300000E+00 4.220000E+01
4.300000E+00 4.650000E+01 7.600000E+00 3.800000E+01 4.300000E+00 4.000000E+01
2.100000E+01 1.000000E+01 3.050000E+01 1.000000E+01 3.050000E+01 1.000000E+01
3.050000E+01 1.000000E+01 3.050000E+01 1.000000E+01 3.050000E+01 1.000000E+01
3.050000E+01 1.000000E+01 5.120000E+00
GRID DATA CARDS: GRID BLOCK DY'S
5.120000E+00 3.600000E+00 6.400000E+00 3.270000E+01 3.270000E+01 3.270000E+01
4.300000E+00 5.700000E+00 5.120000E+00 4.596000E+01 5.120000E+00 3.600000E+00
6.400000E+00 3.050000E+01 3.050000E+01 3.050000E+01 4.300000E+00 5.700000E+00
1.275000E+01 4.000000E+01 1.275000E+01 3.600000E+00 6.400000E+00 3.050000E+01
3.050000E+01 3.050000E+01 4.300000E+00 5.700000E+00 5.120000E+00 4.596000E+01
5.120000E+00 3.600000E+00 6.400000E+00 3.050000E+01 3.050000E+01 3.050000E+01
6.100000E+00 3.900000E+00 5.120000E+00
GRID DATA CARDS: GRID BLOCK DZ'S
1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00
1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00
1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00
1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00
1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00
1.364480E+00 1.364480E+00 1.364480E+00
GRID BLOCK ELEVATIONS
39*3.650623E+02
39*3.651384E+02
39*3.652256E+02
39*3.655669E+02
39*3.661375E+02
39*3.667083E+02
39*3.670311E+02
39*3.671184E+02
39*3.672128E+02
39*3.676585E+02
39*3.681042E+02
39*3.681804E+02
39*3.682676E+02
39*3.685896E+02
39*3.691219E+02
39*3.696542E+02
39*3.699579E+02
39*3.700451E+02
39*3.702061E+02
39*3.706664E+02
39*3.711267E+02
39*3.712694E+02
39*3.713567E+02
39*3.716787E+02
39*3.722110E+02
39*3.727433E+02
39*3.730470E+02
39*3.731342E+02
39*3.732286E+02
39*3.736744E+02
39*3.741201E+02
39*3.741962E+02
39*3.742834E+02
39*3.746055E+02
```



```

1*2 1*1 1*2 1*1 1*2
1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 2*2 1*1
1*2 1*1 1*2 1*1 1*2 1*1 2*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1
1*2 1*1 1*2 1*1 1*2
1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 2*2 1*1
1*2 1*1 1*2 1*1 1*2 1*1 2*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1
1*2 14*1 1*4 7*1 1*4 14*1 1*2
1*2 13*1 11*2 13*1 1*2
15*2 9*3 15*2
  
```

```

# NAME
1 WAS_AREA
2 DRZ_1
3 S_HALITE
4 PAN_SEAL
  
```

NWST

0

NDRZ

0

NMATRESET

0

BORE HOLE MATERIAL NUMBER

0

RESET TIME, ICWASTE

0.0000E+00 0

POWASTEIC

SOWASTEIC

PRESDRZ

NBORERESSET

0

```

# LAMBDA SOR SGR
1 2.890000E+00 2.974000E-03 9.002000E-02
2 7.000000E-01 0.000000E+00 0.000000E+00
3 7.000000E-01 3.000000E-01 2.000000E-01
4 9.400000E-01 2.000000E-01 2.000000E-01
# SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
1 3.122700E-03 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
2 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
3 3.150000E-01 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
4 2.100000E-01 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
# PERMX PERMY PERMZ POROSITY COMPRES
1 1.702158E-13 1.702158E-13 1.702158E-13 5.598791E-01 0.000000E+00
2 1.000000E-15 1.000000E-15 1.000000E-15 8.489826E-02 8.728094E-09
3 3.162278E-23 3.162278E-23 3.162278E-23 6.581260E-02 1.481479E-09
4 1.000000E-15 1.000000E-15 1.000000E-15 2.176653E-01 1.212871E-08
  
```

TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12

1.000000E-02 1.000000E-03

NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL

0

FRACTURE MODEL DATA TO FOLLOW :T OR F

F

KLINKENBERG EFFECT TO BE USED? True or False

F

GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R

9.79D+00 8.314510D+00

REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS

3.00150E+02 1.01325E+05

SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O

3.2400E+01 1.2200E+03 1 0 3.1000E-10 58.442468D-03 18.01528D-03

VISC_BR VISC_GAS

2.10000E-03 8.93389E-06

GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE

1

GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2

1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2

2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03

NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONET NUMBER (NIGAS)

1 1

RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2

43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00

RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2

20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05

RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.0000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
0
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.4000E+03 4.7000E+03 1.1000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.3700E+03 3.0500E+03 2.1700E+03
CREEP CLOSURE?
F
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F

BF2_QB0600_TEST12_LOWER.INP

QA = PREBRAG QA RECORDS
PREBRAG_ = PROGRAM NAME
6.00 = PROGRAM VERSION
02/06/96 = PROGRAM REVISION DATE
05/05/97 = PROGRAM RUN DATE
22:41:24 = PROGRAM RUN TIME
BRINE BLOWOUT IN REPOSITORY SCALE MODEL
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
2 39 39 1
TSTART, TMAX, MAXSTEPS
0.0000E+00 4.3230E+06 1000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
8.6400E-01 8.6400E-02 8.6400E+04 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
0
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
2 0 2 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
2
USER REQUESTED PRINTOUT TIMES
0.0000E+00 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
5
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
1
USER REQUESTED RESTART TIMES
4.3230E+06
ASCII PRINT FLAGS
1 1 0 0 0 1 0
0
0
0
0 0 0
0

```
0
0
BINARY PRINT FLAGS
1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 1 0 0 0
0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
0
0
0
HISTORY VARIABLE OUTPUT
2
21 2 NAME=TIME-AVERAGE WELL BRINE FLOW RATE
12 5 1 6 5 1
22 2 NAME=TIME-AVERAGE WELL GAS FLOW RATE
12 5 1 6 5 1
MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
T
NUMBER OF MONITOR BLOCKS
3
MONITOR BLOCKS (I,J,K)
8 5 1
19 18 1
34 35 1
GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
1 2 1 7
GRID DATA CARDS: GRID BLOCK DX'S
5.120000E+00 1.000000E+01 3.050000E+01 1.000000E+01 3.050000E+01
1.000000E+01
3.050000E+01 1.000000E+01 3.050000E+01 1.000000E+01 3.050000E+01
1.000000E+01
3.050000E+01 1.000000E+01 2.100000E+01 4.000000E+01 4.300000E+00
4.220000E+01
4.300000E+00 4.650000E+01 7.600000E+00 3.800000E+01 4.300000E+00
4.000000E+01
2.100000E+01 1.000000E+01 3.050000E+01 1.000000E+01 3.050000E+01
1.000000E+01
3.050000E+01 1.000000E+01 3.050000E+01 1.000000E+01 3.050000E+01
1.000000E+01
3.050000E+01 1.000000E+01 5.120000E+00
GRID DATA CARDS: GRID BLOCK DY'S
5.120000E+00 3.600000E+00 6.400000E+00 3.270000E+01 3.270000E+01
3.270000E+01
4.300000E+00 5.700000E+00 5.120000E+00 4.596000E+01 5.120000E+00 3.600000E+00
6.400000E+00 3.050000E+01 3.050000E+01 3.050000E+01 4.300000E+00 5.700000E+00
1.275000E+01 4.000000E+01 1.275000E+01 3.600000E+00 6.400000E+00
3.050000E+01
3.050000E+01 3.050000E+01 4.300000E+00 5.700000E+00 5.120000E+00
4.596000E+01
5.120000E+00 3.600000E+00 6.400000E+00 3.050000E+01 3.050000E+01
3.050000E+01
6.100000E+00 3.900000E+00 5.120000E+00
GRID DATA CARDS: GRID BLOCK DZ'S
1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00
1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00
1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00
1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00
1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00 1.364480E+00
1.364480E+00 1.364480E+00 1.364480E+00
GRID BLOCK ELEVATIONS
39*3.650623E+02
39*3.651384E+02
39*3.652256E+02
39*3.655669E+02
39*3.661375E+02
39*3.667083E+02
39*3.670311E+02
39*3.671184E+02
39*3.672128E+02
39*3.676585E+02
39*3.681042E+02
39*3.681804E+02
39*3.682676E+02
39*3.685896E+02
```



```
39*0.000000E+00
39*0.000000E+00
39*0.000000E+00
39*0.000000E+00
39*0.000000E+00
39*0.000000E+00
39*0.000000E+00
39*0.000000E+00
DSATLIM, DPRESLIM, SATLIMIT
2.0000E-01 -1.0000E+08 1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
3.0000E-01 5.0000E+05
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX DPRES_MAX
1.0000E+00 1.0000E+07
CONVERGENCE TEST FLAG: 0=OR/1=AND
1
EPS_SAT, EPS_PRES: NORMAL CONVERGENCE CRITERIA
3.0000E+00 1.0000E-02
EPS_SAT, EPS_PRES: RELAXED CONVERGENCE CRITERIA
3.0000E+00 1.0000E-02
FTOL_SAT FTOL_PRES: NORMAL RESIDUAL' TOLERANCE
1.0000E-02 1.0000E-02
FTOL_SAT FTOL_PRES: RELAXED RESIDUAL' TOLERANCE
1.0000E-02 1.0000E-02
GAS TRANSPORT TOLERANCES
1.0000E-05 1.0000E-05 1.0000E-05 1.0000E-05
LINEAR EQUATION SOLVER TYPE
LU
ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
8 40 1 T 1.0000E+07 F
IUPRFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
9 9 5.0000E-01 1 0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
41 1 5 9 9
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
1.0000E-08 1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
1.0000E-10 1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
1
START TIME FOR MAP 1
0.0000E+00
MATERIAL TYPE GRID MAP
15*2 9*3 15*2
1*2 13*1 11*2 13*1 1*2
1*2 14*1 1*4 7*1 1*4 14*1 1*2
1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2
1*1 2*2 1*1
1*2 1*1 1*2 1*1 1*2 1*1 2*2 1*1 1*2 1*1 1*2 1*1 1*2
1*1 1*2 1*1
1*2 1*1 1*2 1*1 1*2
1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2
1*1 2*2 1*1
1*2 1*1 1*2 1*1 1*2 1*1 2*2 1*1 1*2 1*1 1*2 1*1 1*2
1*1 1*2 1*1
1*2 1*1 1*2 1*1 1*2
1*2 14*1 1*4 7*1 1*4 14*1 1*2
1*2 13*1 2*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2
16*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 16*2
15*3 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 15*3
16*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 16*2
1*2 13*1 2*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 2*2 13*1 1*2
1*2 14*1 1*4 7*1 1*4 14*1 1*2
1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2
1*1 2*2 1*1
1*2 1*1 1*2 1*1 1*2 1*1 2*2 1*1 1*2 1*1 1*2 1*1 1*2
1*1 1*2 1*1
1*2 1*1 1*2 1*1 1*2
1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2 1*1 1*2
1*1 2*2 1*1
1*2 1*1 1*2 1*1 1*2 1*1 2*2 1*1 1*2 1*1 1*2 1*1 1*2
```

```

1*1  1*2  1*1
  1*2  1*1  1*2  1*1  1*2
  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2
1*1  2*2  1*1
  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  2*2  1*1  1*2  1*1  1*2  1*1  1*2
1*1  1*2  1*1
  1*2  1*1  1*2  1*1  1*2
  1*2  14*1  1*4  7*1  1*4  14*1  1*2
  1*2  13*1  2*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  2*2  13*1  1*2
  16*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  16*2
  15*3  1*2  1*4  1*2  1*4  1*2  1*4  1*2  1*4  1*2  15*3
  16*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  16*2
  1*2  13*1  2*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  2*2  13*1  1*2
  1*2  14*1  1*4  7*1  1*4  14*1  1*2
  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2
1*1  2*2  1*1
  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  2*2  1*1  1*2  1*1  1*2  1*1  1*2
1*1  1*2  1*1
  1*2  1*1  1*2  1*1  1*2
  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2
1*1  2*2  1*1
  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  2*2  1*1  1*2  1*1  1*2  1*1  1*2
1*1  1*2  1*1
  1*2  1*1  1*2  1*1  1*2
  1*2  14*1  1*4  7*1  1*4  14*1  1*2
  1*2  13*1  2*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  2*2  13*1  1*2
  16*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  16*2
  15*3  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  15*3
  16*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  16*2
  1*2  13*1  2*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  2*2  13*1  1*2
  1*2  14*1  1*4  7*1  1*4  14*1  1*2
  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2
1*1  2*2  1*1
  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  2*2  1*1  1*2  1*1  1*2  1*1  1*2
1*1  1*2  1*1
  1*2  1*1  1*2  1*1  1*2
  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2
1*1  2*2  1*1
  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  2*2  1*1  1*2  1*1  1*2  1*1  1*2
1*1  1*2  1*1
  1*2  1*1  1*2  1*1  1*2
  1*2  14*1  1*4  7*1  1*4  14*1  1*2
  1*2  13*1  2*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  2*2  13*1  1*2
  16*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  16*2
  15*3  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  15*3
  16*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  16*2
  1*2  13*1  2*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  2*2  13*1  1*2
  1*2  14*1  1*4  7*1  1*4  14*1  1*2
  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2  1*1  1*2
1*1  2*2  1*1
  1*2  1*1  1*2  1*1  1*2
  1*2  14*1  1*4  7*1  1*4  14*1  1*2
  1*2  13*1  11*2  13*1  1*2
15*2  9*3  15*2
#      NAME
1      WAS_AREA
2      DRZ_1
3      S_HALITE
4      PAN_SEAL
NWST
0
NDRZ
0
NMATRESET
0
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000E+00  0
POWASTEIC
SOWASTEIC
PRESDRZ
NBORERESSET
  
```

```
0
# LAMBDA      SOR      SGR
1 2.890000E+00 2.974000E-03 9.002000E-02
2 7.000000E-01 0.000000E+00 0.000000E+00
3 7.000000E-01 3.000000E-01 2.000000E-01
4 9.400000E-01 2.000000E-01 2.000000E-01
# SBMIN      PBMIN      PCMAX      PCT_A      PCT_EXP      KRP KPC KTP
1 3.122700E-03 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
2 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
3 3.150000E-01 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
4 2.100000E-01 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
# PERMX      PERMY      PERMZ      POROSITY      COMPRES
1 1.702158E-13 1.702158E-13 1.702158E-13 5.598791E-01 0.000000E+00
2 1.000000E-15 1.000000E-15 1.000000E-15 8.489826E-02 8.728094E-09
3 3.162278E-23 3.162278E-23 3.162278E-23 6.581260E-02 1.481479E-09
4 1.000000E-15 1.000000E-15 1.000000E-15 2.176653E-01 1.212871E-08
TOL AND SOCFEPMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
F
KLINKENBERG EFFECT TO BE USED? True or False
F
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01325E+05
SALT(WT.%) DEN_BR KGSAT IDGAS  COMP_R WMSALT WMH2O
3.2400E+01 1.2200E+03 1 0 3.1000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
2.10000E-03 8.93389E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONET NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.0000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
0
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
CREEP CLOSURE?
F
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
```

F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F

**A.12.3 Test Case 12: Output Difference Files,
BF2_QB0600_ES47_TEST12_UPPER_OUT.DIF and
BF2_QB0600_ES47_TEST12_LOWER_OUT.DIF**

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

BF2_QB0600_ES47_TEST12_UPPER_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
 2  ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
 3  ** Begun on: 02/14/07 at 11:06:09 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
 4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
 2  ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
 3  ** Begun on: 04/12/06 at 14:36:57 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
 4  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
 70 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_TEST12_UPPER.INP;1
 71 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
 70 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12UPPER]BF2_R1_S3_V046_T1200_U_QA0500.INP;2
 71 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
 75 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_CLOSURE.DAT;1
 76 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
 75 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12UPPER]BF2_CLOSURE.DAT;1
 76 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
 80 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
 81 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
 80 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
 81 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
 85 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.SUM;1
 86 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
 85 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.SUM;1
 86 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
 90 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.BIN;1
 91 ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
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90
PAA: [ANALYSIS.VMS82.BF2.V500.ES47.TEST12UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.BIN;1
91 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
95 PAA: [ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.ROT;1
96 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
95
PAA: [ANALYSIS.VMS82.BF2.V500.ES47.TEST12UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.ROT;1
96 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
198 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
199 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
200 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
201 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
202 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
203 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
204 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
205 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
206 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
207 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
208 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
209 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
210 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
211 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
212 57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
213 58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
214 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
215 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
216 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
217 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
218 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
219 64 0 0 CONCST Salt concentration -- simple model kg/m^3
220 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
221 66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
222 67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
223 68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
224 69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
225 70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
226 71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
227 72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
228 73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
229 74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
230 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
231 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
232 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
233 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
234 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
235 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
236 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
237 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
238 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
239 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
240 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
241 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
242 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
243 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
244 89 0 0 CONCRKN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
245 90 0 0 CONCRKN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
246 91 0 0 CONCRKN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
247 92 0 0 CONCRKN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
248 93 0 0 CONCRKN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
249 94 0 0 CONCRKN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
250 95 0 0 CONCRKN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
251 96 0 0 CONCRKN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
252 97 0 0 CONCRKN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
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253 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
254 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
255 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
256 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
257 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
258 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
259 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
260 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
261 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
262 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
263 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
264 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
265 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
266 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
267 112 0 0 H2OFLOWIN Water inflow rate kg/s
268 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
269 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
270 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
271 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
272 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
273 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
274 119 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
275 120 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg
276 121 0 0 B_CONC(1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
277 122 0 0 B_CONC(1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
278 123 0 0 S_MASS(1,1) Solid mass of isotope 1 from Waste Region 1 kg
279 124 0 0 S_MASS(1,2) Solid mass of isotope 1 from Waste Region 2 kg
281

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1

198 43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
199 44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
200 45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
201 46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
202 47 0 0 CONCFE Fe concentration -- simple model kg/m^3
203 48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
204 49 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
205 50 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
206 51 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
207 52 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
208 53 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
209 54 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
210 55 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
211 56 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
212 57 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
213 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
214 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
215 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
216 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
217 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
218 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
219 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
220 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
221 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
222 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
223 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
224 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
225 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
226 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
227 72 0 0 CONCRXN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
228 73 0 0 CONCRXN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
229 74 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
230 75 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
231 76 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
232 77 0 0 CONCRXN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
233 78 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
234 79 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
235 80 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
236 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
237 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
238 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3

Information Only

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239 84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
240 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
241 86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
242 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
243 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
244 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
245 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
246 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
247 92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
248 93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
249 94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
250 95 0 0 H2OFLOWIN Water inflow rate kg/s
251 96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
252 97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
253 98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
254 99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
255 100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
256 101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
257 102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
258 103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
259 104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
260 105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
261 106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
262 107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
264
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*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
835 instead of Input IC's for the Cavities
836 [0=No, 1=Yes] (ICWASTE) = 0
838 Uniform Cavity Region
839 Uniform Cavity Region
841 -----
```

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*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
818 instead of Input IC's for the Waste
819 [0=No, 1=Yes] (ICWASTE) = 0
821 Uniform Waste Region
822 Uniform Waste Region
824 -----
```

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*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
873 TOL = 1.0000E-02
874 SOCEFFMIN = 1.0000E-03
876 Fracture model will be used? (K FRACTURE): F
*****
```

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
857 Fracture model will be used? (K FRACTURE): F
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
975 Densities (DEN(1-4)):
976 Fe: 7.8700E+03 kg/m3
977 Fe(OH)2: 3.4000E+03 kg/m3
978 FeS: 4.7000E+03 kg/m3
979 Bio: 1.1000E+03 kg/m3
981 Densities (DEN(5-8)):
982 MgO: 3.6000E+03 kg/m3
983 Mg(OH)2: 2.3700E+03 kg/m3
984 MgCO3: 3.0500E+03 kg/m3
985 SALT: 2.1700E+03 kg/m3
987 Will creep closure be used (CLOSURE): F
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
956 Will creep closure be used (CLOSURE): F
*****
```

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
2336 Date: 02/14/07 Time: 11:06:09 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
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```
2338 Time Step No. = 0 Elapsed Time = 0.000000E+00 days
2339 Date: 02/14/07 Time: 11:06:09 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
2341 Time Step No. = 5 Elapsed Time = 8.207031E-05 days
2342 Date: 02/14/07 Time: 11:06:10 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
2344 Time Step No. = 10 Elapsed Time = 3.325290E-04 days
2345 Date: 02/14/07 Time: 11:06:12 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
2347 Time Step No. = 15 Elapsed Time = 1.096868E-03 days
2348 Date: 02/14/07 Time: 11:06:14 CPU Time: 0 0: 0: 4.86 ( 4.86 sec) Binary
2350 Time Step No. = 20 Elapsed Time = 3.429447E-03 days
2351 Date: 02/14/07 Time: 11:06:16 CPU Time: 0 0: 0: 6.83 ( 6.83 sec) Binary
2353 Time Step No. = 25 Elapsed Time = 1.054791E-02 days
2354 Date: 02/14/07 Time: 11:06:18 CPU Time: 0 0: 0: 8.80 ( 8.80 sec) Binary
2356 Time Step No. = 30 Elapsed Time = 3.227174E-02 days
2357 Date: 02/14/07 Time: 11:06:20 CPU Time: 0 0: 0:10.77 ( 10.77 sec) Binary
2359 Time Step No. = 35 Elapsed Time = 9.856761E-02 days
2360 Date: 02/14/07 Time: 11:06:22 CPU Time: 0 0: 0:12.74 ( 12.74 sec) Binary
2362 Time Step No. = 40 Elapsed Time = 2.986599E-01 days
2363 Date: 02/14/07 Time: 11:06:24 CPU Time: 0 0: 0:14.71 ( 14.71 sec) Binary
2365 Time Step No. = 45 Elapsed Time = 7.917827E-01 days
2366 Date: 02/14/07 Time: 11:06:26 CPU Time: 0 0: 0:16.69 ( 16.69 sec) Binary
2368 Time Step No. = 50 Elapsed Time = 1.860850E+00 days
2369 Date: 02/14/07 Time: 11:06:28 CPU Time: 0 0: 0:18.68 ( 18.68 sec) Binary
2371 Time Step No. = 55 Elapsed Time = 4.029466E+00 days
2372 Date: 02/14/07 Time: 11:06:30 CPU Time: 0 0: 0:20.65 ( 20.65 sec) Binary
2374 Time Step No. = 60 Elapsed Time = 8.305259E+00 days
2375 Date: 02/14/07 Time: 11:06:32 CPU Time: 0 0: 0:22.64 ( 22.64 sec) Binary
2377 Time Step No. = 65 Elapsed Time = 1.330873E+01 days
2378 Date: 02/14/07 Time: 11:06:34 CPU Time: 0 0: 0:24.63 ( 24.63 sec) Binary
2380 Time Step No. = 70 Elapsed Time = 1.831220E+01 days
2381 Date: 02/14/07 Time: 11:06:36 CPU Time: 0 0: 0:26.60 ( 26.60 sec) Binary
2383 Time Step No. = 75 Elapsed Time = 2.331568E+01 days
2384 Date: 02/14/07 Time: 11:06:38 CPU Time: 0 0: 0:28.58 ( 28.58 sec) Binary
2386 Time Step No. = 80 Elapsed Time = 2.831915E+01 days
2387 Date: 02/14/07 Time: 11:06:40 CPU Time: 0 0: 0:30.56 ( 30.56 sec) Binary
2389 Time Step No. = 85 Elapsed Time = 3.332262E+01 days
2390 Date: 02/14/07 Time: 11:06:42 CPU Time: 0 0: 0:32.53 ( 32.53 sec) Binary
2392 Time Step No. = 90 Elapsed Time = 3.832609E+01 days
2393 Date: 02/14/07 Time: 11:06:44 CPU Time: 0 0: 0:34.50 ( 34.50 sec) Binary
2395 Time Step No. = 95 Elapsed Time = 4.332956E+01 days
2396 Date: 02/14/07 Time: 11:06:46 CPU Time: 0 0: 0:36.48 ( 36.48 sec) Binary
2398 Time Step No. = 100 Elapsed Time = 4.833304E+01 days
2399 Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:38.45 ( 38.45 sec) Binary
2402 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
2305 Date: 04/12/06 Time: 14:36:58 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
2307 Time Step No. = 0 Elapsed Time = 0.000000E+00 days
2308 Date: 04/12/06 Time: 14:36:58 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
2310 Time Step No. = 5 Elapsed Time = 8.207031E-05 days
2311 Date: 04/12/06 Time: 14:36:59 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
2313 Time Step No. = 10 Elapsed Time = 3.325290E-04 days
2314 Date: 04/12/06 Time: 14:37:00 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
2316 Time Step No. = 15 Elapsed Time = 1.096868E-03 days
2317 Date: 04/12/06 Time: 14:37:02 CPU Time: 0 0: 0: 4.39 ( 4.39 sec) Binary
2319 Time Step No. = 20 Elapsed Time = 3.429447E-03 days
2320 Date: 04/12/06 Time: 14:37:04 CPU Time: 0 0: 0: 6.16 ( 6.16 sec) Binary
2322 Time Step No. = 25 Elapsed Time = 1.054791E-02 days
2323 Date: 04/12/06 Time: 14:37:06 CPU Time: 0 0: 0: 7.93 ( 7.93 sec) Binary
2325 Time Step No. = 30 Elapsed Time = 3.227174E-02 days
2326 Date: 04/12/06 Time: 14:37:08 CPU Time: 0 0: 0: 9.72 ( 9.72 sec) Binary
2328 Time Step No. = 35 Elapsed Time = 9.856761E-02 days
2329 Date: 04/12/06 Time: 14:37:09 CPU Time: 0 0: 0:11.47 ( 11.47 sec) Binary
2331 Time Step No. = 40 Elapsed Time = 2.986599E-01 days
2332 Date: 04/12/06 Time: 14:37:11 CPU Time: 0 0: 0:13.23 ( 13.23 sec) Binary
2334 Time Step No. = 45 Elapsed Time = 7.917827E-01 days
2335 Date: 04/12/06 Time: 14:37:13 CPU Time: 0 0: 0:15.00 ( 15.00 sec) Binary
2337 Time Step No. = 50 Elapsed Time = 1.860850E+00 days
2338 Date: 04/12/06 Time: 14:37:15 CPU Time: 0 0: 0:16.78 ( 16.78 sec) Binary
2340 Time Step No. = 55 Elapsed Time = 4.029466E+00 days
2341 Date: 04/12/06 Time: 14:37:17 CPU Time: 0 0: 0:18.54 ( 18.54 sec) Binary
2343 Time Step No. = 60 Elapsed Time = 8.305259E+00 days
2344 Date: 04/12/06 Time: 14:37:18 CPU Time: 0 0: 0:20.32 ( 20.32 sec) Binary
2346 Time Step No. = 65 Elapsed Time = 1.330873E+01 days
2347 Date: 04/12/06 Time: 14:37:20 CPU Time: 0 0: 0:22.24 ( 22.24 sec) Binary
2349 Time Step No. = 70 Elapsed Time = 1.831220E+01 days
2350 Date: 04/12/06 Time: 14:37:22 CPU Time: 0 0: 0:24.04 ( 24.04 sec) Binary
```



```
2352 Time Step No. = 75 Elapsed Time = 2.331568E+01 days
2353 Date: 04/12/06 Time: 14:37:24 CPU Time: 0 0: 0:25.82 ( 25.82 sec) Binary
2355 Time Step No. = 80 Elapsed Time = 2.831915E+01 days
2356 Date: 04/12/06 Time: 14:37:26 CPU Time: 0 0: 0:27.61 ( 27.61 sec) Binary
2358 Time Step No. = 85 Elapsed Time = 3.332262E+01 days
2359 Date: 04/12/06 Time: 14:37:28 CPU Time: 0 0: 0:29.39 ( 29.39 sec) Binary
2361 Time Step No. = 90 Elapsed Time = 3.832609E+01 days
2362 Date: 04/12/06 Time: 14:37:29 CPU Time: 0 0: 0:31.18 ( 31.18 sec) Binary
2364 Time Step No. = 95 Elapsed Time = 4.332956E+01 days
2365 Date: 04/12/06 Time: 14:37:31 CPU Time: 0 0: 0:32.96 ( 32.96 sec) Binary
2367 Time Step No. = 100 Elapsed Time = 4.833304E+01 days
2368 Date: 04/12/06 Time: 14:37:33 CPU Time: 0 0: 0:34.73 ( 34.73 sec) Binary
2371 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
2418 CPU Time (this time step) = 0.39 sec = 0.00011 hr
2419 CPU Time (total for run) = 39.24 sec = 0.01090 hr
2420 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
2387 CPU Time (this time step) = 0.35 sec = 0.00010 hr
2388 CPU Time (total for run) = 35.44 sec = 0.00984 hr
2389 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
3066 Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:39.25 ( 39.25 sec) ASCII
3068 Time Step No. = 102 Elapsed Time = 5.003472E+01 days
3069 Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:39.25 ( 39.25 sec) Binary
3074 *****
3075 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3076 * Completed: 02/14/07 at 11:06:48 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3077 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
3035 Date: 04/12/06 Time: 14:37:34 CPU Time: 0 0: 0:35.45 ( 35.45 sec) ASCII
3037 Time Step No. = 102 Elapsed Time = 5.003472E+01 days
3038 Date: 04/12/06 Time: 14:37:34 CPU Time: 0 0: 0:35.46 ( 35.46 sec) Binary
3043 *****
3044 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3045 * Completed: 04/12/06 at 14:37:34 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
3046 *****
*****
```

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

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

BF2_QB0600_ES47_TEST12_LOWER_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3 ** Begun on: 02/14/07 at 11:06:12 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
2 ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3 ** Begun on: 04/12/06 at 14:34:03 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
70 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1
71 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
70 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12LOWER]BF2_R1_S3_V046_T1200_L_QA0500.INP;2
71 *****
```

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*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
75 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_CLOSURE.DAT;1
76 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
75 PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12LOWER]BF2_CLOSURE.DAT;1
76 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
80 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
81 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
80
PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
81 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
85 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.SUM;1
86 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
85
PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.SUM;1
86 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
90 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.BIN;1
91 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
90
PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.BIN;1
91 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
95 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.ROT;1
96 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
95
PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.ROT;1
96 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
198 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
199 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
200 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
201 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
202 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
203 48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
204 49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
205 50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
206 51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
207 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
208 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
209 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
210 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
211 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
212 57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
213 58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
214 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
215 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
216 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
217 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
218 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
219 64 0 0 CONCST Salt concentration -- simple model kg/m^3
```

220 65 0 0 **PORSOLID** Volume fraction of generated solids dimensionless
221 66 0 0 **GENRAT(1,I,J,K)** H2 generation rate -- reaction path model kg/(s*m^3)
222 67 0 0 **GENRAT(2,I,J,K)** CO2 generation rate -- reaction path model kg/(s*m^3)
223 68 0 0 **GENRAT(3,I,J,K)** CH4 generation rate -- reaction path model kg/(s*m^3)
224 69 0 0 **GENRAT(4,I,J,K)** N2 generation rate -- reaction path model kg/(s*m^3)
225 70 0 0 **GENRAT(5,I,J,K)** H2S generation rate -- reaction path model kg/(s*m^3)
226 71 0 0 **GENRAT(6,I,J,K)** O2 generation rate -- reaction path model kg/(s*m^3)
227 72 0 0 **GENRAT(7,I,J,K)** H2O generation rate -- reaction path model kg/(s*m^3)
228 73 0 0 **GENRAT(8,I,J,K)** H2SO4 generation rate -- reaction path model kg/(s*m^3)
229 74 0 0 **GENRAT(9,I,J,K)** HNO3 generation rate -- reaction path model kg/(s*m^3)
230 75 0 0 **GENRAT(10,I,J,K)** C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
231 76 0 0 **GENRAT(11,I,J,K)** Fe consumption rate -- reaction path model kg/(s*m^3)
232 77 0 0 **GENRAT(12,I,J,K)** FeS2_F generation rate -- reaction path model kg/(s*m^3)
233 78 0 0 **GENRAT(13,I,J,K)** FeS2_O generation rate -- reaction path model kg/(s*m^3)
234 79 0 0 **GENRAT(14,I,J,K)** FeCO3_F generation rate -- reaction path model kg/(s*m^3)
235 80 0 0 **GENRAT(15,I,J,K)** FeCO3_O generation rate -- reaction path model kg/(s*m^3)
236 81 0 0 **GENRAT(16,I,J,K)** Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
237 82 0 0 **GENRAT(17,I,J,K)** FeO(OH) generation rate -- reaction path model kg/(s*m^3)
238 83 0 0 **GENRAT(18,I,J,K)** Fe3O4 generation rate -- reaction path model kg/(s*m^3)
239 84 0 0 **GENRAT(19,I,J,K)** FeS generation rate -- reaction path model kg/(s*m^3)
240 85 0 0 **GENRAT(20,I,J,K)** CaO generation rate -- reaction path model kg/(s*m^3)
241 86 0 0 **GENRAT(21,I,J,K)** Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
242 87 0 0 **GENRAT(22,I,J,K)** CaCO3 generation rate -- reaction path model kg/(s*m^3)
243 88 0 0 **GENRAT(23,I,J,K)** H2 generation rate -- radiolysis kg/(s*m^3)
244 89 0 0 **CONCRXN(1,I,J,K)** H2 concentration -- reaction path model kg/m^3
245 90 0 0 **CONCRXN(2,I,J,K)** CO2 concentration -- reaction path model kg/m^3
246 91 0 0 **CONCRXN(3,I,J,K)** CH4 concentration -- reaction path model kg/m^3
247 92 0 0 **CONCRXN(4,I,J,K)** N2 concentration -- reaction path model kg/m^3
248 93 0 0 **CONCRXN(5,I,J,K)** H2S concentration -- reaction path model kg/m^3
249 94 0 0 **CONCRXN(6,I,J,K)** O2 concentration -- reaction path model kg/m^3
250 95 0 0 **CONCRXN(7,I,J,K)** H2O concentration -- reaction path model kg/m^3
251 96 0 0 **CONCRXN(8,I,J,K)** H2SO4 concentration -- reaction path model kg/m^3
252 97 0 0 **CONCRXN(9,I,J,K)** HNO3 concentration -- reaction path model kg/m^3
253 98 0 0 **CONCRXN(10,I,J,K)** C6-H10-O5 concentration -- reaction path model kg/m^3
254 99 0 0 **CONCRXN(11,I,J,K)** Fe concentration -- reaction path model kg/m^3
255 100 0 0 **CONCRXN(12,I,J,K)** FeS2_F concentration -- reaction path model kg/m^3
256 101 0 0 **CONCRXN(13,I,J,K)** FeS2_O concentration -- reaction path model kg/m^3
257 102 0 0 **CONCRXN(14,I,J,K)** FeCO3_F concentration -- reaction path model kg/m^3
258 103 0 0 **CONCRXN(15,I,J,K)** FeCO3_O concentration -- reaction path model kg/m^3
259 104 0 0 **CONCRXN(16,I,J,K)** Fe(OH)2 concentration -- reaction path model kg/m^3
260 105 0 0 **CONCRXN(17,I,J,K)** FeO(OH) concentration -- reaction path model kg/m^3
261 106 0 0 **CONCRXN(18,I,J,K)** Fe3O4 concentration -- reaction path model kg/m^3
262 107 0 0 **CONCRXN(19,I,J,K)** FeS concentration -- reaction path model kg/m^3
263 108 0 0 **CONCRXN(20,I,J,K)** CaO concentration -- reaction path model kg/m^3
264 109 0 0 **CONCRXN(21,I,J,K)** Ca(OH)2 concentration -- reaction path model kg/m^3
265 110 0 0 **CONCRXN(22,I,J,K)** CaCO3 concentration -- reaction path model kg/m^3
266 111 0 0 **CONCRXN(23,I,J,K)** H2 concentration -- radiolysis kg/m^3
267 112 0 0 **H2OFLOWIN** Water inflow rate kg/s
268 113 0 0 **B_MASS_CUM(1)** Total isotope mass from Waste Region 1 kg
269 114 0 0 **B_CONC_CUM(1)** Total isotope conc from Waste Region 1 kg/m^3
270 115 0 0 **S_MASS_CUM(1)** Total solid isotope mass from Waste Region 1 kg
271 116 0 0 **B_MASS_CUM(2)** Total isotope mass from Waste Region 2 kg
272 117 0 0 **B_CONC_CUM(2)** Total isotope conc from Waste Region 2 kg/m^3
273 118 0 0 **S_MASS_CUM(2)** Total solid isotope mass from Waste Region 2 kg
274 119 0 0 **B_MASS(1,1)** Mass of isotope 1 from Waste Region 1 kg
275 120 0 0 **B_MASS(1,2)** Mass of isotope 1 from Waste Region 2 kg
276 121 0 0 **B_CONC(1,1)** Conc of isotope 1 from Waste Region 1 kg/m^3
277 122 0 0 **B_CONC(1,2)** Conc of isotope 1 from Waste Region 2 kg/m^3
278 123 0 0 **S_MASS(1,1)** Solid mass of isotope 1 from Waste Region 1 kg
279 124 0 0 **S_MASS(1,2)** Solid mass of isotope 1 from Waste Region 2 kg
281

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
198 43 0 0 **QR(I,J,K,1)** H2 generation rate -- simple model kg/(s*m^3)
199 44 0 1 **QR(I,J,K,2)** Brine consumption rate -- simple model kg/(s*m^3)
200 45 0 0 **QR(I,J,K,3)** Fe consumption rate -- simple model kg/(s*m^3)
201 46 0 0 **QR(I,J,K,4)** C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
202 47 0 0 **CONCFE** Fe concentration -- simple model kg/m^3

```
203 48 0 0 CONCBIO C6-H10-05 concentration -- simple model kg/m^3
204 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
205 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
206 51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
207 52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
208 53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
209 54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
210 55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
211 56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
212 57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
213 58 0 0 GENRAT(10,I,J,K) C6-H10-05 consumption rate -- reaction path model kg/(s*m^3)
214 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
215 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
216 61 0 0 GENRAT(13,I,J,K) FeS2_0 generation rate -- reaction path model kg/(s*m^3)
217 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
218 63 0 0 GENRAT(15,I,J,K) FeCO3_0 generation rate -- reaction path model kg/(s*m^3)
219 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
220 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
221 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
222 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
223 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
224 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
225 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
226 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
227 72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
228 73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
229 74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
230 75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
231 76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
232 77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
233 78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
234 79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
235 80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
236 81 0 0 CONCRXN(10,I,J,K) C6-H10-05 concentration -- reaction path model kg/m^3
237 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
238 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
239 84 0 0 CONCRXN(13,I,J,K) FeS2_0 concentration -- reaction path model kg/m^3
240 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
241 86 0 0 CONCRXN(15,I,J,K) FeCO3_0 concentration -- reaction path model kg/m^3
242 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
243 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
244 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
245 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
246 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
247 92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
248 93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
249 94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
250 95 0 0 H2OFLOWIN Water inflow rate kg/s
251 96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
252 97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
253 98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
254 99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
255 100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
256 101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
257 102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
258 103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
259 104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
260 105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
261 106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
262 107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
264
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
 835 instead of Input IC's for the Cavities
 836 [0=No, 1=Yes] (ICWASTE) = 0
 838 Uniform Cavity Region
 839 Uniform Cavity Region
 841
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*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
 818 instead of Input IC's for the Waste
```

819 [0=No, 1=Yes] (ICWASTE) = 0
821 Uniform Waste Region
822 Uniform Waste Region
824 -----

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1

873 TOL = 1.0000E-02
874 SOCEFFMIN = 1.0000E-03
876 Fracture model will be used? (KRACTURE): F

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1

857 Fracture model will be used? (KRACTURE): F

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1

975 Densities (DEN(1-4)):
976 Fe: 7.8700E+03 kg/m3
977 Fe(OH)2: 3.4000E+03 kg/m3
978 FeS: 4.7000E+03 kg/m3
979 Bio: 1.1000E+03 kg/m3
981 Densities (DEN(5-8)):
982 MgO: 3.6000E+03 kg/m3
983 Mg(OH)2: 2.3700E+03 kg/m3
984 MgCO3: 3.0500E+03 kg/m3
985 SALT: 2.1700E+03 kg/m3
987 Will creep closure be used (CLOSURE): F

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1

956 Will creep closure be used (CLOSURE): F

File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1

2336 Date: 02/14/07 Time: 11:06:12 CPU Time: 0 0: 0: 0.10 (0.10 sec) ASCII
2338 Time Step No. = 0 Elapsed Time = 0.000000E+00 days
2339 Date: 02/14/07 Time: 11:06:12 CPU Time: 0 0: 0: 0.10 (0.10 sec) Binary
2341 Time Step No. = 5 Elapsed Time = 8.207031E-05 days
2342 Date: 02/14/07 Time: 11:06:13 CPU Time: 0 0: 0: 1.15 (1.15 sec) Binary
2344 Time Step No. = 10 Elapsed Time = 3.325290E-04 days
2345 Date: 02/14/07 Time: 11:06:14 CPU Time: 0 0: 0: 2.18 (2.18 sec) Binary
2347 Time Step No. = 15 Elapsed Time = 1.096868E-03 days
2348 Date: 02/14/07 Time: 11:06:15 CPU Time: 0 0: 0: 3.22 (3.22 sec) Binary
2350 Time Step No. = 20 Elapsed Time = 3.429447E-03 days
2351 Date: 02/14/07 Time: 11:06:16 CPU Time: 0 0: 0: 4.26 (4.26 sec) Binary
2353 Time Step No. = 25 Elapsed Time = 1.054791E-02 days
2354 Date: 02/14/07 Time: 11:06:18 CPU Time: 0 0: 0: 6.32 (6.32 sec) Binary
2356 Time Step No. = 30 Elapsed Time = 3.179889E-02 days
2357 Date: 02/14/07 Time: 11:06:20 CPU Time: 0 0: 0: 8.37 (8.37 sec) Binary
2359 Time Step No. = 35 Elapsed Time = 8.965424E-02 days
2360 Date: 02/14/07 Time: 11:06:22 CPU Time: 0 0: 0:10.42 (10.42 sec) Binary
2362 Time Step No. = 40 Elapsed Time = 2.641632E-01 days
2363 Date: 02/14/07 Time: 11:06:24 CPU Time: 0 0: 0:12.48 (12.48 sec) Binary
2365 Time Step No. = 45 Elapsed Time = 7.898418E-01 days
2366 Date: 02/14/07 Time: 11:06:26 CPU Time: 0 0: 0:14.52 (14.52 sec) Binary
2368 Time Step No. = 50 Elapsed Time = 2.098515E+00 days
2369 Date: 02/14/07 Time: 11:06:28 CPU Time: 0 0: 0:16.58 (16.58 sec) Binary
2371 Time Step No. = 55 Elapsed Time = 5.152845E+00 days
2372 Date: 02/14/07 Time: 11:06:30 CPU Time: 0 0: 0:18.63 (18.63 sec) Binary
2374 Time Step No. = 60 Elapsed Time = 1.010202E+01 days
2375 Date: 02/14/07 Time: 11:06:32 CPU Time: 0 0: 0:20.67 (20.67 sec) Binary
2377 Time Step No. = 65 Elapsed Time = 1.510549E+01 days
2378 Date: 02/14/07 Time: 11:06:34 CPU Time: 0 0: 0:22.74 (22.74 sec) Binary
2380 Time Step No. = 70 Elapsed Time = 2.010897E+01 days
2381 Date: 02/14/07 Time: 11:06:36 CPU Time: 0 0: 0:24.81 (24.81 sec) Binary
2383 Time Step No. = 75 Elapsed Time = 2.511244E+01 days
2384 Date: 02/14/07 Time: 11:06:39 CPU Time: 0 0: 0:27.48 (27.48 sec) Binary
2386 Time Step No. = 80 Elapsed Time = 3.011591E+01 days
2387 Date: 02/14/07 Time: 11:06:42 CPU Time: 0 0: 0:30.34 (30.34 sec) Binary
2389 Time Step No. = 85 Elapsed Time = 3.511938E+01 days
2390 Date: 02/14/07 Time: 11:06:44 CPU Time: 0 0: 0:32.38 (32.38 sec) Binary
2392 Time Step No. = 90 Elapsed Time = 4.012285E+01 days
2393 Date: 02/14/07 Time: 11:06:46 CPU Time: 0 0: 0:34.44 (34.44 sec) Binary
2395 Time Step No. = 95 Elapsed Time = 4.512633E+01 days
2396 Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:36.48 (36.48 sec) Binary

```
2399 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
2305 Date: 04/12/06 Time: 14:34:03 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
2307 Time Step No. = 0 Elapsed Time = 0.000000E+00 days
2308 Date: 04/12/06 Time: 14:34:03 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
2310 Time Step No. = 5 Elapsed Time = 8.207031E-05 days
2311 Date: 04/12/06 Time: 14:34:04 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
2313 Time Step No. = 10 Elapsed Time = 3.325290E-04 days
2314 Date: 04/12/06 Time: 14:34:05 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
2316 Time Step No. = 15 Elapsed Time = 1.096868E-03 days
2317 Date: 04/12/06 Time: 14:34:06 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
2319 Time Step No. = 20 Elapsed Time = 3.429447E-03 days
2320 Date: 04/12/06 Time: 14:34:07 CPU Time: 0 0: 0: 3.75 ( 3.75 sec) Binary
2322 Time Step No. = 25 Elapsed Time = 1.054791E-02 days
2323 Date: 04/12/06 Time: 14:34:09 CPU Time: 0 0: 0: 5.54 ( 5.54 sec) Binary
2325 Time Step No. = 30 Elapsed Time = 3.179889E-02 days
2326 Date: 04/12/06 Time: 14:34:11 CPU Time: 0 0: 0: 7.32 ( 7.32 sec) Binary
2328 Time Step No. = 35 Elapsed Time = 8.965424E-02 days
2329 Date: 04/12/06 Time: 14:34:13 CPU Time: 0 0: 0: 9.10 ( 9.10 sec) Binary
2331 Time Step No. = 40 Elapsed Time = 2.641632E-01 days
2332 Date: 04/12/06 Time: 14:34:14 CPU Time: 0 0: 0:10.89 ( 10.89 sec) Binary
2334 Time Step No. = 45 Elapsed Time = 7.898418E-01 days
2335 Date: 04/12/06 Time: 14:34:16 CPU Time: 0 0: 0:12.68 ( 12.68 sec) Binary
2337 Time Step No. = 50 Elapsed Time = 2.098515E+00 days
2338 Date: 04/12/06 Time: 14:34:18 CPU Time: 0 0: 0:14.45 ( 14.45 sec) Binary
2340 Time Step No. = 55 Elapsed Time = 5.152845E+00 days
2341 Date: 04/12/06 Time: 14:34:20 CPU Time: 0 0: 0:16.23 ( 16.23 sec) Binary
2343 Time Step No. = 60 Elapsed Time = 1.010202E+01 days
2344 Date: 04/12/06 Time: 14:34:22 CPU Time: 0 0: 0:18.02 ( 18.02 sec) Binary
2346 Time Step No. = 65 Elapsed Time = 1.510549E+01 days
2347 Date: 04/12/06 Time: 14:34:23 CPU Time: 0 0: 0:19.80 ( 19.80 sec) Binary
2349 Time Step No. = 70 Elapsed Time = 2.010897E+01 days
2350 Date: 04/12/06 Time: 14:34:25 CPU Time: 0 0: 0:21.58 ( 21.58 sec) Binary
2352 Time Step No. = 75 Elapsed Time = 2.511244E+01 days
2353 Date: 04/12/06 Time: 14:34:27 CPU Time: 0 0: 0:23.88 ( 23.88 sec) Binary
2355 Time Step No. = 80 Elapsed Time = 3.011591E+01 days
2356 Date: 04/12/06 Time: 14:34:30 CPU Time: 0 0: 0:26.36 ( 26.36 sec) Binary
2358 Time Step No. = 85 Elapsed Time = 3.511938E+01 days
2359 Date: 04/12/06 Time: 14:34:32 CPU Time: 0 0: 0:28.14 ( 28.14 sec) Binary
2361 Time Step No. = 90 Elapsed Time = 4.012285E+01 days
2362 Date: 04/12/06 Time: 14:34:33 CPU Time: 0 0: 0:29.91 ( 29.91 sec) Binary
2364 Time Step No. = 95 Elapsed Time = 4.512633E+01 days
2365 Date: 04/12/06 Time: 14:34:35 CPU Time: 0 0: 0:31.68 ( 31.68 sec) Binary
2368 Restart information has been written to I/O unit 2 in DISKW, file name:
```

```
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
2415 CPU Time (this time step) = 0.41 sec = 0.00011 hr
2416 CPU Time (total for run) = 38.51 sec = 0.01070 hr
2417 *****
```

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
2384 CPU Time (this time step) = 0.35 sec = 0.00010 hr
2385 CPU Time (total for run) = 33.45 sec = 0.00929 hr
2386 *****
```

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
3063 Date: 02/14/07 Time: 11:06:50 CPU Time: 0 0: 0:38.53 ( 38.53 sec) ASCII
3065 Time Step No. = 100 Elapsed Time = 5.003472E+01 days
3066 Date: 02/14/07 Time: 11:06:50 CPU Time: 0 0: 0:38.53 ( 38.53 sec) Binary
3071 *****
3072 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3073 * Completed: 02/14/07 at 11:06:50 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3074 *****
```

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
3032 Date: 04/12/06 Time: 14:34:37 CPU Time: 0 0: 0:33.49 ( 33.49 sec) ASCII
3034 Time Step No. = 100 Elapsed Time = 5.003472E+01 days
3035 Date: 04/12/06 Time: 14:34:37 CPU Time: 0 0: 0:33.49 ( 33.49 sec) Binary
3040 *****
3041 * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
3042 * Completed: 04/12/06 at 14:34:37 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
3043 *****
```

```
*****
```

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

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

**A.12.4 Test Case 12: Output Difference Files,
BF2_QB0600_ES40_TEST12_UPPER_OUT.DIF,
BF2_QB0600_ES45_TEST12_UPPER_OUT.DIF,
BF2_QB0600_ES40_TEST12_LOWER_OUT.DIF, and
BF2_QB0600_ES45_TEST12_LOWER_OUT.DIF**

BF2_QB0600_ES40_TEST12_UPPER_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1
3  ** Begun on: 02/14/07 at 11:08:16 Run on: CSN - ALPHA AXP OpenVMS V8.2 **
4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
3  ** Begun on: 02/14/07 at 11:06:09 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1
70 PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_TEST12_UPPER.INP;1
71 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
70 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_TEST12_UPPER.INP;1
71 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1
75 PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_CLOSURE.DAT;1
76 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
75 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_CLOSURE.DAT;1
76 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1
80 PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1
81 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
80 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
81 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1
85 PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.SUM;1
86 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
85 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.SUM;1
86 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1
90 PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.BIN;1
91 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
90 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.BIN;1
91 *****
```


File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.ROT;1
95 PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.ROT;1
96 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.ROT;1
95 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.ROT;1
96 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.ROT;1
2336 Date: 02/14/07 Time: 11:08:17 CPU Time: 0 0: 0: 0.10 (0.10 sec) ASCII
2338 Time Step No. = 0 Elapsed Time = 0.000000E+00 days
2339 Date: 02/14/07 Time: 11:08:17 CPU Time: 0 0: 0: 0.11 (0.11 sec) Binary
2341 Time Step No. = 5 Elapsed Time = 8.207031E-05 days
2342 Date: 02/14/07 Time: 11:08:19 CPU Time: 0 0: 0: 1.50 (1.50 sec) Binary
2344 Time Step No. = 10 Elapsed Time = 3.325290E-04 days
2345 Date: 02/14/07 Time: 11:08:21 CPU Time: 0 0: 0: 3.90 (3.90 sec) Binary
2347 Time Step No. = 15 Elapsed Time = 1.096868E-03 days
2348 Date: 02/14/07 Time: 11:08:24 CPU Time: 0 0: 0: 6.62 (6.62 sec) Binary
2350 Time Step No. = 20 Elapsed Time = 3.429447E-03 days
2351 Date: 02/14/07 Time: 11:08:26 CPU Time: 0 0: 0: 9.31 (9.31 sec) Binary
2353 Time Step No. = 25 Elapsed Time = 1.054791E-02 days
2354 Date: 02/14/07 Time: 11:08:29 CPU Time: 0 0: 0:12.00 (12.00 sec) Binary
2356 Time Step No. = 30 Elapsed Time = 3.227174E-02 days
2357 Date: 02/14/07 Time: 11:08:32 CPU Time: 0 0: 0:14.69 (14.69 sec) Binary
2359 Time Step No. = 35 Elapsed Time = 9.856761E-02 days
2360 Date: 02/14/07 Time: 11:08:34 CPU Time: 0 0: 0:17.39 (17.39 sec) Binary
2362 Time Step No. = 40 Elapsed Time = 2.986599E-01 days
2363 Date: 02/14/07 Time: 11:08:37 CPU Time: 0 0: 0:20.08 (20.08 sec) Binary
2365 Time Step No. = 45 Elapsed Time = 7.917827E-01 days
2366 Date: 02/14/07 Time: 11:08:40 CPU Time: 0 0: 0:22.78 (22.78 sec) Binary
2368 Time Step No. = 50 Elapsed Time = 1.860850E+00 days
2369 Date: 02/14/07 Time: 11:08:43 CPU Time: 0 0: 0:25.47 (25.47 sec) Binary
2371 Time Step No. = 55 Elapsed Time = 4.029466E+00 days
2372 Date: 02/14/07 Time: 11:08:45 CPU Time: 0 0: 0:28.15 (28.15 sec) Binary
2374 Time Step No. = 60 Elapsed Time = 8.305259E+00 days
2375 Date: 02/14/07 Time: 11:08:48 CPU Time: 0 0: 0:30.86 (30.86 sec) Binary
2377 Time Step No. = 65 Elapsed Time = 1.330873E+01 days
2378 Date: 02/14/07 Time: 11:08:51 CPU Time: 0 0: 0:33.56 (33.56 sec) Binary
2380 Time Step No. = 70 Elapsed Time = 1.831220E+01 days
2381 Date: 02/14/07 Time: 11:08:53 CPU Time: 0 0: 0:36.25 (36.25 sec) Binary
2383 Time Step No. = 75 Elapsed Time = 2.331568E+01 days
2384 Date: 02/14/07 Time: 11:08:56 CPU Time: 0 0: 0:38.96 (38.96 sec) Binary
2386 Time Step No. = 80 Elapsed Time = 2.831915E+01 days
2387 Date: 02/14/07 Time: 11:08:59 CPU Time: 0 0: 0:41.65 (41.65 sec) Binary
2389 Time Step No. = 85 Elapsed Time = 3.332262E+01 days
2390 Date: 02/14/07 Time: 11:09:01 CPU Time: 0 0: 0:44.35 (44.35 sec) Binary
2392 Time Step No. = 90 Elapsed Time = 3.832609E+01 days
2393 Date: 02/14/07 Time: 11:09:04 CPU Time: 0 0: 0:47.05 (47.05 sec) Binary
2395 Time Step No. = 95 Elapsed Time = 4.332956E+01 days
2396 Date: 02/14/07 Time: 11:09:07 CPU Time: 0 0: 0:49.74 (49.74 sec) Binary
2398 Time Step No. = 100 Elapsed Time = 4.833304E+01 days
2399 Date: 02/14/07 Time: 11:09:10 CPU Time: 0 0: 0:52.42 (52.42 sec) Binary
2402 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.ROT;1
2336 Date: 02/14/07 Time: 11:06:09 CPU Time: 0 0: 0: 0.10 (0.10 sec) ASCII
2338 Time Step No. = 0 Elapsed Time = 0.000000E+00 days
2339 Date: 02/14/07 Time: 11:06:09 CPU Time: 0 0: 0: 0.11 (0.11 sec) Binary
2341 Time Step No. = 5 Elapsed Time = 8.207031E-05 days
2342 Date: 02/14/07 Time: 11:06:10 CPU Time: 0 0: 0: 1.12 (1.12 sec) Binary
2344 Time Step No. = 10 Elapsed Time = 3.325290E-04 days
2345 Date: 02/14/07 Time: 11:06:12 CPU Time: 0 0: 0: 2.89 (2.89 sec) Binary
2347 Time Step No. = 15 Elapsed Time = 1.096868E-03 days
2348 Date: 02/14/07 Time: 11:06:14 CPU Time: 0 0: 0: 4.86 (4.86 sec) Binary
2350 Time Step No. = 20 Elapsed Time = 3.429447E-03 days
2351 Date: 02/14/07 Time: 11:06:16 CPU Time: 0 0: 0: 6.83 (6.83 sec) Binary
2353 Time Step No. = 25 Elapsed Time = 1.054791E-02 days
2354 Date: 02/14/07 Time: 11:06:18 CPU Time: 0 0: 0: 8.80 (8.80 sec) Binary
2356 Time Step No. = 30 Elapsed Time = 3.227174E-02 days
2357 Date: 02/14/07 Time: 11:06:20 CPU Time: 0 0: 0:10.77 (10.77 sec) Binary
2359 Time Step No. = 35 Elapsed Time = 9.856761E-02 days
2360 Date: 02/14/07 Time: 11:06:22 CPU Time: 0 0: 0:12.74 (12.74 sec) Binary
2362 Time Step No. = 40 Elapsed Time = 2.986599E-01 days


```
2363 Date: 02/14/07 Time: 11:06:24 CPU Time: 0 0: 0:14.71 ( 14.71 sec) Binary
2365 Time Step No. = 45 Elapsed Time = 7.917827E-01 days
2366 Date: 02/14/07 Time: 11:06:26 CPU Time: 0 0: 0:16.69 ( 16.69 sec) Binary
2368 Time Step No. = 50 Elapsed Time = 1.860850E+00 days
2369 Date: 02/14/07 Time: 11:06:28 CPU Time: 0 0: 0:18.68 ( 18.68 sec) Binary
2371 Time Step No. = 55 Elapsed Time = 4.029466E+00 days
2372 Date: 02/14/07 Time: 11:06:30 CPU Time: 0 0: 0:20.65 ( 20.65 sec) Binary
2374 Time Step No. = 60 Elapsed Time = 8.305259E+00 days
2375 Date: 02/14/07 Time: 11:06:32 CPU Time: 0 0: 0:22.64 ( 22.64 sec) Binary
2377 Time Step No. = 65 Elapsed Time = 1.330873E+01 days
2378 Date: 02/14/07 Time: 11:06:34 CPU Time: 0 0: 0:24.63 ( 24.63 sec) Binary
2380 Time Step No. = 70 Elapsed Time = 1.831220E+01 days
2381 Date: 02/14/07 Time: 11:06:36 CPU Time: 0 0: 0:26.60 ( 26.60 sec) Binary
2383 Time Step No. = 75 Elapsed Time = 2.331568E+01 days
2384 Date: 02/14/07 Time: 11:06:38 CPU Time: 0 0: 0:28.58 ( 28.58 sec) Binary
2386 Time Step No. = 80 Elapsed Time = 2.831915E+01 days
2387 Date: 02/14/07 Time: 11:06:40 CPU Time: 0 0: 0:30.56 ( 30.56 sec) Binary
2389 Time Step No. = 85 Elapsed Time = 3.332262E+01 days
2390 Date: 02/14/07 Time: 11:06:42 CPU Time: 0 0: 0:32.53 ( 32.53 sec) Binary
2392 Time Step No. = 90 Elapsed Time = 3.832609E+01 days
2393 Date: 02/14/07 Time: 11:06:44 CPU Time: 0 0: 0:34.50 ( 34.50 sec) Binary
2395 Time Step No. = 95 Elapsed Time = 4.332956E+01 days
2396 Date: 02/14/07 Time: 11:06:46 CPU Time: 0 0: 0:36.48 ( 36.48 sec) Binary
2398 Time Step No. = 100 Elapsed Time = 4.833304E+01 days
2399 Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:38.45 ( 38.45 sec) Binary
2402 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1
2418 CPU Time (this time step) = 0.54 sec = 0.00015 hr
2419 CPU Time (total for run) = 53.50 sec = 0.01486 hr
2420 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
2418 CPU Time (this time step) = 0.39 sec = 0.00011 hr
2419 CPU Time (total for run) = 39.24 sec = 0.01090 hr
2420 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1
3066 Date: 02/14/07 Time: 11:09:11 CPU Time: 0 0: 0:53.53 ( 53.53 sec) ASCII
3068 Time Step No. = 102 Elapsed Time = 5.003472E+01 days
3069 Date: 02/14/07 Time: 11:09:11 CPU Time: 0 0: 0:53.54 ( 53.54 sec) Binary
3074 *****
3075 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3076 * Completed: 02/14/07 at 11:09:11 Run on: CSN - ALPHA AXP OpenVMS V8.2 *
3077 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
3066 Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:39.25 ( 39.25 sec) ASCII
3068 Time Step No. = 102 Elapsed Time = 5.003472E+01 days
3069 Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:39.25 ( 39.25 sec) Binary
3074 *****
3075 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3076 * Completed: 02/14/07 at 11:06:48 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3077 *****
*****
Number of difference sections found: 10
Number of difference records found: 58

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
```

BF2_QB0600_ES45_TEST12_UPPER_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
3 ** Begun on: 02/14/07 at 11:10:42 Run on: CCR - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
```

```
3  ** Begun on: 02/14/07 at 11:06:09 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4  ****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
70  PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_TEST12_UPPER.INP;1
71  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
70  PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_TEST12_UPPER.INP;1
71  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
75  PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_CLOSURE.DAT;1
76  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
75  PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_CLOSURE.DAT;1
76  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
80  PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
81  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
80  PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
81  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
85  PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.SUM;1
86  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
85  PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.SUM;1
86  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
90  PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.BIN;1
91  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
90  PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.BIN;1
91  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
95  PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.ROT;1
96  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
95  PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.ROT;1
96  ****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
2336 Date: 02/14/07 Time: 11:10:42 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
2338 Time Step No. = 0 Elapsed Time = 0.000000E+00 days
2339 Date: 02/14/07 Time: 11:10:42 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
2341 Time Step No. = 5 Elapsed Time = 8.207031E-05 days
2342 Date: 02/14/07 Time: 11:10:43 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
2344 Time Step No. = 10 Elapsed Time = 3.325290E-04 days
2345 Date: 02/14/07 Time: 11:10:45 CPU Time: 0 0: 0: 3.14 ( 3.14 sec) Binary
2347 Time Step No. = 15 Elapsed Time = 1.096868E-03 days
2348 Date: 02/14/07 Time: 11:10:47 CPU Time: 0 0: 0: 5.27 ( 5.27 sec) Binary
2350 Time Step No. = 20 Elapsed Time = 3.429447E-03 days
2351 Date: 02/14/07 Time: 11:10:50 CPU Time: 0 0: 0: 7.41 ( 7.41 sec) Binary
2353 Time Step No. = 25 Elapsed Time = 1.054791E-02 days
2354 Date: 02/14/07 Time: 11:10:52 CPU Time: 0 0: 0: 9.57 ( 9.57 sec) Binary
2356 Time Step No. = 30 Elapsed Time = 3.227174E-02 days
2357 Date: 02/14/07 Time: 11:10:54 CPU Time: 0 0: 0:11.71 ( 11.71 sec) Binary
2359 Time Step No. = 35 Elapsed Time = 9.856761E-02 days
2360 Date: 02/14/07 Time: 11:10:56 CPU Time: 0 0: 0:13.85 ( 13.85 sec) Binary
```

2362 Time Step No. = 40 Elapsed Time = 2.986599E-01 days
2363 Date: 02/14/07 Time: 11:10:58 CPU Time: 0 0: 0:16.00 (16.00 sec) Binary
2365 Time Step No. = 45 Elapsed Time = 7.917827E-01 days
2366 Date: 02/14/07 Time: 11:11:00 CPU Time: 0 0: 0:18.15 (18.15 sec) Binary
2368 Time Step No. = 50 Elapsed Time = 1.860850E+00 days
2369 Date: 02/14/07 Time: 11:11:03 CPU Time: 0 0: 0:20.27 (20.27 sec) Binary
2371 Time Step No. = 55 Elapsed Time = 4.029466E+00 days
2372 Date: 02/14/07 Time: 11:11:05 CPU Time: 0 0: 0:22.42 (22.42 sec) Binary
2374 Time Step No. = 60 Elapsed Time = 8.305259E+00 days
2375 Date: 02/14/07 Time: 11:11:07 CPU Time: 0 0: 0:24.59 (24.59 sec) Binary
2377 Time Step No. = 65 Elapsed Time = 1.330873E+01 days
2378 Date: 02/14/07 Time: 11:11:09 CPU Time: 0 0: 0:26.76 (26.76 sec) Binary
2380 Time Step No. = 70 Elapsed Time = 1.831220E+01 days
2381 Date: 02/14/07 Time: 11:11:11 CPU Time: 0 0: 0:28.91 (28.91 sec) Binary
2383 Time Step No. = 75 Elapsed Time = 2.331568E+01 days
2384 Date: 02/14/07 Time: 11:11:13 CPU Time: 0 0: 0:31.08 (31.08 sec) Binary
2386 Time Step No. = 80 Elapsed Time = 2.831915E+01 days
2387 Date: 02/14/07 Time: 11:11:16 CPU Time: 0 0: 0:33.26 (33.26 sec) Binary
2389 Time Step No. = 85 Elapsed Time = 3.332262E+01 days
2390 Date: 02/14/07 Time: 11:11:18 CPU Time: 0 0: 0:35.43 (35.43 sec) Binary
2392 Time Step No. = 90 Elapsed Time = 3.832609E+01 days
2393 Date: 02/14/07 Time: 11:11:20 CPU Time: 0 0: 0:37.59 (37.59 sec) Binary
2395 Time Step No. = 95 Elapsed Time = 4.332956E+01 days
2396 Date: 02/14/07 Time: 11:11:22 CPU Time: 0 0: 0:39.75 (39.75 sec) Binary
2398 Time Step No. = 100 Elapsed Time = 4.833304E+01 days
2399 Date: 02/14/07 Time: 11:11:24 CPU Time: 0 0: 0:41.91 (41.91 sec) Binary
2402 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
2336 Date: 02/14/07 Time: 11:06:09 CPU Time: 0 0: 0: 0.10 (0.10 sec) ASCII
2338 Time Step No. = 0 Elapsed Time = 0.000000E+00 days
2339 Date: 02/14/07 Time: 11:06:09 CPU Time: 0 0: 0: 0.11 (0.11 sec) Binary
2341 Time Step No. = 5 Elapsed Time = 8.207031E-05 days
2342 Date: 02/14/07 Time: 11:06:10 CPU Time: 0 0: 0: 1.12 (1.12 sec) Binary
2344 Time Step No. = 10 Elapsed Time = 3.325290E-04 days
2345 Date: 02/14/07 Time: 11:06:12 CPU Time: 0 0: 0: 2.89 (2.89 sec) Binary
2347 Time Step No. = 15 Elapsed Time = 1.096868E-03 days
2348 Date: 02/14/07 Time: 11:06:14 CPU Time: 0 0: 0: 4.86 (4.86 sec) Binary
2350 Time Step No. = 20 Elapsed Time = 3.429447E-03 days
2351 Date: 02/14/07 Time: 11:06:16 CPU Time: 0 0: 0: 6.83 (6.83 sec) Binary
2353 Time Step No. = 25 Elapsed Time = 1.054791E-02 days
2354 Date: 02/14/07 Time: 11:06:18 CPU Time: 0 0: 0: 8.80 (8.80 sec) Binary
2356 Time Step No. = 30 Elapsed Time = 3.227174E-02 days
2357 Date: 02/14/07 Time: 11:06:20 CPU Time: 0 0: 0:10.77 (10.77 sec) Binary
2359 Time Step No. = 35 Elapsed Time = 9.856761E-02 days
2360 Date: 02/14/07 Time: 11:06:22 CPU Time: 0 0: 0:12.74 (12.74 sec) Binary
2362 Time Step No. = 40 Elapsed Time = 2.986599E-01 days
2363 Date: 02/14/07 Time: 11:06:24 CPU Time: 0 0: 0:14.71 (14.71 sec) Binary
2365 Time Step No. = 45 Elapsed Time = 7.917827E-01 days
2366 Date: 02/14/07 Time: 11:06:26 CPU Time: 0 0: 0:16.69 (16.69 sec) Binary
2368 Time Step No. = 50 Elapsed Time = 1.860850E+00 days
2369 Date: 02/14/07 Time: 11:06:28 CPU Time: 0 0: 0:18.68 (18.68 sec) Binary
2371 Time Step No. = 55 Elapsed Time = 4.029466E+00 days
2372 Date: 02/14/07 Time: 11:06:30 CPU Time: 0 0: 0:20.65 (20.65 sec) Binary
2374 Time Step No. = 60 Elapsed Time = 8.305259E+00 days
2375 Date: 02/14/07 Time: 11:06:32 CPU Time: 0 0: 0:22.64 (22.64 sec) Binary
2377 Time Step No. = 65 Elapsed Time = 1.330873E+01 days
2378 Date: 02/14/07 Time: 11:06:34 CPU Time: 0 0: 0:24.63 (24.63 sec) Binary
2380 Time Step No. = 70 Elapsed Time = 1.831220E+01 days
2381 Date: 02/14/07 Time: 11:06:36 CPU Time: 0 0: 0:26.60 (26.60 sec) Binary
2383 Time Step No. = 75 Elapsed Time = 2.331568E+01 days
2384 Date: 02/14/07 Time: 11:06:38 CPU Time: 0 0: 0:28.58 (28.58 sec) Binary
2386 Time Step No. = 80 Elapsed Time = 2.831915E+01 days
2387 Date: 02/14/07 Time: 11:06:40 CPU Time: 0 0: 0:30.56 (30.56 sec) Binary
2389 Time Step No. = 85 Elapsed Time = 3.332262E+01 days
2390 Date: 02/14/07 Time: 11:06:42 CPU Time: 0 0: 0:32.53 (32.53 sec) Binary
2392 Time Step No. = 90 Elapsed Time = 3.832609E+01 days
2393 Date: 02/14/07 Time: 11:06:44 CPU Time: 0 0: 0:34.50 (34.50 sec) Binary
2395 Time Step No. = 95 Elapsed Time = 4.332956E+01 days
2396 Date: 02/14/07 Time: 11:06:46 CPU Time: 0 0: 0:36.48 (36.48 sec) Binary
2398 Time Step No. = 100 Elapsed Time = 4.833304E+01 days
2399 Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:38.45 (38.45 sec) Binary
2402 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1

Information Only

```
2418 CPU Time (this time step) = 0.43 sec = 0.00012 hr
2419 CPU Time (total for run) = 42.78 sec = 0.01188 hr
2420 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
2418 CPU Time (this time step) = 0.39 sec = 0.00011 hr
2419 CPU Time (total for run) = 39.24 sec = 0.01090 hr
2420 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
3066 Date: 02/14/07 Time: 11:11:25 CPU Time: 0 0: 0:42.80 ( 42.80 sec) ASCII
3068 Time Step No. = 102 Elapsed Time = 5.003472E+01 days
3069 Date: 02/14/07 Time: 11:11:25 CPU Time: 0 0: 0:42.81 ( 42.81 sec) Binary
3074 *****
3075 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3076 * Completed: 02/14/07 at 11:11:25 Run on: CCR - ALPHA AXP OpenVMS V8.2 *
3077 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
3066 Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:39.25 ( 39.25 sec) ASCII
3068 Time Step No. = 102 Elapsed Time = 5.003472E+01 days
3069 Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:39.25 ( 39.25 sec) Binary
3074 *****
3075 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3076 * Completed: 02/14/07 at 11:06:48 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3077 *****
*****
```

Number of difference sections found: 10
Number of difference records found: 58

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
```

BF2_QB0600_ES40_TEST12_LOWER_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
3 ** Begun on: 02/14/07 at 11:08:22 Run on: CSN - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
3 ** Begun on: 02/14/07 at 11:06:12 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
70 PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1
71 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
70 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1
71 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
75 PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_CLOSURE.DAT;1
76 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
75 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_CLOSURE.DAT;1
76 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
80 PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
81 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
80 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
81 *****
```

```
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
 85 PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.SUM;1
 86 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
 85 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.SUM;1
 86 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
 90 PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.BIN;1
 91 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
 90 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.BIN;1
 91 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
 95 PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.ROT;1
 96 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
 95 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.ROT;1
 96 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
2336 Date: 02/14/07 Time: 11:08:23 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
2338 Time Step No. = 0 Elapsed Time = 0.000000E+00 days
2339 Date: 02/14/07 Time: 11:08:23 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
2341 Time Step No. = 5 Elapsed Time = 8.207031E-05 days
2342 Date: 02/14/07 Time: 11:08:24 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
2344 Time Step No. = 10 Elapsed Time = 3.325290E-04 days
2345 Date: 02/14/07 Time: 11:08:25 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
2347 Time Step No. = 15 Elapsed Time = 1.096868E-03 days
2348 Date: 02/14/07 Time: 11:08:27 CPU Time: 0 0: 0: 4.24 ( 4.24 sec) Binary
2350 Time Step No. = 20 Elapsed Time = 3.429447E-03 days
2351 Date: 02/14/07 Time: 11:08:28 CPU Time: 0 0: 0: 5.60 ( 5.60 sec) Binary
2353 Time Step No. = 25 Elapsed Time = 1.054791E-02 days
2354 Date: 02/14/07 Time: 11:08:31 CPU Time: 0 0: 0: 8.27 ( 8.27 sec) Binary
2356 Time Step No. = 30 Elapsed Time = 3.179889E-02 days
2357 Date: 02/14/07 Time: 11:08:33 CPU Time: 0 0: 0:10.94 ( 10.94 sec) Binary
2359 Time Step No. = 35 Elapsed Time = 8.965424E-02 days
2360 Date: 02/14/07 Time: 11:08:36 CPU Time: 0 0: 0:13.63 ( 13.63 sec) Binary
2362 Time Step No. = 40 Elapsed Time = 2.641632E-01 days
2363 Date: 02/14/07 Time: 11:08:39 CPU Time: 0 0: 0:16.29 ( 16.29 sec) Binary
2365 Time Step No. = 45 Elapsed Time = 7.898418E-01 days
2366 Date: 02/14/07 Time: 11:08:41 CPU Time: 0 0: 0:18.96 ( 18.96 sec) Binary
2368 Time Step No. = 50 Elapsed Time = 2.098515E+00 days
2369 Date: 02/14/07 Time: 11:08:44 CPU Time: 0 0: 0:21.64 ( 21.64 sec) Binary
2371 Time Step No. = 55 Elapsed Time = 5.152845E+00 days
2372 Date: 02/14/07 Time: 11:08:47 CPU Time: 0 0: 0:24.33 ( 24.33 sec) Binary
2374 Time Step No. = 60 Elapsed Time = 1.010202E+01 days
2375 Date: 02/14/07 Time: 11:08:49 CPU Time: 0 0: 0:27.01 ( 27.01 sec) Binary
2377 Time Step No. = 65 Elapsed Time = 1.510549E+01 days
2378 Date: 02/14/07 Time: 11:08:52 CPU Time: 0 0: 0:29.70 ( 29.70 sec) Binary
2380 Time Step No. = 70 Elapsed Time = 2.010897E+01 days
2381 Date: 02/14/07 Time: 11:08:55 CPU Time: 0 0: 0:32.38 ( 32.38 sec) Binary
2383 Time Step No. = 75 Elapsed Time = 2.511244E+01 days
2384 Date: 02/14/07 Time: 11:08:58 CPU Time: 0 0: 0:35.86 ( 35.86 sec) Binary
2386 Time Step No. = 80 Elapsed Time = 3.011591E+01 days
2387 Date: 02/14/07 Time: 11:09:02 CPU Time: 0 0: 0:39.59 ( 39.59 sec) Binary
2389 Time Step No. = 85 Elapsed Time = 3.511938E+01 days
2390 Date: 02/14/07 Time: 11:09:05 CPU Time: 0 0: 0:42.28 ( 42.28 sec) Binary
2392 Time Step No. = 90 Elapsed Time = 4.012285E+01 days
2393 Date: 02/14/07 Time: 11:09:07 CPU Time: 0 0: 0:44.96 ( 44.96 sec) Binary
2395 Time Step No. = 95 Elapsed Time = 4.512633E+01 days
2396 Date: 02/14/07 Time: 11:09:10 CPU Time: 0 0: 0:47.65 ( 47.65 sec) Binary
2399 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
2336 Date: 02/14/07 Time: 11:06:12 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
2338 Time Step No. = 0 Elapsed Time = 0.000000E+00 days
```

2339 Date: 02/14/07 Time: 11:06:12 CPU Time: 0 0: 0: 0.10 (0.10 sec) Binary
2341 Time Step No. = 5 Elapsed Time = 8.207031E-05 days
2342 Date: 02/14/07 Time: 11:06:13 CPU Time: 0 0: 0: 1.15 (1.15 sec) Binary
2344 Time Step No. = 10 Elapsed Time = 3.325290E-04 days
2345 Date: 02/14/07 Time: 11:06:14 CPU Time: 0 0: 0: 2.18 (2.18 sec) Binary
2347 Time Step No. = 15 Elapsed Time = 1.096868E-03 days
2348 Date: 02/14/07 Time: 11:06:15 CPU Time: 0 0: 0: 3.22 (3.22 sec) Binary
2350 Time Step No. = 20 Elapsed Time = 3.429447E-03 days
2351 Date: 02/14/07 Time: 11:06:16 CPU Time: 0 0: 0: 4.26 (4.26 sec) Binary
2353 Time Step No. = 25 Elapsed Time = 1.054791E-02 days
2354 Date: 02/14/07 Time: 11:06:18 CPU Time: 0 0: 0: 6.32 (6.32 sec) Binary
2356 Time Step No. = 30 Elapsed Time = 3.179889E-02 days
2357 Date: 02/14/07 Time: 11:06:20 CPU Time: 0 0: 0: 8.37 (8.37 sec) Binary
2359 Time Step No. = 35 Elapsed Time = 8.965424E-02 days
2360 Date: 02/14/07 Time: 11:06:22 CPU Time: 0 0: 0:10.42 (10.42 sec) Binary
2362 Time Step No. = 40 Elapsed Time = 2.641632E-01 days
2363 Date: 02/14/07 Time: 11:06:24 CPU Time: 0 0: 0:12.48 (12.48 sec) Binary
2365 Time Step No. = 45 Elapsed Time = 7.898418E-01 days
2366 Date: 02/14/07 Time: 11:06:26 CPU Time: 0 0: 0:14.52 (14.52 sec) Binary
2368 Time Step No. = 50 Elapsed Time = 2.098515E+00 days
2369 Date: 02/14/07 Time: 11:06:28 CPU Time: 0 0: 0:16.58 (16.58 sec) Binary
2371 Time Step No. = 55 Elapsed Time = 5.152845E+00 days
2372 Date: 02/14/07 Time: 11:06:30 CPU Time: 0 0: 0:18.63 (18.63 sec) Binary
2374 Time Step No. = 60 Elapsed Time = 1.010202E+01 days
2375 Date: 02/14/07 Time: 11:06:32 CPU Time: 0 0: 0:20.67 (20.67 sec) Binary
2377 Time Step No. = 65 Elapsed Time = 1.510549E+01 days
2378 Date: 02/14/07 Time: 11:06:34 CPU Time: 0 0: 0:22.74 (22.74 sec) Binary
2380 Time Step No. = 70 Elapsed Time = 2.010897E+01 days
2381 Date: 02/14/07 Time: 11:06:36 CPU Time: 0 0: 0:24.81 (24.81 sec) Binary
2383 Time Step No. = 75 Elapsed Time = 2.511244E+01 days
2384 Date: 02/14/07 Time: 11:06:39 CPU Time: 0 0: 0:27.48 (27.48 sec) Binary
2386 Time Step No. = 80 Elapsed Time = 3.011591E+01 days
2387 Date: 02/14/07 Time: 11:06:42 CPU Time: 0 0: 0:30.34 (30.34 sec) Binary
2389 Time Step No. = 85 Elapsed Time = 3.511938E+01 days
2390 Date: 02/14/07 Time: 11:06:44 CPU Time: 0 0: 0:32.38 (32.38 sec) Binary
2392 Time Step No. = 90 Elapsed Time = 4.012285E+01 days
2393 Date: 02/14/07 Time: 11:06:46 CPU Time: 0 0: 0:34.44 (34.44 sec) Binary
2395 Time Step No. = 95 Elapsed Time = 4.512633E+01 days
2396 Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:36.48 (36.48 sec) Binary
2399 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
2415 CPU Time (this time step) = 0.53 sec = 0.00015 hr
2416 CPU Time (total for run) = 50.31 sec = 0.01398 hr
2417 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
2415 CPU Time (this time step) = 0.41 sec = 0.00011 hr
2416 CPU Time (total for run) = 38.51 sec = 0.01070 hr
2417 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
3063 Date: 02/14/07 Time: 11:09:13 CPU Time: 0 0: 0:50.36 (50.36 sec) ASCII
3065 Time Step No. = 100 Elapsed Time = 5.003472E+01 days
3066 Date: 02/14/07 Time: 11:09:13 CPU Time: 0 0: 0:50.36 (50.36 sec) Binary
3071 *****
3072 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3073 * Completed: 02/14/07 at 11:09:13 Run on: CSN - ALPHA AXP OpenVMS V8.2 *
3074 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
3063 Date: 02/14/07 Time: 11:06:50 CPU Time: 0 0: 0:38.53 (38.53 sec) ASCII
3065 Time Step No. = 100 Elapsed Time = 5.003472E+01 days
3066 Date: 02/14/07 Time: 11:06:50 CPU Time: 0 0: 0:38.53 (38.53 sec) Binary
3071 *****
3072 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3073 * Completed: 02/14/07 at 11:06:50 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3074 *****

Number of difference sections found: 10
Number of difference records found: 56

DIFFERENCES /IGNORE={SPACING,TRAILING_SPACES,BLANK_LINES}/MERGED=1/OUTPUT=-

PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER_OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER_OUT;1

BF2_QB0600_ES45_TEST12_LOWER_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER_OUT;1
  3  ** Begun on: 02/14/07 at 11:10:50 Run on: CCR - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER_OUT;1
  3  ** Begun on: 02/14/07 at 11:06:12 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER_OUT;1
  70 PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1
  71 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER_OUT;1
  70 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1
  71 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER_OUT;1
  75 PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_CLOSURE.DAT;1
  76 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER_OUT;1
  75 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_CLOSURE.DAT;1
  76 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER_OUT;1
  80 PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER_OUT;1
  81 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER_OUT;1
  80 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER_OUT;1
  81 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER_OUT;1
  85 PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.SUM;1
  86 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER_OUT;1
  85 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.SUM;1
  86 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER_OUT;1
  90 PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.BIN;1
  91 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER_OUT;1
  90 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.BIN;1
  91 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER_OUT;1
  95 PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.ROT;1
  96 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER_OUT;1
  95 PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.ROT;1
  96 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER_OUT;1
2336 Date: 02/14/07 Time: 11:10:50 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
2338 Time Step No. = 0 Elapsed Time = 0.000000E+00 days
2339 Date: 02/14/07 Time: 11:10:50 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
```

2341 Time Step No. = 5 Elapsed Time = 8.207031E-05 days
2342 Date: 02/14/07 Time: 11:10:51 CPU Time: 0 0: 0: 1.24 (1.24 sec) Binary
2344 Time Step No. = 10 Elapsed Time = 3.325290E-04 days
2345 Date: 02/14/07 Time: 11:10:52 CPU Time: 0 0: 0: 2.32 (2.32 sec) Binary
2347 Time Step No. = 15 Elapsed Time = 1.096868E-03 days
2348 Date: 02/14/07 Time: 11:10:53 CPU Time: 0 0: 0: 3.40 (3.40 sec) Binary
2350 Time Step No. = 20 Elapsed Time = 3.429447E-03 days
2351 Date: 02/14/07 Time: 11:10:54 CPU Time: 0 0: 0: 4.49 (4.49 sec) Binary
2353 Time Step No. = 25 Elapsed Time = 1.054791E-02 days
2354 Date: 02/14/07 Time: 11:10:56 CPU Time: 0 0: 0: 6.61 (6.61 sec) Binary
2356 Time Step No. = 30 Elapsed Time = 3.179889E-02 days
2357 Date: 02/14/07 Time: 11:10:58 CPU Time: 0 0: 0: 8.73 (8.73 sec) Binary
2359 Time Step No. = 35 Elapsed Time = 8.965424E-02 days
2360 Date: 02/14/07 Time: 11:11:01 CPU Time: 0 0: 0:10.85 (10.85 sec) Binary
2362 Time Step No. = 40 Elapsed Time = 2.641632E-01 days
2363 Date: 02/14/07 Time: 11:11:03 CPU Time: 0 0: 0:12.98 (12.98 sec) Binary
2365 Time Step No. = 45 Elapsed Time = 7.898418E-01 days
2366 Date: 02/14/07 Time: 11:11:05 CPU Time: 0 0: 0:15.11 (15.11 sec) Binary
2368 Time Step No. = 50 Elapsed Time = 2.098515E+00 days
2369 Date: 02/14/07 Time: 11:11:07 CPU Time: 0 0: 0:17.27 (17.27 sec) Binary
2371 Time Step No. = 55 Elapsed Time = 5.152845E+00 days
2372 Date: 02/14/07 Time: 11:11:09 CPU Time: 0 0: 0:19.40 (19.40 sec) Binary
2374 Time Step No. = 60 Elapsed Time = 1.010202E+01 days
2375 Date: 02/14/07 Time: 11:11:11 CPU Time: 0 0: 0:21.54 (21.54 sec) Binary
2377 Time Step No. = 65 Elapsed Time = 1.510549E+01 days
2378 Date: 02/14/07 Time: 11:11:13 CPU Time: 0 0: 0:23.69 (23.69 sec) Binary
2380 Time Step No. = 70 Elapsed Time = 2.010897E+01 days
2381 Date: 02/14/07 Time: 11:11:16 CPU Time: 0 0: 0:25.82 (25.82 sec) Binary
2383 Time Step No. = 75 Elapsed Time = 2.511244E+01 days
2384 Date: 02/14/07 Time: 11:11:18 CPU Time: 0 0: 0:28.59 (28.59 sec) Binary
2386 Time Step No. = 80 Elapsed Time = 3.011591E+01 days
2387 Date: 02/14/07 Time: 11:11:21 CPU Time: 0 0: 0:31.57 (31.57 sec) Binary
2389 Time Step No. = 85 Elapsed Time = 3.511938E+01 days
2390 Date: 02/14/07 Time: 11:11:23 CPU Time: 0 0: 0:33.72 (33.72 sec) Binary
2392 Time Step No. = 90 Elapsed Time = 4.012285E+01 days
2393 Date: 02/14/07 Time: 11:11:26 CPU Time: 0 0: 0:35.87 (35.87 sec) Binary
2395 Time Step No. = 95 Elapsed Time = 4.512633E+01 days
2396 Date: 02/14/07 Time: 11:11:28 CPU Time: 0 0: 0:38.01 (38.01 sec) Binary
2399 Restart information has been written to I/O unit 2 in DISKW, file name:

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
2336 Date: 02/14/07 Time: 11:06:12 CPU Time: 0 0: 0: 0.10 (0.10 sec) ASCII
2338 Time Step No. = 0 Elapsed Time = 0.000000E+00 days
2339 Date: 02/14/07 Time: 11:06:12 CPU Time: 0 0: 0: 0.10 (0.10 sec) Binary
2341 Time Step No. = 5 Elapsed Time = 8.207031E-05 days
2342 Date: 02/14/07 Time: 11:06:13 CPU Time: 0 0: 0: 1.15 (1.15 sec) Binary
2344 Time Step No. = 10 Elapsed Time = 3.325290E-04 days
2345 Date: 02/14/07 Time: 11:06:14 CPU Time: 0 0: 0: 2.18 (2.18 sec) Binary
2347 Time Step No. = 15 Elapsed Time = 1.096868E-03 days
2348 Date: 02/14/07 Time: 11:06:15 CPU Time: 0 0: 0: 3.22 (3.22 sec) Binary
2350 Time Step No. = 20 Elapsed Time = 3.429447E-03 days
2351 Date: 02/14/07 Time: 11:06:16 CPU Time: 0 0: 0: 4.26 (4.26 sec) Binary
2353 Time Step No. = 25 Elapsed Time = 1.054791E-02 days
2354 Date: 02/14/07 Time: 11:06:18 CPU Time: 0 0: 0: 6.32 (6.32 sec) Binary
2356 Time Step No. = 30 Elapsed Time = 3.179889E-02 days
2357 Date: 02/14/07 Time: 11:06:20 CPU Time: 0 0: 0: 8.37 (8.37 sec) Binary
2359 Time Step No. = 35 Elapsed Time = 8.965424E-02 days
2360 Date: 02/14/07 Time: 11:06:22 CPU Time: 0 0: 0:10.42 (10.42 sec) Binary
2362 Time Step No. = 40 Elapsed Time = 2.641632E-01 days
2363 Date: 02/14/07 Time: 11:06:24 CPU Time: 0 0: 0:12.48 (12.48 sec) Binary
2365 Time Step No. = 45 Elapsed Time = 7.898418E-01 days
2366 Date: 02/14/07 Time: 11:06:26 CPU Time: 0 0: 0:14.52 (14.52 sec) Binary
2368 Time Step No. = 50 Elapsed Time = 2.098515E+00 days
2369 Date: 02/14/07 Time: 11:06:28 CPU Time: 0 0: 0:16.58 (16.58 sec) Binary
2371 Time Step No. = 55 Elapsed Time = 5.152845E+00 days
2372 Date: 02/14/07 Time: 11:06:30 CPU Time: 0 0: 0:18.63 (18.63 sec) Binary
2374 Time Step No. = 60 Elapsed Time = 1.010202E+01 days
2375 Date: 02/14/07 Time: 11:06:32 CPU Time: 0 0: 0:20.67 (20.67 sec) Binary
2377 Time Step No. = 65 Elapsed Time = 1.510549E+01 days
2378 Date: 02/14/07 Time: 11:06:34 CPU Time: 0 0: 0:22.74 (22.74 sec) Binary
2380 Time Step No. = 70 Elapsed Time = 2.010897E+01 days
2381 Date: 02/14/07 Time: 11:06:36 CPU Time: 0 0: 0:24.81 (24.81 sec) Binary
2383 Time Step No. = 75 Elapsed Time = 2.511244E+01 days
2384 Date: 02/14/07 Time: 11:06:39 CPU Time: 0 0: 0:27.48 (27.48 sec) Binary
2386 Time Step No. = 80 Elapsed Time = 3.011591E+01 days
2387 Date: 02/14/07 Time: 11:06:42 CPU Time: 0 0: 0:30.34 (30.34 sec) Binary

Information Only


```
2389 Time Step No. = 85 Elapsed Time = 3.511938E+01 days
2390 Date: 02/14/07 Time: 11:06:44 CPU Time: 0 0: 0:32.38 ( 32.38 sec) Binary
2392 Time Step No. = 90 Elapsed Time = 4.012285E+01 days
2393 Date: 02/14/07 Time: 11:06:46 CPU Time: 0 0: 0:34.44 ( 34.44 sec) Binary
2395 Time Step No. = 95 Elapsed Time = 4.512633E+01 days
2396 Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:36.48 ( 36.48 sec) Binary
2399 Restart information has been written to I/O unit 2 in DISKW, file name:
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.OUT;1
2415 CPU Time (this time step) = 0.43 sec = 0.00012 hr
2416 CPU Time (total for run) = 40.13 sec = 0.01115 hr
2417 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
2415 CPU Time (this time step) = 0.41 sec = 0.00011 hr
2416 CPU Time (total for run) = 38.51 sec = 0.01070 hr
2417 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.OUT;1
3063 Date: 02/14/07 Time: 11:11:30 CPU Time: 0 0: 0:40.16 ( 40.16 sec) ASCII
3065 Time Step No. = 100 Elapsed Time = 5.003472E+01 days
3066 Date: 02/14/07 Time: 11:11:30 CPU Time: 0 0: 0:40.17 ( 40.17 sec) Binary
3071 *****
3072 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3073 * Completed: 02/14/07 at 11:11:30 Run on: CCR - ALPHA AXP OpenVMS V8.2 *
3074 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
3063 Date: 02/14/07 Time: 11:06:50 CPU Time: 0 0: 0:38.53 ( 38.53 sec) ASCII
3065 Time Step No. = 100 Elapsed Time = 5.003472E+01 days
3066 Date: 02/14/07 Time: 11:06:50 CPU Time: 0 0: 0:38.53 ( 38.53 sec) Binary
3071 *****
3072 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
3073 * Completed: 02/14/07 at 11:06:50 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
3074 *****
*****
```

Number of difference sections found: 10
Number of difference records found: 56

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
```

A.13 Test Case 13 Files

A.13.1 Test Case 13: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST13_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST13.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_Test13.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_Test13.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_Test13.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_Test13.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_Test13.ROT  
$ set noverify  
  
image name: "BRAGFLO_QB0600"  
image file identification: "P QB0600 6.0"  
image file build identification: ""  
link date/time: 12-FEB-2007 14:57:24.36  
linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST13_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST13.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_Test13.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_Test13.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_Test13.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_Test13.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_Test13.ROT  
$ set noverify  
  
image name: "BRAGFLO_QB0600"  
image file identification: "P QB0600 6.0"  
image file build identification: ""  
link date/time: 12-FEB-2007 14:57:24.36  
linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST13_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST13.INP  
$ DEFINE bf2_uifold$input    working_dir:BF2_TEST13_QA0500.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_Test13.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_Test13.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_Test13.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_Test13.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_Test13.ROT
```

```
$ set noverify

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

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

A.13.2 Test Case 13: Input File, BF2_QB0600_TEST13.INP

```
1996 BF2_TEST6: QA Test Case #6.
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
  2 31 27 1
TSTART, TMAX, MAXSTEPS
-1.5779E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
8.6400E+00 8.6400E-04 1.7280E+09 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
  3
  0.0000E+00 8.6400E+02
  3.1666E+09 8.6400E+02
  3.1666E+10 8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
  2 0 2 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  5
USER REQUESTED PRINTOUT TIMES (0, 200, 900, 1001, 10000 YEARS)
0.0000E+00 6.3114E+09 2.840123E+10 3.1558848E+10 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  1
USER REQUESTED RESTART TIMES
  3.1557E+11
ASCII PRINT FLAGS
1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 1
1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 1 0 0 0 0 0 0 1 1 1
1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
BINARY PRINT FLAGS
1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 1
1 1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 1 0 0 0 0 0 0 1 1 1
1 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
HISTORY VARIABLE OUTPUT
  8
  1 4 NAME=BRINE PRESSURE
11 8 1 17 8 1 11 1 1 22 6 1
  2 1 NAME=GAS PRESSURE
22 12 1
  10 6 NAME=GAS DENSITY
  7 6 1 7 12 1 7 14 1 25 6 1 25 12 1 25 14 1
  18 30 NAME=GAS SATURATION
  8 8 1 9 8 1 10 8 1 11 8 1 12 8 1 13 8 1
14 8 1 8 9 1 9 9 1 10 9 1 11 9 1 12 9 1
13 9 1 14 9 1 8 10 1 9 10 1 10 10 1 11 10 1
12 10 1 13 10 1 14 10 1 16 8 1 17 8 1 18 8 1
16 9 1 17 9 1 18 9 1 16 10 1 17 10 1 18 10 1
  31 140 NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
  3 6 1 3 12 1 3 14 1 3 19 1 3 20 1 3 21 1
  3 22 1 3 23 1 3 24 1 3 25 1 3 26 1 3 27 1
30 6 1 30 12 1 30 14 1 30 19 1 30 20 1 30 21 1
30 22 1 30 23 1 30 24 1 30 25 1 30 26 1 30 27 1
  8 6 1 8 12 1 8 14 1 25 6 1 25 12 1 25 14 1
```

16	8	1	16	9	1	16	10	1	19	8	1	19	9	1	19	10	1
8	8	1	8	9	1	8	10	1	15	8	1	15	9	1	15	10	1
22	6	1	22	7	1	22	8	1	22	9	1	22	10	1	22	11	1
22	12	1	22	13	1	22	14	1	22	15	1	22	16	1	22	17	1
22	18	1	22	19	1	22	20	1	22	21	1	22	22	1	22	23	1
22	24	1	22	25	1	22	26	1	22	27	1	23	6	1	23	7	1
23	8	1	23	9	1	23	10	1	23	11	1	23	12	1	23	13	1
23	14	1	23	15	1	23	16	1	23	17	1	23	18	1	23	19	1
23	20	1	23	21	1	23	22	1	23	23	1	23	24	1	23	25	1
23	26	1	23	27	1	11	1	1	11	2	1	11	3	1	11	4	1
11	5	1	11	6	1	11	7	1	11	8	1	11	9	1	11	10	1
11	11	1	11	12	1	11	13	1	11	14	1	11	15	1	11	16	1
11	17	1	11	18	1	11	19	1	11	20	1	11	21	1	11	22	1
11	23	1	11	24	1	11	25	1	11	26	1	11	27	1	12	1	1
12	2	1	12	3	1	12	4	1	12	5	1	12	6	1	12	7	1
12	8	1	12	9	1	12	10	1	12	11	1	12	12	1	12	13	1
12	14	1	12	15	1	12	16	1	12	17	1	12	18	1	12	19	1
12	20	1	12	21	1	12	22	1	12	23	1	12	24	1	12	25	1
12	26	1	12	27	1												

32	69	NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION															
8	11	1	9	11	1	10	11	1	11	11	1	12	11	1	13	11	1
14	11	1	8	8	1	9	8	1	10	8	1	11	8	1	12	8	1
13	8	1	14	8	1	16	11	1	17	11	1	18	11	1	16	8	1
17	8	1	18	8	1	22	6	1	22	7	1	22	8	1	22	9	1
22	10	1	22	11	1	22	12	1	22	13	1	22	14	1	22	15	1
22	16	1	22	17	1	22	18	1	22	19	1	22	20	1	22	21	1
22	22	1	22	23	1	22	24	1	22	25	1	22	26	1	22	27	1
11	1	1	11	2	1	11	3	1	11	4	1	11	5	1	11	6	1
11	7	1	11	8	1	11	9	1	11	10	1	11	11	1	11	12	1
11	13	1	11	14	1	11	15	1	11	16	1	11	17	1	11	18	1
11	19	1	11	20	1	11	21	1	11	22	1	11	23	1	11	24	1
11	25	1	11	26	1	11	27	1									

34	140	NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION															
3	6	1	3	12	1	3	14	1	3	19	1	3	20	1	3	21	1
3	22	1	3	23	1	3	24	1	3	25	1	3	26	1	3	27	1
30	6	1	30	12	1	30	14	1	30	19	1	30	20	1	30	21	1
30	22	1	30	23	1	30	24	1	30	25	1	30	26	1	30	27	1
8	6	1	8	12	1	8	14	1	25	6	1	25	12	1	25	14	1
16	8	1	16	9	1	16	10	1	19	8	1	19	9	1	19	10	1
8	8	1	8	9	1	8	10	1	15	8	1	15	9	1	15	10	1
22	6	1	22	7	1	22	8	1	22	9	1	22	10	1	22	11	1
22	12	1	22	13	1	22	14	1	22	15	1	22	16	1	22	17	1
22	18	1	22	19	1	22	20	1	22	21	1	22	22	1	22	23	1
22	24	1	22	25	1	22	26	1	22	27	1	23	6	1	23	7	1
23	8	1	23	9	1	23	10	1	23	11	1	23	12	1	23	13	1
23	14	1	23	15	1	23	16	1	23	17	1	23	18	1	23	19	1
23	20	1	23	21	1	23	22	1	23	23	1	23	24	1	23	25	1
23	26	1	23	27	1	11	1	1	11	2	1	11	3	1	11	4	1
11	5	1	11	6	1	11	7	1	11	8	1	11	9	1	11	10	1
11	11	1	11	12	1	11	13	1	11	14	1	11	15	1	11	16	1
11	17	1	11	18	1	11	19	1	11	20	1	11	21	1	11	22	1
11	23	1	11	24	1	11	25	1	11	26	1	11	27	1	12	1	1
12	2	1	12	3	1	12	4	1	12	5	1	12	6	1	12	7	1
12	8	1	12	9	1	12	10	1	12	11	1	12	12	1	12	13	1
12	14	1	12	15	1	12	16	1	12	17	1	12	18	1	12	19	1
12	20	1	12	21	1	12	22	1	12	23	1	12	24	1	12	25	1
12	26	1	12	27	1												

35	69	NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION															
8	11	1	9	11	1	10	11	1	11	11	1	12	11	1	13	11	1
14	11	1	8	8	1	9	8	1	10	8	1	11	8	1	12	8	1
13	8	1	14	8	1	16	11	1	17	11	1	18	11	1	16	8	1
17	8	1	18	8	1	22	6	1	22	7	1	22	8	1	22	9	1
22	10	1	22	11	1	22	12	1	22	13	1	22	14	1	22	15	1
22	16	1	22	17	1	22	18	1	22	19	1	22	20	1	22	21	1
22	22	1	22	23	1	22	24	1	22	25	1	22	26	1	22	27	1
11	1	1	11	2	1	11	3	1	11	4	1	11	5	1	11	6	1
11	7	1	11	8	1	11	9	1	11	10	1	11	11	1	11	12	1
11	13	1	11	14	1	11	15	1	11	16	1	11	17	1	11	18	1
11	19	1	11	20	1	11	21	1	11	22	1	11	23	1	11	24	1
11	25	1	11	26	1	11	27	1									

MONITOR PARAMETER VALUES AT GRIDBLOCK(S)

T

NUMBER OF MONITOR BLOCKS

3

MONITOR BLOCKS (I,J,K)

11 10 1

```
17 10 1
25 12 1
GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
1 2 1 7
GRID DATA CARDS: GRID BLOCK DX'S
1.500000E+04 5.000000E+03 1.750000E+03 5.000000E+02 1.000000E+02 4.000000E+01
1.000000E+01 4.380000E+01 1.000000E+01 2.000000E+00 2.407879E-01 2.000000E+00
1.000000E+01 4.380000E+01 4.000000E+01 1.000000E+02 4.950000E+02 1.000000E+02
8.000000E+01 2.830000E+02 5.000000E+01 1.000000E+01 6.000000E+01 5.000000E+02
1.000000E+01 4.000000E+01 1.000000E+02 5.000000E+02 1.750000E+03 5.000000E+03
1.500000E+04
GRID DATA CARDS: GRID BLOCK DY'S
2.728000E+00 4.737200E+01 1.391600E+02 5.000000E+01 1.100000E+01 8.500000E-01
1.380000E+00 1.320800E+00 1.320800E+00 1.320800E+00 2.617600E+00 2.700000E-01
9.060000E+00 1.800000E-01 6.098000E+01 1.585300E+02 1.585300E+02 5.080000E+00
3.600000E+01 7.700000E+00 2.480000E+01 8.500000E+00 1.730000E+01 1.060000E+02
4.330000E+01 1.566000E+01 1.000000E-01
GRID DATA CARDS: GRID BLOCK DZ'S
6.131430E+04 2.131430E+04 7.814300E+03 3.314300E+03 2.114300E+03 1.834300E+03
1.734300E+03 1.262000E+02 2.880000E+01 4.800000E+00 2.407879E-01 4.800000E+00
2.880000E+01 1.262000E+02 1.000000E+01 1.323000E+02 1.435000E+02 1.416000E+02
1.890000E+01 1.890000E+01 1.890000E+01 9.500000E+00 2.050000E+01 5.310000E+01
1.258900E+03 1.458900E+03 2.018900E+03 3.928000E+03 8.226900E+03 2.172690E+04
6.172690E+04
GRID BLOCK ELEVATIONS
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02 1.293640E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02 1.544140E+02
-3.441824E+01 1.401058E+02 1.990077E+02 2.186417E+02 2.238774E+02 2.250991E+02
2.255354E+02 2.260048E+02 2.264743E+02 2.265790E+02 2.266000E+02 2.266209E+02
2.267256E+02 2.271951E+02 2.279264E+02 2.291480E+02 2.343401E+02 2.395322E+02
2.411029E+02 2.442706E+02 2.471764E+02 2.477000E+02 2.483108E+02 2.531975E+02
2.576478E+02 2.580841E+02 2.593058E+02 2.645415E+02 2.841755E+02 3.430774E+02
5.176014E+02
6.014737E+01 2.346714E+02 2.935733E+02 3.132073E+02 3.184430E+02 3.196646E+02
3.201010E+02 3.205704E+02 3.210399E+02 3.211446E+02 3.211656E+02 3.211865E+02
3.212912E+02 3.217607E+02 3.224920E+02 3.237137E+02 3.289057E+02 3.340978E+02
3.356685E+02 3.388362E+02 3.417420E+02 3.422656E+02 3.428764E+02 3.477631E+02
3.522134E+02 3.526497E+02 3.538714E+02 3.591071E+02 3.787411E+02 4.376429E+02
6.121671E+02
9.064270E+01 2.651668E+02 3.240687E+02 3.437026E+02 3.489384E+02 3.501600E+02
3.505963E+02 3.510658E+02 3.515353E+02 3.516400E+02 3.516609E+02 3.516819E+02
3.517866E+02 3.522561E+02 3.529873E+02 3.542090E+02 3.594011E+02 3.645932E+02
3.661639E+02 3.693315E+02 3.722373E+02 3.727609E+02 3.733717E+02 3.782584E+02
3.827088E+02 3.831451E+02 3.843668E+02 3.896025E+02 4.092365E+02 4.681383E+02
6.426624E+02
9.656680E+01 2.710909E+02 3.299928E+02 3.496267E+02 3.548625E+02 3.560841E+02
3.565204E+02 3.569899E+02 3.574594E+02 3.575641E+02 3.575851E+02 3.576060E+02
3.577107E+02 3.581802E+02 3.589114E+02 3.601331E+02 3.653252E+02 3.705173E+02
3.720880E+02 3.752556E+02 3.781614E+02 3.786850E+02 3.792958E+02 3.841825E+02
3.886329E+02 3.890692E+02 3.902909E+02 3.955266E+02 4.151606E+02 4.740624E+02
6.485865E+02
9.768167E+01 2.722057E+02 3.311076E+02 3.507415E+02 3.559773E+02 3.571989E+02
3.576353E+02 3.581047E+02 3.585742E+02 3.586789E+02 3.586999E+02 3.587208E+02
3.588255E+02 3.592950E+02 3.600263E+02 3.612480E+02 3.664400E+02 3.716321E+02
3.732029E+02 3.763705E+02 3.792763E+02 3.797998E+02 3.804107E+02 3.852974E+02
3.897477E+02 3.901840E+02 3.914057E+02 3.966414E+02 4.162754E+02 4.751772E+02
6.497014E+02
9.903186E+01 2.735559E+02 3.324578E+02 3.520918E+02 3.573275E+02 3.585491E+02
3.589854E+02 3.594549E+02 3.599244E+02 3.600291E+02 3.600501E+02 3.600710E+02
3.601757E+02 3.606452E+02 3.613765E+02 3.625981E+02 3.677902E+02 3.729823E+02
3.745530E+02 3.777206E+02 3.806265E+02 3.811501E+02 3.817609E+02 3.866476E+02
3.910979E+02 3.915342E+02 3.927559E+02 3.979916E+02 4.176256E+02 4.765274E+02
6.510515E+02
1.003524E+02 2.748765E+02 3.337784E+02 3.534124E+02 3.586481E+02 3.598698E+02
3.603061E+02 3.607755E+02 3.612450E+02 3.613497E+02 3.613707E+02 3.613916E+02
3.614963E+02 3.619658E+02 3.626971E+02 3.639187E+02 3.691108E+02 3.743029E+02
```

3.758736E+02	3.790413E+02	3.819471E+02	3.824706E+02	3.830815E+02	3.879681E+02
3.924185E+02	3.928548E+02	3.940765E+02	3.993122E+02	4.189462E+02	4.778481E+02
6.523721E+02					
1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	3.611903E+02
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	3.627122E+02
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.194830E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02					
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.357305E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02					
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02

1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.600225E+07
1.600225E+07				
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.797447E+07	1.587290E+07	1.516362E+07	1.492719E+07	1.486415E+07
1.484944E+07	1.484418E+07	1.483853E+07	1.483288E+07	1.483161E+07
1.483136E+07	1.483111E+07	1.482985E+07	1.482420E+07	1.481539E+07
1.480068E+07	1.473816E+07	1.467564E+07	1.465672E+07	1.461858E+07
1.458359E+07	1.457728E+07	1.456993E+07	1.451108E+07	1.445749E+07
1.445224E+07	1.443753E+07	1.437448E+07	1.413806E+07	1.342878E+07
1.132721E+07				
1.683574E+07	1.473417E+07	1.402489E+07	1.378846E+07	1.372542E+07
1.371071E+07	1.370545E+07	1.369980E+07	1.369415E+07	1.369289E+07
1.369263E+07	1.369238E+07	1.369112E+07	1.368547E+07	1.367666E+07
1.366195E+07	1.359943E+07	1.353691E+07	1.351799E+07	1.347985E+07
1.344486E+07	1.343855E+07	1.343120E+07	1.337235E+07	1.331876E+07
1.331351E+07	1.329880E+07	1.323575E+07	1.299933E+07	1.229005E+07
1.018848E+07				
1.646852E+07	1.436695E+07	1.365768E+07	1.342125E+07	1.335820E+07
1.334349E+07	1.333824E+07	1.333258E+07	1.332693E+07	1.332567E+07
1.332542E+07	1.332516E+07	1.332390E+07	1.331825E+07	1.330945E+07
1.329473E+07	1.323221E+07	1.316969E+07	1.315078E+07	1.311263E+07
1.307764E+07	1.307134E+07	1.306398E+07	1.300514E+07	1.295155E+07
1.294629E+07	1.293158E+07	1.286854E+07	1.263211E+07	1.192283E+07
9.821265E+06				
1.639718E+07	1.429562E+07	1.358634E+07	1.334991E+07	1.328687E+07
1.327215E+07	1.326690E+07	1.326125E+07	1.325559E+07	1.325433E+07
1.325408E+07	1.325383E+07	1.325257E+07	1.324691E+07	1.323811E+07
1.322340E+07	1.316088E+07	1.309835E+07	1.307944E+07	1.304130E+07
1.300631E+07	1.013250E+05	1.299265E+07	1.293380E+07	1.288021E+07
1.287496E+07	1.286025E+07	1.279720E+07	1.256077E+07	1.185150E+07
9.749928E+06				
1.638376E+07	1.428219E+07	1.357291E+07	1.333649E+07	1.327344E+07
1.325873E+07	1.325348E+07	1.324782E+07	1.324217E+07	1.324091E+07
1.324066E+07	1.324040E+07	1.323914E+07	1.323349E+07	1.322468E+07
1.320997E+07	1.314745E+07	1.308493E+07	1.306602E+07	1.302787E+07
1.299288E+07	1.013250E+05	1.297922E+07	1.292038E+07	1.286679E+07
1.286153E+07	1.284682E+07	1.278378E+07	1.254735E+07	1.183807E+07
9.736503E+06				
1.636750E+07	1.426594E+07	1.355666E+07	1.332023E+07	1.325718E+07
1.324247E+07	1.323722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.285053E+07
1.284528E+07	1.283056E+07	1.276752E+07	1.253109E+07	1.182181E+07
9.720245E+06				
1.635160E+07	1.425003E+07	1.354075E+07	1.330433E+07	1.324128E+07
1.322657E+07	1.322132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.283463E+07
1.282937E+07	1.281466E+07	1.275161E+07	1.251519E+07	1.180591E+07
9.704342E+06				
1.633570E+07	1.423413E+07	1.352485E+07	1.328843E+07	1.322538E+07
1.321067E+07	1.320541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.281872E+07
1.281347E+07	1.279876E+07	1.273571E+07	1.249929E+07	1.179001E+07
9.688441E+06				
1.631199E+07	1.421042E+07	1.350114E+07	1.326472E+07	1.320167E+07
1.318696E+07	1.318170E+07	1.317605E+07	1.317040E+07	1.316914E+07
1.316888E+07	1.316863E+07	1.316737E+07	1.316172E+07	1.315291E+07
1.313820E+07	1.307568E+07	1.301316E+07	1.299424E+07	1.295610E+07
1.292111E+07	1.013250E+05	1.290745E+07	1.284860E+07	1.279502E+07
1.278976E+07	1.277505E+07	1.271200E+07	1.247558E+07	1.176630E+07
9.664732E+06				

1.629460E+07	1.419304E+07	1.348376E+07	1.324733E+07	1.318429E+07
1.316957E+07	1.316432E+07	1.315867E+07	1.315301E+07	1.315175E+07
1.315150E+07	1.315125E+07	1.314999E+07	1.314433E+07	1.313553E+07
1.312082E+07	1.305830E+07	1.299577E+07	1.297686E+07	1.293872E+07
1.290373E+07	1.013250E+05	1.289007E+07	1.283122E+07	1.277763E+07
1.277238E+07	1.275767E+07	1.269462E+07	1.245819E+07	1.174891E+07
9.647348E+06				
1.623844E+07	1.413687E+07	1.342759E+07	1.319117E+07	1.312812E+07
1.311341E+07	1.310815E+07	1.310250E+07	1.309685E+07	1.309559E+07
1.309533E+07	1.309508E+07	1.309382E+07	1.308817E+07	1.307936E+07
1.306465E+07	1.300213E+07	1.293961E+07	1.292069E+07	1.288255E+07
1.284756E+07	1.013250E+05	1.283390E+07	1.277506E+07	1.272147E+07
1.271621E+07	1.270150E+07	1.263845E+07	1.240203E+07	1.169275E+07
9.591182E+06				
1.618281E+07	1.408125E+07	1.337197E+07	1.313554E+07	1.307250E+07
1.305778E+07	1.305253E+07	1.304688E+07	1.304122E+07	1.303996E+07
1.303971E+07	1.303946E+07	1.303820E+07	1.303254E+07	1.302374E+07
1.300903E+07	1.294651E+07	1.288398E+07	1.286507E+07	1.282693E+07
1.279194E+07	1.013250E+05	1.277828E+07	1.271943E+07	1.266584E+07
1.266059E+07	1.264588E+07	1.258283E+07	1.234640E+07	1.163712E+07
9.535558E+06				
1.581463E+07	1.371307E+07	1.300379E+07	1.276736E+07	1.270432E+07
1.268961E+07	1.268435E+07	1.267870E+07	1.267304E+07	1.267178E+07
1.267153E+07	1.267128E+07	1.267002E+07	1.266437E+07	1.265556E+07
1.264085E+07	1.257833E+07	1.251580E+07	1.249689E+07	1.245875E+07
1.242376E+07	1.013250E+05	1.241010E+07	1.235125E+07	1.229766E+07
1.229241E+07	1.227770E+07	1.221465E+07	1.197822E+07	1.126895E+07
9.167379E+06				
1.449320E+07	1.239163E+07	1.168235E+07	1.144593E+07	1.138288E+07
1.136817E+07	1.136292E+07	1.135726E+07	1.135161E+07	1.135035E+07
1.135010E+07	1.134984E+07	1.134858E+07	1.134293E+07	1.133412E+07
1.131941E+07	1.125689E+07	1.119437E+07	1.117546E+07	1.113731E+07
1.110232E+07	1.013250E+05	1.108866E+07	1.102982E+07	1.097623E+07
1.097097E+07	1.095626E+07	1.089322E+07	1.065679E+07	9.947510E+06
7.845944E+06				
1.258452E+07	1.048295E+07	9.773674E+06	9.537248E+06	9.474200E+06
9.459489E+06	9.454235E+06	9.448582E+06	9.442928E+06	9.441667E+06
9.441415E+06	9.441163E+06	9.439902E+06	9.434249E+06	9.425443E+06
9.410732E+06	9.348211E+06	9.285689E+06	9.266775E+06	9.228632E+06
9.193641E+06	1.013250E+05	9.179980E+06	9.121136E+06	9.067546E+06
9.062292E+06	9.047582E+06	8.984535E+06	8.748108E+06	8.038830E+06
5.937264E+06				
1.159960E+07	9.498031E+06	8.788752E+06	8.552326E+06	8.489279E+06
8.474568E+06	8.469314E+06	8.463660E+06	8.458007E+06	8.456746E+06
8.456494E+06	8.456242E+06	8.454981E+06	8.449328E+06	8.440522E+06
8.425811E+06	8.363289E+06	8.300768E+06	8.281853E+06	8.243710E+06
8.208719E+06	1.013250E+05	8.195059E+06	8.136215E+06	8.082625E+06
8.077371E+06	8.062660E+06	7.999613E+06	7.763187E+06	7.053909E+06
4.952342E+06				
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	1.013250E+05	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06				
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	1.013250E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05				
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.013250E+05	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06				
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	1.013250E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05

1 1 1 1 1 1 1 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38 1 1
1 1 1 1 1
6 25 6 6 6 6
6 6 6 6 6
1 31 1 1 1 1
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1 27 1 1 1 1
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16 33 16 16 16 16
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17 33 17 17 17 17
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18 29 18 18 18 18
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21 29 21 21 21 21
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21 29 21 21 21 21
21 21 21 21 21
22 29 22 22 22 22
22 22 22 22 22
22 29 22 22 22 22
22 22 22 22 22
START TIME FOR MAP 3
3.1557E+09
MATERIAL TYPE GRID MAP
11 11 12
12 12 12 11 11
11
11 11 11 11 11
1
1 1 1 1 1
1
1 1 1 1 1
1
4 4 4 4 4 4 4 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15 4 4
4 4 4 4 4
1 1 1 1 1 1 1 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15 1 1
1 1 1 1 1
1 1 1 1 1 1 1 13 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24 1 1
1 1 1 1 1
1 1 1 1 1 1 1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24 1 1
1 1 1 1 1
1 1 1 1 1 1 1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24 1 1
1 1 1 1 1
1 1 1 1 1 1 1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15 1 1
1 1 1 1 1
5 5 5 5 5 5 5 5 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15 5 5
5 5 5 5 5
1 1 1 1 1 1 1 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38 1 1
1 1 1 1 1
6 26 6 6 6 6
6 6 6 6 6
1 32 1 1 1 1
1 1 1 1 1
1 28 1 1 1 1
1 1 1 1 1
1 28 1 1 1 1
1 1 1 1 1
1 34 1 1 1 1
1 1 1 1 1
16 34 16 16 16 16
16 16 16 16 16
17 34 17 17 17 17
17 17 17 17 17
18 30 18 18 18 18
18 18 18 18 18
19 30 19 19 19 19


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8 CAVITY_2
9 CAVITY_3
10 CAVITY_4
11 IMPERM_Z
12 CASTILER
13 WAS_AREA
14 REPOSIT
15 DRZ_1
16 UNNAMED
17 CULEBRA
18 TAMARISK
19 MAGENTA
20 FORTYNIN
21 DEWYLAKE
22 SANTAROS
23 BACKFILL
24 EXP_AREA
25 SHFT_B_1
26 SHFT_B_2
27 SHFT_L_1
28 SHFT_L_2
29 SHFT_U_1
30 SHFT_U_2
31 SHFT_LS1
32 SHFT_LS2
33 SHFT_US1
34 SHFT_US2
35 PAN_S_1
36 PAN_S_2
37 BOREHOLE
38 TRANS_1
39 CAVITY_5
NWST
2
MAT_WASTE1 MAT_WASTE
7 8
13 13
NDRZ
0
NMATRESET
5
MATRESET
7 8 9 10 39
BORE HOLE MATERIAL NUMBER
0
RESET TIME, ICWASTE
0.0000E+00 1
POWASTEIC
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
1.013250E+05
SOWASTEIC
0.000000E+00
0.000000E+00
0.000000E+00
0.250000E+00
0.200000E+00
PRESDRZ
NBORERESET
0
# LAMBDA SOR SGR
1 2.832000E-01 3.819000E-01 2.395000E-01
2 2.832000E-01 0.000000E+00 0.000000E+00
3 2.832000E-01 0.000000E+00 0.000000E+00
4 7.425000E+00 5.074000E-02 8.257000E-02
5 7.425000E+00 5.074000E-02 8.257000E-02
6 7.425000E+00 5.074000E-02 8.257000E-02
7 7.000000E-01 0.000000E+00 0.000000E+00
8 7.000000E-01 0.000000E+00 0.000000E+00
9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
```


13	3.681000E-01	2.927000E-01	1.087000E-01						
14	3.681000E-01	2.927000E-01	1.087000E-01						
15	2.832000E-01	0.000000E+00	0.000000E+00						
16	7.000000E-01	2.000000E-01	2.000000E-01						
17	7.000000E-01	2.000000E-01	2.000000E-01						
18	7.000000E-01	2.000000E-01	2.000000E-01						
19	7.000000E-01	2.000000E-01	2.000000E-01						
20	7.000000E-01	2.000000E-01	2.000000E-01						
21	7.000000E-01	2.000000E-01	2.000000E-01						
22	7.000000E-01	2.000000E-01	2.000000E-01						
23	7.000000E-01	0.000000E+00	0.000000E+00						
24	7.000000E-01	0.000000E+00	0.000000E+00						
25	7.000000E-01	2.000000E-01	2.000000E-01						
26	7.000000E-01	2.000000E-01	2.000000E-01						
27	7.000000E-01	2.000000E-01	2.000000E-01						
28	7.000000E-01	2.000000E-01	2.000000E-01						
29	7.000000E-01	2.000000E-01	2.000000E-01						
30	7.000000E-01	2.000000E-01	2.000000E-01						
31	7.000000E-01	2.000000E-01	2.000000E-01						
32	7.000000E-01	2.000000E-01	2.000000E-01						
33	7.000000E-01	2.000000E-01	2.000000E-01						
34	7.000000E-01	2.000000E-01	2.000000E-01						
35	7.000000E-01	2.000000E-01	2.000000E-01						
36	7.000000E-01	2.000000E-01	2.000000E-01						
37	7.000000E-01	2.000000E-01	0.000000E+00						
38	2.832000E-01	0.000000E+00	0.000000E+00						
39	7.000000E-01	0.000000E+00	0.000000E+00						
#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP	
1	4.009950E-01	1.013250E+05	1.000000E+08	5.918000E+06	0.000000E+00	4	2	0	
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
4	5.327700E-02	1.013250E+05	1.000000E+08	2.360479E-03	-3.460000E-01	4	2	0	
5	5.327700E-02	1.013250E+05	1.000000E+08	2.360479E-03	-3.460000E-01	4	2	0	
6	5.327700E-02	1.013250E+05	1.000000E+08	2.360479E-03	-3.460000E-01	4	2	0	
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
13	3.073350E-01	1.013250E+05	1.000000E+08	5.818192E-01	-3.460000E-01	1	4	0	
14	3.073350E-01	1.013250E+05	1.000000E+08	5.818192E-01	-3.460000E-01	1	4	0	
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0	
32	2.100000E-01	1.013250E+05	1.000000E+08	1.539033E+06	0.000000E+00	4	2	0	
33	2.100000E-01	1.013250E+05	1.000000E+08	1.539033E+06	0.000000E+00	4	2	0	
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0	
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0	
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0	
#	PERMX	PERMY	PERMZ	POROSITY	COMPRES				
1	1.318259E-24	1.318259E-24	1.318259E-24	2.256000E-02	8.339604E-09				
2	1.000000E-15	1.000000E-15	1.000000E-15	2.256000E-02	3.656062E-08				
3	1.000000E-15	1.000000E-15	1.000000E-15	2.256000E-02	3.656062E-08				
4	2.041735E-18	2.041735E-18	2.041735E-18	3.968000E-02	1.280173E-09				
5	2.041735E-18	2.041735E-18	2.041735E-18	3.968000E-02	1.280173E-09				
6	2.041735E-18	2.041735E-18	2.041735E-18	3.968000E-02	1.280173E-09				
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00				
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00				

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9 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00 5.000000E-03 0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11 5.200000E-03 1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12 8.810400E-01 1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12 8.810400E-01 1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15 2.256000E-02 3.656062E-08
16 0.000000E+00 0.000000E+00 0.000000E+00 2.000000E-01 0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13 1.460000E-01 1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00 2.000000E-01 0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16 9.000000E-02 2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00 2.000000E-01 0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16 1.500000E-01 6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10 1.750000E-01 5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12 2.500000E-01 4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
32 2.454706E-19 2.454706E-19 2.454706E-19 5.000000E-02 2.000000E-08
33 2.454706E-19 2.454706E-19 2.454706E-19 5.000000E-02 2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12 5.000000E-02 2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12 7.500000E-02 1.333333E-08
37 1.659588E-13 1.659588E-13 1.659588E-13 3.700000E-01 0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15 2.256000E-02 3.656062E-08
39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
T
NFRAC
3
# DELTA_PI DELTA_PF FRAC_PHI FRAC_EXP IFRX IFRY IFRZ
4 1.390000E+06 2.500000E+06 4.968000E-02 8.973829E+01 1 1 0
5 1.390000E+06 2.500000E+06 4.968000E-02 8.973829E+01 1 1 0
6 1.390000E+06 2.500000E+06 4.968000E-02 8.973829E+01 1 1 0
KLINKENBERG EFFECT TO BE USED? True or False
T
BKLINK EXPKLINK
9.80000E-01 -3.30000E-01
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01320E+05
SALT(WT.%) DEN_BR KGSAT IDGAS COMPR_BR WMSALT WMH2O
2.9600E+01 1.2300E+03 1 0 2.5000E-10 58.442468D-03 18.01528D-03
VISC_BR VISC_GAS
1.80000E-03 8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03 44.0098D-03 16.04276D-03 28.01348D-03 34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONET NUMBER (N1GAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00 304.15D+00 190.63D+00 126.15D+00 373.55D+00 154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05 73.76D+05 46.17D+05 33.94D+05 90.07D+05 50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00 0.231D+00 0.010D+00 0.045D+00 0.100D+00 0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00 20.47D+05 2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00 0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00 -0.3426D+00 -0.0222D+00 +0.0978D+00 0.0000D+00 +0.0000D+00
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BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00 +0.0000D+00 +0.0933D+00 -0.0315D+00 +0.0989D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00 +0.0933D+00 +0.0000D+00 +0.0278D+00 +0.0850D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00 -0.0315D+00 +0.0278D+00 +0.0000D+00 +0.1696D+00 -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00 +0.0989D+00 +0.0850D+00 +0.1696D+00 +0.0000D+00 +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00 +0.0000D+00 +0.0000D+00 -0.0078D+00 +0.0000D+00 +0.0000D+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO), INTRINSIC
1.9045188518798551E-10 2.7932414729320935E-09 T
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1.000E-03 2.0000E-01
RATE CONSTANTS: BRUCITEI AND BRUCITEH
0.0000E+00 0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
1.1100E+00 0.0000E+00
1.1100E+00 0.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
1.3081E+00 -1.3838E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING, CONC SMOOTHING, ALPHARXN
0.0000E+00 T F 1.0000E+03
CREEP CLOSURE?
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
1 1 2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4 1.4800E+07 3.1557E+12 1 F
MODPERM PARAMETERS
5.5847E-12 0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
# MAT NO. MODEL 1=WASTE-FILLED, 2=BACKFILLED, 4=WASTE (1996)
1 13 4
2 14 4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

A.13.3 Test Case 13: Output Difference File, BF2_QB0600_ES47_TEST13_OUT.DIF

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

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
2 ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
3 ** Begun on: 02/13/07 at 14:12:33 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
```

```
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
2 ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
3 ** Begun on: 05/18/06 at 10:11:45 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
61 PAA:[ANALYSIS.VMS82.BF.V500.ES47.TEST13]BF2_TEST13_QA0500.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
66 PAA:[ANALYSIS.VMS82.BF.V500.ES47.TEST13]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
71 PAA:[ANALYSIS.VMS82.BF.V500.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
76 PAA:[ANALYSIS.VMS82.BF.V500.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
81 PAA:[ANALYSIS.VMS82.BF.V500.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
86 PAA:[ANALYSIS.VMS82.BF.V500.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
198 43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
199 44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
200 45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
201 46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
202 47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
203 48 1 1 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
204 49 1 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
205 50 1 1 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
206 51 1 1 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
207 52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
208 53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
209 54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
```

210 55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
211 56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
212 57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
213 58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
214 59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
215 60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
216 61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
217 62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
218 63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
219 64 0 0 CONCST Salt concentration -- simple model kg/m^3
220 65 0 0 PORSOLID Volume fraction of generated solids dimensionless
221 66 0 0 GENRAT(1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
222 67 0 0 GENRAT(2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
223 68 0 0 GENRAT(3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
224 69 0 0 GENRAT(4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
225 70 0 0 GENRAT(5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
226 71 0 0 GENRAT(6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
227 72 0 0 GENRAT(7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
228 73 0 0 GENRAT(8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
229 74 0 0 GENRAT(9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
230 75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
231 76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
232 77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
233 78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
234 79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
235 80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
236 81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
237 82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
238 83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
239 84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
240 85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
241 86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
242 87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
243 88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
244 89 0 0 CONCRXN(1,I,J,K) H2 concentration -- reaction path model kg/m^3
245 90 0 0 CONCRXN(2,I,J,K) CO2 concentration -- reaction path model kg/m^3
246 91 0 0 CONCRXN(3,I,J,K) CH4 concentration -- reaction path model kg/m^3
247 92 0 0 CONCRXN(4,I,J,K) N2 concentration -- reaction path model kg/m^3
248 93 0 0 CONCRXN(5,I,J,K) H2S concentration -- reaction path model kg/m^3
249 94 0 0 CONCRXN(6,I,J,K) O2 concentration -- reaction path model kg/m^3
250 95 0 0 CONCRXN(7,I,J,K) H2O concentration -- reaction path model kg/m^3
251 96 0 0 CONCRXN(8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
252 97 0 0 CONCRXN(9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
253 98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
254 99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
255 100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
256 101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
257 102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
258 103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
259 104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
260 105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
261 106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
262 107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
263 108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
264 109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
265 110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
266 111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
267 112 0 0 H2FLOWIN Water inflow rate kg/s
268 113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
269 114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
270 115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
271 116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
272 117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
273 118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
274 119 0 0 B_MASS(1,1) Mass of isotope 1 from Waste Region 1 kg
275 120 0 0 B_MASS(1,2) Mass of isotope 1 from Waste Region 2 kg
276 121 0 0 B_CONC(1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
277 122 0 0 B_CONC(1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
278 123 0 0 S_MASS(1,1) Solid mass of isotope 1 from Waste Region 1 kg
279 124 0 0 S_MASS(1,2) Solid mass of isotope 1 from Waste Region 2 kg

281


```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
198 43 1 1 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
199 44 1 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
200 45 1 1 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
201 46 1 1 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
202 47 1 1 CONCFE Fe concentration -- simple model kg/m^3
203 48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
204 49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
205 50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
206 51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
207 52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
208 53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
209 54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
210 55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
211 56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
212 57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
213 58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
214 59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
215 60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
216 61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
217 62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
218 63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
219 64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
220 65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
221 66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
222 67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
223 68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
224 69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
225 70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
226 71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
227 72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
228 73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
229 74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
230 75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
231 76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
232 77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
233 78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
234 79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
235 80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
236 81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
237 82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
238 83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
239 84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
240 85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
241 86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
242 87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
243 88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
244 89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
245 90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
246 91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
247 92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
248 93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
249 94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
250 95 0 0 H2OFLOWIN Water inflow rate kg/s
251 96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
252 97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
253 98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
254 99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
255 100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
256 101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
257 102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
258 103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
259 104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
260 105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
261 106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
262 107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
264
```


File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1

Information Only


```
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.ROT;1
87 *****
*****
```

Number of difference sections found: 7
Number of difference records found: 7

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
```

BF2_QB0600_ES45_TEST13_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.OUT;1
3 ** Begun on: 02/14/07 at 09:15:58 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
3 ** Begun on: 02/13/07 at 14:12:33 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
4 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_TEST13.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_CLOSURE.DAT;1
67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.OUT;1
```



```
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.SUM;1
77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.BIN;1
82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.ROT;1
87 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
86 PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.ROT;1
87 *****
*****
```

Number of difference sections found: 7
Number of difference records found: 7

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
```

A.14 Test Case 14 Files

A.14.1 Test Case 14: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST14_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST14.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES40_TEST14.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES40_TEST14.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES40_TEST14.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES40_TEST14.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES40_TEST14.ROT  
$ set noverify  
  
image name: "BRAGFLO_QB0600"  
image file identification: "P QB0600 6.0"  
image file build identification: ""  
link date/time: 12-FEB-2007 14:57:24.36  
linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST14_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST14.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES45_TEST14.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES45_TEST14.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES45_TEST14.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES45_TEST14.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES45_TEST14.ROT  
$ set noverify  
  
image name: "BRAGFLO_QB0600"  
image file identification: "P QB0600 6.0"  
image file build identification: ""  
link date/time: 12-FEB-2007 14:57:24.36  
linker identification: "A13-03"  
  
$ show symbol bragflo_exe  
BRAGFLO_EXE == "$WP$PRODR00T:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST14_RUN.LOG

```
COMMAND_STATUS = "%X109C8299"  
$ DEFINE bf2_uif$input      working_dir:BF2_QB0600_TEST14.INP  
$ DEFINE bf2_uif$inputcs    working_dir:BF2_CLOSURE.DAT  
$ DEFINE bf2_dbg$output     working_dir:BF2_QB0600_ES47_TEST14.OUT  
$ DEFINE bf2_dbg$summary    working_dir:BF2_QB0600_ES47_TEST14.SUM  
$ DEFINE bf2_bin$output     working_dir:BF2_QB0600_ES47_TEST14.BIN  
$ DEFINE bf2_in$restart     working_dir:BF2_QB0600_ES47_TEST14.RIN  
$ DEFINE bf2_out$restart    working_dir:BF2_QB0600_ES47_TEST14.ROT  
$ set noverify
```

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

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

A.14.2 Test Case 14: Input File, BF2_QB0600_TEST14.INP

```
BF2_TEST14_QA0600.INP: 1-D CHEMISTRY TESTCASE
SPECIFY FILES: ASCII OUT, BIN OUT, ASCII SUM, RESTART OUT, RESTART IN
T T T F F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
1 20 1 1
TSTART, TMAX, MAXSTEPS
-1.5778E+08 3.1557E+11 10000
DT_INIT, DT_MIN, DT_MAX, DT_INCR, IAUTODT, TSWITCH
8.6400E+00 8.6400E-04 1.7280E+08 1.2500E+00 1 1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
1
0.0000E+00 8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
2 0 0 'SI' 'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
16
USER REQUESTED PRINTOUT TIMES
0.0000E+00 3.1557E+07 3.1557E+08 3.1557E+09 3.1557E+10 3.9447E+10
4.7336E+10 5.5226E+10 6.3116E+10 9.4673E+10 2.5246E+11 2.6035E+11
2.6824E+11 2.7613E+11 2.8402E+11 3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
1
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
3000
ASCII PRINT FLAGS
1 1 0 0 0 1 1 1 0 0 1 1 1 0 0 0 1 1 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
BINARY PRINT FLAGS
1 1 0 0 0 1 1 1 0 0 1 1 1 0 0 0 1 1 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
NUMBER OF HISTORY VARIABLES;
0
MONITOR PARAMETER VALUES AT GRIDBLOCKS
T
NUMBER OF MONITOR BLOCKS
3
MONITOR BLOCK (I,J,K)
2 1 1
6 1 1
14 1 1
GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
0 0 0 0
GRID DATA CARDS: GRID BLOCK DX'S
1.0
GRID DATA CARDS: GRID BLOCK DY'S
1.0
GRID DATA CARDS: GRID BLOCK DZ'S
1.0
DEPTH
0.0
WELL DATA
1
0.0E+00 2
5 1 1 1
INJQ
0.0 1.E-16 1.0 5.E5
15 1 1 1
```

```
PROD
0.0 0.0 1.E-6 5.E5
DIRICHLET CONDITIONS
F 0
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
20*5.0E+05
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
1*0.999999999 1*0.0D0 1*0.012D0 2*0.999999999 1*0.015D0 3*0.999999999 1*0.015D0 3*0.999999999
1*0.015D0 6*0.999999999
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
1*0.0 1*1.E+2 11*0.0 1*1.1E+2 6*0.0
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
1*0.0 1*5.E+1 7*0.0 1*4.5E+1 3*0.0 1*5.5E+1 6*0.0
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
1*0.0 1*1.E+2 3*0.0 1*1.1E+2 3*0.0 1*0.9E+2 10*0.0
DSATLIM, DPRESLIM, SATLIMIT
2.0000E-01 -1.0000E+08 1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
6.0000E-01 1.0000E+06
DDEPMAX(1) DDEPMAX(2)
1.000 1.0E7
CONVERGENCE TEST FLAG: 0=OR, 1=AND
1
EPS_SAT, EPS_PRES: NORMAL CONVERGENCE CRITERIA
3.0000E+00 1.0000E-02
EPS_SAT, EPS_PRES: LOOSE CONVERGENCE CRITERIA
3.0000E+00 1.0000E-02
FTOL SAT FTOL PRESS: NORMAL CONVERGENCE CRITERIA
1.0000E-02 1.0000E-2
FTOL SAT FTOL PRESS: LOOSE CONVERGENCE CRITERIA
1.0000E-02 1.0000E-2
EPGAS1 EPGAS2 EPGAS3 EPGAS4: GAS MODEL CONVERGENCE CRITERIA
1.0E-05 1.0E-05 1.0E-05 1.0E-05
LINEAR EQUATION SOLVER TYPE
LU
ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWTCH
8 40 1 F 1.0000E+07 F
IUPRPFLAG, IUPMPFLAG, DT_REDU, ITRAVE, IMFAVE
9 9 5.0000E-01 1 0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
41 1 5 9 9
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
1.0000E-08 1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
1.0000E-10 1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
4
START TIME FOR MAP 1
-1.5578E+08
MATERIAL TYPE GRID MAP
1*9 1*5 1*6 1*9 1*1 1*4 3*1 1*4 3*1 1*4 1*1 1*9
1*1 2*2 1*1
START TIME FOR MAP 2
0.0000E+00
MATERIAL TYPE GRID MAP
1*9 1*8 1*6 1*9 1*1 1*7 3*1 1*7 3*1 1*7 1*1 1*9
1*1 2*2 1*1
START TIME FOR MAP 3
9.4673E+10
MATERIAL TYPE GRID MAP
1*9 1*8 1*6 1*9 1*1 1*7 3*1 1*7 3*1 1*7 1*1 1*9
1*1 2*3 1*1
START TIME FOR MAP 4
2.5246E+11
MATERIAL TYPE GRID MAP
1*9 1*8 1*6 1*9 1*1 1*7 3*1 1*7 3*1 1*7 1*1 1*9
1*1 2*3 1*1
# NAME
1 ROCK
2 ROCK2
3 ROCK3
4 CAVITY1
5 CAVITY2
6 CAVITY3
7 WASTE1
8 WASTE2
```

```

9      IMPERM
NWST
2
MAT_WASTE1  MAT_WASTE
4 5
7 8
NDRZ
0
NMATRESET
2
MATRESET
4 5
BORE HOLE MATERIAL NUMBER
0
RESET TIME,  ICRESET
0.0000E+00  1
PORESETIC
5.0+05
5.0+05
SORESETIC
0.0
0.0
PRESDRZ
0.0
NBORERESET
3
NBORETIME,  NMATBORE,  MATBORE(NMATBORE)
3 1 3
3 1 7
4 1 8
PORESET
6.0E+05
-1.0E+05
-1.0E+05
SORESET
0.5E+00
-1.0E+00
-1.0E+00
ICHEM
0
0
1
#  LAMBDA      SOR      SGR
1 7.00E-01      0.0      0.0
2 7.00E-01      0.0      0.0
3 7.00E-01      0.0      0.0
4 7.00E-01      0.0      0.0
5 7.00E-01      0.0      0.0
6 7.00E-01      0.0      0.0
7 2.89E+00      0.0      0.0
8 2.89E+00      0.0      0.0
9 7.00E-01      0.0      0.0
#  SBMIN  POMIN      PCMAX      PCTA      PCTEXP      KRP  KPC  KPT
1 0.0  1.01325E5  1.0000E8  0.0  0.0E+00  4  1  0
2 0.0  1.01325E5  1.0000E8  0.0  0.0E+00  4  1  0
3 0.0  1.01325E5  1.0000E8  0.0  0.0E+00  4  1  0
4 0.0  1.01325E5  1.0000E8  0.0  0.0E+00  11 1  0
5 0.0  1.01325E5  1.0000E8  0.0  0.0E+00  11 1  0
6 0.0  1.01325E5  1.0000E8  0.0  0.0E+00  11 1  0
7 0.0  1.01325E5  1.0000E8  0.26  -3.48E-01  12 1  2
8 0.0  1.01325E5  1.0000E8  0.26  -3.48E-01  12 1  2
9 0.0  1.01325E5  1.0000E8  0.0  0.0E+00  4  1  0
#  PERMX      PERMY      PERMZ      POROSITY      COMPRES
1 1.000E-11  1.000E-11  1.000E-11  1.0000E-01  0.0E+00
2 1.000E-11  1.000E-11  1.000E-11  1.0000E-01  0.0E+00
3 1.000E-15  1.000E-17  1.000E-19  1.0000E-01  0.0E+00
4 1.000E-11  1.000E-11  1.000E-11  1.0000E+00  0.0E+00
5 1.000E-11  1.000E-11  1.000E-11  1.0000E+00  0.0E+00
6 1.000E-11  1.000E-11  1.000E-11  1.0000E-01  0.0E+00
7 1.000E-11  1.000E-12  1.000E-13  8.4800E-01  0.0E+00
8 1.000E-11  1.000E-12  1.000E-13  8.4800E-01  0.0E+00
9 1.000E-35  1.000E-35  1.000E-35  1.0000E-03  0.0E+00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02  1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
2

```

MATSP, MATSPF, TEND, TCHANGE
2 3 6.3114E+10 3.1557E+10
3 2 2.8402E+11 3.1557E+10
NSMPRMC, SMPRMC
8 0.0000E+00 0.0000E+00 1.1000E+01 -5.0000E+01 1.2000E+02 -1.6000E+02 1.1200E+02 -
3.2000E+01
2 0.0000E+00 1.0000E+00
FRACTURE MODEL FLAG
F
KLINKENBURG EFFECT
F
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT (R)
9.80665E+00 8.31451E+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
3.00150E+02 1.01325E+05
SALT(WT.%) DEN_BR KGSAT IDGAS, COMPR_BR, WMSALT, WMH2O
3.2400E+01 1.2200E+03 1 0 3.1000E-10 5.8442E-02 1.8015E-02
VISC_BR VISC_GAS
2.10000E-03 8.93389E-06
GAS DENSITY DATA: =0 OR -2 COMPUTE USING RKS OR IDEAL GAS; =1 OR -1 INTERPOLATE USING RKS OR
IDEAL GAS
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
GAS MOLECULAR WEIGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588E-03 4.40098E-02 1.60428E-02 2.80135E-02 3.40819E-02 3.19988E-02
NUMBER OF GAS COMPONENTS ACTUALLY USED (NGAS) AND COMPONENT NUMBER OF GAS (NLGAS)
1 1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
4.36000E+01 3.04150E+02 1.90630E+02 1.26150E+02 3.73550E+02 1.54770E+02
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
2.04700E+06 7.37600E+06 4.61700E+06 3.39400E+06 9.00700E+06 5.08000E+06
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00000E+00 2.31000E-01 1.00000E-02 4.50000E-02 1.00000E-01 1.90000E-02
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, AND WMH2
4.36000E+01 2.04700E+06 2.01588E-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
4.27470E-01 8.66400E-02
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETER FOR H2
0.00000E+00 -3.42600E-01 -2.22000E-02 9.78000E-02 0.00000E+00 0.00000E+00
BINARY INTERACTION PARAMETER FOR CO2
-3.42600E-01 0.00000E+00 9.33000E-02 -3.15000E-02 9.89000E-02 0.00000E+00
BINARY INTERACTION PARAMETER FOR CH4
-2.22000E-02 9.33000E-02 0.00000E+00 2.78000E-02 8.50000E-02 0.00000E+00
BINARY INTERACTION PARAMETER FOR N2
9.78000E-02 -3.15000E-02 2.78000E-02 0.00000E+00 1.69600E-01 -7.80000E-03
BINARY INTERACTION PARAMETER FOR H2S
0.00000E+00 9.89000E-02 8.50000E-02 1.69600E-01 0.00000E+00 0.00000E+00
BINARY INTERACTION PARAMETER FOR O2
0.00000E+00 0.00000E+00 0.00000E+00 -7.80000E-03 0.00000E+00 0.00000E+00
IGASVAR (2= REACTION PATH, 1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
3.0000E-10 2.0000E-10 T
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
0.0000E+00 0.0000E+00
RATE CONSTANTS: BRUCITEI AND BRUCITEH
1.0000E-09 0.0000E+00
RATE COEFFICIENTS FOR EACH WASTE AREA: GAS AND CO2
5.0000E-01 1.0000E+00
5.0000E-01 1.0000E+00
CHEMISTRY CUTOFF SATURATION: SOCMIN
1.5000E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
S_H2, S_H2O, S_Fe, S_Bio, S_FeOH2, S_FeS, S_MgO, S_MgOH2, S_MgCO3
1.0E+00 -2.0E+00 -1.0E+00 0.0E+00 1.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 0.0E+00 -1.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 2.0E+00 0.0E+00 0.0E+00 -1.0E+00 1.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 0.0E+00 -1.0E+00 0.0E+00 0.0E+00 1.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
0.0E+00 -1.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 -1.0E+00 1.0E+00 0.0E+00
0.0E+00 1.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 -1.0E+00 1.0E+00
0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 -1.0E+00 0.0E+00 1.0E+00

```
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, Bio)
7.8700E+03  3.4000E+03  4.7000E+03  1.1000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
3.6000E+03  2.3700E+03  3.0500E+03  2.1700E+03
WICKING SATURATION, LARXN, ALPHARXN
1.0000E+00  T  T  1.0000E+03
CREEP CLOSURE? IF TRUE AN EXTERNAL FILE OF CLOSURE DATA IS ALSO EXPECTED
T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
1  1  2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM, INCLUDE SOLID PRODUCTION
4  5.0000E+07  3.1557E+12  2  F
MODPERM PARAMETERS
5.0000E-01  1.0000E-1
NUMBER OF MATERIAL REGIONS FOR CLOSURE
2
# MAT NO.  MODEL 1= WASTE-NOBACKFILL, 2=DRIFT-NOBACKFILL, 3=WASTE-BACKFILL 4=JAN_96:WASTE-
NOBACKFILL
1  7  4
2  8  4
WILL RADIONUCLIDE DECAY BE CALCULATED?
F
WILL TRANSPORT BE ACTIVATED?
F
WILL RADIOLYSIS BE CALCULATED?
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

A.14.3 Test Case 14: Reference Excel file BF2_QB0600_TEST14.XLS

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
Initial Conditions							
4	C _{MgO} (Waste 1)	MGOC(2)	1136/2	1.000E+02	1.000E+02	0.000E+00	BF2_QB0600_TEST14.inp 73/2
5	C _{MgO} (Waste 2)	MGOC(6)	1136/6	1.100E+02	1.100E+02	0.000E+00	BF2_QB0600_TEST14.inp 73/4
6	C _{MgO} (Waste 3)	MGOC(10)	1136/10	9.000E+01	9.000E+01	0.000E+00	BF2_QB0600_TEST14.inp 73/6
7	C _{MgO} (Waste 4)	MGOC(14)	1137/4	0.000E+00	0.000E+00	0.000E+00	BF2_QB0600_TEST14.inp 73/7
Material Change Reset Model							
9	Intrusion Time 1	TIMEBORE(1)	489	9.46730E+10	9.4673E+10	0.000E+00	BF2_QB0600_TEST14.inp 162/1 & 117/1
10	Material 1	MATBORE(1)	490	3	3	0.000E+00	BF2_QB0600_TEST14.inp 162/3
11	Reset Pressure 1	PORESET(1)	491	6.00000E+05	6.0E+05	0.000E+00	BF2_QB0600_TEST14.inp 166/1
12	Reset Saturation 1	SORESET(1)	492	5.00000E-01	5.00E-01	0.000E+00	BF2_QB0600_TEST14.inp 170/1
13	Chemistry Reset Flag 1	ICHEM(1)	493	F	0	NA	BF2_QB0600_TEST14.inp 174/1
14	Intrusion Time 2	TIMEBORE(2)	496	9.46730E+10	9.4673E+10	0.000E+00	BF2_QB0600_TEST14.inp 163/1 & 117/1
15	Material 2	MATBORE(2)	497	7	7	0.000E+00	BF2_QB0600_TEST14.inp 163/3
16	Reset Pressure 2	PORESET(2)	498	Pressure is not reset	-1.00E+05	NA	BF2_QB0600_TEST14.inp 167/1
17	Reset Saturation 2	SORESET(2)	499	Brine Satn is not reset	-1.00E+00	NA	BF2_QB0600_TEST14.inp 171/1
18	Chemistry Reset Flag 2	ICHEM(2)	500	F	0	NA	BF2_QB0600_TEST14.inp 175/1
19	Intrusion Time 3	TIMEBORE(3)	503	2.52460E+11	2.5246E+11	0.000E+00	BF2_QB0600_TEST14.inp 164/1 & 122/1
20	Material 3	MATBORE(3)	504	8	8	0.000E+00	BF2_QB0600_TEST14.inp 164/3
21	Reset Pressure 3	PORESET(3)	505	Pressure is not reset	-1.00E+05	NA	BF2_QB0600_TEST14.inp 168/1
22	Reset Saturation 3	SORESET(3)	506	Brine Satn is not reset	-1.00E+00	NA	BF2_QB0600_TEST14.inp 172/1
23	Chemistry Reset Flag 3	ICHEM(3)	507	T	1	NA	BF2_QB0600_TEST14.inp 176/1

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
Relative Permeability and Capillary Pressure Model							
25	Brine Saturation (Cavity @999 s)	SATBRINE	CDB	9.04027E-04			
26	Brine Pressure (Cavity @999 s)	PRESBRIN	CDB	5.17104E+05			
27	Brine Saturation (Cavity @3.1557E+09 s)	SATBRINE	1883/7	0.00000E+00			
28	Brine Pressure (Cavity @3.1557E+09 s)	PRESBRIN	1843/4	1.42576E+06			
29	Cavity S_{wr}	SBR	542/3	0.00E+00	0.0	0.000E+00	BF2_QB0600_TEST14.inp 183/3
30	Cavity S_{gr}	SGR	542/4	0.00E+00	0.0	0.000E+00	BF2_QB0600_TEST14.inp 183/4
31	TOL	TOL	546	1.0000E-02	1.00000E-02	0.000E+00	BF2_QB0600_TEST14.inp 208/1
32	Cavity k_{rw} @999 s	RELPERMB	CDB	9.04027E-02	9.04027E-02	0.000E+00	$k_{rw} = \begin{cases} 0 & S_w \leq S_{wr} \\ (S_w - S_{wr})/TOL & S_{wr} < S_w \leq S_{wr} + TOL \\ 1 & S_{wr} + TOL < S_w \end{cases}$
33	Cavity k_{rw} @3.1557E+09 s	RELPERMB	1858/4	0.00000E+00	0.00000E+00	0.000E+00	
34	Cavity k_{rg} @999 s	RELPERMG	CDB	1.00000E+00	1.00000E+00	0.000E+00	$k_{rg} = \begin{cases} 0 & 1 - S_w \leq S_{gr} \\ (1 - S_w - S_{gr})/TOL & S_{gr} < 1 - S_w \leq S_{gr} + TOL \\ 1 & S_{gr} + TOL < 1 - S_w \end{cases}$
35	Cavity k_{rg} @3.1557E+09 s	RELPERMG	1863/4	1.00000E+00	1.00000E+00	0.000E+00	
36	Cavity P_c @999 s				0		$P_c=0$
37	Cavity P_c @3.1557E+09 s				0		
38	Cavity P_g @999 s	PRESGAS	CDB	5.17104E+05	5.17104E+05	0.000E+00	$P_g=P_b+P_c$
39	Cavity P_g @3.1557E+09 s	PRESGAS	1848/4	1.42576E+06	1.42576E+06	0.000E+00	

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
40	Brine Saturation (Waste 1 @3.1557E+09 s)	SATBRINE	1883/3	4.86647E-03			
41	Brine Pressure (Waste 1 @3.1557E+09 s)	PRESBRIN	1843/3	1.37260E+06			
42	X-Permeability (Waste 1 @3.1557E+09 s)	PERMBRX	1868/3	5.27757E-13			
43	Waste 1 λ	XLAMDA	544/2	2.89E+00	2.89E+00	0.000E+00	BF2_QB0600_TEST14.inp 185/2
44	Waste 1 S _{wr}	SBR	544/3	0.00E+00	0.0	0.000E+00	BF2_QB0600_TEST14.inp 185/3
45	Waste 1 S _{gr}	SGR	544/4	0.00E+00	0.0	0.000E+00	BF2_QB0600_TEST14.inp 185/4
46	S _{co}	SOCMIN	702	1.500000E-02	1.5000E-02	0.000E+00	BF2_QB0600_TEST14.inp 272/1
47	S _{emin}	SOCEFFMIN	547	1.0000E-03	1.00000E-03	0.000E+00	BF2_QB0600_TEST14.inp 208/2
48	Waste 1 a	PCT_A	544/13	2.60E-01	0.26	0.000E+00	BF2_QB0600_TEST14.inp 195/5
49	Waste 1 η	PCT_EXP	544/14	-3.48E-01	-3.48E-01	0.000E+00	BF2_QB0600_TEST14.inp 195/6
50	S _e				4.86647E-03		$S_e = \frac{S_w - S_{wr}}{1 - S_{wr}}$
51	Waste 1 k _{rw} @3.1557e+09 s	RELPERMB	1858/3	2.89134E-09	2.89133E-09	6.144E-15	$k_{rw} = S_e^{(2+3\lambda)/\lambda}$
52	S _{eg}				4.86647E-03		$S_{eg} = \frac{S_w - S_{wr}}{1 - S_{gr} - S_{wr}}$
53	Waste 1 k _{rg} @3.1557E+09 s	RELPERMG	1863/3	9.90170E-01	9.90170E-01	1.593E-07	$k_{rg} = (1 - S_{eg})^2 (1 - S_{eg}^{(2+\lambda)/\lambda})$
54	S _{me}				1.00000E-03		$S_{me} = \frac{S_w - (S_{co} - S_{emin})}{1 - (S_{co} - S_{emin})}$
55	P _t				4.87042E+03		$P_t = ak^\eta$
56	Waste 1 P _c @3.1557E+09 s				5.31653E+04		$P_c = \frac{P_t}{S_{me}^{1/\lambda}}$
57	Waste 1 P _g @3.1557E+09 s	PRESGAS	1848/3	1.42576E+06	1.42577E+06	-5.340E+00	$P_g = P_b + P_c$

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
Saturation Dependent Chemistry Rates							
59	Brine Saturation (Waste 1 @3.1557E+09 s)	SATBRINE	1883/3	4.86647E-03			
60	Brine Saturation (Waste 2 @3.1557E+09 s)	SATBRINE	1883/7	8.26608E-01			
61	Brine Saturation (Waste 3 @3.1557E+09 s)	SATBRINE	1883/11	9.78357E-01			
62	Brine Saturation (Waste 4 @3.1557E+09 s)	SATBRINE	1884/4	9.92682E-01			
63	Brine Saturation (Waste 1 @9.4673E+10 s)	SATBRINE		1.50339E-02			
64	Grid Volume (Waste 1)	GRIDVOL	951/3	1.00000E+00			
65	Grid Volume (Waste 2)	GRIDVOL	951/7	1.00000E+00			
66	Grid Volume (Waste 3)	GRIDVOL	951/11	1.00000E+00			
67	Grid Volume (Waste 4)	GRIDVOL	952/4	1.00000E+00			
68	Initial Fe Concentration (Waste 1)	FECONC	1116/3	1.00000E+02	1.00000E+02	0.000E+00	BF2_QB0600_TEST14.inp 69/2
69	Initial Fe Concentration (Waste 2)	FECONC	1116/7	0.00000E+00	0.00000E+00	0.000E+00	BF2_QB0600_TEST14.inp 69/3
70	Initial Fe Concentration (Waste 3)	FECONC	1116/11	0.00000E+00	0.00000E+00	0.000E+00	BF2_QB0600_TEST14.inp 69/3

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
71	Initial Fe Concentration (Waste 4)	FCONC	1117/4	1.10000E+02	1.10000E+02	0.000E+00	BF2_QB0600_TEST14.inp 69/4
72	Initial CH ₂ O Concentration (Waste 1)	CELLCONC	1121/3	5.00000E+01	5.00000E+01	0.000E+00	BF2_QB0600_TEST14.inp 71/2
73	Initial CH ₂ O Concentration (Waste 2)	CELLCONC	1121/7	0.00000E+00	0.00000E+00	0.000E+00	BF2_QB0600_TEST14.inp 71/3
74	Initial CH ₂ O Concentration (Waste 3)	CELLCONC	1121/11	4.50000E+01	4.50000E+01	0.000E+00	BF2_QB0600_TEST14.inp 71/4
75	Initial CH ₂ O Concentration (Waste 4)	CELLCONC	1122/4	5.50000E+01	5.50000E+01	0.000E+00	BF2_QB0600_TEST14.inp 71/6
76	Initial MgO Concentration (Waste 1)	MGOC	1136/3	1.00000E+02	1.000E+02	0.000E+00	BF2_QB0600_TEST14.inp 73/2
77	Initial MgO Concentration (Waste 2)	MGOC	1136/7	1.10000E+02	1.100E+02	0.000E+00	BF2_QB0600_TEST14.inp 73/4
78	Initial MgO Concentration (Waste 3)	MGOC	1136/11	9.00000E+01	9.000E+01	0.000E+00	BF2_QB0600_TEST14.inp 73/6
79	Initial MgO Concentration (Waste 4)	MGOC	1137/4	0.00000E+00	0.000E+00	0.000E+00	BF2_QB0600_TEST14.inp 73/7
80	r_{ci}	RK(1)	681	3.000000E-10	3.0000E-10	0.000E+00	BF2_QB0600_TEST14.inp 263/1
81	r_{mi}	RK(2)	682	2.000000E-10	2.0000E-10	0.000E+00	BF2_QB0600_TEST14.inp 263/2
82	r_{ch} / r_{ci}	HF(1)	685	0.000000E+00	0.0000E+00	0.000E+00	BF2_QB0600_TEST14.inp 265/1
83	r_{nh} / r_{mi}	HF(2)	686	0.000000E+00	0.0000E+00	0.000E+00	BF2_QB0600_TEST14.inp 265/2
84	r_{hi}	BRUCITEI	689	1.000000E-09	1.0000E-09	0.000E+00	BF2_QB0600_TEST14.inp 267/1

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
85	r_{hh}	BRUCITEH	690	0.000000E+00	0.0000E+00	0.000E+00	BF2_QB0600_TEST14.inp 267/2
86	S_{co}	SOCMIN	702	1.500000E-02	1.5000E-02	0.000E+00	BF2_QB0600_TEST14.inp 272
87	W	SATWICK	781	1.000000E+00	1.0000E+00	0.000E+00	BF2_QB0600_TEST14.inp 290/1
88	α	ALPHARXN	784	1.000000E+03	1.0000E+03	0.000E+00	BF2_QB0600_TEST14.inp 290/4
89	S_{cw} (Waste 1 @3.1557E+09 s)				0.0000E+00		$S_{cw} = S_w - S_{co} + W \left\{ 1 - \exp \left[-200 \alpha (S_w - S_{co})^2 \right] \right\}$
90	S_{cw} (Waste 2 @3.1557E+09 s)				1.0000E+00		
91	S_{cw} (Waste 3 @3.1557E+09 s)				1.0000E+00		
92	S_{cw} (Waste 4 @3.1557E+09 s)				1.0000E+00		
93	S_{cw} (Waste 1 @9.4673E+10 s)				2.6372E-04		
94	q_{rci} (Waste 1 @3.1557E+09 s)	CORRATI	1893/3	0.000000E+00	0.0000E+00	0.000E+00	$q_{rci} = r_{ci} S_{cw} C_{Fe}^0 V$
95	q_{rci} (Waste 2 @3.1557E+09 s)	CORRATI	1893/7	0.000000E+00	0.0000E+00	0.000E+00	
96	q_{rci} (Waste 3 @3.1557E+09 s)	CORRATI	1893/11	0.000000E+00	0.0000E+00	0.000E+00	
97	q_{rci} (Waste 4 @3.1557E+09 s)	CORRATI	1894/4	3.300000E-08	3.3000E-08	0.000E+00	
98	q_{rci} (Waste 1 @9.4673E+10 s)	CORRATI	4749/3	7.91196E-12	7.9115E-12	4.923E-16	

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
99	q_{mi} (Waste 1 @3.1557E+09 s)	BIORATI	1903/3	0.00000E+00	0.0000E+00	0.000E+00	$q_{mi} = r_{mi} S_{cw} C_{CH2O}^0 V$
100	q_{mi} (Waste 2 @3.1557E+09 s)	BIORATI	1903/7	0.00000E+00	0.0000E+00	0.000E+00	
101	q_{mi} (Waste 3 @3.1557E+09 s)	BIORATI	1903/11	9.00000E-09	9.0000E-09	0.000E+00	
102	q_{mi} (Waste 4 @3.1557E+09 s)	BIORATI	1904/4	1.10000E-08	1.1000E-08	0.000E+00	
103	q_{mi} (Waste 1 @9.4673E+10 s)	BIORATI	4759/3	2.63732E-12	2.6372E-12	1.641E-16	
104	q_{hi} (Waste 1 @3.1557E+09 s)	MGO_HR	1923/3	0.00000E+00	0.0000E+00	0.000E+00	$q_{hi} = r_{hi} S_{cw} C_{MgO}^0 V$
105	q_{hi} (Waste 2 @3.1557E+09 s)	MGO_HR	1923/7	1.10000E-07	1.1000E-07	0.000E+00	
106	q_{hi} (Waste 3 @3.1557E+09 s)	MGO_HR	1923/11	9.00000E-08	9.0000E-08	0.000E+00	
107	q_{hi} (Waste 4 @3.1557E+09 s)	MGO_HR	1924/4	0.00000E+00	0.0000E+00	0.000E+00	
108	q_{hi} (Waste 1 @9.4673E+10 s)	MGO_HR	4779/3	2.63732E-11	2.6372E-11	1.641E-15	

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
Cellulosics Microbial Degradation Dependent Chemistry Rates							
110	C_{Fe} (Waste 2 @ 3.1557E+09 s)	FECONC	1983/7	0.00000E+00			
111	C_{Fe} (Waste 3 @ 3.1557E+09 s)	FECONC	1983/11	0.00000E+00			
112	C_{Fe} (Waste 4 @ 3.1557E+09 s)	FECONC	1984/4	1.04170E+02			
113	C_{FeOH_2} (Waste 2 @ 3.1557E+09 s)	FEOH2C	1993/7	0.00000E+00			
114	C_{FeOH_2} (Waste 3 @ 3.1557E+09 s)	FEOH2C	1993/11	0.00000E+00			
115	C_{FeOH_2} (Waste 4 @ 3.1557E+09 s)	FEOH2C	1994/4	7.82065E+00			
116	C_{MgO} (Waste 2 @ 3.1557E+09 s)	MGOC	2003/7	9.60093E+01			
117	C_{MgO} (Waste 3 @ 3.1557E+09 s)	MGOC	2003/11	7.85457E+01			
118	C_{MgO} (Waste 4 @ 3.1557E+09 s)	MGOC	2004/4	0.00000E+00			
119	C_{MgOH_2} (Waste 2 @ 3.1557E+09 s)	MGOH2C	2008/7	2.02443E+01			
120	C_{MgOH_2} (Waste 3 @ 3.1557E+09 s)	MGOH2C	2008/11	1.49177E+01			

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
121	C_{MgOH_2} (Waste 4 @ 3.1557E+09 s)	MGOH2C	2009/4	0.00000E+00			
122	$s_{sulf}(1)$	RXH2S(1)	694	5.000000E-01	5.0000E-01	0.000E+00	BF2_QB0600_TEST14.inp 269/1
123	$s_{sulf}(2)$	RXH2S(2)	699	5.000000E-01	5.0000E-01	0.000E+00	BF2_QB0600_TEST14.inp 270/1
124	$s_{carb}(1)$	RXCO2(1)	695	1.000000E+00	1.0000E+00	0.000E+00	BF2_QB0600_TEST14.inp 269/2
125	$s_{carb}(2)$	RXCO2(2)	700	1.000000E+00	1.0000E+00	0.000E+00	BF2_QB0600_TEST14.inp 270/2
126	q_{rsulf} (Waste 2 @ 3.1557E+09 s)				0.0000E+00		$q_{rsulf} = s_{sulf} q_{rm}$
127	q_{rsulf} (Waste 3 @ 3.1557E+09 s)				4.5000E-09		
128	q_{rsulf} (Waste 4 @ 3.1557E+09 s)				5.5000E-09		
129	q_{rcarb} (Waste 2 @ 3.1557E+09 s)				0.0000E+00		$q_{rcarb} = s_{carb} q_{rm}$
130	q_{rcarb} (Waste 3 @ 3.1557E+09 s)				9.0000E-09		
131	q_{rcarb} (Waste 4 @ 3.1557E+09 s)				1.1000E-08		

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
132	q_{rsulf_FeOH2} (Waste 2 @3.1557E+09 s)	FEOH2_SR	1913/7	0.00000E+00	0.0000E+00	0.000E+00	$q_{rsulf_FeOH2} = q_{rsulf} \left[1 - \exp \left(-\alpha \frac{C_{FeOH2}}{C_{Fe}^0} \right) \right]$
133	q_{rsulf_FeOH2} (Waste 3 @3.1557E+09 s)	FEOH2_SR	1913/11	0.00000E+00	0.0000E+00	0.000E+00	
134	q_{rsulf_FeOH2} (Waste 4 @3.1557E+09 s)	FEOH2_SR	1914/4	5.50000E-09	5.5000E-09	0.000E+00	
135	q_{rsulf_Fe} (Waste 2 @3.1557E+09 s)	FE_SR	1918/7	0.00000E+00	0.0000E+00	0.000E+00	$q_{rsulf_Fe} = q_{rsulf} - q_{rsulf_FeOH2}$
136	q_{rsulf_Fe} (Waste 3 @3.1557E+09 s)	FE_SR	1918/11	0.00000E+00	0.0000E+00	0.000E+00	
137	q_{rsulf_Fe} (Waste 4 @3.1557E+09 s)	FE_SR	1919/4	7.18117E-39	0.0000E+00	7.181E-39	
138	q_{rcarb_MgOH2} (Waste 2 @3.1557E+09 s)	MGOH2_CR	1928/7	0.00000E+00	0.0000E+00	0.000E+00	$q_{rcarb_MgOH2} = q_{rcarb} \left[1 - \exp \left(-\alpha \frac{C_{MgOH2}}{C_{MgO}^0} \right) \right]$
139	q_{rcarb_MgOH2} (Waste 3 @3.1557E+09 s)	MGOH2_CR	1928/11	9.00000E-09	9.0000E-09	0.000E+00	
140	q_{rcarb_MgOH2} (Waste 4 @3.1557E+09 s)	MGOH2_CR	1929/4	0.00000E+00	0.0000E+00	0.000E+00	

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
141	q_{rcarb_MgO} (Waste 2 @3.1557E+09 s)	MGO_CR	1933/7	0.00000E+00	0.0000E+00	0.000E+00	$q_{rcarb_MgO} = q_{rcarb} - q_{rcarb_MgOH\ 2}$
142	q_{rcarb_MgO} (Waste 3 @3.1557E+09 s)	MGO_CR	1933/11	1.94227E-78	0.0000E+00	1.942E-78	
143	q_{rcarb_MgO} (Waste 4 @3.1557E+09 s)	MGO_CR	1934/4	0.00000E+00	0.0000E+00	0.000E+00	
Additional Chemistry Test							
145	SC 1,1	S(1,1)	705	1.000000E+00	1.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 278/1
146	SC 1,2	S(1,2)	706	-2.000000E+00	-2.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 278/2
147	SC 1,3	S(1,3)	707	-1.000000E+00	-1.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 278/3
148	SC 1,4	S(1,4)	708	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 278/4
149	SC 1,5	S(1,5)	709	1.000000E+00	1.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 278/5
150	SC 1,6	S(1,6)	710	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 278/6
151	SC 1,7	S(1,7)	711	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 278/7
152	SC 1,8	S(1,8)	712	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 278/8
153	SC 1,9	S(1,9)	713	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 278/9
154	SC 2,1	S(2,1)	716	5.000000E-01	5.00E-01	0.000E+00	BF2 QB0600 TEST14.inp 269/1
155	SC 2,2	S(2,2)	717	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 279/2
156	SC 2,3	S(2,3)	718	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 279/3
157	SC 2,4	S(2,4)	719	-1.000000E+00	-1.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 279/4
158	SC 2,5	S(2,5)	720	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 279/5
159	SC 2,6	S(2,6)	721	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 279/6
160	SC 2,7	S(2,7)	722	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 279/7
161	SC 2,8	S(2,8)	723	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 279/8
162	SC 2,9	S(2,9)	724	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 279/9
163	SC 3,1	S(3,1)	727	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 280/1
164	SC 3,2	S(3,2)	728	2.000000E+00	2.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 280/2
165	SC 3,3	S(3,3)	729	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 280/3
166	SC 3,4	S(3,4)	730	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 280/4
167	SC 3,5	S(3,5)	731	-1.000000E+00	-1.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 280/5

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
168	SC 3,6	S(3,6)	732	1.000000E+00	1.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 280/6
169	SC 3,7	S(3,7)	733	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 280/7
170	SC 3,8	S(3,8)	734	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 280/8
171	SC 3,9	S(3,9)	735	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 280/9
172	SC 4,1	S(4,1)	738	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 281/1
173	SC 4,2	S(4,2)	739	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 281/2
174	SC 4,3	S(4,3)	740	-1.000000E+00	-1.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 281/3
175	SC 4,4	S(4,4)	741	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 281/4
176	SC 4,5	S(4,5)	742	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 281/5
177	SC 4,6	S(4,6)	743	1.000000E+00	1.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 281/6
178	SC 4,7	S(4,7)	744	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 281/7
179	SC 4,8	S(4,8)	745	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 281/8
180	SC 4,9	S(4,9)	746	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 281/9
181	SC 5,1	S(5,1)	749	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 282/1
182	SC 5,2	S(5,2)	750	-1.000000E+00	-1.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 282/2
183	SC 5,3	S(5,3)	751	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 282/3
184	SC 5,4	S(5,4)	752	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 282/4
185	SC 5,5	S(5,5)	753	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 282/5
186	SC 5,6	S(5,6)	754	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 282/6
187	SC 5,7	S(5,7)	755	-1.000000E+00	-1.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 282/7
188	SC 5,8	S(5,8)	756	1.000000E+00	1.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 282/8
189	SC 5,9	S(5,9)	757	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 282/9
190	SC 6,1	S(6,1)	760	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 283/1
191	SC 6,2	S(6,2)	761	1.000000E+00	1.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 283/2
192	SC 6,3	S(6,3)	762	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 283/3
193	SC 6,4	S(6,4)	763	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 283/4
194	SC 6,5	S(6,5)	764	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 283/5
195	SC 6,6	S(6,6)	765	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 283/6
196	SC 6,7	S(6,7)	766	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 283/7
197	SC 6,8	S(6,8)	767	-1.000000E+00	-1.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 283/8
198	SC 6,9	S(6,9)	768	1.000000E+00	1.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 283/9
199	SC 7,1	S(7,1)	771	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 284/1
200	SC 7,2	S(7,2)	772	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 284/2
201	SC 7,3	S(7,3)	773	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 284/3
202	SC 7,4	S(7,4)	774	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 284/4
203	SC 7,5	S(7,5)	775	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 284/5
204	SC 7,6	S(7,6)	776	0.000000E+00	0.00E+00	0.000E+00	BF2 QB0600 TEST14.inp 284/6

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
205	SC 7,7	S(7,7)	777	-1.000000E+00	-1.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 284/7
206	SC 7,8	S(7,8)	778	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 284/8
207	SC 7,9	S(7,9)	779	1.000000E+00	1.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 284/9
208	MW _{H2}	MW(1)	787	2.0159E-03	2.01590E-03	0.000E+00	BF2_QB0600_TEST14.inp 274/1
209	MW _{H2O}	MW(2)	788	1.8015E-02	1.80150E-02	0.000E+00	BF2_QB0600_TEST14.inp 274/2
210	MW _{Fe}	MW(3)	789	5.5847E-02	5.58470E-02	0.000E+00	BF2_QB0600_TEST14.inp 274/3
211	MW _{CH2O}	MW(4)	790	2.7023E-02	2.70230E-02	0.000E+00	BF2_QB0600_TEST14.inp 274/4
212	MW _{FeOH2}	MW(5)	793	8.9862E-02	8.98617E-02	3.000E-07	BF2_QB0600_TEST14.inp 276/1
213	MW _{FeS}	MW(6)	794	8.7900E-02	8.79000E-02	0.000E+00	BF2_QB0600_TEST14.inp 276/2
214	MW _{MgO}	MW(7)	795	4.0304E-02	4.03044E-02	-4.000E-07	BF2_QB0600_TEST14.inp 276/3
215	MW _{MgOH2}	MW(8)	796	5.8320E-02	5.83196E-02	4.000E-07	BF2_QB0600_TEST14.inp 276/4
216	MW _{MgCO3}	MW(9)	797	8.4314E-02	8.43142E-02	-2.000E-07	BF2_QB0600_TEST14.inp 276/5
217	m _s	SALT	593	3.2400E+01	3.2400E+01	0.000E+00	BF2_QB0600_TEST14.inp 226/1
218	MW _{Brine}	WMSALT			2.6649E-02		$MW_{brine} = \frac{MW_{H_2O}}{1 - \frac{m_s}{100}}$
219	H2RATE (Waste 2 @3.1557E+09 s)	H2RATE	1938/7	0.000000E+00	0.00000E+00	0.000E+00	$SRAT_i = \frac{\sum_j S_{i,j} RAT_j}{MW_i}$
220	H2RATE (Waste 3 @3.1557E+09 s)	H2RATE	1938/11	9.07155E-12	9.0716E-12	0.000E+00	
221	H2RATE (Waste 4 @3.1557E+09 s)	H2RATE	1939/4	7.76122E-11	7.7612E-11	5.000E-17	
222	BRINRATE (Waste 2 @3.1557E+09 s)	BRINRATE	1943/7	-2.93143E-09	-2.9314E-09	4.911E-15	
223	BRINRATE (Waste 3 @3.1557E+09 s)	BRINRATE	1943/11	-2.15860E-09	-2.1586E-09	2.071E-15	

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
224	BRINRATE (Waste 4 @3.1557E+09 s)	BRINRATE	1944/4	-1.46572E-09	-1.4657E-09	-2.544E-15	$SRAT_i = \frac{\sum_j S_{i,j} RAT_j}{MW_i}$
225	FERATE (Waste 2 @3.1557E+09 s)	FERATE	1948/7	0.00000E+00	0.0000E+00	0.000E+00	
226	FERATE (Waste 3 @3.1557E+09 s)	FERATE	1948/11	0.00000E+00	0.0000E+00	0.000E+00	
227	FERATE (Waste 4 @3.1557E+09 s)	FERATE	1949/4	-1.84295E-09	-1.8430E-09	1.000E-15	
228	CELLRATE (Waste 2 @3.1557E+09 s)	CELLRATE	1953/7	0.00000E+00	0.0000E+00	0.000E+00	
229	CELLRATE (Waste 3 @3.1557E+09 s)	CELLRATE	1953/11	-2.43207E-10	-2.4321E-10	0.000E+00	
230	CELLRATE (Waste 4 @3.1557E+09 s)	CELLRATE	1954/4	-2.97253E-10	-2.9725E-10	0.000E+00	
231	FEOH2R (Waste 2 @3.1557E+09 s)	FEOH2R	1958/7	0.00000E+00	0.0000E+00	0.000E+00	
232	FEOH2R (Waste 3 @3.1557E+09 s)	FEOH2R	1958/11	0.00000E+00	0.0000E+00	0.000E+00	
233	FEOH2R (Waste 4 @3.1557E+09 s)	FEOH2R	1958/4	2.47120E-09	2.4712E-09	3.250E-15	
234	FESR (Waste 2 @3.1557E+09 s)	FESR	1963/7	0.00000E+00	0.0000E+00	0.000E+00	
235	FESR (Waste 3 @3.1557E+09 s)	FESR	1963/11	0.00000E+00	0.0000E+00	0.000E+00	
236	FESR (Waste 4 @3.1557E+09 s)	FESR	1964/4	4.83450E-10	4.8345E-10	0.000E+00	

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
237	MGOR (Waste 2 @3.1557E+09 s)	MGOR	1968/7	-4.43348E-09	-4.4335E-09	4.000E-15	$SRAT_i = \frac{\sum_j S_{i,j} RAT_j}{MW_i}$
238	MGOR (Waste 3 @3.1557E+09 s)	MGOR	1968/11	-3.62740E-09	-3.6274E-09	-4.000E-15	
239	MGOR (Waste 4 @3.1557E+09 s)	MGOR	1969/4	0.00000E+00	0.0000E+00	0.000E+00	
240	MGOH2R (Waste 2 @3.1557E+09 s)	MGOH2R	1973/7	6.41516E-09	6.4152E-09	4.000E-15	
241	MGOH2R (Waste 3 @3.1557E+09 s)	MGOH2R	1973/11	4.72389E-09	4.7239E-09	2.400E-15	
242	MGOH2R (Waste 4 @3.1557E+09 s)	MGOH2R	1974/4	0.00000E+00	0.0000E+00	0.000E+00	
243	MGCO3R (Waste 2 @3.1557E+09 s)	MGCO3R	1978/7	0.00000E+00	0.0000E+00	0.000E+00	
244	MGCO3R (Waste 3 @3.1557E+09 s)	MGCO3R	1978/11	7.58828E-10	7.5883E-10	2.000E-16	
245	MGCO3R (Waste 4 @3.1557E+09 s)	MGCO3R	1979/4	0.00000E+00	0.0000E+00	0.000E+00	
Solids Production							
247	C _{CH2O} (Waste 2 @ 3.1557E+09 s)	CONCBIO	1988/7	0.00000E+00			
248	C _{CH2O} (Waste 3 @ 3.1557E+09 s)	CONCBIO	1988/11	4.42325E+01			
249	C _{CH2O} (Waste 4 @ 3.1557E+09 s)	CONCBIO	1989/4	5.40620E+01			

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
250	C_{Fe} (Waste 2 @ 3.1557E+09 s)	FECONC	1983/7	0.00000E+00			
251	C_{Fe} (Waste 3 @ 3.1557E+09 s)	FECONC	1983/11	0.00000E+00			
252	C_{Fe} (Waste 4 @ 3.1557E+09 s)	FECONC	1984/4	1.04170E+02			
253	C_{FeOH_2} (Waste 2 @ 3.1557E+09 s)	FEOH2C	1993/7	0.00000E+00			
254	C_{FeOH_2} (Waste 3 @ 3.1557E+09 s)	FEOH2C	1993/11	0.00000E+00			
255	C_{FeOH_2} (Waste 4 @ 3.1557E+09 s)	FEOH2C	1994/4	7.82065E+00			
256	C_{FeS} (Waste 2 @ 3.1557E+09 s)	FESC	1998/7	0.00000E+00			
257	C_{FeS} (Waste 3 @ 3.1557E+09 s)	FESC	1998/11	0.00000E+00			
258	C_{FeS} (Waste 4 @ 3.1557E+09 s)	FESC	1999/4	1.52562E+00			
259	C_{MgO} (Waste 2 @ 3.1557E+09 s)	MGOC	2003/7	9.60093E+01			
260	C_{MgO} (Waste 3 @ 3.1557E+09 s)	MGOC	2003/11	7.85457E+01			

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
261	C_{MgO} (Waste 4 @ 3.1557E+09 s)	MGOC	2004/4	0.00000E+00			
262	C_{MgOH_2} (Waste 2 @ 3.1557E+09 s)	MGOH2C	2008/7	2.02443E+01			
263	C_{MgOH_2} (Waste 3 @ 3.1557E+09 s)	MGOH2C	2008/11	1.49177E+01			
264	C_{MgOH_2} (Waste 4 @ 3.1557E+09 s)	MGOH2C	2009/4	0.00000E+00			
265	C_{MgCO_3} (Waste 2 @ 3.1557E+09 s)	MGCO3C	2013/7	0.00000E+00			
266	C_{MgCO_3} (Waste 3 @ 3.1557E+09 s)	MGCO3C	2013/11	2.39463E+00			
267	C_{MgCO_3} (Waste 4 @ 3.1557E+09 s)	MGCO3C	2014/4	0.00000E+00			
268	C_{Salt} (Waste 2 @ 3.1557E+09 s)	SALTC	2018/7	2.99724E+00			
269	C_{Salt} (Waste 3 @ 3.1557E+09 s)	SALTC	2018/11	2.20862E+00			
270	C_{Salt} (Waste 4 @ 3.1557E+09 s)	SALTC	2019/4	1.50290E+00			
271	Initial CH ₂ O Concentration (Waste 2)	CELLCONC	1121/7	0.00000E+00			

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
272	Initial CH ₂ O Concentration (Waste 3)	CELLCONC	1121/11	4.50000E+01			
273	Initial CH ₂ O Concentration (Waste 4)	CELLCONC	1122/4	5.50000E+01			
274	Initial Fe Concentration (Waste 2)	FECONC	1116/7	0.00000E+00			
275	Initial Fe Concentration (Waste 3)	FECONC	1116/11	0.00000E+00			
276	Initial Fe Concentration (Waste 4)	FECONC	1117/4	1.10000E+02			
277	Initial Fe(OH) ₂ Concentration (Waste 2)	FEOH2C	1126/7	0.00000E+00			
278	Initial Fe(OH) ₂ Concentration (Waste 3)	FEOH2C	1126/11	0.00000E+00			
279	Initial Fe(OH) ₂ Concentration (Waste 4)	FEOH2C	1127/4	0.00000E+00			
280	Initial FeS Concentration (Waste 2)	FESC	1131/7	0.00000E+00			
281	Initial FeS Concentration (Waste 3)	FESC	1131/11	0.00000E+00			
282	Initial FeS Concentration (Waste 4)	FESC	1132/4	0.00000E+00			
283	Initial MgO Concentration (Waste 2)	MGOC	1136/7	1.10000E+02			

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
284	Initial MgO Concentration (Waste 3)	MGOC	1136/11	9.00000E+01			
285	Initial MgO Concentration (Waste 4)	MGOC	1137/4	0.00000E+00			
286	Initial Mg(OH) ₂ Concentration (Waste 2)	MGOH2C	1141/7	0.00000E+00			
287	Initial Mg(OH) ₂ Concentration (Waste 3)	MGOH2C	1141/11	0.00000E+00			
288	Initial Mg(OH) ₂ Concentration (Waste 4)	MGOH2C	1142/4	0.00000E+00			
289	Initial MgCO ₃ Concentration (Waste 2)	MGCO3C	1146/7	0.00000E+00			
290	Initial MgCO ₃ Concentration (Waste 3)	MGCO3C	1146/11	0.00000E+00			
291	Initial MgCO ₃ Concentration (Waste 4)	MGCO3C	1147/4	0.00000E+00			
292	Initial Salt Concentration (Waste 2)	SALTC	1151/7	0.00000E+00			
293	Initial Salt Concentration (Waste 3)	SALTC	1151/11	0.00000E+00			
294	Initial Salt Concentration (Waste 4)	SALTC	1152/4	0.00000E+00			
295	p _{CH2O}	DEN(1)	803	1.10000E+03	1.1000E+03	0.000E+00	BF2_QB0600_TEST14.inp 286/4
296	p _{Fe}	DEN(2)	800	7.87000E+03	7.8700E+03	0.000E+00	BF2_QB0600_TEST14.inp 286/1

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
297	ρ_{FeOH_2}	DEN(3)	801	3.40000E+03	3.4000E+03	0.000E+00	BF2_QB0600_TEST14.inp 286/2
298	ρ_{FeS}	DEN(4)	802	4.70000E+03	4.7000E+03	0.000E+00	BF2_QB0600_TEST14.inp 286/3
299	ρ_{MgO}	DEN(5)	806	3.60000E+03	3.6000E+03	0.000E+00	BF2_QB0600_TEST14.inp 288/1
300	ρ_{MgOH_2}	DEN(6)	807	2.37000E+03	2.3700E+03	0.000E+00	BF2_QB0600_TEST14.inp 288/2
301	ρ_{MgCO_3}	DEN(7)	808	3.05000E+03	3.0500E+03	0.000E+00	BF2_QB0600_TEST14.inp 288/3
302	ρ_{Salt}	DEN(8)	809	2.17000E+03	2.1700E+03	0.000E+00	BF2_QB0600_TEST14.inp 288/4
303	$\Delta V_{\text{sCH}_2\text{O}}$ (Waste 2)					0.0000E+00	$\Delta V_{si} = \frac{C_i - C_i^0}{\rho_i}$
304	$\Delta V_{\text{sCH}_2\text{O}}$ (Waste 3)					-6.9773E-04	
305	$\Delta V_{\text{sCH}_2\text{O}}$ (Waste 4)					-8.5273E-04	
306	ΔV_{sFe} (Waste 2)					0.0000E+00	
307	ΔV_{sFe} (Waste 3)					0.0000E+00	
308	ΔV_{sFe} (Waste 4)					-7.4079E-04	
309	$\Delta V_{\text{sFeOH}_2}$ (Waste 2)					0.0000E+00	
310	$\Delta V_{\text{sFeOH}_2}$ (Waste 3)					0.0000E+00	
311	$\Delta V_{\text{sFeOH}_2}$ (Waste 4)					2.3002E-03	
312	ΔV_{sFeS} (Waste 2)					0.0000E+00	
313	ΔV_{sFeS} (Waste 3)					0.0000E+00	
314	ΔV_{sFeS} (Waste 4)					3.2460E-04	
315	ΔV_{sMgO} (Waste 2)					-3.8863E-03	
316	ΔV_{sMgO} (Waste 3)					-3.1818E-03	

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
317	ΔV_{sMgO} (Waste 4)				0.0000E+00		$\Delta V_{si} = \frac{C_i - C_i^0}{\rho_i}$
318	ΔV_{sMgOH2} (Waste 2)				8.5419E-03		
319	ΔV_{sMgOH2} (Waste 3)				6.2944E-03		
320	ΔV_{sMgOH2} (Waste 4)				0.0000E+00		
321	ΔV_{sMgCO3} (Waste 2)				0.0000E+00		
322	ΔV_{sMgCO3} (Waste 3)				7.8512E-04		
323	ΔV_{sMgCO3} (Waste 4)				0.0000E+00		
324	ΔV_{sSalt} (Waste 2)				1.3812E-03		
325	ΔV_{sSalt} (Waste 3)				1.0178E-03		
326	ΔV_{sSalt} (Waste 4)				6.9258E-04		
327	ΔV_s (Waste 2)	PORSOLID	2023/7	6.03680E-03	6.03681E-03	-9.768E-09	$\Delta V_s = \sum_i \Delta V_{si}$
328	ΔV_s (Waste 3)	PORSOLID	2023/11	4.21786E-03	4.21783E-03	2.726E-08	
329	ΔV_s (Waste 4)	PORSOLID	2024/4	1.72386E-03	1.72386E-03	3.253E-09	
Smooth Permeability							
331							
332	t (1)	TIME	2884/1 & 2887/1	3.9333E+10			
333	t (2)	TIME	7975/1 & 7978/1	2.6024E+11			
334	k _{init} (1)	PERMBRX	550	1.0000E-11	1.0000E-11	0.000E+00	BF2_QB0600_TEST14.inp 212/1 & 199/2
335	k _{final} (1)	PERMBRX	551	1.0000E-15	1.0000E-15	0.000E+00	BF2_QB0600_TEST14.inp 212/2 & 200/2
336	t _{final} (1)	TFINAL	553	6.3114E+10	6.3114E+10	0.000E+00	BF2_QB0600_TEST14.inp 212/3
337	t _{change} (1)	TCHANGE	554	3.1557E+10	3.1557E+10	0.000E+00	BF2_QB0600_TEST14.inp 212/4

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
338	C ₁ (1)	C1	555	0.0000E+00	0.0000E+00	0.000E+00	BF2_QB0600_TEST14.inp 215/2
339	C ₂ (1)	C2	556	0.0000E+00	0.0000E+00	0.000E+00	BF2_QB0600_TEST14.inp 215/3
340	C ₃ (1)	C3	557	1.1000E+01	1.1000E+01	0.000E+00	BF2_QB0600_TEST14.inp 215/4
341	C ₄ (1)	C4	558	-5.0000E+01	-5.0000E+01	0.000E+00	BF2_QB0600_TEST14.inp 215/5
342	C ₅ (1)	C5	559	1.2000E+02	1.2000E+02	0.000E+00	BF2_QB0600_TEST14.inp 215/6
343	C ₆ (1)	C6	560	-1.6000E+02	-1.6000E+02	0.000E+00	BF2_QB0600_TEST14.inp 215/7
344	C ₇ (1)	C7	561	1.1200E+02	1.1200E+02	0.000E+00	BF2_QB0600_TEST14.inp 215/8
345	C ₈ (1)	C8	562	-3.2000E+01	-3.2000E+01	0.000E+00	BF2_QB0600_TEST14.inp 215/9
346	k _{init} (2)	PERMBRX	565	1.0000E-15	1.0000E-15	0.000E+00	BF2_QB0600_TEST14.inp 213/1 & 200/2
347	k _{final} (2)	PERMBRX	566	1.0000E-11	1.0000E-11	0.000E+00	BF2_QB0600_TEST14.inp 213/2 & 199/2
348	t _{final} (2)	TFINAL	568	2.8402E+11	2.8402E+11	0.000E+00	BF2_QB0600_TEST14.inp 213/3
349	t _{change} (2)	TCHANGE	569	3.1557E+10	3.1557E+10	0.000E+00	BF2_QB0600_TEST14.inp 213/4
350	C ₁ (2)	C1	570	0.0000E+00	0.0000E+00	0.000E+00	BF2_QB0600_TEST14.inp 216/2
351	C ₂ (2)	C2	571	1.0000E+00	1.0000E+00	0.000E+00	BF2_QB0600_TEST14.inp 216/3
352	t _{init} (1)	TINIT	552	3.1557E+10	3.1557E+10	0.000E+00	$t_{init} = t_{final} - t_{change}$
353	t _{init} (2)	TINIT	567	2.5246E+11	2.5246E+11	-3.000E+06	
354	t _n (1)				2.4641E-01		$t_n = \begin{cases} 0 & t \leq t_{init} \\ \frac{t - t_{init}}{t_{final} - t_{init}} & t_{init} < t < t_{final} \\ 1 & t \geq t_{final} \end{cases}$
355	t _n (2)				2.4632E-01		
356	f(t _n (1))				2.4018E-01		$f(t_n) = (c_1 + c_2 t_n + c_3 t_n^2 + c_4 t_n^3 + c_5 t_n^4 + c_6 t_n^5 + c_7 t_n^6 + c_8 t_n^7)$
357	f(t _n (2))				2.4632E-01		
358	ln(k _{smooth} (1))				-2.7541E+01		$\ln(k_{smooth}) = \ln(k_{init}) + f(t_n)[\ln(k_{final}) - \ln(k_{init})]$
359	ln(k _{smooth} (2))				-3.2270E+01		
360	k _{smooth} (1)	PERMBRX	2930/8	1.09466E-12	1.0947E-12	-4.672E-18	$k_{smooth} = \exp[\ln(k_{smooth})]$
361	k _{smooth} (2)	PERMBRX	8021/8	9.66640E-15	9.6664E-15	7.721E-23	

A.14.4 Test Case 14: Output Difference Files, BF2_QB0600_ES40_TEST14_OUT.DIF and BF2_QB0600_ES45_TEST14_OUT.DIF

BF2_QB0600_ES40_TEST14_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
  3  ** Begun on: 02/15/07 at 12:57:54 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
  3  ** Begun on: 02/14/07 at 16:02:41 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_TEST14.INP;1
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST14]BF2_QB0600_TEST14.INP;1
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST14]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST14]BF2_QB0600_ES47_TEST14.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST14]BF2_QB0600_ES47_TEST14.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
  962 CPU Time (this time step) = 0.01 sec = 0.00000 hr
  963 CPU Time (total for run) = 0.15 sec = 0.00004 hr
  964 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
  962 CPU Time (this time step) = 0.00 sec = 0.00000 hr
  963 CPU Time (total for run) = 0.12 sec = 0.00003 hr
  964 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
```

1159 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.17 (0.17 sec) ASCII
1161 Time Step No. = 69 Elapsed Time = 0.000000E+00 days
1162 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.17 (0.17 sec) Binary
1164 Time Step No. = 70 Elapsed Time = 1.000000E-02 days
1165 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.17 (0.17 sec) Binary
1167 Time Step No. = 71 Elapsed Time = 1.156250E-02 days
1168 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.18 (0.18 sec) Binary
1170 Time Step No. = 72 Elapsed Time = 1.351562E-02 days
1171 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.18 (0.18 sec) Binary
1173 Time Step No. = 73 Elapsed Time = 1.595703E-02 days
1174 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.18 (0.18 sec) Binary
1176 Time Step No. = 74 Elapsed Time = 1.900879E-02 days
1177 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1179 Time Step No. = 75 Elapsed Time = 2.282349E-02 days
1180 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1182 Time Step No. = 76 Elapsed Time = 2.759186E-02 days
1183 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1185 Time Step No. = 77 Elapsed Time = 3.355232E-02 days
1186 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1188 Time Step No. = 78 Elapsed Time = 4.100290E-02 days
1189 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.20 (0.20 sec) Binary
1191 Time Step No. = 79 Elapsed Time = 5.031613E-02 days
1192 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.20 (0.20 sec) Binary
1194 Time Step No. = 80 Elapsed Time = 6.195766E-02 days
1195 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.20 (0.20 sec) Binary
1197 Time Step No. = 81 Elapsed Time = 7.650958E-02 days
1198 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.20 (0.20 sec) Binary
1200 Time Step No. = 82 Elapsed Time = 9.469947E-02 days
1201 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1203 Time Step No. = 83 Elapsed Time = 1.174368E-01 days
1204 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1206 Time Step No. = 84 Elapsed Time = 1.458585E-01 days
1207 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1209 Time Step No. = 85 Elapsed Time = 1.813857E-01 days
1210 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.22 (0.22 sec) Binary
1212 Time Step No. = 86 Elapsed Time = 2.257946E-01 days
1213 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.22 (0.22 sec) Binary
1215 Time Step No. = 87 Elapsed Time = 2.813058E-01 days
1216 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.22 (0.22 sec) Binary
1218 Time Step No. = 88 Elapsed Time = 3.506947E-01 days
1219 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.22 (0.22 sec) Binary
1221 Time Step No. = 89 Elapsed Time = 4.374309E-01 days
1222 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.22 (0.22 sec) Binary
1224 Time Step No. = 90 Elapsed Time = 5.458511E-01 days
1225 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.23 (0.23 sec) Binary
1227 Time Step No. = 91 Elapsed Time = 6.813764E-01 days
1228 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.23 (0.23 sec) Binary
1230 Time Step No. = 92 Elapsed Time = 8.507829E-01 days
1231 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.23 (0.23 sec) Binary
1233 Time Step No. = 93 Elapsed Time = 1.062541E+00 days
1234 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.23 (0.23 sec) Binary
1236 Time Step No. = 94 Elapsed Time = 1.327239E+00 days
1237 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.24 (0.24 sec) Binary
1239 Time Step No. = 95 Elapsed Time = 1.658111E+00 days
1240 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.24 (0.24 sec) Binary
1242 Time Step No. = 96 Elapsed Time = 2.071702E+00 days
1243 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.24 (0.24 sec) Binary
1245 Time Step No. = 97 Elapsed Time = 2.588689E+00 days
1246 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.24 (0.24 sec) Binary
1248 Time Step No. = 98 Elapsed Time = 3.234924E+00 days
1249 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.25 (0.25 sec) Binary
1251 Time Step No. = 99 Elapsed Time = 4.042718E+00 days
1252 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.25 (0.25 sec) Binary
1254 Time Step No. = 100 Elapsed Time = 5.052460E+00 days
1255 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.25 (0.25 sec) Binary
1257 Time Step No. = 101 Elapsed Time = 6.314637E+00 days
1258 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.25 (0.25 sec) Binary
1260 Time Step No. = 102 Elapsed Time = 7.892359E+00 days
1261 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.26 (0.26 sec) Binary
1263 Time Step No. = 103 Elapsed Time = 9.864511E+00 days
1264 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.26 (0.26 sec) Binary
1266 Time Step No. = 104 Elapsed Time = 1.232970E+01 days
1267 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.26 (0.26 sec) Binary
1269 Time Step No. = 105 Elapsed Time = 1.541119E+01 days
1270 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.26 (0.26 sec) Binary
1272 Time Step No. = 106 Elapsed Time = 1.926305E+01 days

1273 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.26 (0.26 sec) Binary
1275 Time Step No. = 107 Elapsed Time = 2.407787E+01 days
1276 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.27 (0.27 sec) Binary
1278 Time Step No. = 108 Elapsed Time = 3.009641E+01 days
1279 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.27 (0.27 sec) Binary
1281 Time Step No. = 109 Elapsed Time = 3.761957E+01 days
1282 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.27 (0.27 sec) Binary
1284 Time Step No. = 110 Elapsed Time = 4.702352E+01 days
1285 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.27 (0.27 sec) Binary
1287 Time Step No. = 111 Elapsed Time = 5.877847E+01 days
1288 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.27 (0.27 sec) Binary
1290 Time Step No. = 112 Elapsed Time = 7.347215E+01 days
1291 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.27 (0.27 sec) Binary
1293 Time Step No. = 113 Elapsed Time = 9.183925E+01 days
1294 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.27 (0.27 sec) Binary
1296 Time Step No. = 114 Elapsed Time = 1.147981E+02 days
1297 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.28 (0.28 sec) Binary
1299 Time Step No. = 115 Elapsed Time = 1.434967E+02 days
1300 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.28 (0.28 sec) Binary
1302 Time Step No. = 116 Elapsed Time = 1.793700E+02 days
1303 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.28 (0.28 sec) Binary
1305 Time Step No. = 117 Elapsed Time = 2.242115E+02 days
1306 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.28 (0.28 sec) Binary
1308 Time Step No. = 118 Elapsed Time = 2.802634E+02 days
1309 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.29 (0.29 sec) Binary
1311 Time Step No. = 119 Elapsed Time = 3.503284E+02 days
1312 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.29 (0.29 sec) Binary
1315 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1

1159 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.12 (0.12 sec) ASCII
1161 Time Step No. = 69 Elapsed Time = 0.000000E+00 days
1162 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.12 (0.12 sec) Binary
1164 Time Step No. = 70 Elapsed Time = 1.000000E-02 days
1165 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.13 (0.13 sec) Binary
1167 Time Step No. = 71 Elapsed Time = 1.156250E-02 days
1168 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.13 (0.13 sec) Binary
1170 Time Step No. = 72 Elapsed Time = 1.351562E-02 days
1171 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.13 (0.13 sec) Binary
1173 Time Step No. = 73 Elapsed Time = 1.595703E-02 days
1174 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.13 (0.13 sec) Binary
1176 Time Step No. = 74 Elapsed Time = 1.900879E-02 days
1177 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.14 (0.14 sec) Binary
1179 Time Step No. = 75 Elapsed Time = 2.282349E-02 days
1180 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.14 (0.14 sec) Binary
1182 Time Step No. = 76 Elapsed Time = 2.759186E-02 days
1183 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.14 (0.14 sec) Binary
1185 Time Step No. = 77 Elapsed Time = 3.355232E-02 days
1186 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.14 (0.14 sec) Binary
1188 Time Step No. = 78 Elapsed Time = 4.100290E-02 days
1189 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.14 (0.14 sec) Binary
1191 Time Step No. = 79 Elapsed Time = 5.031613E-02 days
1192 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.15 (0.15 sec) Binary
1194 Time Step No. = 80 Elapsed Time = 6.195766E-02 days
1195 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.15 (0.15 sec) Binary
1197 Time Step No. = 81 Elapsed Time = 7.650958E-02 days
1198 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.15 (0.15 sec) Binary
1200 Time Step No. = 82 Elapsed Time = 9.469947E-02 days
1201 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.15 (0.15 sec) Binary
1203 Time Step No. = 83 Elapsed Time = 1.174368E-01 days
1204 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.15 (0.15 sec) Binary
1206 Time Step No. = 84 Elapsed Time = 1.458585E-01 days
1207 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 (0.16 sec) Binary
1209 Time Step No. = 85 Elapsed Time = 1.813857E-01 days
1210 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 (0.16 sec) Binary
1212 Time Step No. = 86 Elapsed Time = 2.257946E-01 days
1213 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 (0.16 sec) Binary
1215 Time Step No. = 87 Elapsed Time = 2.813058E-01 days
1216 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 (0.16 sec) Binary
1218 Time Step No. = 88 Elapsed Time = 3.506947E-01 days
1219 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 (0.16 sec) Binary
1221 Time Step No. = 89 Elapsed Time = 4.374309E-01 days
1222 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 (0.16 sec) Binary
1224 Time Step No. = 90 Elapsed Time = 5.458511E-01 days
1225 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.17 (0.17 sec) Binary
1227 Time Step No. = 91 Elapsed Time = 6.813764E-01 days

1228 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.17 (0.17 sec) Binary
1230 Time Step No. = 92 Elapsed Time = 8.507829E-01 days
1231 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.17 (0.17 sec) Binary
1233 Time Step No. = 93 Elapsed Time = 1.062541E+00 days
1234 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.17 (0.17 sec) Binary
1236 Time Step No. = 94 Elapsed Time = 1.327239E+00 days
1237 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.17 (0.17 sec) Binary
1239 Time Step No. = 95 Elapsed Time = 1.658111E+00 days
1240 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 (0.18 sec) Binary
1242 Time Step No. = 96 Elapsed Time = 2.071702E+00 days
1243 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 (0.18 sec) Binary
1245 Time Step No. = 97 Elapsed Time = 2.588689E+00 days
1246 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 (0.18 sec) Binary
1248 Time Step No. = 98 Elapsed Time = 3.234924E+00 days
1249 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 (0.18 sec) Binary
1251 Time Step No. = 99 Elapsed Time = 4.042718E+00 days
1252 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 (0.18 sec) Binary
1254 Time Step No. = 100 Elapsed Time = 5.052460E+00 days
1255 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 (0.18 sec) Binary
1257 Time Step No. = 101 Elapsed Time = 6.314637E+00 days
1258 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1260 Time Step No. = 102 Elapsed Time = 7.892359E+00 days
1261 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1263 Time Step No. = 103 Elapsed Time = 9.864511E+00 days
1264 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1266 Time Step No. = 104 Elapsed Time = 1.232970E+01 days
1267 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1269 Time Step No. = 105 Elapsed Time = 1.541119E+01 days
1270 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1272 Time Step No. = 106 Elapsed Time = 1.926305E+01 days
1273 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1275 Time Step No. = 107 Elapsed Time = 2.407787E+01 days
1276 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.20 (0.20 sec) Binary
1278 Time Step No. = 108 Elapsed Time = 3.009641E+01 days
1279 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.20 (0.20 sec) Binary
1281 Time Step No. = 109 Elapsed Time = 3.761957E+01 days
1282 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.20 (0.20 sec) Binary
1284 Time Step No. = 110 Elapsed Time = 4.702352E+01 days
1285 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.20 (0.20 sec) Binary
1287 Time Step No. = 111 Elapsed Time = 5.877847E+01 days
1288 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.20 (0.20 sec) Binary
1290 Time Step No. = 112 Elapsed Time = 7.347215E+01 days
1291 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1293 Time Step No. = 113 Elapsed Time = 9.183925E+01 days
1294 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1296 Time Step No. = 114 Elapsed Time = 1.147981E+02 days
1297 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1299 Time Step No. = 115 Elapsed Time = 1.434967E+02 days
1300 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1302 Time Step No. = 116 Elapsed Time = 1.793700E+02 days
1303 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1305 Time Step No. = 117 Elapsed Time = 2.242115E+02 days
1306 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1308 Time Step No. = 118 Elapsed Time = 2.802634E+02 days
1309 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.22 (0.22 sec) Binary
1311 Time Step No. = 119 Elapsed Time = 3.503284E+02 days
1312 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.22 (0.22 sec) Binary
1315 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
1324 CPU Time (total for run) = 0.29 sec = 0.00008 hr
1325 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
1324 CPU Time (total for run) = 0.22 sec = 0.00006 hr
1325 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
1520 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.29 (0.29 sec) ASCII
1522 Time Step No. = 120 Elapsed Time = 3.652431E+02 days
1523 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.30 (0.30 sec) Binary
1525 Time Step No. = 121 Elapsed Time = 4.528242E+02 days
1526 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.30 (0.30 sec) Binary
1528 Time Step No. = 122 Elapsed Time = 5.623007E+02 days

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1529 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.30 ( 0.30 sec) Binary
1531 Time Step No. = 123 Elapsed Time = 6.991462E+02 days
1532 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.30 ( 0.30 sec) Binary
1534 Time Step No. = 124 Elapsed Time = 8.702031E+02 days
1535 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
1537 Time Step No. = 125 Elapsed Time = 1.084024E+03 days
1538 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
1540 Time Step No. = 126 Elapsed Time = 1.351301E+03 days
1541 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
1543 Time Step No. = 127 Elapsed Time = 1.685396E+03 days
1544 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
1546 Time Step No. = 128 Elapsed Time = 2.103016E+03 days
1547 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
1549 Time Step No. = 129 Elapsed Time = 2.625040E+03 days
1550 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.32 ( 0.32 sec) Binary
1552 Time Step No. = 130 Elapsed Time = 3.277571E+03 days
1553 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.32 ( 0.32 sec) Binary
1556 *****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
1520 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) ASCII
1522 Time Step No. = 120 Elapsed Time = 3.652431E+02 days
1523 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
1525 Time Step No. = 121 Elapsed Time = 4.528242E+02 days
1526 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
1528 Time Step No. = 122 Elapsed Time = 5.623007E+02 days
1529 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
1531 Time Step No. = 123 Elapsed Time = 6.991462E+02 days
1532 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
1534 Time Step No. = 124 Elapsed Time = 8.702031E+02 days
1535 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
1537 Time Step No. = 125 Elapsed Time = 1.084024E+03 days
1538 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
1540 Time Step No. = 126 Elapsed Time = 1.351301E+03 days
1541 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
1543 Time Step No. = 127 Elapsed Time = 1.685396E+03 days
1544 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
1546 Time Step No. = 128 Elapsed Time = 2.103016E+03 days
1547 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
1549 Time Step No. = 129 Elapsed Time = 2.625040E+03 days
1550 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
1552 Time Step No. = 130 Elapsed Time = 3.277571E+03 days
1553 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
1556 *****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
1564 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1565 CPU Time (total for run) = 0.32 sec = 0.00009 hr
1566 *****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
1564 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1565 CPU Time (total for run) = 0.25 sec = 0.00007 hr
1566 *****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
1761 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) ASCII
1763 Time Step No. = 131 Elapsed Time = 3.652431E+03 days
1764 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
1766 Time Step No. = 132 Elapsed Time = 4.468094E+03 days
1767 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
1769 Time Step No. = 133 Elapsed Time = 5.487672E+03 days
1770 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
1772 Time Step No. = 134 Elapsed Time = 6.762146E+03 days
1773 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
1775 Time Step No. = 135 Elapsed Time = 8.355238E+03 days
1776 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
1778 Time Step No. = 136 Elapsed Time = 1.034660E+04 days
1779 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.34 ( 0.34 sec) Binary
1781 Time Step No. = 137 Elapsed Time = 1.234660E+04 days
1782 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.34 ( 0.34 sec) Binary
1784 Time Step No. = 138 Elapsed Time = 1.434660E+04 days
1785 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.34 ( 0.34 sec) Binary
1787 Time Step No. = 139 Elapsed Time = 1.634660E+04 days
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1788 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.34 (0.34 sec) Binary
1790 Time Step No. = 140 Elapsed Time = 1.834660E+04 days
1791 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.34 (0.34 sec) Binary
1793 Time Step No. = 141 Elapsed Time = 2.034660E+04 days
1794 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.35 (0.35 sec) Binary
1796 Time Step No. = 142 Elapsed Time = 2.234660E+04 days
1797 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.35 (0.35 sec) Binary
1799 Time Step No. = 143 Elapsed Time = 2.434660E+04 days
1800 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.36 (0.36 sec) Binary
1802 Time Step No. = 144 Elapsed Time = 2.634660E+04 days
1803 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.36 (0.36 sec) Binary
1805 Time Step No. = 145 Elapsed Time = 2.834660E+04 days
1806 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.37 (0.37 sec) Binary
1808 Time Step No. = 146 Elapsed Time = 3.034660E+04 days
1809 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.37 (0.37 sec) Binary
1811 Time Step No. = 147 Elapsed Time = 3.234660E+04 days
1812 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.38 (0.38 sec) Binary
1814 Time Step No. = 148 Elapsed Time = 3.434660E+04 days
1815 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.38 (0.38 sec) Binary
1817 Time Step No. = 149 Elapsed Time = 3.534660E+04 days
1818 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.39 (0.39 sec) Binary
1821 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
1761 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.25 (0.25 sec) ASCII
1763 Time Step No. = 131 Elapsed Time = 3.652431E+03 days
1764 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.25 (0.25 sec) Binary
1766 Time Step No. = 132 Elapsed Time = 4.468094E+03 days
1767 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.25 (0.25 sec) Binary
1769 Time Step No. = 133 Elapsed Time = 5.487672E+03 days
1770 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.25 (0.25 sec) Binary
1772 Time Step No. = 134 Elapsed Time = 6.762146E+03 days
1773 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.26 (0.26 sec) Binary
1775 Time Step No. = 135 Elapsed Time = 8.355238E+03 days
1776 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.26 (0.26 sec) Binary
1778 Time Step No. = 136 Elapsed Time = 1.034660E+04 days
1779 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.26 (0.26 sec) Binary
1781 Time Step No. = 137 Elapsed Time = 1.234660E+04 days
1782 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.27 (0.27 sec) Binary
1784 Time Step No. = 138 Elapsed Time = 1.434660E+04 days
1785 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.27 (0.27 sec) Binary
1787 Time Step No. = 139 Elapsed Time = 1.634660E+04 days
1788 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.27 (0.27 sec) Binary
1790 Time Step No. = 140 Elapsed Time = 1.834660E+04 days
1791 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.28 (0.28 sec) Binary
1793 Time Step No. = 141 Elapsed Time = 2.034660E+04 days
1794 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.28 (0.28 sec) Binary
1796 Time Step No. = 142 Elapsed Time = 2.234660E+04 days
1797 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.28 (0.28 sec) Binary
1799 Time Step No. = 143 Elapsed Time = 2.434660E+04 days
1800 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.29 (0.29 sec) Binary
1802 Time Step No. = 144 Elapsed Time = 2.634660E+04 days
1803 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.29 (0.29 sec) Binary
1805 Time Step No. = 145 Elapsed Time = 2.834660E+04 days
1806 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.29 (0.29 sec) Binary
1808 Time Step No. = 146 Elapsed Time = 3.034660E+04 days
1809 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.30 (0.30 sec) Binary
1811 Time Step No. = 147 Elapsed Time = 3.234660E+04 days
1812 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.30 (0.30 sec) Binary
1814 Time Step No. = 148 Elapsed Time = 3.434660E+04 days
1815 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.31 (0.31 sec) Binary
1817 Time Step No. = 149 Elapsed Time = 3.534660E+04 days
1818 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.31 (0.31 sec) Binary
1821 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
1830 CPU Time (total for run) = 0.39 sec = 0.00011 hr
1831 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
1830 CPU Time (total for run) = 0.31 sec = 0.00009 hr
1831 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1

2026 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.40 (0.40 sec) ASCII
2028 Time Step No. = 150 Elapsed Time = 3.652431E+04 days
2029 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.40 (0.40 sec) Binary
2031 Time Step No. = 151 Elapsed Time = 3.777431E+04 days
2032 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.41 (0.41 sec) Binary
2034 Time Step No. = 152 Elapsed Time = 3.816493E+04 days
2035 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.42 (0.42 sec) Binary
2037 Time Step No. = 153 Elapsed Time = 3.865321E+04 days
2038 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.42 (0.42 sec) Binary
2040 Time Step No. = 154 Elapsed Time = 3.926356E+04 days
2041 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.43 (0.43 sec) Binary
2043 Time Step No. = 155 Elapsed Time = 4.002650E+04 days
2044 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.43 (0.43 sec) Binary
2046 Time Step No. = 156 Elapsed Time = 4.098018E+04 days
2047 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.44 (0.44 sec) Binary
2049 Time Step No. = 157 Elapsed Time = 4.217227E+04 days
2050 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.44 (0.44 sec) Binary
2052 Time Step No. = 158 Elapsed Time = 4.366239E+04 days
2053 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.45 (0.45 sec) Binary
2055 Time Step No. = 159 Elapsed Time = 4.552503E+04 days
2056 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.45 (0.45 sec) Binary
2058 Time Step No. = 160 Elapsed Time = 4.752503E+04 days
2059 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.46 (0.46 sec) Binary
2061 Time Step No. = 161 Elapsed Time = 4.952503E+04 days
2062 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.46 (0.46 sec) Binary
2064 Time Step No. = 162 Elapsed Time = 5.152503E+04 days
2065 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.47 (0.47 sec) Binary
2067 Time Step No. = 163 Elapsed Time = 5.352503E+04 days
2068 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.47 (0.47 sec) Binary
2070 Time Step No. = 164 Elapsed Time = 5.552503E+04 days
2071 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.48 (0.48 sec) Binary
2073 Time Step No. = 165 Elapsed Time = 5.752503E+04 days
2074 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.48 (0.48 sec) Binary
2076 Time Step No. = 166 Elapsed Time = 5.952503E+04 days
2077 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.49 (0.49 sec) Binary
2079 Time Step No. = 167 Elapsed Time = 6.152503E+04 days
2080 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.49 (0.49 sec) Binary
2082 Time Step No. = 168 Elapsed Time = 6.352503E+04 days
2083 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.50 (0.50 sec) Binary
2085 Time Step No. = 169 Elapsed Time = 6.552503E+04 days
2086 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.50 (0.50 sec) Binary
2088 Time Step No. = 170 Elapsed Time = 6.752503E+04 days
2089 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.51 (0.51 sec) Binary
2091 Time Step No. = 171 Elapsed Time = 6.952503E+04 days
2092 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.51 (0.51 sec) Binary
2094 Time Step No. = 172 Elapsed Time = 7.152503E+04 days
2095 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.52 (0.52 sec) Binary
2097 Time Step No. = 173 Elapsed Time = 7.352503E+04 days
2098 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.52 (0.52 sec) Binary
2100 Time Step No. = 174 Elapsed Time = 7.552503E+04 days
2101 Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.53 (0.53 sec) Binary
2103 Time Step No. = 175 Elapsed Time = 7.752503E+04 days
2104 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.53 (0.53 sec) Binary
2106 Time Step No. = 176 Elapsed Time = 7.952503E+04 days
2107 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.54 (0.54 sec) Binary
2109 Time Step No. = 177 Elapsed Time = 8.152503E+04 days
2110 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.54 (0.54 sec) Binary
2112 Time Step No. = 178 Elapsed Time = 8.352503E+04 days
2113 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.55 (0.55 sec) Binary
2115 Time Step No. = 179 Elapsed Time = 8.552503E+04 days
2116 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.55 (0.55 sec) Binary
2118 Time Step No. = 180 Elapsed Time = 8.752503E+04 days
2119 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.56 (0.56 sec) Binary
2121 Time Step No. = 181 Elapsed Time = 8.952503E+04 days
2122 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.56 (0.56 sec) Binary
2124 Time Step No. = 182 Elapsed Time = 9.152503E+04 days
2125 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.57 (0.57 sec) Binary
2127 Time Step No. = 183 Elapsed Time = 9.352503E+04 days
2128 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.57 (0.57 sec) Binary
2130 Time Step No. = 184 Elapsed Time = 9.552503E+04 days
2131 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.58 (0.58 sec) Binary
2133 Time Step No. = 185 Elapsed Time = 9.752503E+04 days
2134 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.58 (0.58 sec) Binary
2136 Time Step No. = 186 Elapsed Time = 9.952503E+04 days
2137 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.59 (0.59 sec) Binary
2139 Time Step No. = 187 Elapsed Time = 1.015250E+05 days

2140 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.59 (0.59 sec) Binary
2142 Time Step No. = 188 Elapsed Time = 1.035250E+05 days
2143 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.60 (0.60 sec) Binary
2145 Time Step No. = 189 Elapsed Time = 1.055250E+05 days
2146 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.60 (0.60 sec) Binary
2148 Time Step No. = 190 Elapsed Time = 1.075250E+05 days
2149 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.61 (0.61 sec) Binary
2151 Time Step No. = 191 Elapsed Time = 1.095250E+05 days
2152 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.61 (0.61 sec) Binary
2154 Time Step No. = 192 Elapsed Time = 1.115250E+05 days
2155 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.62 (0.62 sec) Binary
2157 Time Step No. = 193 Elapsed Time = 1.135250E+05 days
2158 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.62 (0.62 sec) Binary
2160 Time Step No. = 194 Elapsed Time = 1.155250E+05 days
2161 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.63 (0.63 sec) Binary
2163 Time Step No. = 195 Elapsed Time = 1.175250E+05 days
2164 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.63 (0.63 sec) Binary
2166 Time Step No. = 196 Elapsed Time = 1.195250E+05 days
2167 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.63 (0.63 sec) Binary
2169 Time Step No. = 197 Elapsed Time = 1.215250E+05 days
2170 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.64 (0.64 sec) Binary
2172 Time Step No. = 198 Elapsed Time = 1.235250E+05 days
2173 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.64 (0.64 sec) Binary
2175 Time Step No. = 199 Elapsed Time = 1.255250E+05 days
2176 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.65 (0.65 sec) Binary
2178 Time Step No. = 200 Elapsed Time = 1.275250E+05 days
2179 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.65 (0.65 sec) Binary
2181 Time Step No. = 201 Elapsed Time = 1.295250E+05 days
2182 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.66 (0.66 sec) Binary
2184 Time Step No. = 202 Elapsed Time = 1.315250E+05 days
2185 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.66 (0.66 sec) Binary
2187 Time Step No. = 203 Elapsed Time = 1.335250E+05 days
2188 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.67 (0.67 sec) Binary
2190 Time Step No. = 204 Elapsed Time = 1.355250E+05 days
2191 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.67 (0.67 sec) Binary
2193 Time Step No. = 205 Elapsed Time = 1.375250E+05 days
2194 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.67 (0.67 sec) Binary
2196 Time Step No. = 206 Elapsed Time = 1.395250E+05 days
2197 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.68 (0.68 sec) Binary
2199 Time Step No. = 207 Elapsed Time = 1.415250E+05 days
2200 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.68 (0.68 sec) Binary
2202 Time Step No. = 208 Elapsed Time = 1.435250E+05 days
2203 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.69 (0.69 sec) Binary
2205 Time Step No. = 209 Elapsed Time = 1.455250E+05 days
2206 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.69 (0.69 sec) Binary
2208 Time Step No. = 210 Elapsed Time = 1.475250E+05 days
2209 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.70 (0.70 sec) Binary
2211 Time Step No. = 211 Elapsed Time = 1.495250E+05 days
2212 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.70 (0.70 sec) Binary
2214 Time Step No. = 212 Elapsed Time = 1.515250E+05 days
2215 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.71 (0.71 sec) Binary
2217 Time Step No. = 213 Elapsed Time = 1.535250E+05 days
2218 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.71 (0.71 sec) Binary
2220 Time Step No. = 214 Elapsed Time = 1.555250E+05 days
2221 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2223 Time Step No. = 215 Elapsed Time = 1.575250E+05 days
2224 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2226 Time Step No. = 216 Elapsed Time = 1.595250E+05 days
2227 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.73 (0.73 sec) Binary
2229 Time Step No. = 217 Elapsed Time = 1.615250E+05 days
2230 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.73 (0.73 sec) Binary
2232 Time Step No. = 218 Elapsed Time = 1.635250E+05 days
2233 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2235 Time Step No. = 219 Elapsed Time = 1.655250E+05 days
2236 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2238 Time Step No. = 220 Elapsed Time = 1.675250E+05 days
2239 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2241 Time Step No. = 221 Elapsed Time = 1.695250E+05 days
2242 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.75 (0.75 sec) Binary
2244 Time Step No. = 222 Elapsed Time = 1.715250E+05 days
2245 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.75 (0.75 sec) Binary
2247 Time Step No. = 223 Elapsed Time = 1.735250E+05 days
2248 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.76 (0.76 sec) Binary
2250 Time Step No. = 224 Elapsed Time = 1.755250E+05 days
2251 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.76 (0.76 sec) Binary
2253 Time Step No. = 225 Elapsed Time = 1.775250E+05 days

2254 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.77 (0.77 sec) Binary
2256 Time Step No. = 226 Elapsed Time = 1.795250E+05 days
2257 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.77 (0.77 sec) Binary
2259 Time Step No. = 227 Elapsed Time = 1.815250E+05 days
2260 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.78 (0.78 sec) Binary
2262 Time Step No. = 228 Elapsed Time = 1.835250E+05 days
2263 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.78 (0.78 sec) Binary
2265 Time Step No. = 229 Elapsed Time = 1.855250E+05 days
2266 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary
2268 Time Step No. = 230 Elapsed Time = 1.875250E+05 days
2269 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary
2271 Time Step No. = 231 Elapsed Time = 1.895250E+05 days
2272 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.80 (0.80 sec) Binary
2274 Time Step No. = 232 Elapsed Time = 1.915250E+05 days
2275 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.80 (0.80 sec) Binary
2277 Time Step No. = 233 Elapsed Time = 1.935250E+05 days
2278 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.81 (0.81 sec) Binary
2280 Time Step No. = 234 Elapsed Time = 1.955250E+05 days
2281 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.81 (0.81 sec) Binary
2283 Time Step No. = 235 Elapsed Time = 1.975250E+05 days
2284 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.81 (0.81 sec) Binary
2286 Time Step No. = 236 Elapsed Time = 1.995250E+05 days
2287 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.82 (0.82 sec) Binary
2289 Time Step No. = 237 Elapsed Time = 2.015250E+05 days
2290 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.83 (0.83 sec) Binary
2292 Time Step No. = 238 Elapsed Time = 2.035250E+05 days
2293 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.83 (0.83 sec) Binary
2295 Time Step No. = 239 Elapsed Time = 2.055250E+05 days
2296 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.84 (0.84 sec) Binary
2298 Time Step No. = 240 Elapsed Time = 2.075250E+05 days
2299 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.84 (0.84 sec) Binary
2301 Time Step No. = 241 Elapsed Time = 2.095250E+05 days
2302 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.84 (0.84 sec) Binary
2304 Time Step No. = 242 Elapsed Time = 2.115250E+05 days
2305 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.85 (0.85 sec) Binary
2307 Time Step No. = 243 Elapsed Time = 2.135250E+05 days
2308 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.85 (0.85 sec) Binary
2310 Time Step No. = 244 Elapsed Time = 2.155250E+05 days
2311 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.86 (0.86 sec) Binary
2313 Time Step No. = 245 Elapsed Time = 2.175250E+05 days
2314 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.86 (0.86 sec) Binary
2316 Time Step No. = 246 Elapsed Time = 2.195250E+05 days
2317 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.87 (0.87 sec) Binary
2319 Time Step No. = 247 Elapsed Time = 2.215250E+05 days
2320 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.87 (0.87 sec) Binary
2322 Time Step No. = 248 Elapsed Time = 2.235250E+05 days
2323 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.88 (0.88 sec) Binary
2325 Time Step No. = 249 Elapsed Time = 2.255250E+05 days
2326 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.88 (0.88 sec) Binary
2328 Time Step No. = 250 Elapsed Time = 2.275250E+05 days
2329 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.89 (0.89 sec) Binary
2331 Time Step No. = 251 Elapsed Time = 2.295250E+05 days
2332 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.89 (0.89 sec) Binary
2334 Time Step No. = 252 Elapsed Time = 2.315250E+05 days
2335 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.89 (0.89 sec) Binary
2337 Time Step No. = 253 Elapsed Time = 2.335250E+05 days
2338 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.90 (0.90 sec) Binary
2340 Time Step No. = 254 Elapsed Time = 2.355250E+05 days
2341 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.90 (0.90 sec) Binary
2343 Time Step No. = 255 Elapsed Time = 2.375250E+05 days
2344 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.91 (0.91 sec) Binary
2346 Time Step No. = 256 Elapsed Time = 2.395250E+05 days
2347 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.91 (0.91 sec) Binary
2349 Time Step No. = 257 Elapsed Time = 2.415250E+05 days
2350 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.92 (0.92 sec) Binary
2352 Time Step No. = 258 Elapsed Time = 2.435250E+05 days
2353 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.92 (0.92 sec) Binary
2355 Time Step No. = 259 Elapsed Time = 2.455250E+05 days
2356 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.93 (0.93 sec) Binary
2358 Time Step No. = 260 Elapsed Time = 2.475250E+05 days
2359 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.93 (0.93 sec) Binary
2361 Time Step No. = 261 Elapsed Time = 2.495250E+05 days
2362 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.94 (0.94 sec) Binary
2364 Time Step No. = 262 Elapsed Time = 2.515250E+05 days
2365 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.94 (0.94 sec) Binary
2367 Time Step No. = 263 Elapsed Time = 2.535250E+05 days


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2482 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
2484 Time Step No. = 302 Elapsed Time = 3.315250E+05 days
2485 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
2487 Time Step No. = 303 Elapsed Time = 3.335250E+05 days
2488 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
2490 Time Step No. = 304 Elapsed Time = 3.355250E+05 days
2491 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
2493 Time Step No. = 305 Elapsed Time = 3.375250E+05 days
2494 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
2496 Time Step No. = 306 Elapsed Time = 3.395250E+05 days
2497 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
2499 Time Step No. = 307 Elapsed Time = 3.415250E+05 days
2500 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
2502 Time Step No. = 308 Elapsed Time = 3.435250E+05 days
2503 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
2505 Time Step No. = 309 Elapsed Time = 3.455250E+05 days
2506 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
2508 Time Step No. = 310 Elapsed Time = 3.475250E+05 days
2509 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
2511 Time Step No. = 311 Elapsed Time = 3.495250E+05 days
2512 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
2514 Time Step No. = 312 Elapsed Time = 3.515250E+05 days
2515 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
2517 Time Step No. = 313 Elapsed Time = 3.535250E+05 days
2518 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
2520 Time Step No. = 314 Elapsed Time = 3.555250E+05 days
2521 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
2523 Time Step No. = 315 Elapsed Time = 3.575250E+05 days
2524 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
2526 Time Step No. = 316 Elapsed Time = 3.595250E+05 days
2527 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
2529 Time Step No. = 317 Elapsed Time = 3.615250E+05 days
2530 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
2532 Time Step No. = 318 Elapsed Time = 3.635250E+05 days
2533 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
2536 *****
*****
```

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1

```
2026 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) ASCII
2028 Time Step No. = 150 Elapsed Time = 3.652431E+04 days
2029 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
2031 Time Step No. = 151 Elapsed Time = 3.777431E+04 days
2032 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
2034 Time Step No. = 152 Elapsed Time = 3.816493E+04 days
2035 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.32 ( 0.32 sec) Binary
2037 Time Step No. = 153 Elapsed Time = 3.865321E+04 days
2038 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.32 ( 0.32 sec) Binary
2040 Time Step No. = 154 Elapsed Time = 3.926356E+04 days
2041 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
2043 Time Step No. = 155 Elapsed Time = 4.002650E+04 days
2044 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
2046 Time Step No. = 156 Elapsed Time = 4.098018E+04 days
2047 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
2049 Time Step No. = 157 Elapsed Time = 4.217227E+04 days
2050 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.34 ( 0.34 sec) Binary
2052 Time Step No. = 158 Elapsed Time = 4.366239E+04 days
2053 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.34 ( 0.34 sec) Binary
2055 Time Step No. = 159 Elapsed Time = 4.552503E+04 days
2056 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.34 ( 0.34 sec) Binary
2058 Time Step No. = 160 Elapsed Time = 4.752503E+04 days
2059 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.35 ( 0.35 sec) Binary
2061 Time Step No. = 161 Elapsed Time = 4.952503E+04 days
2062 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.35 ( 0.35 sec) Binary
2064 Time Step No. = 162 Elapsed Time = 5.152503E+04 days
2065 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.35 ( 0.35 sec) Binary
2067 Time Step No. = 163 Elapsed Time = 5.352503E+04 days
2068 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.36 ( 0.36 sec) Binary
2070 Time Step No. = 164 Elapsed Time = 5.552503E+04 days
2071 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.36 ( 0.36 sec) Binary
2073 Time Step No. = 165 Elapsed Time = 5.752503E+04 days
2074 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.37 ( 0.37 sec) Binary
2076 Time Step No. = 166 Elapsed Time = 5.952503E+04 days
2077 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.37 ( 0.37 sec) Binary
2079 Time Step No. = 167 Elapsed Time = 6.152503E+04 days
2080 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.37 ( 0.37 sec) Binary
2082 Time Step No. = 168 Elapsed Time = 6.352503E+04 days
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2083 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.38 (0.38 sec) Binary
2085 Time Step No. = 169 Elapsed Time = 6.552503E+04 days
2086 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.38 (0.38 sec) Binary
2088 Time Step No. = 170 Elapsed Time = 6.752503E+04 days
2089 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.38 (0.38 sec) Binary
2091 Time Step No. = 171 Elapsed Time = 6.952503E+04 days
2092 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.39 (0.39 sec) Binary
2094 Time Step No. = 172 Elapsed Time = 7.152503E+04 days
2095 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.39 (0.39 sec) Binary
2097 Time Step No. = 173 Elapsed Time = 7.352503E+04 days
2098 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.39 (0.39 sec) Binary
2100 Time Step No. = 174 Elapsed Time = 7.552503E+04 days
2101 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.40 (0.40 sec) Binary
2103 Time Step No. = 175 Elapsed Time = 7.752503E+04 days
2104 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.40 (0.40 sec) Binary
2106 Time Step No. = 176 Elapsed Time = 7.952503E+04 days
2107 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.40 (0.40 sec) Binary
2109 Time Step No. = 177 Elapsed Time = 8.152503E+04 days
2110 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.41 (0.41 sec) Binary
2112 Time Step No. = 178 Elapsed Time = 8.352503E+04 days
2113 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.41 (0.41 sec) Binary
2115 Time Step No. = 179 Elapsed Time = 8.552503E+04 days
2116 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.42 (0.42 sec) Binary
2118 Time Step No. = 180 Elapsed Time = 8.752503E+04 days
2119 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.42 (0.42 sec) Binary
2121 Time Step No. = 181 Elapsed Time = 8.952503E+04 days
2122 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.42 (0.42 sec) Binary
2124 Time Step No. = 182 Elapsed Time = 9.152503E+04 days
2125 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.43 (0.43 sec) Binary
2127 Time Step No. = 183 Elapsed Time = 9.352503E+04 days
2128 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.43 (0.43 sec) Binary
2130 Time Step No. = 184 Elapsed Time = 9.552503E+04 days
2131 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.43 (0.43 sec) Binary
2133 Time Step No. = 185 Elapsed Time = 9.752503E+04 days
2134 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.44 (0.44 sec) Binary
2136 Time Step No. = 186 Elapsed Time = 9.952503E+04 days
2137 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.44 (0.44 sec) Binary
2139 Time Step No. = 187 Elapsed Time = 1.015250E+05 days
2140 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.44 (0.44 sec) Binary
2142 Time Step No. = 188 Elapsed Time = 1.035250E+05 days
2143 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.45 (0.45 sec) Binary
2145 Time Step No. = 189 Elapsed Time = 1.055250E+05 days
2146 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.45 (0.45 sec) Binary
2148 Time Step No. = 190 Elapsed Time = 1.075250E+05 days
2149 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.45 (0.45 sec) Binary
2151 Time Step No. = 191 Elapsed Time = 1.095250E+05 days
2152 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.46 (0.46 sec) Binary
2154 Time Step No. = 192 Elapsed Time = 1.115250E+05 days
2155 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.46 (0.46 sec) Binary
2157 Time Step No. = 193 Elapsed Time = 1.135250E+05 days
2158 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.46 (0.46 sec) Binary
2160 Time Step No. = 194 Elapsed Time = 1.155250E+05 days
2161 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.47 (0.47 sec) Binary
2163 Time Step No. = 195 Elapsed Time = 1.175250E+05 days
2164 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.47 (0.47 sec) Binary
2166 Time Step No. = 196 Elapsed Time = 1.195250E+05 days
2167 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.47 (0.47 sec) Binary
2169 Time Step No. = 197 Elapsed Time = 1.215250E+05 days
2170 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.48 (0.48 sec) Binary
2172 Time Step No. = 198 Elapsed Time = 1.235250E+05 days
2173 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.48 (0.48 sec) Binary
2175 Time Step No. = 199 Elapsed Time = 1.255250E+05 days
2176 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.48 (0.48 sec) Binary
2178 Time Step No. = 200 Elapsed Time = 1.275250E+05 days
2179 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.49 (0.49 sec) Binary
2181 Time Step No. = 201 Elapsed Time = 1.295250E+05 days
2182 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.49 (0.49 sec) Binary
2184 Time Step No. = 202 Elapsed Time = 1.315250E+05 days
2185 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.49 (0.49 sec) Binary
2187 Time Step No. = 203 Elapsed Time = 1.335250E+05 days
2188 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.49 (0.49 sec) Binary
2190 Time Step No. = 204 Elapsed Time = 1.355250E+05 days
2191 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.49 (0.49 sec) Binary
2193 Time Step No. = 205 Elapsed Time = 1.375250E+05 days
2194 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.50 (0.50 sec) Binary
2196 Time Step No. = 206 Elapsed Time = 1.395250E+05 days

2197 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.50 (0.50 sec) Binary
2199 Time Step No. = 207 Elapsed Time = 1.415250E+05 days
2200 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.50 (0.50 sec) Binary
2202 Time Step No. = 208 Elapsed Time = 1.435250E+05 days
2203 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.50 (0.50 sec) Binary
2205 Time Step No. = 209 Elapsed Time = 1.455250E+05 days
2206 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.51 (0.51 sec) Binary
2208 Time Step No. = 210 Elapsed Time = 1.475250E+05 days
2209 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.51 (0.51 sec) Binary
2211 Time Step No. = 211 Elapsed Time = 1.495250E+05 days
2212 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.51 (0.51 sec) Binary
2214 Time Step No. = 212 Elapsed Time = 1.515250E+05 days
2215 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.52 (0.52 sec) Binary
2217 Time Step No. = 213 Elapsed Time = 1.535250E+05 days
2218 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.52 (0.52 sec) Binary
2220 Time Step No. = 214 Elapsed Time = 1.555250E+05 days
2221 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.52 (0.52 sec) Binary
2223 Time Step No. = 215 Elapsed Time = 1.575250E+05 days
2224 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.53 (0.53 sec) Binary
2226 Time Step No. = 216 Elapsed Time = 1.595250E+05 days
2227 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.53 (0.53 sec) Binary
2229 Time Step No. = 217 Elapsed Time = 1.615250E+05 days
2230 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.53 (0.53 sec) Binary
2232 Time Step No. = 218 Elapsed Time = 1.635250E+05 days
2233 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 (0.54 sec) Binary
2235 Time Step No. = 219 Elapsed Time = 1.655250E+05 days
2236 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 (0.54 sec) Binary
2238 Time Step No. = 220 Elapsed Time = 1.675250E+05 days
2239 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 (0.54 sec) Binary
2241 Time Step No. = 221 Elapsed Time = 1.695250E+05 days
2242 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 (0.54 sec) Binary
2244 Time Step No. = 222 Elapsed Time = 1.715250E+05 days
2245 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 (0.54 sec) Binary
2247 Time Step No. = 223 Elapsed Time = 1.735250E+05 days
2248 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 (0.54 sec) Binary
2250 Time Step No. = 224 Elapsed Time = 1.755250E+05 days
2251 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 (0.54 sec) Binary
2253 Time Step No. = 225 Elapsed Time = 1.775250E+05 days
2254 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.55 (0.55 sec) Binary
2256 Time Step No. = 226 Elapsed Time = 1.795250E+05 days
2257 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.55 (0.55 sec) Binary
2259 Time Step No. = 227 Elapsed Time = 1.815250E+05 days
2260 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.56 (0.56 sec) Binary
2262 Time Step No. = 228 Elapsed Time = 1.835250E+05 days
2263 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.56 (0.56 sec) Binary
2265 Time Step No. = 229 Elapsed Time = 1.855250E+05 days
2266 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.56 (0.56 sec) Binary
2268 Time Step No. = 230 Elapsed Time = 1.875250E+05 days
2269 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.57 (0.57 sec) Binary
2271 Time Step No. = 231 Elapsed Time = 1.895250E+05 days
2272 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.57 (0.57 sec) Binary
2274 Time Step No. = 232 Elapsed Time = 1.915250E+05 days
2275 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.57 (0.57 sec) Binary
2277 Time Step No. = 233 Elapsed Time = 1.935250E+05 days
2278 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.58 (0.58 sec) Binary
2280 Time Step No. = 234 Elapsed Time = 1.955250E+05 days
2281 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.58 (0.58 sec) Binary
2283 Time Step No. = 235 Elapsed Time = 1.975250E+05 days
2284 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.58 (0.58 sec) Binary
2286 Time Step No. = 236 Elapsed Time = 1.995250E+05 days
2287 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.58 (0.58 sec) Binary
2289 Time Step No. = 237 Elapsed Time = 2.015250E+05 days
2290 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.59 (0.59 sec) Binary
2292 Time Step No. = 238 Elapsed Time = 2.035250E+05 days
2293 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.59 (0.59 sec) Binary
2295 Time Step No. = 239 Elapsed Time = 2.055250E+05 days
2296 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.60 (0.60 sec) Binary
2298 Time Step No. = 240 Elapsed Time = 2.075250E+05 days
2299 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.60 (0.60 sec) Binary
2301 Time Step No. = 241 Elapsed Time = 2.095250E+05 days
2302 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.60 (0.60 sec) Binary
2304 Time Step No. = 242 Elapsed Time = 2.115250E+05 days
2305 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.61 (0.61 sec) Binary
2307 Time Step No. = 243 Elapsed Time = 2.135250E+05 days
2308 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.61 (0.61 sec) Binary
2310 Time Step No. = 244 Elapsed Time = 2.155250E+05 days

2425 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.70 (0.70 sec) Binary
2427 Time Step No. = 283 Elapsed Time = 2.935250E+05 days
2428 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.70 (0.70 sec) Binary
2430 Time Step No. = 284 Elapsed Time = 2.955250E+05 days
2431 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.70 (0.70 sec) Binary
2433 Time Step No. = 285 Elapsed Time = 2.975250E+05 days
2434 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.70 (0.70 sec) Binary
2436 Time Step No. = 286 Elapsed Time = 2.995250E+05 days
2437 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.71 (0.71 sec) Binary
2439 Time Step No. = 287 Elapsed Time = 3.015250E+05 days
2440 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.71 (0.71 sec) Binary
2442 Time Step No. = 288 Elapsed Time = 3.035250E+05 days
2443 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.71 (0.71 sec) Binary
2445 Time Step No. = 289 Elapsed Time = 3.055250E+05 days
2446 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.71 (0.71 sec) Binary
2448 Time Step No. = 290 Elapsed Time = 3.075250E+05 days
2449 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.71 (0.71 sec) Binary
2451 Time Step No. = 291 Elapsed Time = 3.095250E+05 days
2452 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2454 Time Step No. = 292 Elapsed Time = 3.115250E+05 days
2455 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2457 Time Step No. = 293 Elapsed Time = 3.135250E+05 days
2458 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2460 Time Step No. = 294 Elapsed Time = 3.155250E+05 days
2461 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2463 Time Step No. = 295 Elapsed Time = 3.175250E+05 days
2464 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2466 Time Step No. = 296 Elapsed Time = 3.195250E+05 days
2467 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2469 Time Step No. = 297 Elapsed Time = 3.215250E+05 days
2470 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 (0.73 sec) Binary
2472 Time Step No. = 298 Elapsed Time = 3.235250E+05 days
2473 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 (0.73 sec) Binary
2475 Time Step No. = 299 Elapsed Time = 3.255250E+05 days
2476 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 (0.73 sec) Binary
2478 Time Step No. = 300 Elapsed Time = 3.275250E+05 days
2479 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 (0.73 sec) Binary
2481 Time Step No. = 301 Elapsed Time = 3.295250E+05 days
2482 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 (0.73 sec) Binary
2484 Time Step No. = 302 Elapsed Time = 3.315250E+05 days
2485 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 (0.73 sec) Binary
2487 Time Step No. = 303 Elapsed Time = 3.335250E+05 days
2488 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2490 Time Step No. = 304 Elapsed Time = 3.355250E+05 days
2491 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2493 Time Step No. = 305 Elapsed Time = 3.375250E+05 days
2494 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2496 Time Step No. = 306 Elapsed Time = 3.395250E+05 days
2497 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2499 Time Step No. = 307 Elapsed Time = 3.415250E+05 days
2500 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2502 Time Step No. = 308 Elapsed Time = 3.435250E+05 days
2503 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.75 (0.75 sec) Binary
2505 Time Step No. = 309 Elapsed Time = 3.455250E+05 days
2506 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.75 (0.75 sec) Binary
2508 Time Step No. = 310 Elapsed Time = 3.475250E+05 days
2509 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.75 (0.75 sec) Binary
2511 Time Step No. = 311 Elapsed Time = 3.495250E+05 days
2512 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.75 (0.75 sec) Binary
2514 Time Step No. = 312 Elapsed Time = 3.515250E+05 days
2515 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.75 (0.75 sec) Binary
2517 Time Step No. = 313 Elapsed Time = 3.535250E+05 days
2518 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 (0.76 sec) Binary
2520 Time Step No. = 314 Elapsed Time = 3.555250E+05 days
2521 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 (0.76 sec) Binary
2523 Time Step No. = 315 Elapsed Time = 3.575250E+05 days
2524 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 (0.76 sec) Binary
2526 Time Step No. = 316 Elapsed Time = 3.595250E+05 days
2527 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 (0.76 sec) Binary
2529 Time Step No. = 317 Elapsed Time = 3.615250E+05 days
2530 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 (0.76 sec) Binary
2532 Time Step No. = 318 Elapsed Time = 3.635250E+05 days
2533 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 (0.76 sec) Binary
2536 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
2544 CPU Time (this time step) = 0.00 sec = 0.00000 hr
2545 CPU Time (total for run) = 1.06 sec = 0.00029 hr
2546 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
2544 CPU Time (this time step) = 0.01 sec = 0.00000 hr
2545 CPU Time (total for run) = 0.77 sec = 0.00021 hr
2546 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
2741 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.07 (1.07 sec) ASCII
2743 Time Step No. = 319 Elapsed Time = 3.652431E+05 days
2744 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.07 (1.07 sec) Binary
2746 Time Step No. = 320 Elapsed Time = 3.672431E+05 days
2747 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.07 (1.07 sec) Binary
2749 Time Step No. = 321 Elapsed Time = 3.692431E+05 days
2750 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.07 (1.07 sec) Binary
2752 Time Step No. = 322 Elapsed Time = 3.712431E+05 days
2753 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.07 (1.07 sec) Binary
2755 Time Step No. = 323 Elapsed Time = 3.732431E+05 days
2756 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.07 (1.07 sec) Binary
2758 Time Step No. = 324 Elapsed Time = 3.752431E+05 days
2759 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.07 (1.07 sec) Binary
2761 Time Step No. = 325 Elapsed Time = 3.772431E+05 days
2762 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.07 (1.07 sec) Binary
2764 Time Step No. = 326 Elapsed Time = 3.792431E+05 days
2765 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.08 (1.08 sec) Binary
2767 Time Step No. = 327 Elapsed Time = 3.812431E+05 days
2768 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.08 (1.08 sec) Binary
2770 Time Step No. = 328 Elapsed Time = 3.832431E+05 days
2771 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.08 (1.08 sec) Binary
2773 Time Step No. = 329 Elapsed Time = 3.852431E+05 days
2774 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.08 (1.08 sec) Binary
2776 Time Step No. = 330 Elapsed Time = 3.872431E+05 days
2777 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.09 (1.09 sec) Binary
2779 Time Step No. = 331 Elapsed Time = 3.892431E+05 days
2780 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.09 (1.09 sec) Binary
2782 Time Step No. = 332 Elapsed Time = 3.912431E+05 days
2783 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.09 (1.09 sec) Binary
2785 Time Step No. = 333 Elapsed Time = 3.932431E+05 days
2786 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.09 (1.09 sec) Binary
2788 Time Step No. = 334 Elapsed Time = 3.952431E+05 days
2789 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.10 (1.10 sec) Binary
2791 Time Step No. = 335 Elapsed Time = 3.972431E+05 days
2792 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.10 (1.10 sec) Binary
2794 Time Step No. = 336 Elapsed Time = 3.992431E+05 days
2795 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.10 (1.10 sec) Binary
2797 Time Step No. = 337 Elapsed Time = 4.012431E+05 days
2798 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.10 (1.10 sec) Binary
2800 Time Step No. = 338 Elapsed Time = 4.032431E+05 days
2801 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.11 (1.11 sec) Binary
2803 Time Step No. = 339 Elapsed Time = 4.052431E+05 days
2804 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.11 (1.11 sec) Binary
2806 Time Step No. = 340 Elapsed Time = 4.072431E+05 days
2807 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.11 (1.11 sec) Binary
2809 Time Step No. = 341 Elapsed Time = 4.092431E+05 days
2810 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.11 (1.11 sec) Binary
2812 Time Step No. = 342 Elapsed Time = 4.112431E+05 days
2813 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.12 (1.12 sec) Binary
2815 Time Step No. = 343 Elapsed Time = 4.132431E+05 days
2816 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.12 (1.12 sec) Binary
2818 Time Step No. = 344 Elapsed Time = 4.152431E+05 days
2819 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.12 (1.12 sec) Binary
2821 Time Step No. = 345 Elapsed Time = 4.172431E+05 days
2822 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.12 (1.12 sec) Binary
2824 Time Step No. = 346 Elapsed Time = 4.192431E+05 days
2825 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.13 (1.13 sec) Binary
2827 Time Step No. = 347 Elapsed Time = 4.212431E+05 days
2828 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.13 (1.13 sec) Binary
2830 Time Step No. = 348 Elapsed Time = 4.232431E+05 days
2831 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.13 (1.13 sec) Binary
2833 Time Step No. = 349 Elapsed Time = 4.252431E+05 days
2834 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.13 (1.13 sec) Binary
2836 Time Step No. = 350 Elapsed Time = 4.272431E+05 days

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2837 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
2839 Time Step No. = 351 Elapsed Time = 4.292431E+05 days
2840 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
2842 Time Step No. = 352 Elapsed Time = 4.312431E+05 days
2843 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
2845 Time Step No. = 353 Elapsed Time = 4.332431E+05 days
2846 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
2848 Time Step No. = 354 Elapsed Time = 4.352431E+05 days
2849 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
2851 Time Step No. = 355 Elapsed Time = 4.372431E+05 days
2852 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
2854 Time Step No. = 356 Elapsed Time = 4.392431E+05 days
2855 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
2857 Time Step No. = 357 Elapsed Time = 4.412431E+05 days
2858 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
2860 Time Step No. = 358 Elapsed Time = 4.432431E+05 days
2861 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
2863 Time Step No. = 359 Elapsed Time = 4.452431E+05 days
2864 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
2866 Time Step No. = 360 Elapsed Time = 4.472431E+05 days
2867 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
2869 Time Step No. = 361 Elapsed Time = 4.492431E+05 days
2870 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
2872 Time Step No. = 362 Elapsed Time = 4.512431E+05 days
2873 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
2875 Time Step No. = 363 Elapsed Time = 4.532431E+05 days
2876 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
2878 Time Step No. = 364 Elapsed Time = 4.552431E+05 days
2879 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
2882 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
2741 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) ASCII
2743 Time Step No. = 319 Elapsed Time = 3.652431E+05 days
2744 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
2746 Time Step No. = 320 Elapsed Time = 3.672431E+05 days
2747 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
2749 Time Step No. = 321 Elapsed Time = 3.692431E+05 days
2750 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
2752 Time Step No. = 322 Elapsed Time = 3.712431E+05 days
2753 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
2755 Time Step No. = 323 Elapsed Time = 3.732431E+05 days
2756 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
2758 Time Step No. = 324 Elapsed Time = 3.752431E+05 days
2759 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
2761 Time Step No. = 325 Elapsed Time = 3.772431E+05 days
2762 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
2764 Time Step No. = 326 Elapsed Time = 3.792431E+05 days
2765 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
2767 Time Step No. = 327 Elapsed Time = 3.812431E+05 days
2768 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
2770 Time Step No. = 328 Elapsed Time = 3.832431E+05 days
2771 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
2773 Time Step No. = 329 Elapsed Time = 3.852431E+05 days
2774 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
2776 Time Step No. = 330 Elapsed Time = 3.872431E+05 days
2777 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
2779 Time Step No. = 331 Elapsed Time = 3.892431E+05 days
2780 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
2782 Time Step No. = 332 Elapsed Time = 3.912431E+05 days
2783 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
2785 Time Step No. = 333 Elapsed Time = 3.932431E+05 days
2786 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
2788 Time Step No. = 334 Elapsed Time = 3.952431E+05 days
2789 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
2791 Time Step No. = 335 Elapsed Time = 3.972431E+05 days
2792 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
2794 Time Step No. = 336 Elapsed Time = 3.992431E+05 days
2795 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
2797 Time Step No. = 337 Elapsed Time = 4.012431E+05 days
2798 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
2800 Time Step No. = 338 Elapsed Time = 4.032431E+05 days
2801 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
2803 Time Step No. = 339 Elapsed Time = 4.052431E+05 days
2804 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
2806 Time Step No. = 340 Elapsed Time = 4.072431E+05 days
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2807 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
2809 Time Step No. = 341 Elapsed Time = 4.092431E+05 days
2810 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
2812 Time Step No. = 342 Elapsed Time = 4.112431E+05 days
2813 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
2815 Time Step No. = 343 Elapsed Time = 4.132431E+05 days
2816 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
2818 Time Step No. = 344 Elapsed Time = 4.152431E+05 days
2819 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
2821 Time Step No. = 345 Elapsed Time = 4.172431E+05 days
2822 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
2824 Time Step No. = 346 Elapsed Time = 4.192431E+05 days
2825 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
2827 Time Step No. = 347 Elapsed Time = 4.212431E+05 days
2828 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
2830 Time Step No. = 348 Elapsed Time = 4.232431E+05 days
2831 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
2833 Time Step No. = 349 Elapsed Time = 4.252431E+05 days
2834 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
2836 Time Step No. = 350 Elapsed Time = 4.272431E+05 days
2837 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
2839 Time Step No. = 351 Elapsed Time = 4.292431E+05 days
2840 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
2842 Time Step No. = 352 Elapsed Time = 4.312431E+05 days
2843 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
2845 Time Step No. = 353 Elapsed Time = 4.332431E+05 days
2846 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
2848 Time Step No. = 354 Elapsed Time = 4.352431E+05 days
2849 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
2851 Time Step No. = 355 Elapsed Time = 4.372431E+05 days
2852 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2854 Time Step No. = 356 Elapsed Time = 4.392431E+05 days
2855 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2857 Time Step No. = 357 Elapsed Time = 4.412431E+05 days
2858 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2860 Time Step No. = 358 Elapsed Time = 4.432431E+05 days
2861 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2863 Time Step No. = 359 Elapsed Time = 4.452431E+05 days
2864 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2866 Time Step No. = 360 Elapsed Time = 4.472431E+05 days
2867 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2869 Time Step No. = 361 Elapsed Time = 4.492431E+05 days
2870 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2872 Time Step No. = 362 Elapsed Time = 4.512431E+05 days
2873 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2875 Time Step No. = 363 Elapsed Time = 4.532431E+05 days
2876 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2878 Time Step No. = 364 Elapsed Time = 4.552431E+05 days
2879 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2882 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
2891 CPU Time (total for run) = 1.16 sec = 0.00032 hr
2892 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
2891 CPU Time (total for run) = 0.83 sec = 0.00023 hr
2892 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
3087 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) ASCII
3089 Time Step No. = 365 Elapsed Time = 4.565625E+05 days
3090 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
3092 Time Step No. = 366 Elapsed Time = 4.585625E+05 days
3093 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
3095 Time Step No. = 367 Elapsed Time = 4.605625E+05 days
3096 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
3098 Time Step No. = 368 Elapsed Time = 4.625625E+05 days
3099 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
3101 Time Step No. = 369 Elapsed Time = 4.645625E+05 days
3102 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
3104 Time Step No. = 370 Elapsed Time = 4.665625E+05 days
3105 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
3107 Time Step No. = 371 Elapsed Time = 4.685625E+05 days
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3222 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
3224 Time Step No. = 410 Elapsed Time = 5.465625E+05 days
3225 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
3228 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
3087 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) ASCII
3089 Time Step No. = 365 Elapsed Time = 4.565625E+05 days
3090 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
3092 Time Step No. = 366 Elapsed Time = 4.585625E+05 days
3093 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
3095 Time Step No. = 367 Elapsed Time = 4.605625E+05 days
3096 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
3098 Time Step No. = 368 Elapsed Time = 4.625625E+05 days
3099 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
3101 Time Step No. = 369 Elapsed Time = 4.645625E+05 days
3102 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
3104 Time Step No. = 370 Elapsed Time = 4.665625E+05 days
3105 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
3107 Time Step No. = 371 Elapsed Time = 4.685625E+05 days
3108 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
3110 Time Step No. = 372 Elapsed Time = 4.705625E+05 days
3111 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
3113 Time Step No. = 373 Elapsed Time = 4.725625E+05 days
3114 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
3116 Time Step No. = 374 Elapsed Time = 4.745625E+05 days
3117 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
3119 Time Step No. = 375 Elapsed Time = 4.765625E+05 days
3120 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
3122 Time Step No. = 376 Elapsed Time = 4.785625E+05 days
3123 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
3125 Time Step No. = 377 Elapsed Time = 4.805625E+05 days
3126 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
3128 Time Step No. = 378 Elapsed Time = 4.825625E+05 days
3129 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
3131 Time Step No. = 379 Elapsed Time = 4.845625E+05 days
3132 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
3134 Time Step No. = 380 Elapsed Time = 4.865625E+05 days
3135 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
3137 Time Step No. = 381 Elapsed Time = 4.885625E+05 days
3138 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
3140 Time Step No. = 382 Elapsed Time = 4.905625E+05 days
3141 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
3143 Time Step No. = 383 Elapsed Time = 4.925625E+05 days
3144 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
3146 Time Step No. = 384 Elapsed Time = 4.945625E+05 days
3147 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
3149 Time Step No. = 385 Elapsed Time = 4.965625E+05 days
3150 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
3152 Time Step No. = 386 Elapsed Time = 4.985625E+05 days
3153 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
3155 Time Step No. = 387 Elapsed Time = 5.005625E+05 days
3156 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
3158 Time Step No. = 388 Elapsed Time = 5.025625E+05 days
3159 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
3161 Time Step No. = 389 Elapsed Time = 5.045625E+05 days
3162 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
3164 Time Step No. = 390 Elapsed Time = 5.065625E+05 days
3165 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
3167 Time Step No. = 391 Elapsed Time = 5.085625E+05 days
3168 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
3170 Time Step No. = 392 Elapsed Time = 5.105625E+05 days
3171 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
3173 Time Step No. = 393 Elapsed Time = 5.125625E+05 days
3174 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
3176 Time Step No. = 394 Elapsed Time = 5.145625E+05 days
3177 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
3179 Time Step No. = 395 Elapsed Time = 5.165625E+05 days
3180 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
3182 Time Step No. = 396 Elapsed Time = 5.185625E+05 days
3183 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
3185 Time Step No. = 397 Elapsed Time = 5.205625E+05 days
3186 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
3188 Time Step No. = 398 Elapsed Time = 5.225625E+05 days
3189 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
3191 Time Step No. = 399 Elapsed Time = 5.245625E+05 days
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3192 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
3194 Time Step No. = 400 Elapsed Time = 5.265625E+05 days
3195 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
3197 Time Step No. = 401 Elapsed Time = 5.285625E+05 days
3198 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
3200 Time Step No. = 402 Elapsed Time = 5.305625E+05 days
3201 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
3203 Time Step No. = 403 Elapsed Time = 5.325625E+05 days
3204 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
3206 Time Step No. = 404 Elapsed Time = 5.345625E+05 days
3207 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
3209 Time Step No. = 405 Elapsed Time = 5.365625E+05 days
3210 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
3212 Time Step No. = 406 Elapsed Time = 5.385625E+05 days
3213 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
3215 Time Step No. = 407 Elapsed Time = 5.405625E+05 days
3216 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
3218 Time Step No. = 408 Elapsed Time = 5.425625E+05 days
3219 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
3221 Time Step No. = 409 Elapsed Time = 5.445625E+05 days
3222 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
3224 Time Step No. = 410 Elapsed Time = 5.465625E+05 days
3225 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
3228 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
3236 CPU Time (this time step) = 0.01 sec = 0.00000 hr
3237 CPU Time (total for run) = 1.25 sec = 0.00035 hr
3238 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
3236 CPU Time (this time step) = 0.00 sec = 0.00000 hr
3237 CPU Time (total for run) = 0.91 sec = 0.00025 hr
3238 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
3433 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) ASCII
3435 Time Step No. = 411 Elapsed Time = 5.478704E+05 days
3436 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
3438 Time Step No. = 412 Elapsed Time = 5.498704E+05 days
3439 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
3441 Time Step No. = 413 Elapsed Time = 5.518704E+05 days
3442 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
3444 Time Step No. = 414 Elapsed Time = 5.538704E+05 days
3445 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
3447 Time Step No. = 415 Elapsed Time = 5.558704E+05 days
3448 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
3450 Time Step No. = 416 Elapsed Time = 5.578704E+05 days
3451 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
3453 Time Step No. = 417 Elapsed Time = 5.598704E+05 days
3454 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
3456 Time Step No. = 418 Elapsed Time = 5.618704E+05 days
3457 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
3459 Time Step No. = 419 Elapsed Time = 5.638704E+05 days
3460 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
3462 Time Step No. = 420 Elapsed Time = 5.658704E+05 days
3463 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
3465 Time Step No. = 421 Elapsed Time = 5.678704E+05 days
3466 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
3468 Time Step No. = 422 Elapsed Time = 5.698704E+05 days
3469 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
3471 Time Step No. = 423 Elapsed Time = 5.718704E+05 days
3472 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
3474 Time Step No. = 424 Elapsed Time = 5.738704E+05 days
3475 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
3477 Time Step No. = 425 Elapsed Time = 5.758704E+05 days
3478 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
3480 Time Step No. = 426 Elapsed Time = 5.778704E+05 days
3481 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
3483 Time Step No. = 427 Elapsed Time = 5.798704E+05 days
3484 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
3486 Time Step No. = 428 Elapsed Time = 5.818704E+05 days
3487 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
3489 Time Step No. = 429 Elapsed Time = 5.838704E+05 days
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3490 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.28 (1.28 sec) Binary
3492 Time Step No. = 430 Elapsed Time = 5.858704E+05 days
3493 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.28 (1.28 sec) Binary
3495 Time Step No. = 431 Elapsed Time = 5.878704E+05 days
3496 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.29 (1.29 sec) Binary
3498 Time Step No. = 432 Elapsed Time = 5.898704E+05 days
3499 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.29 (1.29 sec) Binary
3501 Time Step No. = 433 Elapsed Time = 5.918704E+05 days
3502 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.29 (1.29 sec) Binary
3504 Time Step No. = 434 Elapsed Time = 5.938704E+05 days
3505 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.29 (1.29 sec) Binary
3507 Time Step No. = 435 Elapsed Time = 5.958704E+05 days
3508 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.29 (1.29 sec) Binary
3510 Time Step No. = 436 Elapsed Time = 5.978704E+05 days
3511 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.30 (1.30 sec) Binary
3513 Time Step No. = 437 Elapsed Time = 5.998704E+05 days
3514 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.30 (1.30 sec) Binary
3516 Time Step No. = 438 Elapsed Time = 6.018704E+05 days
3517 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.30 (1.30 sec) Binary
3519 Time Step No. = 439 Elapsed Time = 6.038704E+05 days
3520 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.30 (1.30 sec) Binary
3522 Time Step No. = 440 Elapsed Time = 6.058704E+05 days
3523 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.30 (1.30 sec) Binary
3525 Time Step No. = 441 Elapsed Time = 6.078704E+05 days
3526 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.31 (1.31 sec) Binary
3528 Time Step No. = 442 Elapsed Time = 6.098704E+05 days
3529 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.31 (1.31 sec) Binary
3531 Time Step No. = 443 Elapsed Time = 6.118704E+05 days
3532 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.31 (1.31 sec) Binary
3534 Time Step No. = 444 Elapsed Time = 6.138704E+05 days
3535 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.31 (1.31 sec) Binary
3537 Time Step No. = 445 Elapsed Time = 6.158704E+05 days
3538 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.31 (1.31 sec) Binary
3540 Time Step No. = 446 Elapsed Time = 6.178704E+05 days
3541 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.32 (1.32 sec) Binary
3543 Time Step No. = 447 Elapsed Time = 6.198704E+05 days
3544 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.32 (1.32 sec) Binary
3546 Time Step No. = 448 Elapsed Time = 6.218704E+05 days
3547 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.32 (1.32 sec) Binary
3549 Time Step No. = 449 Elapsed Time = 6.238704E+05 days
3550 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.32 (1.32 sec) Binary
3552 Time Step No. = 450 Elapsed Time = 6.258704E+05 days
3553 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.32 (1.32 sec) Binary
3555 Time Step No. = 451 Elapsed Time = 6.278704E+05 days
3556 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.33 (1.33 sec) Binary
3558 Time Step No. = 452 Elapsed Time = 6.298704E+05 days
3559 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.33 (1.33 sec) Binary
3561 Time Step No. = 453 Elapsed Time = 6.318704E+05 days
3562 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.33 (1.33 sec) Binary
3564 Time Step No. = 454 Elapsed Time = 6.338704E+05 days
3565 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.33 (1.33 sec) Binary
3567 Time Step No. = 455 Elapsed Time = 6.358704E+05 days
3568 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.33 (1.33 sec) Binary
3570 Time Step No. = 456 Elapsed Time = 6.378704E+05 days
3571 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.34 (1.34 sec) Binary
3574 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1

3433 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 (0.91 sec) ASCII
3435 Time Step No. = 411 Elapsed Time = 5.478704E+05 days
3436 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 (0.91 sec) Binary
3438 Time Step No. = 412 Elapsed Time = 5.498704E+05 days
3439 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 (0.91 sec) Binary
3441 Time Step No. = 413 Elapsed Time = 5.518704E+05 days
3442 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 (0.91 sec) Binary
3444 Time Step No. = 414 Elapsed Time = 5.538704E+05 days
3445 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 (0.92 sec) Binary
3447 Time Step No. = 415 Elapsed Time = 5.558704E+05 days
3448 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 (0.92 sec) Binary
3450 Time Step No. = 416 Elapsed Time = 5.578704E+05 days
3451 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 (0.92 sec) Binary
3453 Time Step No. = 417 Elapsed Time = 5.598704E+05 days
3454 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 (0.92 sec) Binary
3456 Time Step No. = 418 Elapsed Time = 5.618704E+05 days
3457 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 (0.92 sec) Binary
3459 Time Step No. = 419 Elapsed Time = 5.638704E+05 days

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
3583 CPU Time (total for run) = 1.34 sec = 0.00037 hr
3584 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
3583 CPU Time (total for run) = 0.98 sec = 0.00027 hr
3584 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
3779 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.34 (1.34 sec) ASCII
3781 Time Step No. = 457 Elapsed Time = 6.391898E+05 days
3782 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.34 (1.34 sec) Binary
3784 Time Step No. = 458 Elapsed Time = 6.411898E+05 days
3785 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.35 (1.35 sec) Binary
3787 Time Step No. = 459 Elapsed Time = 6.431898E+05 days
3788 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.35 (1.35 sec) Binary
3790 Time Step No. = 460 Elapsed Time = 6.451898E+05 days
3791 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.35 (1.35 sec) Binary
3793 Time Step No. = 461 Elapsed Time = 6.471898E+05 days
3794 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.35 (1.35 sec) Binary
3796 Time Step No. = 462 Elapsed Time = 6.491898E+05 days
3797 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.36 (1.36 sec) Binary
3799 Time Step No. = 463 Elapsed Time = 6.511898E+05 days
3800 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.36 (1.36 sec) Binary
3802 Time Step No. = 464 Elapsed Time = 6.531898E+05 days
3803 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.36 (1.36 sec) Binary
3805 Time Step No. = 465 Elapsed Time = 6.551898E+05 days
3806 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.36 (1.36 sec) Binary
3808 Time Step No. = 466 Elapsed Time = 6.571898E+05 days
3809 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.36 (1.36 sec) Binary
3811 Time Step No. = 467 Elapsed Time = 6.591898E+05 days
3812 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.36 (1.36 sec) Binary
3814 Time Step No. = 468 Elapsed Time = 6.611898E+05 days
3815 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.37 (1.37 sec) Binary
3817 Time Step No. = 469 Elapsed Time = 6.631898E+05 days
3818 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.37 (1.37 sec) Binary
3820 Time Step No. = 470 Elapsed Time = 6.651898E+05 days
3821 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.37 (1.37 sec) Binary
3823 Time Step No. = 471 Elapsed Time = 6.671898E+05 days
3824 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.37 (1.37 sec) Binary
3826 Time Step No. = 472 Elapsed Time = 6.691898E+05 days
3827 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.38 (1.38 sec) Binary
3829 Time Step No. = 473 Elapsed Time = 6.711898E+05 days
3830 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.38 (1.38 sec) Binary
3832 Time Step No. = 474 Elapsed Time = 6.731898E+05 days
3833 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.38 (1.38 sec) Binary
3835 Time Step No. = 475 Elapsed Time = 6.751898E+05 days
3836 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.38 (1.38 sec) Binary
3838 Time Step No. = 476 Elapsed Time = 6.771898E+05 days
3839 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.38 (1.38 sec) Binary
3841 Time Step No. = 477 Elapsed Time = 6.791898E+05 days
3842 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.39 (1.39 sec) Binary
3844 Time Step No. = 478 Elapsed Time = 6.811898E+05 days
3845 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.39 (1.39 sec) Binary
3847 Time Step No. = 479 Elapsed Time = 6.831898E+05 days
3848 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.39 (1.39 sec) Binary
3850 Time Step No. = 480 Elapsed Time = 6.851898E+05 days
3851 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.39 (1.39 sec) Binary
3853 Time Step No. = 481 Elapsed Time = 6.871898E+05 days
3854 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.39 (1.39 sec) Binary
3856 Time Step No. = 482 Elapsed Time = 6.891898E+05 days
3857 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.40 (1.40 sec) Binary
3859 Time Step No. = 483 Elapsed Time = 6.911898E+05 days
3860 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.40 (1.40 sec) Binary
3862 Time Step No. = 484 Elapsed Time = 6.931898E+05 days
3863 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.40 (1.40 sec) Binary
3865 Time Step No. = 485 Elapsed Time = 6.951898E+05 days
3866 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.40 (1.40 sec) Binary
3868 Time Step No. = 486 Elapsed Time = 6.971898E+05 days
3869 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.40 (1.40 sec) Binary
3871 Time Step No. = 487 Elapsed Time = 6.991898E+05 days
3872 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.41 (1.41 sec) Binary
3874 Time Step No. = 488 Elapsed Time = 7.011898E+05 days

3875 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.41 (1.41 sec) Binary
3877 Time Step No. = 489 Elapsed Time = 7.031898E+05 days
3878 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.41 (1.41 sec) Binary
3880 Time Step No. = 490 Elapsed Time = 7.051898E+05 days
3881 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.41 (1.41 sec) Binary
3883 Time Step No. = 491 Elapsed Time = 7.071898E+05 days
3884 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.42 (1.42 sec) Binary
3886 Time Step No. = 492 Elapsed Time = 7.091898E+05 days
3887 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.42 (1.42 sec) Binary
3889 Time Step No. = 493 Elapsed Time = 7.111898E+05 days
3890 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.42 (1.42 sec) Binary
3892 Time Step No. = 494 Elapsed Time = 7.131898E+05 days
3893 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.42 (1.42 sec) Binary
3895 Time Step No. = 495 Elapsed Time = 7.151898E+05 days
3896 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.43 (1.43 sec) Binary
3898 Time Step No. = 496 Elapsed Time = 7.171898E+05 days
3899 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.43 (1.43 sec) Binary
3901 Time Step No. = 497 Elapsed Time = 7.191898E+05 days
3902 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.43 (1.43 sec) Binary
3904 Time Step No. = 498 Elapsed Time = 7.211898E+05 days
3905 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.43 (1.43 sec) Binary
3907 Time Step No. = 499 Elapsed Time = 7.231898E+05 days
3908 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.44 (1.44 sec) Binary
3910 Time Step No. = 500 Elapsed Time = 7.251898E+05 days
3911 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.44 (1.44 sec) Binary
3913 Time Step No. = 501 Elapsed Time = 7.271898E+05 days
3914 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.44 (1.44 sec) Binary
3916 Time Step No. = 502 Elapsed Time = 7.291898E+05 days
3917 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.44 (1.44 sec) Binary
3920 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1

3779 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 (0.99 sec) ASCII
3781 Time Step No. = 457 Elapsed Time = 6.391898E+05 days
3782 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 (0.99 sec) Binary
3784 Time Step No. = 458 Elapsed Time = 6.411898E+05 days
3785 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 (0.99 sec) Binary
3787 Time Step No. = 459 Elapsed Time = 6.431898E+05 days
3788 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 (0.99 sec) Binary
3790 Time Step No. = 460 Elapsed Time = 6.451898E+05 days
3791 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 (0.99 sec) Binary
3793 Time Step No. = 461 Elapsed Time = 6.471898E+05 days
3794 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 (0.99 sec) Binary
3796 Time Step No. = 462 Elapsed Time = 6.491898E+05 days
3797 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 (0.99 sec) Binary
3799 Time Step No. = 463 Elapsed Time = 6.511898E+05 days
3800 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 (0.99 sec) Binary
3802 Time Step No. = 464 Elapsed Time = 6.531898E+05 days
3803 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 (0.99 sec) Binary
3805 Time Step No. = 465 Elapsed Time = 6.551898E+05 days
3806 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 (0.99 sec) Binary
3808 Time Step No. = 466 Elapsed Time = 6.571898E+05 days
3809 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 (0.99 sec) Binary
3811 Time Step No. = 467 Elapsed Time = 6.591898E+05 days
3812 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.00 (1.00 sec) Binary
3814 Time Step No. = 468 Elapsed Time = 6.611898E+05 days
3815 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.00 (1.00 sec) Binary
3817 Time Step No. = 469 Elapsed Time = 6.631898E+05 days
3818 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.00 (1.00 sec) Binary
3820 Time Step No. = 470 Elapsed Time = 6.651898E+05 days
3821 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.00 (1.00 sec) Binary
3823 Time Step No. = 471 Elapsed Time = 6.671898E+05 days
3824 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 (1.01 sec) Binary
3826 Time Step No. = 472 Elapsed Time = 6.691898E+05 days
3827 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 (1.01 sec) Binary
3829 Time Step No. = 473 Elapsed Time = 6.711898E+05 days
3830 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 (1.01 sec) Binary
3832 Time Step No. = 474 Elapsed Time = 6.731898E+05 days
3833 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 (1.01 sec) Binary
3835 Time Step No. = 475 Elapsed Time = 6.751898E+05 days
3836 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 (1.01 sec) Binary
3838 Time Step No. = 476 Elapsed Time = 6.771898E+05 days
3839 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 (1.01 sec) Binary
3841 Time Step No. = 477 Elapsed Time = 6.791898E+05 days
3842 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 (1.01 sec) Binary
3844 Time Step No. = 478 Elapsed Time = 6.811898E+05 days

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3845 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
3847 Time Step No. = 479 Elapsed Time = 6.831898E+05 days
3848 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
3850 Time Step No. = 480 Elapsed Time = 6.851898E+05 days
3851 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
3853 Time Step No. = 481 Elapsed Time = 6.871898E+05 days
3854 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
3856 Time Step No. = 482 Elapsed Time = 6.891898E+05 days
3857 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
3859 Time Step No. = 483 Elapsed Time = 6.911898E+05 days
3860 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
3862 Time Step No. = 484 Elapsed Time = 6.931898E+05 days
3863 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
3865 Time Step No. = 485 Elapsed Time = 6.951898E+05 days
3866 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
3868 Time Step No. = 486 Elapsed Time = 6.971898E+05 days
3869 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
3871 Time Step No. = 487 Elapsed Time = 6.991898E+05 days
3872 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
3874 Time Step No. = 488 Elapsed Time = 7.011898E+05 days
3875 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
3877 Time Step No. = 489 Elapsed Time = 7.031898E+05 days
3878 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
3880 Time Step No. = 490 Elapsed Time = 7.051898E+05 days
3881 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
3883 Time Step No. = 491 Elapsed Time = 7.071898E+05 days
3884 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
3886 Time Step No. = 492 Elapsed Time = 7.091898E+05 days
3887 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
3889 Time Step No. = 493 Elapsed Time = 7.111898E+05 days
3890 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
3892 Time Step No. = 494 Elapsed Time = 7.131898E+05 days
3893 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
3895 Time Step No. = 495 Elapsed Time = 7.151898E+05 days
3896 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
3898 Time Step No. = 496 Elapsed Time = 7.171898E+05 days
3899 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
3901 Time Step No. = 497 Elapsed Time = 7.191898E+05 days
3902 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
3904 Time Step No. = 498 Elapsed Time = 7.211898E+05 days
3905 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
3907 Time Step No. = 499 Elapsed Time = 7.231898E+05 days
3908 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
3910 Time Step No. = 500 Elapsed Time = 7.251898E+05 days
3911 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
3913 Time Step No. = 501 Elapsed Time = 7.271898E+05 days
3914 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
3916 Time Step No. = 502 Elapsed Time = 7.291898E+05 days
3917 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
3920 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
3928 CPU Time (this time step) = 0.01 sec = 0.00000 hr
3929 CPU Time (total for run) = 1.45 sec = 0.00040 hr
3930 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
3928 CPU Time (this time step) = 0.00 sec = 0.00000 hr
3929 CPU Time (total for run) = 1.06 sec = 0.00029 hr
3930 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
4125 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) ASCII
4127 Time Step No. = 503 Elapsed Time = 7.305093E+05 days
4128 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
4130 Time Step No. = 504 Elapsed Time = 7.325093E+05 days
4131 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
4133 Time Step No. = 505 Elapsed Time = 7.345093E+05 days
4134 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
4136 Time Step No. = 506 Elapsed Time = 7.365093E+05 days
4137 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
4139 Time Step No. = 507 Elapsed Time = 7.385093E+05 days
4140 Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
4142 Time Step No. = 508 Elapsed Time = 7.405093E+05 days
```


4485 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.74 (1.74 sec) Binary
4487 Time Step No. = 623 Elapsed Time = 9.705093E+05 days
4488 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.74 (1.74 sec) Binary
4490 Time Step No. = 624 Elapsed Time = 9.725093E+05 days
4491 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.74 (1.74 sec) Binary
4493 Time Step No. = 625 Elapsed Time = 9.745093E+05 days
4494 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.75 (1.75 sec) Binary
4496 Time Step No. = 626 Elapsed Time = 9.765093E+05 days
4497 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.75 (1.75 sec) Binary
4499 Time Step No. = 627 Elapsed Time = 9.785093E+05 days
4500 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.75 (1.75 sec) Binary
4502 Time Step No. = 628 Elapsed Time = 9.805093E+05 days
4503 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.75 (1.75 sec) Binary
4505 Time Step No. = 629 Elapsed Time = 9.825093E+05 days
4506 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.75 (1.75 sec) Binary
4508 Time Step No. = 630 Elapsed Time = 9.845093E+05 days
4509 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.76 (1.76 sec) Binary
4511 Time Step No. = 631 Elapsed Time = 9.865093E+05 days
4512 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.76 (1.76 sec) Binary
4514 Time Step No. = 632 Elapsed Time = 9.885093E+05 days
4515 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.76 (1.76 sec) Binary
4517 Time Step No. = 633 Elapsed Time = 9.905093E+05 days
4518 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.76 (1.76 sec) Binary
4520 Time Step No. = 634 Elapsed Time = 9.925093E+05 days
4521 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
4523 Time Step No. = 635 Elapsed Time = 9.945093E+05 days
4524 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
4526 Time Step No. = 636 Elapsed Time = 9.965093E+05 days
4527 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
4529 Time Step No. = 637 Elapsed Time = 9.985093E+05 days
4530 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
4532 Time Step No. = 638 Elapsed Time = 1.000509E+06 days
4533 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.78 (1.78 sec) Binary
4535 Time Step No. = 639 Elapsed Time = 1.002509E+06 days
4536 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.78 (1.78 sec) Binary
4538 Time Step No. = 640 Elapsed Time = 1.004509E+06 days
4539 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.78 (1.78 sec) Binary
4541 Time Step No. = 641 Elapsed Time = 1.006509E+06 days
4542 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.78 (1.78 sec) Binary
4544 Time Step No. = 642 Elapsed Time = 1.008509E+06 days
4545 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.78 (1.78 sec) Binary
4547 Time Step No. = 643 Elapsed Time = 1.010509E+06 days
4548 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.79 (1.79 sec) Binary
4550 Time Step No. = 644 Elapsed Time = 1.012509E+06 days
4551 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.79 (1.79 sec) Binary
4553 Time Step No. = 645 Elapsed Time = 1.014509E+06 days
4554 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.79 (1.79 sec) Binary
4556 Time Step No. = 646 Elapsed Time = 1.016509E+06 days
4557 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.79 (1.79 sec) Binary
4559 Time Step No. = 647 Elapsed Time = 1.018509E+06 days
4560 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.80 (1.80 sec) Binary
4562 Time Step No. = 648 Elapsed Time = 1.020509E+06 days
4563 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.80 (1.80 sec) Binary
4565 Time Step No. = 649 Elapsed Time = 1.022509E+06 days
4566 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.80 (1.80 sec) Binary
4568 Time Step No. = 650 Elapsed Time = 1.024509E+06 days
4569 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.80 (1.80 sec) Binary
4571 Time Step No. = 651 Elapsed Time = 1.026509E+06 days
4572 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.80 (1.80 sec) Binary
4574 Time Step No. = 652 Elapsed Time = 1.028509E+06 days
4575 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.81 (1.81 sec) Binary
4577 Time Step No. = 653 Elapsed Time = 1.030509E+06 days
4578 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.81 (1.81 sec) Binary
4580 Time Step No. = 654 Elapsed Time = 1.032509E+06 days
4581 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.81 (1.81 sec) Binary
4583 Time Step No. = 655 Elapsed Time = 1.034509E+06 days
4584 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.81 (1.81 sec) Binary
4586 Time Step No. = 656 Elapsed Time = 1.036509E+06 days
4587 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.81 (1.81 sec) Binary
4589 Time Step No. = 657 Elapsed Time = 1.038509E+06 days
4590 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.82 (1.82 sec) Binary
4592 Time Step No. = 658 Elapsed Time = 1.040509E+06 days
4593 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.82 (1.82 sec) Binary
4595 Time Step No. = 659 Elapsed Time = 1.042509E+06 days
4596 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.82 (1.82 sec) Binary
4598 Time Step No. = 660 Elapsed Time = 1.044509E+06 days

4599 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.82 (1.82 sec) Binary
4601 Time Step No. = 661 Elapsed Time = 1.046509E+06 days
4602 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.82 (1.82 sec) Binary
4604 Time Step No. = 662 Elapsed Time = 1.048509E+06 days
4605 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.83 (1.83 sec) Binary
4607 Time Step No. = 663 Elapsed Time = 1.050509E+06 days
4608 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.83 (1.83 sec) Binary
4610 Time Step No. = 664 Elapsed Time = 1.052509E+06 days
4611 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.83 (1.83 sec) Binary
4613 Time Step No. = 665 Elapsed Time = 1.054509E+06 days
4614 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.83 (1.83 sec) Binary
4616 Time Step No. = 666 Elapsed Time = 1.056509E+06 days
4617 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.84 (1.84 sec) Binary
4619 Time Step No. = 667 Elapsed Time = 1.058509E+06 days
4620 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.84 (1.84 sec) Binary
4622 Time Step No. = 668 Elapsed Time = 1.060509E+06 days
4623 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.84 (1.84 sec) Binary
4625 Time Step No. = 669 Elapsed Time = 1.062509E+06 days
4626 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.84 (1.84 sec) Binary
4628 Time Step No. = 670 Elapsed Time = 1.064509E+06 days
4629 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.84 (1.84 sec) Binary
4631 Time Step No. = 671 Elapsed Time = 1.066509E+06 days
4632 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.84 (1.84 sec) Binary
4634 Time Step No. = 672 Elapsed Time = 1.068509E+06 days
4635 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.84 (1.84 sec) Binary
4637 Time Step No. = 673 Elapsed Time = 1.070509E+06 days
4638 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.84 (1.84 sec) Binary
4640 Time Step No. = 674 Elapsed Time = 1.072509E+06 days
4641 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.84 (1.84 sec) Binary
4643 Time Step No. = 675 Elapsed Time = 1.074509E+06 days
4644 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.85 (1.85 sec) Binary
4646 Time Step No. = 676 Elapsed Time = 1.076509E+06 days
4647 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.85 (1.85 sec) Binary
4649 Time Step No. = 677 Elapsed Time = 1.078509E+06 days
4650 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.85 (1.85 sec) Binary
4652 Time Step No. = 678 Elapsed Time = 1.080509E+06 days
4653 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.85 (1.85 sec) Binary
4655 Time Step No. = 679 Elapsed Time = 1.082509E+06 days
4656 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.85 (1.85 sec) Binary
4658 Time Step No. = 680 Elapsed Time = 1.084509E+06 days
4659 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.85 (1.85 sec) Binary
4661 Time Step No. = 681 Elapsed Time = 1.086509E+06 days
4662 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.86 (1.86 sec) Binary
4664 Time Step No. = 682 Elapsed Time = 1.088509E+06 days
4665 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.86 (1.86 sec) Binary
4667 Time Step No. = 683 Elapsed Time = 1.090509E+06 days
4668 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.86 (1.86 sec) Binary
4670 Time Step No. = 684 Elapsed Time = 1.092509E+06 days
4671 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.86 (1.86 sec) Binary
4673 Time Step No. = 685 Elapsed Time = 1.094509E+06 days
4674 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.87 (1.87 sec) Binary
4677 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
4125 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 (1.06 sec) ASCII
4127 Time Step No. = 503 Elapsed Time = 7.305093E+05 days
4128 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 (1.06 sec) Binary
4130 Time Step No. = 504 Elapsed Time = 7.325093E+05 days
4131 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 (1.06 sec) Binary
4133 Time Step No. = 505 Elapsed Time = 7.345093E+05 days
4134 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.07 (1.07 sec) Binary
4136 Time Step No. = 506 Elapsed Time = 7.365093E+05 days
4137 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.07 (1.07 sec) Binary
4139 Time Step No. = 507 Elapsed Time = 7.385093E+05 days
4140 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.07 (1.07 sec) Binary
4142 Time Step No. = 508 Elapsed Time = 7.405093E+05 days
4143 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.07 (1.07 sec) Binary
4145 Time Step No. = 509 Elapsed Time = 7.425093E+05 days
4146 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.08 (1.08 sec) Binary
4148 Time Step No. = 510 Elapsed Time = 7.445093E+05 days
4149 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.08 (1.08 sec) Binary
4151 Time Step No. = 511 Elapsed Time = 7.465093E+05 days
4152 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.08 (1.08 sec) Binary
4154 Time Step No. = 512 Elapsed Time = 7.485093E+05 days
4155 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.08 (1.08 sec) Binary
4157 Time Step No. = 513 Elapsed Time = 7.505093E+05 days


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4614 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
4616 Time Step No. = 666 Elapsed Time = 1.056509E+06 days
4617 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
4619 Time Step No. = 667 Elapsed Time = 1.058509E+06 days
4620 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
4622 Time Step No. = 668 Elapsed Time = 1.060509E+06 days
4623 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
4625 Time Step No. = 669 Elapsed Time = 1.062509E+06 days
4626 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
4628 Time Step No. = 670 Elapsed Time = 1.064509E+06 days
4629 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
4631 Time Step No. = 671 Elapsed Time = 1.066509E+06 days
4632 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
4634 Time Step No. = 672 Elapsed Time = 1.068509E+06 days
4635 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
4637 Time Step No. = 673 Elapsed Time = 1.070509E+06 days
4638 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
4640 Time Step No. = 674 Elapsed Time = 1.072509E+06 days
4641 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
4643 Time Step No. = 675 Elapsed Time = 1.074509E+06 days
4644 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4646 Time Step No. = 676 Elapsed Time = 1.076509E+06 days
4647 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4649 Time Step No. = 677 Elapsed Time = 1.078509E+06 days
4650 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4652 Time Step No. = 678 Elapsed Time = 1.080509E+06 days
4653 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4655 Time Step No. = 679 Elapsed Time = 1.082509E+06 days
4656 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4658 Time Step No. = 680 Elapsed Time = 1.084509E+06 days
4659 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4661 Time Step No. = 681 Elapsed Time = 1.086509E+06 days
4662 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4664 Time Step No. = 682 Elapsed Time = 1.088509E+06 days
4665 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4667 Time Step No. = 683 Elapsed Time = 1.090509E+06 days
4668 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4670 Time Step No. = 684 Elapsed Time = 1.092509E+06 days
4671 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4673 Time Step No. = 685 Elapsed Time = 1.094509E+06 days
4674 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4677 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
4685 CPU Time (this time step) = 0.01 sec = 0.00000 hr
4686 CPU Time (total for run) = 1.87 sec = 0.00052 hr
4687 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
4685 CPU Time (this time step) = 0.00 sec = 0.00000 hr
4686 CPU Time (total for run) = 1.35 sec = 0.00038 hr
4687 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
4882 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.87 ( 1.87 sec) ASCII
4884 Time Step No. = 686 Elapsed Time = 1.095752E+06 days
4885 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.87 ( 1.87 sec) Binary
4887 Time Step No. = 687 Elapsed Time = 1.097752E+06 days
4888 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
4890 Time Step No. = 688 Elapsed Time = 1.099752E+06 days
4891 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
4893 Time Step No. = 689 Elapsed Time = 1.101752E+06 days
4894 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
4896 Time Step No. = 690 Elapsed Time = 1.103752E+06 days
4897 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
4899 Time Step No. = 691 Elapsed Time = 1.105752E+06 days
4900 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
4902 Time Step No. = 692 Elapsed Time = 1.107752E+06 days
4903 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
4905 Time Step No. = 693 Elapsed Time = 1.109752E+06 days
4906 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
4908 Time Step No. = 694 Elapsed Time = 1.111752E+06 days
4909 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
4911 Time Step No. = 695 Elapsed Time = 1.113752E+06 days
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4912 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.89 (1.89 sec) Binary
4914 Time Step No. = 696 Elapsed Time = 1.115752E+06 days
4915 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.89 (1.89 sec) Binary
4917 Time Step No. = 697 Elapsed Time = 1.117752E+06 days
4918 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.90 (1.90 sec) Binary
4920 Time Step No. = 698 Elapsed Time = 1.119752E+06 days
4921 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.90 (1.90 sec) Binary
4923 Time Step No. = 699 Elapsed Time = 1.121752E+06 days
4924 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.90 (1.90 sec) Binary
4926 Time Step No. = 700 Elapsed Time = 1.123752E+06 days
4927 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.90 (1.90 sec) Binary
4929 Time Step No. = 701 Elapsed Time = 1.125752E+06 days
4930 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.91 (1.91 sec) Binary
4932 Time Step No. = 702 Elapsed Time = 1.127752E+06 days
4933 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.91 (1.91 sec) Binary
4935 Time Step No. = 703 Elapsed Time = 1.129752E+06 days
4936 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.91 (1.91 sec) Binary
4938 Time Step No. = 704 Elapsed Time = 1.131752E+06 days
4939 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.91 (1.91 sec) Binary
4941 Time Step No. = 705 Elapsed Time = 1.133752E+06 days
4942 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.91 (1.91 sec) Binary
4944 Time Step No. = 706 Elapsed Time = 1.135752E+06 days
4945 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.92 (1.92 sec) Binary
4947 Time Step No. = 707 Elapsed Time = 1.137752E+06 days
4948 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.92 (1.92 sec) Binary
4950 Time Step No. = 708 Elapsed Time = 1.139752E+06 days
4951 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.92 (1.92 sec) Binary
4953 Time Step No. = 709 Elapsed Time = 1.141752E+06 days
4954 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.92 (1.92 sec) Binary
4956 Time Step No. = 710 Elapsed Time = 1.143752E+06 days
4957 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.92 (1.92 sec) Binary
4959 Time Step No. = 711 Elapsed Time = 1.145752E+06 days
4960 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.93 (1.93 sec) Binary
4962 Time Step No. = 712 Elapsed Time = 1.147752E+06 days
4963 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.93 (1.93 sec) Binary
4965 Time Step No. = 713 Elapsed Time = 1.149752E+06 days
4966 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.93 (1.93 sec) Binary
4968 Time Step No. = 714 Elapsed Time = 1.151752E+06 days
4969 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.93 (1.93 sec) Binary
4971 Time Step No. = 715 Elapsed Time = 1.153752E+06 days
4972 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.93 (1.93 sec) Binary
4974 Time Step No. = 716 Elapsed Time = 1.155752E+06 days
4975 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.94 (1.94 sec) Binary
4977 Time Step No. = 717 Elapsed Time = 1.157752E+06 days
4978 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.94 (1.94 sec) Binary
4980 Time Step No. = 718 Elapsed Time = 1.159752E+06 days
4981 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.94 (1.94 sec) Binary
4983 Time Step No. = 719 Elapsed Time = 1.161752E+06 days
4984 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.94 (1.94 sec) Binary
4986 Time Step No. = 720 Elapsed Time = 1.163752E+06 days
4987 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.94 (1.94 sec) Binary
4989 Time Step No. = 721 Elapsed Time = 1.165752E+06 days
4990 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.94 (1.94 sec) Binary
4992 Time Step No. = 722 Elapsed Time = 1.167752E+06 days
4993 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.94 (1.94 sec) Binary
4995 Time Step No. = 723 Elapsed Time = 1.169752E+06 days
4996 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.94 (1.94 sec) Binary
4998 Time Step No. = 724 Elapsed Time = 1.171752E+06 days
4999 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.95 (1.95 sec) Binary
5001 Time Step No. = 725 Elapsed Time = 1.173752E+06 days
5002 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.95 (1.95 sec) Binary
5004 Time Step No. = 726 Elapsed Time = 1.175752E+06 days
5005 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.95 (1.95 sec) Binary
5007 Time Step No. = 727 Elapsed Time = 1.177752E+06 days
5008 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.96 (1.96 sec) Binary
5010 Time Step No. = 728 Elapsed Time = 1.179752E+06 days
5011 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.96 (1.96 sec) Binary
5013 Time Step No. = 729 Elapsed Time = 1.181752E+06 days
5014 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.96 (1.96 sec) Binary
5016 Time Step No. = 730 Elapsed Time = 1.183752E+06 days
5017 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.97 (1.97 sec) Binary
5019 Time Step No. = 731 Elapsed Time = 1.185752E+06 days
5020 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.97 (1.97 sec) Binary
5022 Time Step No. = 732 Elapsed Time = 1.187752E+06 days
5023 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.97 (1.97 sec) Binary
5025 Time Step No. = 733 Elapsed Time = 1.189752E+06 days

5026 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.97 (1.97 sec) Binary
5028 Time Step No. = 734 Elapsed Time = 1.191752E+06 days
5029 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.97 (1.97 sec) Binary
5031 Time Step No. = 735 Elapsed Time = 1.193752E+06 days
5032 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.98 (1.98 sec) Binary
5034 Time Step No. = 736 Elapsed Time = 1.195752E+06 days
5035 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.98 (1.98 sec) Binary
5037 Time Step No. = 737 Elapsed Time = 1.197752E+06 days
5038 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.98 (1.98 sec) Binary
5040 Time Step No. = 738 Elapsed Time = 1.199752E+06 days
5041 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.98 (1.98 sec) Binary
5043 Time Step No. = 739 Elapsed Time = 1.201752E+06 days
5044 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.99 (1.99 sec) Binary
5046 Time Step No. = 740 Elapsed Time = 1.203752E+06 days
5047 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.99 (1.99 sec) Binary
5049 Time Step No. = 741 Elapsed Time = 1.205752E+06 days
5050 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.99 (1.99 sec) Binary
5052 Time Step No. = 742 Elapsed Time = 1.207752E+06 days
5053 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.99 (1.99 sec) Binary
5055 Time Step No. = 743 Elapsed Time = 1.209752E+06 days
5056 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.99 (1.99 sec) Binary
5058 Time Step No. = 744 Elapsed Time = 1.211752E+06 days
5059 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 (2.00 sec) Binary
5061 Time Step No. = 745 Elapsed Time = 1.213752E+06 days
5062 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 (2.00 sec) Binary
5064 Time Step No. = 746 Elapsed Time = 1.215752E+06 days
5065 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 (2.00 sec) Binary
5067 Time Step No. = 747 Elapsed Time = 1.217752E+06 days
5068 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 (2.00 sec) Binary
5070 Time Step No. = 748 Elapsed Time = 1.219752E+06 days
5071 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 (2.00 sec) Binary
5073 Time Step No. = 749 Elapsed Time = 1.221752E+06 days
5074 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 (2.00 sec) Binary
5076 Time Step No. = 750 Elapsed Time = 1.223752E+06 days
5077 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 (2.00 sec) Binary
5079 Time Step No. = 751 Elapsed Time = 1.225752E+06 days
5080 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 (2.00 sec) Binary
5082 Time Step No. = 752 Elapsed Time = 1.227752E+06 days
5083 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 (2.00 sec) Binary
5085 Time Step No. = 753 Elapsed Time = 1.229752E+06 days
5086 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 (2.00 sec) Binary
5088 Time Step No. = 754 Elapsed Time = 1.231752E+06 days
5089 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 (2.00 sec) Binary
5091 Time Step No. = 755 Elapsed Time = 1.233752E+06 days
5092 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 (2.00 sec) Binary
5094 Time Step No. = 756 Elapsed Time = 1.235752E+06 days
5095 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.01 (2.01 sec) Binary
5097 Time Step No. = 757 Elapsed Time = 1.237752E+06 days
5098 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.01 (2.01 sec) Binary
5100 Time Step No. = 758 Elapsed Time = 1.239752E+06 days
5101 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.01 (2.01 sec) Binary
5103 Time Step No. = 759 Elapsed Time = 1.241752E+06 days
5104 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.02 (2.02 sec) Binary
5106 Time Step No. = 760 Elapsed Time = 1.243752E+06 days
5107 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.02 (2.02 sec) Binary
5109 Time Step No. = 761 Elapsed Time = 1.245752E+06 days
5110 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.02 (2.02 sec) Binary
5112 Time Step No. = 762 Elapsed Time = 1.247752E+06 days
5113 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.02 (2.02 sec) Binary
5115 Time Step No. = 763 Elapsed Time = 1.249752E+06 days
5116 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.02 (2.02 sec) Binary
5118 Time Step No. = 764 Elapsed Time = 1.251752E+06 days
5119 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.03 (2.03 sec) Binary
5121 Time Step No. = 765 Elapsed Time = 1.253752E+06 days
5122 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.03 (2.03 sec) Binary
5124 Time Step No. = 766 Elapsed Time = 1.255752E+06 days
5125 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.03 (2.03 sec) Binary
5127 Time Step No. = 767 Elapsed Time = 1.257752E+06 days
5128 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.03 (2.03 sec) Binary
5130 Time Step No. = 768 Elapsed Time = 1.259752E+06 days
5131 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.03 (2.03 sec) Binary
5133 Time Step No. = 769 Elapsed Time = 1.261752E+06 days
5134 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.04 (2.04 sec) Binary
5136 Time Step No. = 770 Elapsed Time = 1.263752E+06 days
5137 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.04 (2.04 sec) Binary
5139 Time Step No. = 771 Elapsed Time = 1.265752E+06 days

5254 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.11 (2.11 sec) Binary
5256 Time Step No. = 810 Elapsed Time = 1.343752E+06 days
5257 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.12 (2.12 sec) Binary
5259 Time Step No. = 811 Elapsed Time = 1.345752E+06 days
5260 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.12 (2.12 sec) Binary
5262 Time Step No. = 812 Elapsed Time = 1.347752E+06 days
5263 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.12 (2.12 sec) Binary
5265 Time Step No. = 813 Elapsed Time = 1.349752E+06 days
5266 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.12 (2.12 sec) Binary
5268 Time Step No. = 814 Elapsed Time = 1.351752E+06 days
5269 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.13 (2.13 sec) Binary
5271 Time Step No. = 815 Elapsed Time = 1.353752E+06 days
5272 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.13 (2.13 sec) Binary
5274 Time Step No. = 816 Elapsed Time = 1.355752E+06 days
5275 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.13 (2.13 sec) Binary
5277 Time Step No. = 817 Elapsed Time = 1.357752E+06 days
5278 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.13 (2.13 sec) Binary
5280 Time Step No. = 818 Elapsed Time = 1.359752E+06 days
5281 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.13 (2.13 sec) Binary
5283 Time Step No. = 819 Elapsed Time = 1.361752E+06 days
5284 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.14 (2.14 sec) Binary
5286 Time Step No. = 820 Elapsed Time = 1.363752E+06 days
5287 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.14 (2.14 sec) Binary
5289 Time Step No. = 821 Elapsed Time = 1.365752E+06 days
5290 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.14 (2.14 sec) Binary
5292 Time Step No. = 822 Elapsed Time = 1.367752E+06 days
5293 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.14 (2.14 sec) Binary
5295 Time Step No. = 823 Elapsed Time = 1.369752E+06 days
5296 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.15 (2.15 sec) Binary
5298 Time Step No. = 824 Elapsed Time = 1.371752E+06 days
5299 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.15 (2.15 sec) Binary
5301 Time Step No. = 825 Elapsed Time = 1.373752E+06 days
5302 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.15 (2.15 sec) Binary
5304 Time Step No. = 826 Elapsed Time = 1.375752E+06 days
5305 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.15 (2.15 sec) Binary
5307 Time Step No. = 827 Elapsed Time = 1.377752E+06 days
5308 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.16 (2.16 sec) Binary
5310 Time Step No. = 828 Elapsed Time = 1.379752E+06 days
5311 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.16 (2.16 sec) Binary
5313 Time Step No. = 829 Elapsed Time = 1.381752E+06 days
5314 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.16 (2.16 sec) Binary
5316 Time Step No. = 830 Elapsed Time = 1.383752E+06 days
5317 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.16 (2.16 sec) Binary
5319 Time Step No. = 831 Elapsed Time = 1.385752E+06 days
5320 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.16 (2.16 sec) Binary
5322 Time Step No. = 832 Elapsed Time = 1.387752E+06 days
5323 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.17 (2.17 sec) Binary
5325 Time Step No. = 833 Elapsed Time = 1.389752E+06 days
5326 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.17 (2.17 sec) Binary
5328 Time Step No. = 834 Elapsed Time = 1.391752E+06 days
5329 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.17 (2.17 sec) Binary
5331 Time Step No. = 835 Elapsed Time = 1.393752E+06 days
5332 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.17 (2.17 sec) Binary
5334 Time Step No. = 836 Elapsed Time = 1.395752E+06 days
5335 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.18 (2.18 sec) Binary
5337 Time Step No. = 837 Elapsed Time = 1.397752E+06 days
5338 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.18 (2.18 sec) Binary
5340 Time Step No. = 838 Elapsed Time = 1.399752E+06 days
5341 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.18 (2.18 sec) Binary
5343 Time Step No. = 839 Elapsed Time = 1.401752E+06 days
5344 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.18 (2.18 sec) Binary
5346 Time Step No. = 840 Elapsed Time = 1.403752E+06 days
5347 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.18 (2.18 sec) Binary
5349 Time Step No. = 841 Elapsed Time = 1.405752E+06 days
5350 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.19 (2.19 sec) Binary
5352 Time Step No. = 842 Elapsed Time = 1.407752E+06 days
5353 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.19 (2.19 sec) Binary
5355 Time Step No. = 843 Elapsed Time = 1.409752E+06 days
5356 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.19 (2.19 sec) Binary
5358 Time Step No. = 844 Elapsed Time = 1.411752E+06 days
5359 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.19 (2.19 sec) Binary
5361 Time Step No. = 845 Elapsed Time = 1.413752E+06 days
5362 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.20 (2.20 sec) Binary
5364 Time Step No. = 846 Elapsed Time = 1.415752E+06 days
5365 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.20 (2.20 sec) Binary
5367 Time Step No. = 847 Elapsed Time = 1.417752E+06 days

5482 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.28 (2.28 sec) Binary
5484 Time Step No. = 886 Elapsed Time = 1.495752E+06 days
5485 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.28 (2.28 sec) Binary
5487 Time Step No. = 887 Elapsed Time = 1.497752E+06 days
5488 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.28 (2.28 sec) Binary
5490 Time Step No. = 888 Elapsed Time = 1.499752E+06 days
5491 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.28 (2.28 sec) Binary
5493 Time Step No. = 889 Elapsed Time = 1.501752E+06 days
5494 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.29 (2.29 sec) Binary
5496 Time Step No. = 890 Elapsed Time = 1.503752E+06 days
5497 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.29 (2.29 sec) Binary
5499 Time Step No. = 891 Elapsed Time = 1.505752E+06 days
5500 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.29 (2.29 sec) Binary
5502 Time Step No. = 892 Elapsed Time = 1.507752E+06 days
5503 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.29 (2.29 sec) Binary
5505 Time Step No. = 893 Elapsed Time = 1.509752E+06 days
5506 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.30 (2.30 sec) Binary
5508 Time Step No. = 894 Elapsed Time = 1.511752E+06 days
5509 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.30 (2.30 sec) Binary
5511 Time Step No. = 895 Elapsed Time = 1.513752E+06 days
5512 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.30 (2.30 sec) Binary
5514 Time Step No. = 896 Elapsed Time = 1.515752E+06 days
5515 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.31 (2.31 sec) Binary
5517 Time Step No. = 897 Elapsed Time = 1.517752E+06 days
5518 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.31 (2.31 sec) Binary
5520 Time Step No. = 898 Elapsed Time = 1.519752E+06 days
5521 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.31 (2.31 sec) Binary
5523 Time Step No. = 899 Elapsed Time = 1.521752E+06 days
5524 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.31 (2.31 sec) Binary
5526 Time Step No. = 900 Elapsed Time = 1.523752E+06 days
5527 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.32 (2.32 sec) Binary
5529 Time Step No. = 901 Elapsed Time = 1.525752E+06 days
5530 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.32 (2.32 sec) Binary
5532 Time Step No. = 902 Elapsed Time = 1.527752E+06 days
5533 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.32 (2.32 sec) Binary
5535 Time Step No. = 903 Elapsed Time = 1.529752E+06 days
5536 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.32 (2.32 sec) Binary
5538 Time Step No. = 904 Elapsed Time = 1.531752E+06 days
5539 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.32 (2.32 sec) Binary
5541 Time Step No. = 905 Elapsed Time = 1.533752E+06 days
5542 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.33 (2.33 sec) Binary
5544 Time Step No. = 906 Elapsed Time = 1.535752E+06 days
5545 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.33 (2.33 sec) Binary
5547 Time Step No. = 907 Elapsed Time = 1.537752E+06 days
5548 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.33 (2.33 sec) Binary
5550 Time Step No. = 908 Elapsed Time = 1.539752E+06 days
5551 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.33 (2.33 sec) Binary
5553 Time Step No. = 909 Elapsed Time = 1.541752E+06 days
5554 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.33 (2.33 sec) Binary
5556 Time Step No. = 910 Elapsed Time = 1.543752E+06 days
5557 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.34 (2.34 sec) Binary
5559 Time Step No. = 911 Elapsed Time = 1.545752E+06 days
5560 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.34 (2.34 sec) Binary
5562 Time Step No. = 912 Elapsed Time = 1.547752E+06 days
5563 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.34 (2.34 sec) Binary
5565 Time Step No. = 913 Elapsed Time = 1.549752E+06 days
5566 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.34 (2.34 sec) Binary
5568 Time Step No. = 914 Elapsed Time = 1.551752E+06 days
5569 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.35 (2.35 sec) Binary
5571 Time Step No. = 915 Elapsed Time = 1.553752E+06 days
5572 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.35 (2.35 sec) Binary
5574 Time Step No. = 916 Elapsed Time = 1.555752E+06 days
5575 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.35 (2.35 sec) Binary
5577 Time Step No. = 917 Elapsed Time = 1.557752E+06 days
5578 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.35 (2.35 sec) Binary
5580 Time Step No. = 918 Elapsed Time = 1.559752E+06 days
5581 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.35 (2.35 sec) Binary
5583 Time Step No. = 919 Elapsed Time = 1.561752E+06 days
5584 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.36 (2.36 sec) Binary
5586 Time Step No. = 920 Elapsed Time = 1.563752E+06 days
5587 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.36 (2.36 sec) Binary
5589 Time Step No. = 921 Elapsed Time = 1.565752E+06 days
5590 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.36 (2.36 sec) Binary
5592 Time Step No. = 922 Elapsed Time = 1.567752E+06 days
5593 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.36 (2.36 sec) Binary
5595 Time Step No. = 923 Elapsed Time = 1.569752E+06 days

5596 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.36 (2.36 sec) Binary
5598 Time Step No. = 924 Elapsed Time = 1.571752E+06 days
5599 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.37 (2.37 sec) Binary
5601 Time Step No. = 925 Elapsed Time = 1.573752E+06 days
5602 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.37 (2.37 sec) Binary
5604 Time Step No. = 926 Elapsed Time = 1.575752E+06 days
5605 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.37 (2.37 sec) Binary
5607 Time Step No. = 927 Elapsed Time = 1.577752E+06 days
5608 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.37 (2.37 sec) Binary
5610 Time Step No. = 928 Elapsed Time = 1.579752E+06 days
5611 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.38 (2.38 sec) Binary
5613 Time Step No. = 929 Elapsed Time = 1.581752E+06 days
5614 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.38 (2.38 sec) Binary
5616 Time Step No. = 930 Elapsed Time = 1.583752E+06 days
5617 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.38 (2.38 sec) Binary
5619 Time Step No. = 931 Elapsed Time = 1.585752E+06 days
5620 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.38 (2.38 sec) Binary
5622 Time Step No. = 932 Elapsed Time = 1.587752E+06 days
5623 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.38 (2.38 sec) Binary
5625 Time Step No. = 933 Elapsed Time = 1.589752E+06 days
5626 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.39 (2.39 sec) Binary
5628 Time Step No. = 934 Elapsed Time = 1.591752E+06 days
5629 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.39 (2.39 sec) Binary
5631 Time Step No. = 935 Elapsed Time = 1.593752E+06 days
5632 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.39 (2.39 sec) Binary
5634 Time Step No. = 936 Elapsed Time = 1.595752E+06 days
5635 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.39 (2.39 sec) Binary
5637 Time Step No. = 937 Elapsed Time = 1.597752E+06 days
5638 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.39 (2.39 sec) Binary
5640 Time Step No. = 938 Elapsed Time = 1.599752E+06 days
5641 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.40 (2.40 sec) Binary
5643 Time Step No. = 939 Elapsed Time = 1.601752E+06 days
5644 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.40 (2.40 sec) Binary
5646 Time Step No. = 940 Elapsed Time = 1.603752E+06 days
5647 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.40 (2.40 sec) Binary
5649 Time Step No. = 941 Elapsed Time = 1.605752E+06 days
5650 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.40 (2.40 sec) Binary
5652 Time Step No. = 942 Elapsed Time = 1.607752E+06 days
5653 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.41 (2.41 sec) Binary
5655 Time Step No. = 943 Elapsed Time = 1.609752E+06 days
5656 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.41 (2.41 sec) Binary
5658 Time Step No. = 944 Elapsed Time = 1.611752E+06 days
5659 Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.41 (2.41 sec) Binary
5661 Time Step No. = 945 Elapsed Time = 1.613752E+06 days
5662 Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.41 (2.41 sec) Binary
5664 Time Step No. = 946 Elapsed Time = 1.615752E+06 days
5665 Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.41 (2.41 sec) Binary
5667 Time Step No. = 947 Elapsed Time = 1.617752E+06 days
5668 Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.42 (2.42 sec) Binary
5670 Time Step No. = 948 Elapsed Time = 1.619752E+06 days
5671 Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.42 (2.42 sec) Binary
5673 Time Step No. = 949 Elapsed Time = 1.621752E+06 days
5674 Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.42 (2.42 sec) Binary
5676 Time Step No. = 950 Elapsed Time = 1.623752E+06 days
5677 Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.42 (2.42 sec) Binary
5679 Time Step No. = 951 Elapsed Time = 1.625752E+06 days
5680 Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.42 (2.42 sec) Binary
5682 Time Step No. = 952 Elapsed Time = 1.627752E+06 days
5683 Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.43 (2.43 sec) Binary
5685 Time Step No. = 953 Elapsed Time = 1.629752E+06 days
5686 Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.43 (2.43 sec) Binary
5688 Time Step No. = 954 Elapsed Time = 1.631752E+06 days
5689 Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.43 (2.43 sec) Binary
5691 Time Step No. = 955 Elapsed Time = 1.633752E+06 days
5692 Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.43 (2.43 sec) Binary
5694 Time Step No. = 956 Elapsed Time = 1.635752E+06 days
5695 Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.44 (2.44 sec) Binary
5697 Time Step No. = 957 Elapsed Time = 1.637752E+06 days
5698 Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.44 (2.44 sec) Binary
5700 Time Step No. = 958 Elapsed Time = 1.639752E+06 days
5701 Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.44 (2.44 sec) Binary
5703 Time Step No. = 959 Elapsed Time = 1.641752E+06 days
5704 Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.44 (2.44 sec) Binary
5706 Time Step No. = 960 Elapsed Time = 1.643752E+06 days
5707 Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.44 (2.44 sec) Binary
5709 Time Step No. = 961 Elapsed Time = 1.645752E+06 days

7534 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.71 (3.71 sec) Binary
7536 Time Step No. = 1570 Elapsed Time = 2.863752E+06 days
7537 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.71 (3.71 sec) Binary
7539 Time Step No. = 1571 Elapsed Time = 2.865752E+06 days
7540 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.72 (3.72 sec) Binary
7542 Time Step No. = 1572 Elapsed Time = 2.867752E+06 days
7543 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.72 (3.72 sec) Binary
7545 Time Step No. = 1573 Elapsed Time = 2.869752E+06 days
7546 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.72 (3.72 sec) Binary
7548 Time Step No. = 1574 Elapsed Time = 2.871752E+06 days
7549 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.72 (3.72 sec) Binary
7551 Time Step No. = 1575 Elapsed Time = 2.873752E+06 days
7552 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.72 (3.72 sec) Binary
7554 Time Step No. = 1576 Elapsed Time = 2.875752E+06 days
7555 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.72 (3.72 sec) Binary
7557 Time Step No. = 1577 Elapsed Time = 2.877752E+06 days
7558 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.73 (3.73 sec) Binary
7560 Time Step No. = 1578 Elapsed Time = 2.879752E+06 days
7561 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.73 (3.73 sec) Binary
7563 Time Step No. = 1579 Elapsed Time = 2.881752E+06 days
7564 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.73 (3.73 sec) Binary
7566 Time Step No. = 1580 Elapsed Time = 2.883752E+06 days
7567 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.73 (3.73 sec) Binary
7569 Time Step No. = 1581 Elapsed Time = 2.885752E+06 days
7570 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.74 (3.74 sec) Binary
7572 Time Step No. = 1582 Elapsed Time = 2.887752E+06 days
7573 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.74 (3.74 sec) Binary
7575 Time Step No. = 1583 Elapsed Time = 2.889752E+06 days
7576 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.74 (3.74 sec) Binary
7578 Time Step No. = 1584 Elapsed Time = 2.891752E+06 days
7579 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.74 (3.74 sec) Binary
7581 Time Step No. = 1585 Elapsed Time = 2.893752E+06 days
7582 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.75 (3.75 sec) Binary
7584 Time Step No. = 1586 Elapsed Time = 2.895752E+06 days
7585 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.75 (3.75 sec) Binary
7587 Time Step No. = 1587 Elapsed Time = 2.897752E+06 days
7588 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.75 (3.75 sec) Binary
7590 Time Step No. = 1588 Elapsed Time = 2.899752E+06 days
7591 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.75 (3.75 sec) Binary
7593 Time Step No. = 1589 Elapsed Time = 2.901752E+06 days
7594 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.76 (3.76 sec) Binary
7596 Time Step No. = 1590 Elapsed Time = 2.903752E+06 days
7597 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.76 (3.76 sec) Binary
7599 Time Step No. = 1591 Elapsed Time = 2.905752E+06 days
7600 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.76 (3.76 sec) Binary
7602 Time Step No. = 1592 Elapsed Time = 2.907752E+06 days
7603 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.76 (3.76 sec) Binary
7605 Time Step No. = 1593 Elapsed Time = 2.909752E+06 days
7606 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.76 (3.76 sec) Binary
7608 Time Step No. = 1594 Elapsed Time = 2.911752E+06 days
7609 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.76 (3.76 sec) Binary
7611 Time Step No. = 1595 Elapsed Time = 2.913752E+06 days
7612 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.77 (3.77 sec) Binary
7614 Time Step No. = 1596 Elapsed Time = 2.915752E+06 days
7615 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.77 (3.77 sec) Binary
7617 Time Step No. = 1597 Elapsed Time = 2.917752E+06 days
7618 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.77 (3.77 sec) Binary
7620 Time Step No. = 1598 Elapsed Time = 2.919752E+06 days
7621 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.77 (3.77 sec) Binary
7623 Time Step No. = 1599 Elapsed Time = 2.921752E+06 days
7624 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.77 (3.77 sec) Binary
7627 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1

4882 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 (1.36 sec) ASCII
4884 Time Step No. = 686 Elapsed Time = 1.095752E+06 days
4885 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 (1.36 sec) Binary
4887 Time Step No. = 687 Elapsed Time = 1.097752E+06 days
4888 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 (1.36 sec) Binary
4890 Time Step No. = 688 Elapsed Time = 1.099752E+06 days
4891 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 (1.36 sec) Binary
4893 Time Step No. = 689 Elapsed Time = 1.101752E+06 days
4894 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 (1.36 sec) Binary
4896 Time Step No. = 690 Elapsed Time = 1.103752E+06 days
4897 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 (1.36 sec) Binary
4899 Time Step No. = 691 Elapsed Time = 1.105752E+06 days

6268 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.04 (2.04 sec) Binary
6270 Time Step No. = 1148 Elapsed Time = 2.019752E+06 days
6271 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 (2.05 sec) Binary
6273 Time Step No. = 1149 Elapsed Time = 2.021752E+06 days
6274 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 (2.05 sec) Binary
6276 Time Step No. = 1150 Elapsed Time = 2.023752E+06 days
6277 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 (2.05 sec) Binary
6279 Time Step No. = 1151 Elapsed Time = 2.025752E+06 days
6280 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 (2.05 sec) Binary
6282 Time Step No. = 1152 Elapsed Time = 2.027752E+06 days
6283 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 (2.05 sec) Binary
6285 Time Step No. = 1153 Elapsed Time = 2.029752E+06 days
6286 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 (2.05 sec) Binary
6288 Time Step No. = 1154 Elapsed Time = 2.031752E+06 days
6289 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 (2.05 sec) Binary
6291 Time Step No. = 1155 Elapsed Time = 2.033752E+06 days
6292 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 (2.05 sec) Binary
6294 Time Step No. = 1156 Elapsed Time = 2.035752E+06 days
6295 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 (2.05 sec) Binary
6297 Time Step No. = 1157 Elapsed Time = 2.037752E+06 days
6298 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 (2.05 sec) Binary
6300 Time Step No. = 1158 Elapsed Time = 2.039752E+06 days
6301 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 (2.05 sec) Binary
6303 Time Step No. = 1159 Elapsed Time = 2.041752E+06 days
6304 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 (2.05 sec) Binary
6306 Time Step No. = 1160 Elapsed Time = 2.043752E+06 days
6307 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 (2.06 sec) Binary
6309 Time Step No. = 1161 Elapsed Time = 2.045752E+06 days
6310 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 (2.06 sec) Binary
6312 Time Step No. = 1162 Elapsed Time = 2.047752E+06 days
6313 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 (2.06 sec) Binary
6315 Time Step No. = 1163 Elapsed Time = 2.049752E+06 days
6316 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 (2.06 sec) Binary
6318 Time Step No. = 1164 Elapsed Time = 2.051752E+06 days
6319 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 (2.06 sec) Binary
6321 Time Step No. = 1165 Elapsed Time = 2.053752E+06 days
6322 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 (2.06 sec) Binary
6324 Time Step No. = 1166 Elapsed Time = 2.055752E+06 days
6325 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 (2.06 sec) Binary
6327 Time Step No. = 1167 Elapsed Time = 2.057752E+06 days
6328 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.07 (2.07 sec) Binary
6330 Time Step No. = 1168 Elapsed Time = 2.059752E+06 days
6331 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.07 (2.07 sec) Binary
6333 Time Step No. = 1169 Elapsed Time = 2.061752E+06 days
6334 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.07 (2.07 sec) Binary
6336 Time Step No. = 1170 Elapsed Time = 2.063752E+06 days
6337 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.07 (2.07 sec) Binary
6339 Time Step No. = 1171 Elapsed Time = 2.065752E+06 days
6340 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.07 (2.07 sec) Binary
6342 Time Step No. = 1172 Elapsed Time = 2.067752E+06 days
6343 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.07 (2.07 sec) Binary
6345 Time Step No. = 1173 Elapsed Time = 2.069752E+06 days
6346 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 (2.08 sec) Binary
6348 Time Step No. = 1174 Elapsed Time = 2.071752E+06 days
6349 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 (2.08 sec) Binary
6351 Time Step No. = 1175 Elapsed Time = 2.073752E+06 days
6352 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 (2.08 sec) Binary
6354 Time Step No. = 1176 Elapsed Time = 2.075752E+06 days
6355 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 (2.08 sec) Binary
6357 Time Step No. = 1177 Elapsed Time = 2.077752E+06 days
6358 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 (2.08 sec) Binary
6360 Time Step No. = 1178 Elapsed Time = 2.079752E+06 days
6361 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 (2.08 sec) Binary
6363 Time Step No. = 1179 Elapsed Time = 2.081752E+06 days
6364 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 (2.08 sec) Binary
6366 Time Step No. = 1180 Elapsed Time = 2.083752E+06 days
6367 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.09 (2.09 sec) Binary
6369 Time Step No. = 1181 Elapsed Time = 2.085752E+06 days
6370 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.09 (2.09 sec) Binary
6372 Time Step No. = 1182 Elapsed Time = 2.087752E+06 days
6373 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.09 (2.09 sec) Binary
6375 Time Step No. = 1183 Elapsed Time = 2.089752E+06 days
6376 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.09 (2.09 sec) Binary
6378 Time Step No. = 1184 Elapsed Time = 2.091752E+06 days
6379 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.10 (2.10 sec) Binary
6381 Time Step No. = 1185 Elapsed Time = 2.093752E+06 days


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7522 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7524 Time Step No. = 1566 Elapsed Time = 2.855752E+06 days
7525 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7527 Time Step No. = 1567 Elapsed Time = 2.857752E+06 days
7528 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7530 Time Step No. = 1568 Elapsed Time = 2.859752E+06 days
7531 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7533 Time Step No. = 1569 Elapsed Time = 2.861752E+06 days
7534 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7536 Time Step No. = 1570 Elapsed Time = 2.863752E+06 days
7537 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7539 Time Step No. = 1571 Elapsed Time = 2.865752E+06 days
7540 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7542 Time Step No. = 1572 Elapsed Time = 2.867752E+06 days
7543 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7545 Time Step No. = 1573 Elapsed Time = 2.869752E+06 days
7546 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7548 Time Step No. = 1574 Elapsed Time = 2.871752E+06 days
7549 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
7551 Time Step No. = 1575 Elapsed Time = 2.873752E+06 days
7552 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
7554 Time Step No. = 1576 Elapsed Time = 2.875752E+06 days
7555 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
7557 Time Step No. = 1577 Elapsed Time = 2.877752E+06 days
7558 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
7560 Time Step No. = 1578 Elapsed Time = 2.879752E+06 days
7561 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
7563 Time Step No. = 1579 Elapsed Time = 2.881752E+06 days
7564 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
7566 Time Step No. = 1580 Elapsed Time = 2.883752E+06 days
7567 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
7569 Time Step No. = 1581 Elapsed Time = 2.885752E+06 days
7570 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
7572 Time Step No. = 1582 Elapsed Time = 2.887752E+06 days
7573 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
7575 Time Step No. = 1583 Elapsed Time = 2.889752E+06 days
7576 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
7578 Time Step No. = 1584 Elapsed Time = 2.891752E+06 days
7579 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
7581 Time Step No. = 1585 Elapsed Time = 2.893752E+06 days
7582 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
7584 Time Step No. = 1586 Elapsed Time = 2.895752E+06 days
7585 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
7587 Time Step No. = 1587 Elapsed Time = 2.897752E+06 days
7588 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
7590 Time Step No. = 1588 Elapsed Time = 2.899752E+06 days
7591 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
7593 Time Step No. = 1589 Elapsed Time = 2.901752E+06 days
7594 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
7596 Time Step No. = 1590 Elapsed Time = 2.903752E+06 days
7597 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
7599 Time Step No. = 1591 Elapsed Time = 2.905752E+06 days
7600 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
7602 Time Step No. = 1592 Elapsed Time = 2.907752E+06 days
7603 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
7605 Time Step No. = 1593 Elapsed Time = 2.909752E+06 days
7606 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
7608 Time Step No. = 1594 Elapsed Time = 2.911752E+06 days
7609 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
7611 Time Step No. = 1595 Elapsed Time = 2.913752E+06 days
7612 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
7614 Time Step No. = 1596 Elapsed Time = 2.915752E+06 days
7615 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
7617 Time Step No. = 1597 Elapsed Time = 2.917752E+06 days
7618 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
7620 Time Step No. = 1598 Elapsed Time = 2.919752E+06 days
7621 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7623 Time Step No. = 1599 Elapsed Time = 2.921752E+06 days
7624 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7627 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
7636 CPU Time (total for run) = 3.77 sec = 0.00105 hr
7637 *****
*****
```

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
7636 CPU Time (total for run) = 2.66 sec = 0.00074 hr
7637 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
7832 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.78 (3.78 sec) ASCII
7834 Time Step No. = 1600 Elapsed Time = 2.921991E+06 days
7835 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.78 (3.78 sec) Binary
7837 Time Step No. = 1601 Elapsed Time = 2.923991E+06 days
7838 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.78 (3.78 sec) Binary
7840 Time Step No. = 1602 Elapsed Time = 2.925991E+06 days
7841 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.78 (3.78 sec) Binary
7843 Time Step No. = 1603 Elapsed Time = 2.927991E+06 days
7844 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.79 (3.79 sec) Binary
7846 Time Step No. = 1604 Elapsed Time = 2.929991E+06 days
7847 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.79 (3.79 sec) Binary
7849 Time Step No. = 1605 Elapsed Time = 2.931991E+06 days
7850 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.79 (3.79 sec) Binary
7852 Time Step No. = 1606 Elapsed Time = 2.933991E+06 days
7853 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.79 (3.79 sec) Binary
7855 Time Step No. = 1607 Elapsed Time = 2.935991E+06 days
7856 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.79 (3.79 sec) Binary
7858 Time Step No. = 1608 Elapsed Time = 2.937991E+06 days
7859 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.79 (3.79 sec) Binary
7861 Time Step No. = 1609 Elapsed Time = 2.939991E+06 days
7862 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.79 (3.79 sec) Binary
7864 Time Step No. = 1610 Elapsed Time = 2.941991E+06 days
7865 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.80 (3.80 sec) Binary
7867 Time Step No. = 1611 Elapsed Time = 2.943991E+06 days
7868 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.80 (3.80 sec) Binary
7870 Time Step No. = 1612 Elapsed Time = 2.945991E+06 days
7871 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.80 (3.80 sec) Binary
7873 Time Step No. = 1613 Elapsed Time = 2.947991E+06 days
7874 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.80 (3.80 sec) Binary
7876 Time Step No. = 1614 Elapsed Time = 2.949991E+06 days
7877 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.81 (3.81 sec) Binary
7879 Time Step No. = 1615 Elapsed Time = 2.951991E+06 days
7880 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.81 (3.81 sec) Binary
7882 Time Step No. = 1616 Elapsed Time = 2.953991E+06 days
7883 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.81 (3.81 sec) Binary
7885 Time Step No. = 1617 Elapsed Time = 2.955991E+06 days
7886 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.82 (3.82 sec) Binary
7888 Time Step No. = 1618 Elapsed Time = 2.957991E+06 days
7889 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.82 (3.82 sec) Binary
7891 Time Step No. = 1619 Elapsed Time = 2.959991E+06 days
7892 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.82 (3.82 sec) Binary
7894 Time Step No. = 1620 Elapsed Time = 2.961991E+06 days
7895 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.82 (3.82 sec) Binary
7897 Time Step No. = 1621 Elapsed Time = 2.963991E+06 days
7898 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.82 (3.82 sec) Binary
7900 Time Step No. = 1622 Elapsed Time = 2.965991E+06 days
7901 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.83 (3.83 sec) Binary
7903 Time Step No. = 1623 Elapsed Time = 2.967991E+06 days
7904 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.83 (3.83 sec) Binary
7906 Time Step No. = 1624 Elapsed Time = 2.969991E+06 days
7907 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.83 (3.83 sec) Binary
7909 Time Step No. = 1625 Elapsed Time = 2.971991E+06 days
7910 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.83 (3.83 sec) Binary
7912 Time Step No. = 1626 Elapsed Time = 2.973991E+06 days
7913 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.83 (3.83 sec) Binary
7915 Time Step No. = 1627 Elapsed Time = 2.975991E+06 days
7916 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.84 (3.84 sec) Binary
7918 Time Step No. = 1628 Elapsed Time = 2.977991E+06 days
7919 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.84 (3.84 sec) Binary
7921 Time Step No. = 1629 Elapsed Time = 2.979991E+06 days
7922 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.84 (3.84 sec) Binary
7924 Time Step No. = 1630 Elapsed Time = 2.981991E+06 days
7925 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.84 (3.84 sec) Binary
7927 Time Step No. = 1631 Elapsed Time = 2.983991E+06 days
7928 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.85 (3.85 sec) Binary
7930 Time Step No. = 1632 Elapsed Time = 2.985991E+06 days
7931 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.85 (3.85 sec) Binary
7933 Time Step No. = 1633 Elapsed Time = 2.987991E+06 days
7934 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.86 (3.86 sec) Binary
7936 Time Step No. = 1634 Elapsed Time = 2.989991E+06 days

7937 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.86 (3.86 sec) Binary
7939 Time Step No. = 1635 Elapsed Time = 2.991991E+06 days
7940 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.86 (3.86 sec) Binary
7942 Time Step No. = 1636 Elapsed Time = 2.993991E+06 days
7943 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.86 (3.86 sec) Binary
7945 Time Step No. = 1637 Elapsed Time = 2.995991E+06 days
7946 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.87 (3.87 sec) Binary
7948 Time Step No. = 1638 Elapsed Time = 2.997991E+06 days
7949 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.87 (3.87 sec) Binary
7951 Time Step No. = 1639 Elapsed Time = 2.999991E+06 days
7952 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.87 (3.87 sec) Binary
7954 Time Step No. = 1640 Elapsed Time = 3.001991E+06 days
7955 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.88 (3.88 sec) Binary
7957 Time Step No. = 1641 Elapsed Time = 3.003991E+06 days
7958 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.88 (3.88 sec) Binary
7960 Time Step No. = 1642 Elapsed Time = 3.005991E+06 days
7961 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.88 (3.88 sec) Binary
7963 Time Step No. = 1643 Elapsed Time = 3.007991E+06 days
7964 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.88 (3.88 sec) Binary
7966 Time Step No. = 1644 Elapsed Time = 3.009991E+06 days
7967 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.89 (3.89 sec) Binary
7969 Time Step No. = 1645 Elapsed Time = 3.011991E+06 days
7970 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.89 (3.89 sec) Binary
7973 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1

7832 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 (2.66 sec) ASCII
7834 Time Step No. = 1600 Elapsed Time = 2.921991E+06 days
7835 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 (2.66 sec) Binary
7837 Time Step No. = 1601 Elapsed Time = 2.923991E+06 days
7838 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 (2.66 sec) Binary
7840 Time Step No. = 1602 Elapsed Time = 2.925991E+06 days
7841 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 (2.66 sec) Binary
7843 Time Step No. = 1603 Elapsed Time = 2.927991E+06 days
7844 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 (2.66 sec) Binary
7846 Time Step No. = 1604 Elapsed Time = 2.929991E+06 days
7847 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 (2.66 sec) Binary
7849 Time Step No. = 1605 Elapsed Time = 2.931991E+06 days
7850 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 (2.66 sec) Binary
7852 Time Step No. = 1606 Elapsed Time = 2.933991E+06 days
7853 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 (2.66 sec) Binary
7855 Time Step No. = 1607 Elapsed Time = 2.935991E+06 days
7856 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 (2.66 sec) Binary
7858 Time Step No. = 1608 Elapsed Time = 2.937991E+06 days
7859 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 (2.66 sec) Binary
7861 Time Step No. = 1609 Elapsed Time = 2.939991E+06 days
7862 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 (2.66 sec) Binary
7864 Time Step No. = 1610 Elapsed Time = 2.941991E+06 days
7865 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 (2.66 sec) Binary
7867 Time Step No. = 1611 Elapsed Time = 2.943991E+06 days
7868 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.67 (2.67 sec) Binary
7870 Time Step No. = 1612 Elapsed Time = 2.945991E+06 days
7871 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.67 (2.67 sec) Binary
7873 Time Step No. = 1613 Elapsed Time = 2.947991E+06 days
7874 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.67 (2.67 sec) Binary
7876 Time Step No. = 1614 Elapsed Time = 2.949991E+06 days
7877 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.67 (2.67 sec) Binary
7879 Time Step No. = 1615 Elapsed Time = 2.951991E+06 days
7880 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.67 (2.67 sec) Binary
7882 Time Step No. = 1616 Elapsed Time = 2.953991E+06 days
7883 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 (2.68 sec) Binary
7885 Time Step No. = 1617 Elapsed Time = 2.955991E+06 days
7886 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 (2.68 sec) Binary
7888 Time Step No. = 1618 Elapsed Time = 2.957991E+06 days
7889 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 (2.68 sec) Binary
7891 Time Step No. = 1619 Elapsed Time = 2.959991E+06 days
7892 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 (2.68 sec) Binary
7894 Time Step No. = 1620 Elapsed Time = 2.961991E+06 days
7895 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 (2.68 sec) Binary
7897 Time Step No. = 1621 Elapsed Time = 2.963991E+06 days
7898 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 (2.68 sec) Binary
7900 Time Step No. = 1622 Elapsed Time = 2.965991E+06 days
7901 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.69 (2.69 sec) Binary
7903 Time Step No. = 1623 Elapsed Time = 2.967991E+06 days
7904 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.69 (2.69 sec) Binary
7906 Time Step No. = 1624 Elapsed Time = 2.969991E+06 days

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7907 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.69 ( 2.69 sec) Binary
7909 Time Step No. = 1625 Elapsed Time = 2.971991E+06 days
7910 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
7912 Time Step No. = 1626 Elapsed Time = 2.973991E+06 days
7913 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
7915 Time Step No. = 1627 Elapsed Time = 2.975991E+06 days
7916 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
7918 Time Step No. = 1628 Elapsed Time = 2.977991E+06 days
7919 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
7921 Time Step No. = 1629 Elapsed Time = 2.979991E+06 days
7922 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
7924 Time Step No. = 1630 Elapsed Time = 2.981991E+06 days
7925 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
7927 Time Step No. = 1631 Elapsed Time = 2.983991E+06 days
7928 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
7930 Time Step No. = 1632 Elapsed Time = 2.985991E+06 days
7931 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
7933 Time Step No. = 1633 Elapsed Time = 2.987991E+06 days
7934 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
7936 Time Step No. = 1634 Elapsed Time = 2.989991E+06 days
7937 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
7939 Time Step No. = 1635 Elapsed Time = 2.991991E+06 days
7940 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
7942 Time Step No. = 1636 Elapsed Time = 2.993991E+06 days
7943 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
7945 Time Step No. = 1637 Elapsed Time = 2.995991E+06 days
7946 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
7948 Time Step No. = 1638 Elapsed Time = 2.997991E+06 days
7949 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
7951 Time Step No. = 1639 Elapsed Time = 2.999991E+06 days
7952 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
7954 Time Step No. = 1640 Elapsed Time = 3.001991E+06 days
7955 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
7957 Time Step No. = 1641 Elapsed Time = 3.003991E+06 days
7958 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
7960 Time Step No. = 1642 Elapsed Time = 3.005991E+06 days
7961 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
7963 Time Step No. = 1643 Elapsed Time = 3.007991E+06 days
7964 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
7966 Time Step No. = 1644 Elapsed Time = 3.009991E+06 days
7967 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
7969 Time Step No. = 1645 Elapsed Time = 3.011991E+06 days
7970 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
7973 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
7982 CPU Time (total for run) = 3.89 sec = 0.00108 hr
7983 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
7982 CPU Time (total for run) = 2.73 sec = 0.00076 hr
7983 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
8178 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.90 ( 3.90 sec) ASCII
8180 Time Step No. = 1646 Elapsed Time = 3.013310E+06 days
8181 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.90 ( 3.90 sec) Binary
8183 Time Step No. = 1647 Elapsed Time = 3.015310E+06 days
8184 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.90 ( 3.90 sec) Binary
8186 Time Step No. = 1648 Elapsed Time = 3.017310E+06 days
8187 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.90 ( 3.90 sec) Binary
8189 Time Step No. = 1649 Elapsed Time = 3.019310E+06 days
8190 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.90 ( 3.90 sec) Binary
8192 Time Step No. = 1650 Elapsed Time = 3.021310E+06 days
8193 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.91 ( 3.91 sec) Binary
8195 Time Step No. = 1651 Elapsed Time = 3.023310E+06 days
8196 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.91 ( 3.91 sec) Binary
8198 Time Step No. = 1652 Elapsed Time = 3.025310E+06 days
8199 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.91 ( 3.91 sec) Binary
8201 Time Step No. = 1653 Elapsed Time = 3.027310E+06 days
8202 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.92 ( 3.92 sec) Binary
8204 Time Step No. = 1654 Elapsed Time = 3.029310E+06 days
8205 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.92 ( 3.92 sec) Binary
8207 Time Step No. = 1655 Elapsed Time = 3.031310E+06 days
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8208 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.92 (3.92 sec) Binary
8210 Time Step No. = 1656 Elapsed Time = 3.033310E+06 days
8211 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.92 (3.92 sec) Binary
8213 Time Step No. = 1657 Elapsed Time = 3.035310E+06 days
8214 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.93 (3.93 sec) Binary
8216 Time Step No. = 1658 Elapsed Time = 3.037310E+06 days
8217 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.93 (3.93 sec) Binary
8219 Time Step No. = 1659 Elapsed Time = 3.039310E+06 days
8220 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.93 (3.93 sec) Binary
8222 Time Step No. = 1660 Elapsed Time = 3.041310E+06 days
8223 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.93 (3.93 sec) Binary
8225 Time Step No. = 1661 Elapsed Time = 3.043310E+06 days
8226 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.94 (3.94 sec) Binary
8228 Time Step No. = 1662 Elapsed Time = 3.045310E+06 days
8229 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.94 (3.94 sec) Binary
8231 Time Step No. = 1663 Elapsed Time = 3.047310E+06 days
8232 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.94 (3.94 sec) Binary
8234 Time Step No. = 1664 Elapsed Time = 3.049310E+06 days
8235 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.94 (3.94 sec) Binary
8237 Time Step No. = 1665 Elapsed Time = 3.051310E+06 days
8238 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.94 (3.94 sec) Binary
8240 Time Step No. = 1666 Elapsed Time = 3.053310E+06 days
8241 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.94 (3.94 sec) Binary
8243 Time Step No. = 1667 Elapsed Time = 3.055310E+06 days
8244 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.94 (3.94 sec) Binary
8246 Time Step No. = 1668 Elapsed Time = 3.057310E+06 days
8247 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.95 (3.95 sec) Binary
8249 Time Step No. = 1669 Elapsed Time = 3.059310E+06 days
8250 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.95 (3.95 sec) Binary
8252 Time Step No. = 1670 Elapsed Time = 3.061310E+06 days
8253 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.95 (3.95 sec) Binary
8255 Time Step No. = 1671 Elapsed Time = 3.063310E+06 days
8256 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.95 (3.95 sec) Binary
8258 Time Step No. = 1672 Elapsed Time = 3.065310E+06 days
8259 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.96 (3.96 sec) Binary
8261 Time Step No. = 1673 Elapsed Time = 3.067310E+06 days
8262 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.96 (3.96 sec) Binary
8264 Time Step No. = 1674 Elapsed Time = 3.069310E+06 days
8265 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.96 (3.96 sec) Binary
8267 Time Step No. = 1675 Elapsed Time = 3.071310E+06 days
8268 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.96 (3.96 sec) Binary
8270 Time Step No. = 1676 Elapsed Time = 3.073310E+06 days
8271 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.97 (3.97 sec) Binary
8273 Time Step No. = 1677 Elapsed Time = 3.075310E+06 days
8274 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.97 (3.97 sec) Binary
8276 Time Step No. = 1678 Elapsed Time = 3.077310E+06 days
8277 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.97 (3.97 sec) Binary
8279 Time Step No. = 1679 Elapsed Time = 3.079310E+06 days
8280 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.97 (3.97 sec) Binary
8282 Time Step No. = 1680 Elapsed Time = 3.081310E+06 days
8283 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.97 (3.97 sec) Binary
8285 Time Step No. = 1681 Elapsed Time = 3.083310E+06 days
8286 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.97 (3.97 sec) Binary
8288 Time Step No. = 1682 Elapsed Time = 3.085310E+06 days
8289 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.97 (3.97 sec) Binary
8291 Time Step No. = 1683 Elapsed Time = 3.087310E+06 days
8292 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.97 (3.97 sec) Binary
8294 Time Step No. = 1684 Elapsed Time = 3.089310E+06 days
8295 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.98 (3.98 sec) Binary
8297 Time Step No. = 1685 Elapsed Time = 3.091310E+06 days
8298 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.98 (3.98 sec) Binary
8300 Time Step No. = 1686 Elapsed Time = 3.093310E+06 days
8301 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.98 (3.98 sec) Binary
8303 Time Step No. = 1687 Elapsed Time = 3.095310E+06 days
8304 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.98 (3.98 sec) Binary
8306 Time Step No. = 1688 Elapsed Time = 3.097310E+06 days
8307 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.99 (3.99 sec) Binary
8309 Time Step No. = 1689 Elapsed Time = 3.099310E+06 days
8310 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.99 (3.99 sec) Binary
8312 Time Step No. = 1690 Elapsed Time = 3.101310E+06 days
8313 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.99 (3.99 sec) Binary
8315 Time Step No. = 1691 Elapsed Time = 3.103310E+06 days
8316 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.99 (3.99 sec) Binary
8319 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1

Information Only

8292 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.81 (2.81 sec) Binary
8294 Time Step No. = 1684 Elapsed Time = 3.089310E+06 days
8295 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.82 (2.82 sec) Binary
8297 Time Step No. = 1685 Elapsed Time = 3.091310E+06 days
8298 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.82 (2.82 sec) Binary
8300 Time Step No. = 1686 Elapsed Time = 3.093310E+06 days
8301 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.82 (2.82 sec) Binary
8303 Time Step No. = 1687 Elapsed Time = 3.095310E+06 days
8304 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.82 (2.82 sec) Binary
8306 Time Step No. = 1688 Elapsed Time = 3.097310E+06 days
8307 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.82 (2.82 sec) Binary
8309 Time Step No. = 1689 Elapsed Time = 3.099310E+06 days
8310 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.82 (2.82 sec) Binary
8312 Time Step No. = 1690 Elapsed Time = 3.101310E+06 days
8313 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.83 (2.83 sec) Binary
8315 Time Step No. = 1691 Elapsed Time = 3.103310E+06 days
8316 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.83 (2.83 sec) Binary
8319 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1

8328 CPU Time (total for run) = 3.99 sec = 0.00111 hr
8329 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1

8328 CPU Time (total for run) = 2.83 sec = 0.00079 hr
8329 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1

8524 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.99 (3.99 sec) ASCII
8526 Time Step No. = 1692 Elapsed Time = 3.104630E+06 days
8527 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.99 (3.99 sec) Binary
8529 Time Step No. = 1693 Elapsed Time = 3.106630E+06 days
8530 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.99 (3.99 sec) Binary
8532 Time Step No. = 1694 Elapsed Time = 3.108630E+06 days
8533 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.00 (4.00 sec) Binary
8535 Time Step No. = 1695 Elapsed Time = 3.110630E+06 days
8536 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.00 (4.00 sec) Binary
8538 Time Step No. = 1696 Elapsed Time = 3.112630E+06 days
8539 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.00 (4.00 sec) Binary
8541 Time Step No. = 1697 Elapsed Time = 3.114630E+06 days
8542 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.00 (4.00 sec) Binary
8544 Time Step No. = 1698 Elapsed Time = 3.116630E+06 days
8545 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.01 (4.01 sec) Binary
8547 Time Step No. = 1699 Elapsed Time = 3.118630E+06 days
8548 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.01 (4.01 sec) Binary
8550 Time Step No. = 1700 Elapsed Time = 3.120630E+06 days
8551 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.01 (4.01 sec) Binary
8553 Time Step No. = 1701 Elapsed Time = 3.122630E+06 days
8554 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.01 (4.01 sec) Binary
8556 Time Step No. = 1702 Elapsed Time = 3.124630E+06 days
8557 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.02 (4.02 sec) Binary
8559 Time Step No. = 1703 Elapsed Time = 3.126630E+06 days
8560 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.02 (4.02 sec) Binary
8562 Time Step No. = 1704 Elapsed Time = 3.128630E+06 days
8563 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.02 (4.02 sec) Binary
8565 Time Step No. = 1705 Elapsed Time = 3.130630E+06 days
8566 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.02 (4.02 sec) Binary
8568 Time Step No. = 1706 Elapsed Time = 3.132630E+06 days
8569 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.03 (4.03 sec) Binary
8571 Time Step No. = 1707 Elapsed Time = 3.134630E+06 days
8572 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.03 (4.03 sec) Binary
8574 Time Step No. = 1708 Elapsed Time = 3.136630E+06 days
8575 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.03 (4.03 sec) Binary
8577 Time Step No. = 1709 Elapsed Time = 3.138630E+06 days
8578 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.03 (4.03 sec) Binary
8580 Time Step No. = 1710 Elapsed Time = 3.140630E+06 days
8581 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.04 (4.04 sec) Binary
8583 Time Step No. = 1711 Elapsed Time = 3.142630E+06 days
8584 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.04 (4.04 sec) Binary
8586 Time Step No. = 1712 Elapsed Time = 3.144630E+06 days
8587 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.04 (4.04 sec) Binary
8589 Time Step No. = 1713 Elapsed Time = 3.146630E+06 days
8590 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.04 (4.04 sec) Binary
8592 Time Step No. = 1714 Elapsed Time = 3.148630E+06 days

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8593 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.05 ( 4.05 sec) Binary
8595 Time Step No. = 1715 Elapsed Time = 3.150630E+06 days
8596 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.05 ( 4.05 sec) Binary
8598 Time Step No. = 1716 Elapsed Time = 3.152630E+06 days
8599 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.05 ( 4.05 sec) Binary
8601 Time Step No. = 1717 Elapsed Time = 3.154630E+06 days
8602 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.05 ( 4.05 sec) Binary
8604 Time Step No. = 1718 Elapsed Time = 3.156630E+06 days
8605 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.06 ( 4.06 sec) Binary
8607 Time Step No. = 1719 Elapsed Time = 3.158630E+06 days
8608 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.06 ( 4.06 sec) Binary
8610 Time Step No. = 1720 Elapsed Time = 3.160630E+06 days
8611 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.06 ( 4.06 sec) Binary
8613 Time Step No. = 1721 Elapsed Time = 3.162630E+06 days
8614 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.07 ( 4.07 sec) Binary
8616 Time Step No. = 1722 Elapsed Time = 3.164630E+06 days
8617 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.07 ( 4.07 sec) Binary
8619 Time Step No. = 1723 Elapsed Time = 3.166630E+06 days
8620 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.07 ( 4.07 sec) Binary
8622 Time Step No. = 1724 Elapsed Time = 3.168630E+06 days
8623 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.07 ( 4.07 sec) Binary
8625 Time Step No. = 1725 Elapsed Time = 3.170630E+06 days
8626 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.07 ( 4.07 sec) Binary
8628 Time Step No. = 1726 Elapsed Time = 3.172630E+06 days
8629 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.08 ( 4.08 sec) Binary
8631 Time Step No. = 1727 Elapsed Time = 3.174630E+06 days
8632 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.08 ( 4.08 sec) Binary
8634 Time Step No. = 1728 Elapsed Time = 3.176630E+06 days
8635 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.08 ( 4.08 sec) Binary
8637 Time Step No. = 1729 Elapsed Time = 3.178630E+06 days
8638 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.08 ( 4.08 sec) Binary
8640 Time Step No. = 1730 Elapsed Time = 3.180630E+06 days
8641 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.09 ( 4.09 sec) Binary
8643 Time Step No. = 1731 Elapsed Time = 3.182630E+06 days
8644 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.09 ( 4.09 sec) Binary
8646 Time Step No. = 1732 Elapsed Time = 3.184630E+06 days
8647 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.09 ( 4.09 sec) Binary
8649 Time Step No. = 1733 Elapsed Time = 3.186630E+06 days
8650 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.09 ( 4.09 sec) Binary
8652 Time Step No. = 1734 Elapsed Time = 3.188630E+06 days
8653 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.10 ( 4.10 sec) Binary
8655 Time Step No. = 1735 Elapsed Time = 3.190630E+06 days
8656 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.10 ( 4.10 sec) Binary
8658 Time Step No. = 1736 Elapsed Time = 3.192630E+06 days
8659 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.10 ( 4.10 sec) Binary
8661 Time Step No. = 1737 Elapsed Time = 3.194630E+06 days
8662 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.10 ( 4.10 sec) Binary
8665 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
8524 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) ASCII
8526 Time Step No. = 1692 Elapsed Time = 3.104630E+06 days
8527 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
8529 Time Step No. = 1693 Elapsed Time = 3.106630E+06 days
8530 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
8532 Time Step No. = 1694 Elapsed Time = 3.108630E+06 days
8533 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
8535 Time Step No. = 1695 Elapsed Time = 3.110630E+06 days
8536 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
8538 Time Step No. = 1696 Elapsed Time = 3.112630E+06 days
8539 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
8541 Time Step No. = 1697 Elapsed Time = 3.114630E+06 days
8542 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
8544 Time Step No. = 1698 Elapsed Time = 3.116630E+06 days
8545 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
8547 Time Step No. = 1699 Elapsed Time = 3.118630E+06 days
8548 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
8550 Time Step No. = 1700 Elapsed Time = 3.120630E+06 days
8551 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
8553 Time Step No. = 1701 Elapsed Time = 3.122630E+06 days
8554 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
8556 Time Step No. = 1702 Elapsed Time = 3.124630E+06 days
8557 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
8559 Time Step No. = 1703 Elapsed Time = 3.126630E+06 days
8560 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
8562 Time Step No. = 1704 Elapsed Time = 3.128630E+06 days
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8563 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 (2.86 sec) Binary
8565 Time Step No. = 1705 Elapsed Time = 3.130630E+06 days
8566 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 (2.86 sec) Binary
8568 Time Step No. = 1706 Elapsed Time = 3.132630E+06 days
8569 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 (2.86 sec) Binary
8571 Time Step No. = 1707 Elapsed Time = 3.134630E+06 days
8572 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 (2.86 sec) Binary
8574 Time Step No. = 1708 Elapsed Time = 3.136630E+06 days
8575 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 (2.86 sec) Binary
8577 Time Step No. = 1709 Elapsed Time = 3.138630E+06 days
8578 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 (2.86 sec) Binary
8580 Time Step No. = 1710 Elapsed Time = 3.140630E+06 days
8581 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 (2.86 sec) Binary
8583 Time Step No. = 1711 Elapsed Time = 3.142630E+06 days
8584 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 (2.86 sec) Binary
8586 Time Step No. = 1712 Elapsed Time = 3.144630E+06 days
8587 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 (2.86 sec) Binary
8589 Time Step No. = 1713 Elapsed Time = 3.146630E+06 days
8590 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 (2.86 sec) Binary
8592 Time Step No. = 1714 Elapsed Time = 3.148630E+06 days
8593 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.87 (2.87 sec) Binary
8595 Time Step No. = 1715 Elapsed Time = 3.150630E+06 days
8596 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.87 (2.87 sec) Binary
8598 Time Step No. = 1716 Elapsed Time = 3.152630E+06 days
8599 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.87 (2.87 sec) Binary
8601 Time Step No. = 1717 Elapsed Time = 3.154630E+06 days
8602 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.87 (2.87 sec) Binary
8604 Time Step No. = 1718 Elapsed Time = 3.156630E+06 days
8605 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 (2.88 sec) Binary
8607 Time Step No. = 1719 Elapsed Time = 3.158630E+06 days
8608 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 (2.88 sec) Binary
8610 Time Step No. = 1720 Elapsed Time = 3.160630E+06 days
8611 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 (2.88 sec) Binary
8613 Time Step No. = 1721 Elapsed Time = 3.162630E+06 days
8614 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 (2.88 sec) Binary
8616 Time Step No. = 1722 Elapsed Time = 3.164630E+06 days
8617 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 (2.88 sec) Binary
8619 Time Step No. = 1723 Elapsed Time = 3.166630E+06 days
8620 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 (2.88 sec) Binary
8622 Time Step No. = 1724 Elapsed Time = 3.168630E+06 days
8623 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 (2.89 sec) Binary
8625 Time Step No. = 1725 Elapsed Time = 3.170630E+06 days
8626 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 (2.89 sec) Binary
8628 Time Step No. = 1726 Elapsed Time = 3.172630E+06 days
8629 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 (2.89 sec) Binary
8631 Time Step No. = 1727 Elapsed Time = 3.174630E+06 days
8632 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 (2.89 sec) Binary
8634 Time Step No. = 1728 Elapsed Time = 3.176630E+06 days
8635 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 (2.89 sec) Binary
8637 Time Step No. = 1729 Elapsed Time = 3.178630E+06 days
8638 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 (2.89 sec) Binary
8640 Time Step No. = 1730 Elapsed Time = 3.180630E+06 days
8641 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 (2.90 sec) Binary
8643 Time Step No. = 1731 Elapsed Time = 3.182630E+06 days
8644 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 (2.90 sec) Binary
8646 Time Step No. = 1732 Elapsed Time = 3.184630E+06 days
8647 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 (2.90 sec) Binary
8649 Time Step No. = 1733 Elapsed Time = 3.186630E+06 days
8650 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 (2.90 sec) Binary
8652 Time Step No. = 1734 Elapsed Time = 3.188630E+06 days
8653 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 (2.90 sec) Binary
8655 Time Step No. = 1735 Elapsed Time = 3.190630E+06 days
8656 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 (2.90 sec) Binary
8658 Time Step No. = 1736 Elapsed Time = 3.192630E+06 days
8659 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 (2.90 sec) Binary
8661 Time Step No. = 1737 Elapsed Time = 3.194630E+06 days
8662 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 (2.90 sec) Binary
8665 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
8673 CPU Time (this time step) = 0.01 sec = 0.00000 hr
8674 CPU Time (total for run) = 4.11 sec = 0.00114 hr
8675 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1

8673 CPU Time (this time step) = 0.00 sec = 0.00000 hr
8674 CPU Time (total for run) = 2.90 sec = 0.00081 hr
8675 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1

8870 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.11 (4.11 sec) ASCII
8872 Time Step No. = 1738 Elapsed Time = 3.195949E+06 days
8873 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.11 (4.11 sec) Binary
8875 Time Step No. = 1739 Elapsed Time = 3.197949E+06 days
8876 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.12 (4.12 sec) Binary
8878 Time Step No. = 1740 Elapsed Time = 3.199949E+06 days
8879 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.12 (4.12 sec) Binary
8881 Time Step No. = 1741 Elapsed Time = 3.201949E+06 days
8882 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.12 (4.12 sec) Binary
8884 Time Step No. = 1742 Elapsed Time = 3.203949E+06 days
8885 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.12 (4.12 sec) Binary
8887 Time Step No. = 1743 Elapsed Time = 3.205949E+06 days
8888 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.12 (4.12 sec) Binary
8890 Time Step No. = 1744 Elapsed Time = 3.207949E+06 days
8891 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.13 (4.13 sec) Binary
8893 Time Step No. = 1745 Elapsed Time = 3.209949E+06 days
8894 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.13 (4.13 sec) Binary
8896 Time Step No. = 1746 Elapsed Time = 3.211949E+06 days
8897 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.13 (4.13 sec) Binary
8899 Time Step No. = 1747 Elapsed Time = 3.213949E+06 days
8900 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.14 (4.14 sec) Binary
8902 Time Step No. = 1748 Elapsed Time = 3.215949E+06 days
8903 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.14 (4.14 sec) Binary
8905 Time Step No. = 1749 Elapsed Time = 3.217949E+06 days
8906 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.14 (4.14 sec) Binary
8908 Time Step No. = 1750 Elapsed Time = 3.219949E+06 days
8909 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.14 (4.14 sec) Binary
8911 Time Step No. = 1751 Elapsed Time = 3.221949E+06 days
8912 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.15 (4.15 sec) Binary
8914 Time Step No. = 1752 Elapsed Time = 3.223949E+06 days
8915 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.15 (4.15 sec) Binary
8917 Time Step No. = 1753 Elapsed Time = 3.225949E+06 days
8918 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.15 (4.15 sec) Binary
8920 Time Step No. = 1754 Elapsed Time = 3.227949E+06 days
8921 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.15 (4.15 sec) Binary
8923 Time Step No. = 1755 Elapsed Time = 3.229949E+06 days
8924 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.15 (4.15 sec) Binary
8926 Time Step No. = 1756 Elapsed Time = 3.231949E+06 days
8927 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.16 (4.16 sec) Binary
8929 Time Step No. = 1757 Elapsed Time = 3.233949E+06 days
8930 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.16 (4.16 sec) Binary
8932 Time Step No. = 1758 Elapsed Time = 3.235949E+06 days
8933 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.16 (4.16 sec) Binary
8935 Time Step No. = 1759 Elapsed Time = 3.237949E+06 days
8936 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.17 (4.17 sec) Binary
8938 Time Step No. = 1760 Elapsed Time = 3.239949E+06 days
8939 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.17 (4.17 sec) Binary
8941 Time Step No. = 1761 Elapsed Time = 3.241949E+06 days
8942 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.17 (4.17 sec) Binary
8944 Time Step No. = 1762 Elapsed Time = 3.243949E+06 days
8945 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.17 (4.17 sec) Binary
8947 Time Step No. = 1763 Elapsed Time = 3.245949E+06 days
8948 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.18 (4.18 sec) Binary
8950 Time Step No. = 1764 Elapsed Time = 3.247949E+06 days
8951 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.18 (4.18 sec) Binary
8953 Time Step No. = 1765 Elapsed Time = 3.249949E+06 days
8954 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.18 (4.18 sec) Binary
8956 Time Step No. = 1766 Elapsed Time = 3.251949E+06 days
8957 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.18 (4.18 sec) Binary
8959 Time Step No. = 1767 Elapsed Time = 3.253949E+06 days
8960 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.19 (4.19 sec) Binary
8962 Time Step No. = 1768 Elapsed Time = 3.255949E+06 days
8963 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.19 (4.19 sec) Binary
8965 Time Step No. = 1769 Elapsed Time = 3.257949E+06 days
8966 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.19 (4.19 sec) Binary
8968 Time Step No. = 1770 Elapsed Time = 3.259949E+06 days
8969 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.19 (4.19 sec) Binary
8971 Time Step No. = 1771 Elapsed Time = 3.261949E+06 days
8972 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.20 (4.20 sec) Binary
8974 Time Step No. = 1772 Elapsed Time = 3.263949E+06 days

8975 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.20 (4.20 sec) Binary
8977 Time Step No. = 1773 Elapsed Time = 3.265949E+06 days
8978 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.20 (4.20 sec) Binary
8980 Time Step No. = 1774 Elapsed Time = 3.267949E+06 days
8981 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.20 (4.20 sec) Binary
8983 Time Step No. = 1775 Elapsed Time = 3.269949E+06 days
8984 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.21 (4.21 sec) Binary
8986 Time Step No. = 1776 Elapsed Time = 3.271949E+06 days
8987 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.21 (4.21 sec) Binary
8989 Time Step No. = 1777 Elapsed Time = 3.273949E+06 days
8990 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.21 (4.21 sec) Binary
8992 Time Step No. = 1778 Elapsed Time = 3.275949E+06 days
8993 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.21 (4.21 sec) Binary
8995 Time Step No. = 1779 Elapsed Time = 3.277949E+06 days
8996 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.22 (4.22 sec) Binary
8998 Time Step No. = 1780 Elapsed Time = 3.279949E+06 days
8999 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.22 (4.22 sec) Binary
9001 Time Step No. = 1781 Elapsed Time = 3.281949E+06 days
9002 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.22 (4.22 sec) Binary
9004 Time Step No. = 1782 Elapsed Time = 3.283949E+06 days
9005 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.22 (4.22 sec) Binary
9007 Time Step No. = 1783 Elapsed Time = 3.285949E+06 days
9008 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.23 (4.23 sec) Binary
9011 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1

8870 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 (2.91 sec) ASCII
8872 Time Step No. = 1738 Elapsed Time = 3.195949E+06 days
8873 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 (2.91 sec) Binary
8875 Time Step No. = 1739 Elapsed Time = 3.197949E+06 days
8876 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 (2.91 sec) Binary
8878 Time Step No. = 1740 Elapsed Time = 3.199949E+06 days
8879 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 (2.91 sec) Binary
8881 Time Step No. = 1741 Elapsed Time = 3.201949E+06 days
8882 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 (2.91 sec) Binary
8884 Time Step No. = 1742 Elapsed Time = 3.203949E+06 days
8885 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 (2.91 sec) Binary
8887 Time Step No. = 1743 Elapsed Time = 3.205949E+06 days
8888 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.92 (2.92 sec) Binary
8890 Time Step No. = 1744 Elapsed Time = 3.207949E+06 days
8891 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.92 (2.92 sec) Binary
8893 Time Step No. = 1745 Elapsed Time = 3.209949E+06 days
8894 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.92 (2.92 sec) Binary
8896 Time Step No. = 1746 Elapsed Time = 3.211949E+06 days
8897 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.92 (2.92 sec) Binary
8899 Time Step No. = 1747 Elapsed Time = 3.213949E+06 days
8900 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.92 (2.92 sec) Binary
8902 Time Step No. = 1748 Elapsed Time = 3.215949E+06 days
8903 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 (2.93 sec) Binary
8905 Time Step No. = 1749 Elapsed Time = 3.217949E+06 days
8906 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 (2.93 sec) Binary
8908 Time Step No. = 1750 Elapsed Time = 3.219949E+06 days
8909 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 (2.93 sec) Binary
8911 Time Step No. = 1751 Elapsed Time = 3.221949E+06 days
8912 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 (2.93 sec) Binary
8914 Time Step No. = 1752 Elapsed Time = 3.223949E+06 days
8915 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 (2.93 sec) Binary
8917 Time Step No. = 1753 Elapsed Time = 3.225949E+06 days
8918 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 (2.93 sec) Binary
8920 Time Step No. = 1754 Elapsed Time = 3.227949E+06 days
8921 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.94 (2.94 sec) Binary
8923 Time Step No. = 1755 Elapsed Time = 3.229949E+06 days
8924 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.94 (2.94 sec) Binary
8926 Time Step No. = 1756 Elapsed Time = 3.231949E+06 days
8927 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.94 (2.94 sec) Binary
8929 Time Step No. = 1757 Elapsed Time = 3.233949E+06 days
8930 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.94 (2.94 sec) Binary
8932 Time Step No. = 1758 Elapsed Time = 3.235949E+06 days
8933 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.94 (2.94 sec) Binary
8935 Time Step No. = 1759 Elapsed Time = 3.237949E+06 days
8936 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.95 (2.95 sec) Binary
8938 Time Step No. = 1760 Elapsed Time = 3.239949E+06 days
8939 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.95 (2.95 sec) Binary
8941 Time Step No. = 1761 Elapsed Time = 3.241949E+06 days
8942 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.95 (2.95 sec) Binary
8944 Time Step No. = 1762 Elapsed Time = 3.243949E+06 days

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8945 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
8947 Time Step No. = 1763 Elapsed Time = 3.245949E+06 days
8948 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
8950 Time Step No. = 1764 Elapsed Time = 3.247949E+06 days
8951 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
8953 Time Step No. = 1765 Elapsed Time = 3.249949E+06 days
8954 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
8956 Time Step No. = 1766 Elapsed Time = 3.251949E+06 days
8957 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
8959 Time Step No. = 1767 Elapsed Time = 3.253949E+06 days
8960 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
8962 Time Step No. = 1768 Elapsed Time = 3.255949E+06 days
8963 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
8965 Time Step No. = 1769 Elapsed Time = 3.257949E+06 days
8966 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
8968 Time Step No. = 1770 Elapsed Time = 3.259949E+06 days
8969 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8971 Time Step No. = 1771 Elapsed Time = 3.261949E+06 days
8972 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8974 Time Step No. = 1772 Elapsed Time = 3.263949E+06 days
8975 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8977 Time Step No. = 1773 Elapsed Time = 3.265949E+06 days
8978 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8980 Time Step No. = 1774 Elapsed Time = 3.267949E+06 days
8981 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8983 Time Step No. = 1775 Elapsed Time = 3.269949E+06 days
8984 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8986 Time Step No. = 1776 Elapsed Time = 3.271949E+06 days
8987 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8989 Time Step No. = 1777 Elapsed Time = 3.273949E+06 days
8990 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8992 Time Step No. = 1778 Elapsed Time = 3.275949E+06 days
8993 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8995 Time Step No. = 1779 Elapsed Time = 3.277949E+06 days
8996 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
8998 Time Step No. = 1780 Elapsed Time = 3.279949E+06 days
8999 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
9001 Time Step No. = 1781 Elapsed Time = 3.281949E+06 days
9002 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
9004 Time Step No. = 1782 Elapsed Time = 3.283949E+06 days
9005 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
9007 Time Step No. = 1783 Elapsed Time = 3.285949E+06 days
9008 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
9011 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
9019 CPU Time (this time step) = 0.01 sec = 0.00000 hr
9020 CPU Time (total for run) = 4.23 sec = 0.00118 hr
9021 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
9019 CPU Time (this time step) = 0.00 sec = 0.00000 hr
9020 CPU Time (total for run) = 2.98 sec = 0.00083 hr
9021 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
9216 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.23 ( 4.23 sec) ASCII
9218 Time Step No. = 1784 Elapsed Time = 3.287269E+06 days
9219 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.23 ( 4.23 sec) Binary
9221 Time Step No. = 1785 Elapsed Time = 3.289269E+06 days
9222 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.24 ( 4.24 sec) Binary
9224 Time Step No. = 1786 Elapsed Time = 3.291269E+06 days
9225 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.24 ( 4.24 sec) Binary
9227 Time Step No. = 1787 Elapsed Time = 3.293269E+06 days
9228 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.24 ( 4.24 sec) Binary
9230 Time Step No. = 1788 Elapsed Time = 3.295269E+06 days
9231 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.24 ( 4.24 sec) Binary
9233 Time Step No. = 1789 Elapsed Time = 3.297269E+06 days
9234 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.25 ( 4.25 sec) Binary
9236 Time Step No. = 1790 Elapsed Time = 3.299269E+06 days
9237 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.25 ( 4.25 sec) Binary
9239 Time Step No. = 1791 Elapsed Time = 3.301269E+06 days
9240 Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.25 ( 4.25 sec) Binary
9242 Time Step No. = 1792 Elapsed Time = 3.303269E+06 days
```



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9699 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.62 ( 4.62 sec) Binary
9701 Time Step No. = 1945 Elapsed Time = 3.609269E+06 days
9702 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.63 ( 4.63 sec) Binary
9704 Time Step No. = 1946 Elapsed Time = 3.611269E+06 days
9705 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.63 ( 4.63 sec) Binary
9707 Time Step No. = 1947 Elapsed Time = 3.613269E+06 days
9708 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.63 ( 4.63 sec) Binary
9710 Time Step No. = 1948 Elapsed Time = 3.615269E+06 days
9711 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.63 ( 4.63 sec) Binary
9713 Time Step No. = 1949 Elapsed Time = 3.617269E+06 days
9714 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.64 ( 4.64 sec) Binary
9716 Time Step No. = 1950 Elapsed Time = 3.619269E+06 days
9717 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.64 ( 4.64 sec) Binary
9719 Time Step No. = 1951 Elapsed Time = 3.621269E+06 days
9720 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.64 ( 4.64 sec) Binary
9722 Time Step No. = 1952 Elapsed Time = 3.623269E+06 days
9723 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.64 ( 4.64 sec) Binary
9725 Time Step No. = 1953 Elapsed Time = 3.625269E+06 days
9726 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.65 ( 4.65 sec) Binary
9728 Time Step No. = 1954 Elapsed Time = 3.627269E+06 days
9729 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.65 ( 4.65 sec) Binary
9731 Time Step No. = 1955 Elapsed Time = 3.629269E+06 days
9732 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.65 ( 4.65 sec) Binary
9734 Time Step No. = 1956 Elapsed Time = 3.631269E+06 days
9735 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.65 ( 4.65 sec) Binary
9737 Time Step No. = 1957 Elapsed Time = 3.633269E+06 days
9738 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.65 ( 4.65 sec) Binary
9740 Time Step No. = 1958 Elapsed Time = 3.635269E+06 days
9741 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.65 ( 4.65 sec) Binary
9743 Time Step No. = 1959 Elapsed Time = 3.637269E+06 days
9744 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.65 ( 4.65 sec) Binary
9746 Time Step No. = 1960 Elapsed Time = 3.639269E+06 days
9747 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.65 ( 4.65 sec) Binary
9749 Time Step No. = 1961 Elapsed Time = 3.641269E+06 days
9750 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.66 ( 4.66 sec) Binary
9752 Time Step No. = 1962 Elapsed Time = 3.643269E+06 days
9753 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.66 ( 4.66 sec) Binary
9755 Time Step No. = 1963 Elapsed Time = 3.645269E+06 days
9756 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.66 ( 4.66 sec) Binary
9758 Time Step No. = 1964 Elapsed Time = 3.647269E+06 days
9759 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.66 ( 4.66 sec) Binary
9761 Time Step No. = 1965 Elapsed Time = 3.649269E+06 days
9762 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.67 ( 4.67 sec) Binary
9764 Time Step No. = 1966 Elapsed Time = 3.651269E+06 days
9765 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.67 ( 4.67 sec) Binary
9768 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
9216 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) ASCII
9218 Time Step No. = 1784 Elapsed Time = 3.287269E+06 days
9219 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) Binary
9221 Time Step No. = 1785 Elapsed Time = 3.289269E+06 days
9222 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) Binary
9224 Time Step No. = 1786 Elapsed Time = 3.291269E+06 days
9225 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) Binary
9227 Time Step No. = 1787 Elapsed Time = 3.293269E+06 days
9228 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
9230 Time Step No. = 1788 Elapsed Time = 3.295269E+06 days
9231 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
9233 Time Step No. = 1789 Elapsed Time = 3.297269E+06 days
9234 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
9236 Time Step No. = 1790 Elapsed Time = 3.299269E+06 days
9237 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
9239 Time Step No. = 1791 Elapsed Time = 3.301269E+06 days
9240 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
9242 Time Step No. = 1792 Elapsed Time = 3.303269E+06 days
9243 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
9245 Time Step No. = 1793 Elapsed Time = 3.305269E+06 days
9246 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
9248 Time Step No. = 1794 Elapsed Time = 3.307269E+06 days
9249 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
9251 Time Step No. = 1795 Elapsed Time = 3.309269E+06 days
9252 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
9254 Time Step No. = 1796 Elapsed Time = 3.311269E+06 days
9255 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
9257 Time Step No. = 1797 Elapsed Time = 3.313269E+06 days
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9714 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.28 (3.28 sec) Binary
9716 Time Step No. = 1950 Elapsed Time = 3.619269E+06 days
9717 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.28 (3.28 sec) Binary
9719 Time Step No. = 1951 Elapsed Time = 3.621269E+06 days
9720 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.28 (3.28 sec) Binary
9722 Time Step No. = 1952 Elapsed Time = 3.623269E+06 days
9723 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.29 (3.29 sec) Binary
9725 Time Step No. = 1953 Elapsed Time = 3.625269E+06 days
9726 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.29 (3.29 sec) Binary
9728 Time Step No. = 1954 Elapsed Time = 3.627269E+06 days
9729 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.29 (3.29 sec) Binary
9731 Time Step No. = 1955 Elapsed Time = 3.629269E+06 days
9732 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.29 (3.29 sec) Binary
9734 Time Step No. = 1956 Elapsed Time = 3.631269E+06 days
9735 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.29 (3.29 sec) Binary
9737 Time Step No. = 1957 Elapsed Time = 3.633269E+06 days
9738 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.29 (3.29 sec) Binary
9740 Time Step No. = 1958 Elapsed Time = 3.635269E+06 days
9741 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.30 (3.30 sec) Binary
9743 Time Step No. = 1959 Elapsed Time = 3.637269E+06 days
9744 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.30 (3.30 sec) Binary
9746 Time Step No. = 1960 Elapsed Time = 3.639269E+06 days
9747 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.30 (3.30 sec) Binary
9749 Time Step No. = 1961 Elapsed Time = 3.641269E+06 days
9750 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.30 (3.30 sec) Binary
9752 Time Step No. = 1962 Elapsed Time = 3.643269E+06 days
9753 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.30 (3.30 sec) Binary
9755 Time Step No. = 1963 Elapsed Time = 3.645269E+06 days
9756 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 (3.31 sec) Binary
9758 Time Step No. = 1964 Elapsed Time = 3.647269E+06 days
9759 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 (3.31 sec) Binary
9761 Time Step No. = 1965 Elapsed Time = 3.649269E+06 days
9762 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 (3.31 sec) Binary
9764 Time Step No. = 1966 Elapsed Time = 3.651269E+06 days
9765 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 (3.31 sec) Binary
9768 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
9777 CPU Time (total for run) = 4.67 sec = 0.00130 hr
9778 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
9777 CPU Time (total for run) = 3.31 sec = 0.00092 hr
9778 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
9973 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.68 (4.68 sec) ASCII
9975 Time Step No. = 1967 Elapsed Time = 3.652431E+06 days
9976 Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.68 (4.68 sec) Binary
9981 *****
9982 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
9983 * Completed: 02/15/07 at 12:58:00 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
9984 *****

File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
9973 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 (3.31 sec) ASCII
9975 Time Step No. = 1967 Elapsed Time = 3.652431E+06 days
9976 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 (3.31 sec) Binary
9981 *****
9982 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
9983 * Completed: 02/14/07 at 16:02:45 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
9984 *****

Number of difference sections found: 38
Number of difference records found: 3847

DIFFERENCES / IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1

BF2_QB0600_ES45_TEST14_OUT.DIF

```
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
  3  ** Begun on: 02/15/07 at 12:58:17 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
  3  ** Begun on: 02/14/07 at 16:02:41 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
  4  *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_TEST14.INP;1
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
  61 PAA:[ANALYSIS.BF.QB0600.ES47.TEST14]BF2_QB0600_TEST14.INP;1
  62 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
  66 PAA:[ANALYSIS.BF.QB0600.ES47.TEST14]BF2_CLOSURE.DAT;1
  67 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
  71 PAA:[ANALYSIS.BF.QB0600.ES47.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
  72 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
  76 PAA:[ANALYSIS.BF.QB0600.ES47.TEST14]BF2_QB0600_ES47_TEST14.SUM;1
  77 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
  81 PAA:[ANALYSIS.BF.QB0600.ES47.TEST14]BF2_QB0600_ES47_TEST14.BIN;1
  82 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
  963 CPU Time (total for run) = 0.16 sec = 0.00004 hr
  964 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
  963 CPU Time (total for run) = 0.12 sec = 0.00003 hr
  964 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 1159 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 1161 Time Step No. = 69 Elapsed Time = 0.000000E+00 days
 1162 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 1164 Time Step No. = 70 Elapsed Time = 1.000000E-02 days
 1165 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 1167 Time Step No. = 71 Elapsed Time = 1.156250E-02 days
 1168 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
```

1170 Time Step No. = 72 Elapsed Time = 1.351562E-02 days
1171 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.17 (0.17 sec) Binary
1173 Time Step No. = 73 Elapsed Time = 1.595703E-02 days
1174 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.18 (0.18 sec) Binary
1176 Time Step No. = 74 Elapsed Time = 1.900879E-02 days
1177 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.18 (0.18 sec) Binary
1179 Time Step No. = 75 Elapsed Time = 2.282349E-02 days
1180 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.18 (0.18 sec) Binary
1182 Time Step No. = 76 Elapsed Time = 2.759186E-02 days
1183 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.18 (0.18 sec) Binary
1185 Time Step No. = 77 Elapsed Time = 3.355232E-02 days
1186 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.18 (0.18 sec) Binary
1188 Time Step No. = 78 Elapsed Time = 4.100290E-02 days
1189 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.18 (0.18 sec) Binary
1191 Time Step No. = 79 Elapsed Time = 5.031613E-02 days
1192 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1194 Time Step No. = 80 Elapsed Time = 6.195766E-02 days
1195 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1197 Time Step No. = 81 Elapsed Time = 7.650958E-02 days
1198 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1200 Time Step No. = 82 Elapsed Time = 9.469947E-02 days
1201 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1203 Time Step No. = 83 Elapsed Time = 1.174368E-01 days
1204 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1206 Time Step No. = 84 Elapsed Time = 1.458585E-01 days
1207 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1209 Time Step No. = 85 Elapsed Time = 1.813857E-01 days
1210 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1212 Time Step No. = 86 Elapsed Time = 2.257946E-01 days
1213 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1215 Time Step No. = 87 Elapsed Time = 2.813058E-01 days
1216 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1218 Time Step No. = 88 Elapsed Time = 3.506947E-01 days
1219 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1221 Time Step No. = 89 Elapsed Time = 4.374309E-01 days
1222 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 (0.19 sec) Binary
1224 Time Step No. = 90 Elapsed Time = 5.458511E-01 days
1225 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.20 (0.20 sec) Binary
1227 Time Step No. = 91 Elapsed Time = 6.813764E-01 days
1228 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.20 (0.20 sec) Binary
1230 Time Step No. = 92 Elapsed Time = 8.507829E-01 days
1231 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.20 (0.20 sec) Binary
1233 Time Step No. = 93 Elapsed Time = 1.062541E+00 days
1234 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.20 (0.20 sec) Binary
1236 Time Step No. = 94 Elapsed Time = 1.327239E+00 days
1237 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.20 (0.20 sec) Binary
1239 Time Step No. = 95 Elapsed Time = 1.658111E+00 days
1240 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1242 Time Step No. = 96 Elapsed Time = 2.071702E+00 days
1243 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1245 Time Step No. = 97 Elapsed Time = 2.588689E+00 days
1246 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1248 Time Step No. = 98 Elapsed Time = 3.234924E+00 days
1249 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1251 Time Step No. = 99 Elapsed Time = 4.042718E+00 days
1252 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1254 Time Step No. = 100 Elapsed Time = 5.052460E+00 days
1255 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1257 Time Step No. = 101 Elapsed Time = 6.314637E+00 days
1258 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1260 Time Step No. = 102 Elapsed Time = 7.892359E+00 days
1261 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1263 Time Step No. = 103 Elapsed Time = 9.864511E+00 days
1264 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1266 Time Step No. = 104 Elapsed Time = 1.232970E+01 days
1267 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1269 Time Step No. = 105 Elapsed Time = 1.541119E+01 days
1270 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1272 Time Step No. = 106 Elapsed Time = 1.926305E+01 days
1273 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 (0.21 sec) Binary
1275 Time Step No. = 107 Elapsed Time = 2.407787E+01 days
1276 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.22 (0.22 sec) Binary
1278 Time Step No. = 108 Elapsed Time = 3.009641E+01 days
1279 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.22 (0.22 sec) Binary
1281 Time Step No. = 109 Elapsed Time = 3.761957E+01 days
1282 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.22 (0.22 sec) Binary

1284 Time Step No. = 110 Elapsed Time = 4.702352E+01 days
1285 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.22 (0.22 sec) Binary
1287 Time Step No. = 111 Elapsed Time = 5.877847E+01 days
1288 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.22 (0.22 sec) Binary
1290 Time Step No. = 112 Elapsed Time = 7.347215E+01 days
1291 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.23 (0.23 sec) Binary
1293 Time Step No. = 113 Elapsed Time = 9.183925E+01 days
1294 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.23 (0.23 sec) Binary
1296 Time Step No. = 114 Elapsed Time = 1.147981E+02 days
1297 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.23 (0.23 sec) Binary
1299 Time Step No. = 115 Elapsed Time = 1.434967E+02 days
1300 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.23 (0.23 sec) Binary
1302 Time Step No. = 116 Elapsed Time = 1.793700E+02 days
1303 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.23 (0.23 sec) Binary
1305 Time Step No. = 117 Elapsed Time = 2.242115E+02 days
1306 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.23 (0.23 sec) Binary
1308 Time Step No. = 118 Elapsed Time = 2.802634E+02 days
1309 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.24 (0.24 sec) Binary
1311 Time Step No. = 119 Elapsed Time = 3.503284E+02 days
1312 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.24 (0.24 sec) Binary
1315 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1

1159 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.12 (0.12 sec) ASCII
1161 Time Step No. = 69 Elapsed Time = 0.000000E+00 days
1162 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.12 (0.12 sec) Binary
1164 Time Step No. = 70 Elapsed Time = 1.000000E-02 days
1165 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.13 (0.13 sec) Binary
1167 Time Step No. = 71 Elapsed Time = 1.156250E-02 days
1168 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.13 (0.13 sec) Binary
1170 Time Step No. = 72 Elapsed Time = 1.351562E-02 days
1171 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.13 (0.13 sec) Binary
1173 Time Step No. = 73 Elapsed Time = 1.595703E-02 days
1174 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.13 (0.13 sec) Binary
1176 Time Step No. = 74 Elapsed Time = 1.900879E-02 days
1177 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.14 (0.14 sec) Binary
1179 Time Step No. = 75 Elapsed Time = 2.282349E-02 days
1180 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.14 (0.14 sec) Binary
1182 Time Step No. = 76 Elapsed Time = 2.759186E-02 days
1183 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.14 (0.14 sec) Binary
1185 Time Step No. = 77 Elapsed Time = 3.355232E-02 days
1186 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.14 (0.14 sec) Binary
1188 Time Step No. = 78 Elapsed Time = 4.100290E-02 days
1189 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.14 (0.14 sec) Binary
1191 Time Step No. = 79 Elapsed Time = 5.031613E-02 days
1192 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.15 (0.15 sec) Binary
1194 Time Step No. = 80 Elapsed Time = 6.195766E-02 days
1195 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.15 (0.15 sec) Binary
1197 Time Step No. = 81 Elapsed Time = 7.650958E-02 days
1198 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.15 (0.15 sec) Binary
1200 Time Step No. = 82 Elapsed Time = 9.469947E-02 days
1201 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.15 (0.15 sec) Binary
1203 Time Step No. = 83 Elapsed Time = 1.174368E-01 days
1204 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.15 (0.15 sec) Binary
1206 Time Step No. = 84 Elapsed Time = 1.458585E-01 days
1207 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 (0.16 sec) Binary
1209 Time Step No. = 85 Elapsed Time = 1.813857E-01 days
1210 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 (0.16 sec) Binary
1212 Time Step No. = 86 Elapsed Time = 2.257946E-01 days
1213 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 (0.16 sec) Binary
1215 Time Step No. = 87 Elapsed Time = 2.813058E-01 days
1216 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 (0.16 sec) Binary
1218 Time Step No. = 88 Elapsed Time = 3.506947E-01 days
1219 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 (0.16 sec) Binary
1221 Time Step No. = 89 Elapsed Time = 4.374309E-01 days
1222 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 (0.16 sec) Binary
1224 Time Step No. = 90 Elapsed Time = 5.458511E-01 days
1225 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.17 (0.17 sec) Binary
1227 Time Step No. = 91 Elapsed Time = 6.813764E-01 days
1228 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.17 (0.17 sec) Binary
1230 Time Step No. = 92 Elapsed Time = 8.507829E-01 days
1231 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.17 (0.17 sec) Binary
1233 Time Step No. = 93 Elapsed Time = 1.062541E+00 days
1234 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.17 (0.17 sec) Binary
1236 Time Step No. = 94 Elapsed Time = 1.327239E+00 days
1237 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.17 (0.17 sec) Binary

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1239 Time Step No. = 95 Elapsed Time = 1.658111E+00 days
1240 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
1242 Time Step No. = 96 Elapsed Time = 2.071702E+00 days
1243 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
1245 Time Step No. = 97 Elapsed Time = 2.588689E+00 days
1246 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
1248 Time Step No. = 98 Elapsed Time = 3.234924E+00 days
1249 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
1251 Time Step No. = 99 Elapsed Time = 4.042718E+00 days
1252 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
1254 Time Step No. = 100 Elapsed Time = 5.052460E+00 days
1255 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
1257 Time Step No. = 101 Elapsed Time = 6.314637E+00 days
1258 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1260 Time Step No. = 102 Elapsed Time = 7.892359E+00 days
1261 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1263 Time Step No. = 103 Elapsed Time = 9.864511E+00 days
1264 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1266 Time Step No. = 104 Elapsed Time = 1.232970E+01 days
1267 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1269 Time Step No. = 105 Elapsed Time = 1.541119E+01 days
1270 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1272 Time Step No. = 106 Elapsed Time = 1.926305E+01 days
1273 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1275 Time Step No. = 107 Elapsed Time = 2.407787E+01 days
1276 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
1278 Time Step No. = 108 Elapsed Time = 3.009641E+01 days
1279 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
1281 Time Step No. = 109 Elapsed Time = 3.761957E+01 days
1282 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
1284 Time Step No. = 110 Elapsed Time = 4.702352E+01 days
1285 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
1287 Time Step No. = 111 Elapsed Time = 5.877847E+01 days
1288 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
1290 Time Step No. = 112 Elapsed Time = 7.347215E+01 days
1291 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1293 Time Step No. = 113 Elapsed Time = 9.183925E+01 days
1294 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1296 Time Step No. = 114 Elapsed Time = 1.147981E+02 days
1297 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1299 Time Step No. = 115 Elapsed Time = 1.434967E+02 days
1300 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1302 Time Step No. = 116 Elapsed Time = 1.793700E+02 days
1303 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1305 Time Step No. = 117 Elapsed Time = 2.242115E+02 days
1306 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1308 Time Step No. = 118 Elapsed Time = 2.802634E+02 days
1309 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) Binary
1311 Time Step No. = 119 Elapsed Time = 3.503284E+02 days
1312 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) Binary
1315 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
1324 CPU Time (total for run) = 0.24 sec = 0.00007 hr
1325 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
1324 CPU Time (total for run) = 0.22 sec = 0.00006 hr
1325 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
1520 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) ASCII
1522 Time Step No. = 120 Elapsed Time = 3.652431E+02 days
1523 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
1525 Time Step No. = 121 Elapsed Time = 4.528242E+02 days
1526 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
1528 Time Step No. = 122 Elapsed Time = 5.623007E+02 days
1529 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
1531 Time Step No. = 123 Elapsed Time = 6.991462E+02 days
1532 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
1534 Time Step No. = 124 Elapsed Time = 8.702031E+02 days
1535 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
1537 Time Step No. = 125 Elapsed Time = 1.084024E+03 days
1538 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
```

```
1540 Time Step No. = 126 Elapsed Time = 1.351301E+03 days
1541 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
1543 Time Step No. = 127 Elapsed Time = 1.685396E+03 days
1544 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
1546 Time Step No. = 128 Elapsed Time = 2.103016E+03 days
1547 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
1549 Time Step No. = 129 Elapsed Time = 2.625040E+03 days
1550 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
1552 Time Step No. = 130 Elapsed Time = 3.277571E+03 days
1553 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
1556 *****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
1520 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) ASCII
1522 Time Step No. = 120 Elapsed Time = 3.652431E+02 days
1523 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
1525 Time Step No. = 121 Elapsed Time = 4.528242E+02 days
1526 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
1528 Time Step No. = 122 Elapsed Time = 5.623007E+02 days
1529 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
1531 Time Step No. = 123 Elapsed Time = 6.991462E+02 days
1532 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
1534 Time Step No. = 124 Elapsed Time = 8.702031E+02 days
1535 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
1537 Time Step No. = 125 Elapsed Time = 1.084024E+03 days
1538 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
1540 Time Step No. = 126 Elapsed Time = 1.351301E+03 days
1541 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
1543 Time Step No. = 127 Elapsed Time = 1.685396E+03 days
1544 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
1546 Time Step No. = 128 Elapsed Time = 2.103016E+03 days
1547 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
1549 Time Step No. = 129 Elapsed Time = 2.625040E+03 days
1550 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
1552 Time Step No. = 130 Elapsed Time = 3.277571E+03 days
1553 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
1556 *****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
1564 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1565 CPU Time (total for run) = 0.25 sec = 0.00007 hr
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
1564 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1565 CPU Time (total for run) = 0.25 sec = 0.00007 hr
*****
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
1761 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) ASCII
1763 Time Step No. = 131 Elapsed Time = 3.652431E+03 days
1764 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
1766 Time Step No. = 132 Elapsed Time = 4.468094E+03 days
1767 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
1769 Time Step No. = 133 Elapsed Time = 5.487672E+03 days
1770 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
1772 Time Step No. = 134 Elapsed Time = 6.762146E+03 days
1773 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
1775 Time Step No. = 135 Elapsed Time = 8.355238E+03 days
1776 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
1778 Time Step No. = 136 Elapsed Time = 1.034660E+04 days
1779 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
1781 Time Step No. = 137 Elapsed Time = 1.234660E+04 days
1782 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
1784 Time Step No. = 138 Elapsed Time = 1.434660E+04 days
1785 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
1787 Time Step No. = 139 Elapsed Time = 1.634660E+04 days
1788 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
1790 Time Step No. = 140 Elapsed Time = 1.834660E+04 days
1791 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
1793 Time Step No. = 141 Elapsed Time = 2.034660E+04 days
1794 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
1796 Time Step No. = 142 Elapsed Time = 2.234660E+04 days
1797 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.28 ( 0.28 sec) Binary
1799 Time Step No. = 143 Elapsed Time = 2.434660E+04 days
1800 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.28 ( 0.28 sec) Binary
```

1802 Time Step No. = 144 Elapsed Time = 2.634660E+04 days
1803 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.28 (0.28 sec) Binary
1805 Time Step No. = 145 Elapsed Time = 2.834660E+04 days
1806 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.29 (0.29 sec) Binary
1808 Time Step No. = 146 Elapsed Time = 3.034660E+04 days
1809 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.29 (0.29 sec) Binary
1811 Time Step No. = 147 Elapsed Time = 3.234660E+04 days
1812 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.29 (0.29 sec) Binary
1814 Time Step No. = 148 Elapsed Time = 3.434660E+04 days
1815 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.30 (0.30 sec) Binary
1817 Time Step No. = 149 Elapsed Time = 3.534660E+04 days
1818 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.30 (0.30 sec) Binary
1821 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
1761 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.25 (0.25 sec) ASCII
1763 Time Step No. = 131 Elapsed Time = 3.652431E+03 days
1764 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.25 (0.25 sec) Binary
1766 Time Step No. = 132 Elapsed Time = 4.468094E+03 days
1767 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.25 (0.25 sec) Binary
1769 Time Step No. = 133 Elapsed Time = 5.487672E+03 days
1770 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.25 (0.25 sec) Binary
1772 Time Step No. = 134 Elapsed Time = 6.762146E+03 days
1773 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.26 (0.26 sec) Binary
1775 Time Step No. = 135 Elapsed Time = 8.355238E+03 days
1776 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.26 (0.26 sec) Binary
1778 Time Step No. = 136 Elapsed Time = 1.034660E+04 days
1779 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.26 (0.26 sec) Binary
1781 Time Step No. = 137 Elapsed Time = 1.234660E+04 days
1782 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.27 (0.27 sec) Binary
1784 Time Step No. = 138 Elapsed Time = 1.434660E+04 days
1785 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.27 (0.27 sec) Binary
1787 Time Step No. = 139 Elapsed Time = 1.634660E+04 days
1788 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.27 (0.27 sec) Binary
1790 Time Step No. = 140 Elapsed Time = 1.834660E+04 days
1791 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.28 (0.28 sec) Binary
1793 Time Step No. = 141 Elapsed Time = 2.034660E+04 days
1794 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.28 (0.28 sec) Binary
1796 Time Step No. = 142 Elapsed Time = 2.234660E+04 days
1797 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.28 (0.28 sec) Binary
1799 Time Step No. = 143 Elapsed Time = 2.434660E+04 days
1800 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.29 (0.29 sec) Binary
1802 Time Step No. = 144 Elapsed Time = 2.634660E+04 days
1803 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.29 (0.29 sec) Binary
1805 Time Step No. = 145 Elapsed Time = 2.834660E+04 days
1806 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.29 (0.29 sec) Binary
1808 Time Step No. = 146 Elapsed Time = 3.034660E+04 days
1809 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.30 (0.30 sec) Binary
1811 Time Step No. = 147 Elapsed Time = 3.234660E+04 days
1812 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.30 (0.30 sec) Binary
1814 Time Step No. = 148 Elapsed Time = 3.434660E+04 days
1815 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.31 (0.31 sec) Binary
1817 Time Step No. = 149 Elapsed Time = 3.534660E+04 days
1818 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.31 (0.31 sec) Binary
1821 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
1829 CPU Time (this time step) = 0.01 sec = 0.00000 hr
1830 CPU Time (total for run) = 0.31 sec = 0.00009 hr

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
1829 CPU Time (this time step) = 0.00 sec = 0.00000 hr
1830 CPU Time (total for run) = 0.31 sec = 0.00009 hr

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
2026 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.31 (0.31 sec) ASCII
2028 Time Step No. = 150 Elapsed Time = 3.652431E+04 days
2029 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.31 (0.31 sec) Binary
2031 Time Step No. = 151 Elapsed Time = 3.777431E+04 days
2032 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.32 (0.32 sec) Binary
2034 Time Step No. = 152 Elapsed Time = 3.816493E+04 days
2035 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.32 (0.32 sec) Binary
2037 Time Step No. = 153 Elapsed Time = 3.865321E+04 days
2038 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.33 (0.33 sec) Binary

2040 Time Step No. = 154 Elapsed Time = 3.926356E+04 days
2041 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.33 (0.33 sec) Binary
2043 Time Step No. = 155 Elapsed Time = 4.002650E+04 days
2044 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.33 (0.33 sec) Binary
2046 Time Step No. = 156 Elapsed Time = 4.098018E+04 days
2047 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.34 (0.34 sec) Binary
2049 Time Step No. = 157 Elapsed Time = 4.217227E+04 days
2050 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.34 (0.34 sec) Binary
2052 Time Step No. = 158 Elapsed Time = 4.366239E+04 days
2053 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.34 (0.34 sec) Binary
2055 Time Step No. = 159 Elapsed Time = 4.552503E+04 days
2056 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.35 (0.35 sec) Binary
2058 Time Step No. = 160 Elapsed Time = 4.752503E+04 days
2059 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.35 (0.35 sec) Binary
2061 Time Step No. = 161 Elapsed Time = 4.952503E+04 days
2062 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.36 (0.36 sec) Binary
2064 Time Step No. = 162 Elapsed Time = 5.152503E+04 days
2065 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.36 (0.36 sec) Binary
2067 Time Step No. = 163 Elapsed Time = 5.352503E+04 days
2068 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.36 (0.36 sec) Binary
2070 Time Step No. = 164 Elapsed Time = 5.552503E+04 days
2071 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.37 (0.37 sec) Binary
2073 Time Step No. = 165 Elapsed Time = 5.752503E+04 days
2074 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.37 (0.37 sec) Binary
2076 Time Step No. = 166 Elapsed Time = 5.952503E+04 days
2077 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.38 (0.38 sec) Binary
2079 Time Step No. = 167 Elapsed Time = 6.152503E+04 days
2080 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.38 (0.38 sec) Binary
2082 Time Step No. = 168 Elapsed Time = 6.352503E+04 days
2083 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.38 (0.38 sec) Binary
2085 Time Step No. = 169 Elapsed Time = 6.552503E+04 days
2086 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.39 (0.39 sec) Binary
2088 Time Step No. = 170 Elapsed Time = 6.752503E+04 days
2089 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.39 (0.39 sec) Binary
2091 Time Step No. = 171 Elapsed Time = 6.952503E+04 days
2092 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.39 (0.39 sec) Binary
2094 Time Step No. = 172 Elapsed Time = 7.152503E+04 days
2095 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.40 (0.40 sec) Binary
2097 Time Step No. = 173 Elapsed Time = 7.352503E+04 days
2098 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.40 (0.40 sec) Binary
2100 Time Step No. = 174 Elapsed Time = 7.552503E+04 days
2101 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.41 (0.41 sec) Binary
2103 Time Step No. = 175 Elapsed Time = 7.752503E+04 days
2104 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.41 (0.41 sec) Binary
2106 Time Step No. = 176 Elapsed Time = 7.952503E+04 days
2107 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.42 (0.42 sec) Binary
2109 Time Step No. = 177 Elapsed Time = 8.152503E+04 days
2110 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.42 (0.42 sec) Binary
2112 Time Step No. = 178 Elapsed Time = 8.352503E+04 days
2113 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.42 (0.42 sec) Binary
2115 Time Step No. = 179 Elapsed Time = 8.552503E+04 days
2116 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.43 (0.43 sec) Binary
2118 Time Step No. = 180 Elapsed Time = 8.752503E+04 days
2119 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.43 (0.43 sec) Binary
2121 Time Step No. = 181 Elapsed Time = 8.952503E+04 days
2122 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.44 (0.44 sec) Binary
2124 Time Step No. = 182 Elapsed Time = 9.152503E+04 days
2125 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.44 (0.44 sec) Binary
2127 Time Step No. = 183 Elapsed Time = 9.352503E+04 days
2128 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.44 (0.44 sec) Binary
2130 Time Step No. = 184 Elapsed Time = 9.552503E+04 days
2131 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.45 (0.45 sec) Binary
2133 Time Step No. = 185 Elapsed Time = 9.752503E+04 days
2134 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.45 (0.45 sec) Binary
2136 Time Step No. = 186 Elapsed Time = 9.952503E+04 days
2137 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.45 (0.45 sec) Binary
2139 Time Step No. = 187 Elapsed Time = 1.015250E+05 days
2140 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.46 (0.46 sec) Binary
2142 Time Step No. = 188 Elapsed Time = 1.035250E+05 days
2143 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.46 (0.46 sec) Binary
2145 Time Step No. = 189 Elapsed Time = 1.055250E+05 days
2146 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.46 (0.46 sec) Binary
2148 Time Step No. = 190 Elapsed Time = 1.075250E+05 days
2149 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.46 (0.46 sec) Binary
2151 Time Step No. = 191 Elapsed Time = 1.095250E+05 days
2152 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.46 (0.46 sec) Binary

2268 Time Step No. = 230 Elapsed Time = 1.875250E+05 days
2269 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.58 (0.58 sec) Binary
2271 Time Step No. = 231 Elapsed Time = 1.895250E+05 days
2272 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.58 (0.58 sec) Binary
2274 Time Step No. = 232 Elapsed Time = 1.915250E+05 days
2275 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.59 (0.59 sec) Binary
2277 Time Step No. = 233 Elapsed Time = 1.935250E+05 days
2278 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.59 (0.59 sec) Binary
2280 Time Step No. = 234 Elapsed Time = 1.955250E+05 days
2281 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.59 (0.59 sec) Binary
2283 Time Step No. = 235 Elapsed Time = 1.975250E+05 days
2284 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.59 (0.59 sec) Binary
2286 Time Step No. = 236 Elapsed Time = 1.995250E+05 days
2287 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.60 (0.60 sec) Binary
2289 Time Step No. = 237 Elapsed Time = 2.015250E+05 days
2290 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.60 (0.60 sec) Binary
2292 Time Step No. = 238 Elapsed Time = 2.035250E+05 days
2293 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.60 (0.60 sec) Binary
2295 Time Step No. = 239 Elapsed Time = 2.055250E+05 days
2296 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.61 (0.61 sec) Binary
2298 Time Step No. = 240 Elapsed Time = 2.075250E+05 days
2299 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.61 (0.61 sec) Binary
2301 Time Step No. = 241 Elapsed Time = 2.095250E+05 days
2302 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.61 (0.61 sec) Binary
2304 Time Step No. = 242 Elapsed Time = 2.115250E+05 days
2305 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.62 (0.62 sec) Binary
2307 Time Step No. = 243 Elapsed Time = 2.135250E+05 days
2308 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.62 (0.62 sec) Binary
2310 Time Step No. = 244 Elapsed Time = 2.155250E+05 days
2311 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.62 (0.62 sec) Binary
2313 Time Step No. = 245 Elapsed Time = 2.175250E+05 days
2314 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.63 (0.63 sec) Binary
2316 Time Step No. = 246 Elapsed Time = 2.195250E+05 days
2317 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.63 (0.63 sec) Binary
2319 Time Step No. = 247 Elapsed Time = 2.215250E+05 days
2320 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.63 (0.63 sec) Binary
2322 Time Step No. = 248 Elapsed Time = 2.235250E+05 days
2323 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.63 (0.63 sec) Binary
2325 Time Step No. = 249 Elapsed Time = 2.255250E+05 days
2326 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.63 (0.63 sec) Binary
2328 Time Step No. = 250 Elapsed Time = 2.275250E+05 days
2329 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.63 (0.63 sec) Binary
2331 Time Step No. = 251 Elapsed Time = 2.295250E+05 days
2332 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.63 (0.63 sec) Binary
2334 Time Step No. = 252 Elapsed Time = 2.315250E+05 days
2335 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.64 (0.64 sec) Binary
2337 Time Step No. = 253 Elapsed Time = 2.335250E+05 days
2338 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.64 (0.64 sec) Binary
2340 Time Step No. = 254 Elapsed Time = 2.355250E+05 days
2341 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.64 (0.64 sec) Binary
2343 Time Step No. = 255 Elapsed Time = 2.375250E+05 days
2344 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.65 (0.65 sec) Binary
2346 Time Step No. = 256 Elapsed Time = 2.395250E+05 days
2347 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.65 (0.65 sec) Binary
2349 Time Step No. = 257 Elapsed Time = 2.415250E+05 days
2350 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.65 (0.65 sec) Binary
2352 Time Step No. = 258 Elapsed Time = 2.435250E+05 days
2353 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.66 (0.66 sec) Binary
2355 Time Step No. = 259 Elapsed Time = 2.455250E+05 days
2356 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.66 (0.66 sec) Binary
2358 Time Step No. = 260 Elapsed Time = 2.475250E+05 days
2359 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.66 (0.66 sec) Binary
2361 Time Step No. = 261 Elapsed Time = 2.495250E+05 days
2362 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.67 (0.67 sec) Binary
2364 Time Step No. = 262 Elapsed Time = 2.515250E+05 days
2365 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.67 (0.67 sec) Binary
2367 Time Step No. = 263 Elapsed Time = 2.535250E+05 days
2368 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.67 (0.67 sec) Binary
2370 Time Step No. = 264 Elapsed Time = 2.555250E+05 days
2371 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.67 (0.67 sec) Binary
2373 Time Step No. = 265 Elapsed Time = 2.575250E+05 days
2374 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.67 (0.67 sec) Binary
2376 Time Step No. = 266 Elapsed Time = 2.595250E+05 days
2377 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.68 (0.68 sec) Binary
2379 Time Step No. = 267 Elapsed Time = 2.615250E+05 days
2380 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.68 (0.68 sec) Binary

2496 Time Step No. = 306 Elapsed Time = 3.395250E+05 days
2497 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2499 Time Step No. = 307 Elapsed Time = 3.415250E+05 days
2500 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2502 Time Step No. = 308 Elapsed Time = 3.435250E+05 days
2503 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2505 Time Step No. = 309 Elapsed Time = 3.455250E+05 days
2506 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2508 Time Step No. = 310 Elapsed Time = 3.475250E+05 days
2509 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2511 Time Step No. = 311 Elapsed Time = 3.495250E+05 days
2512 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2514 Time Step No. = 312 Elapsed Time = 3.515250E+05 days
2515 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2517 Time Step No. = 313 Elapsed Time = 3.535250E+05 days
2518 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2520 Time Step No. = 314 Elapsed Time = 3.555250E+05 days
2521 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.73 (0.73 sec) Binary
2523 Time Step No. = 315 Elapsed Time = 3.575250E+05 days
2524 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.73 (0.73 sec) Binary
2526 Time Step No. = 316 Elapsed Time = 3.595250E+05 days
2527 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.73 (0.73 sec) Binary
2529 Time Step No. = 317 Elapsed Time = 3.615250E+05 days
2530 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.73 (0.73 sec) Binary
2532 Time Step No. = 318 Elapsed Time = 3.635250E+05 days
2533 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.73 (0.73 sec) Binary
2536 *****

File PAA: [ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1

2026 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.31 (0.31 sec) ASCII
2028 Time Step No. = 150 Elapsed Time = 3.652431E+04 days
2029 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.31 (0.31 sec) Binary
2031 Time Step No. = 151 Elapsed Time = 3.777431E+04 days
2032 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.31 (0.31 sec) Binary
2034 Time Step No. = 152 Elapsed Time = 3.816493E+04 days
2035 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.32 (0.32 sec) Binary
2037 Time Step No. = 153 Elapsed Time = 3.865321E+04 days
2038 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.32 (0.32 sec) Binary
2040 Time Step No. = 154 Elapsed Time = 3.926356E+04 days
2041 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.33 (0.33 sec) Binary
2043 Time Step No. = 155 Elapsed Time = 4.002650E+04 days
2044 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.33 (0.33 sec) Binary
2046 Time Step No. = 156 Elapsed Time = 4.098018E+04 days
2047 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.33 (0.33 sec) Binary
2049 Time Step No. = 157 Elapsed Time = 4.217227E+04 days
2050 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.34 (0.34 sec) Binary
2052 Time Step No. = 158 Elapsed Time = 4.366239E+04 days
2053 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.34 (0.34 sec) Binary
2055 Time Step No. = 159 Elapsed Time = 4.552503E+04 days
2056 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.34 (0.34 sec) Binary
2058 Time Step No. = 160 Elapsed Time = 4.752503E+04 days
2059 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.35 (0.35 sec) Binary
2061 Time Step No. = 161 Elapsed Time = 4.952503E+04 days
2062 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.35 (0.35 sec) Binary
2064 Time Step No. = 162 Elapsed Time = 5.152503E+04 days
2065 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.35 (0.35 sec) Binary
2067 Time Step No. = 163 Elapsed Time = 5.352503E+04 days
2068 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.36 (0.36 sec) Binary
2070 Time Step No. = 164 Elapsed Time = 5.552503E+04 days
2071 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.36 (0.36 sec) Binary
2073 Time Step No. = 165 Elapsed Time = 5.752503E+04 days
2074 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.37 (0.37 sec) Binary
2076 Time Step No. = 166 Elapsed Time = 5.952503E+04 days
2077 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.37 (0.37 sec) Binary
2079 Time Step No. = 167 Elapsed Time = 6.152503E+04 days
2080 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.37 (0.37 sec) Binary
2082 Time Step No. = 168 Elapsed Time = 6.352503E+04 days
2083 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.38 (0.38 sec) Binary
2085 Time Step No. = 169 Elapsed Time = 6.552503E+04 days
2086 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.38 (0.38 sec) Binary
2088 Time Step No. = 170 Elapsed Time = 6.752503E+04 days
2089 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.38 (0.38 sec) Binary
2091 Time Step No. = 171 Elapsed Time = 6.952503E+04 days
2092 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.39 (0.39 sec) Binary
2094 Time Step No. = 172 Elapsed Time = 7.152503E+04 days
2095 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.39 (0.39 sec) Binary

2097 Time Step No. = 173 Elapsed Time = 7.352503E+04 days
2098 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.39 (0.39 sec) Binary
2100 Time Step No. = 174 Elapsed Time = 7.552503E+04 days
2101 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.40 (0.40 sec) Binary
2103 Time Step No. = 175 Elapsed Time = 7.752503E+04 days
2104 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.40 (0.40 sec) Binary
2106 Time Step No. = 176 Elapsed Time = 7.952503E+04 days
2107 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.40 (0.40 sec) Binary
2109 Time Step No. = 177 Elapsed Time = 8.152503E+04 days
2110 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.41 (0.41 sec) Binary
2112 Time Step No. = 178 Elapsed Time = 8.352503E+04 days
2113 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.41 (0.41 sec) Binary
2115 Time Step No. = 179 Elapsed Time = 8.552503E+04 days
2116 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.42 (0.42 sec) Binary
2118 Time Step No. = 180 Elapsed Time = 8.752503E+04 days
2119 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.42 (0.42 sec) Binary
2121 Time Step No. = 181 Elapsed Time = 8.952503E+04 days
2122 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.42 (0.42 sec) Binary
2124 Time Step No. = 182 Elapsed Time = 9.152503E+04 days
2125 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.43 (0.43 sec) Binary
2127 Time Step No. = 183 Elapsed Time = 9.352503E+04 days
2128 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.43 (0.43 sec) Binary
2130 Time Step No. = 184 Elapsed Time = 9.552503E+04 days
2131 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.43 (0.43 sec) Binary
2133 Time Step No. = 185 Elapsed Time = 9.752503E+04 days
2134 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.44 (0.44 sec) Binary
2136 Time Step No. = 186 Elapsed Time = 9.952503E+04 days
2137 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.44 (0.44 sec) Binary
2139 Time Step No. = 187 Elapsed Time = 1.015250E+05 days
2140 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.44 (0.44 sec) Binary
2142 Time Step No. = 188 Elapsed Time = 1.035250E+05 days
2143 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.45 (0.45 sec) Binary
2145 Time Step No. = 189 Elapsed Time = 1.055250E+05 days
2146 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.45 (0.45 sec) Binary
2148 Time Step No. = 190 Elapsed Time = 1.075250E+05 days
2149 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.45 (0.45 sec) Binary
2151 Time Step No. = 191 Elapsed Time = 1.095250E+05 days
2152 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.46 (0.46 sec) Binary
2154 Time Step No. = 192 Elapsed Time = 1.115250E+05 days
2155 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.46 (0.46 sec) Binary
2157 Time Step No. = 193 Elapsed Time = 1.135250E+05 days
2158 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.46 (0.46 sec) Binary
2160 Time Step No. = 194 Elapsed Time = 1.155250E+05 days
2161 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.47 (0.47 sec) Binary
2163 Time Step No. = 195 Elapsed Time = 1.175250E+05 days
2164 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.47 (0.47 sec) Binary
2166 Time Step No. = 196 Elapsed Time = 1.195250E+05 days
2167 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.47 (0.47 sec) Binary
2169 Time Step No. = 197 Elapsed Time = 1.215250E+05 days
2170 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.48 (0.48 sec) Binary
2172 Time Step No. = 198 Elapsed Time = 1.235250E+05 days
2173 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.48 (0.48 sec) Binary
2175 Time Step No. = 199 Elapsed Time = 1.255250E+05 days
2176 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.48 (0.48 sec) Binary
2178 Time Step No. = 200 Elapsed Time = 1.275250E+05 days
2179 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.49 (0.49 sec) Binary
2181 Time Step No. = 201 Elapsed Time = 1.295250E+05 days
2182 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.49 (0.49 sec) Binary
2184 Time Step No. = 202 Elapsed Time = 1.315250E+05 days
2185 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.49 (0.49 sec) Binary
2187 Time Step No. = 203 Elapsed Time = 1.335250E+05 days
2188 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.49 (0.49 sec) Binary
2190 Time Step No. = 204 Elapsed Time = 1.355250E+05 days
2191 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.49 (0.49 sec) Binary
2193 Time Step No. = 205 Elapsed Time = 1.375250E+05 days
2194 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.50 (0.50 sec) Binary
2196 Time Step No. = 206 Elapsed Time = 1.395250E+05 days
2197 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.50 (0.50 sec) Binary
2199 Time Step No. = 207 Elapsed Time = 1.415250E+05 days
2200 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.50 (0.50 sec) Binary
2202 Time Step No. = 208 Elapsed Time = 1.435250E+05 days
2203 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.50 (0.50 sec) Binary
2205 Time Step No. = 209 Elapsed Time = 1.455250E+05 days
2206 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.51 (0.51 sec) Binary
2208 Time Step No. = 210 Elapsed Time = 1.475250E+05 days
2209 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.51 (0.51 sec) Binary

2211 Time Step No. = 211 Elapsed Time = 1.495250E+05 days
2212 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.51 (0.51 sec) Binary
2214 Time Step No. = 212 Elapsed Time = 1.515250E+05 days
2215 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.52 (0.52 sec) Binary
2217 Time Step No. = 213 Elapsed Time = 1.535250E+05 days
2218 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.52 (0.52 sec) Binary
2220 Time Step No. = 214 Elapsed Time = 1.555250E+05 days
2221 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.52 (0.52 sec) Binary
2223 Time Step No. = 215 Elapsed Time = 1.575250E+05 days
2224 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.53 (0.53 sec) Binary
2226 Time Step No. = 216 Elapsed Time = 1.595250E+05 days
2227 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.53 (0.53 sec) Binary
2229 Time Step No. = 217 Elapsed Time = 1.615250E+05 days
2230 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.53 (0.53 sec) Binary
2232 Time Step No. = 218 Elapsed Time = 1.635250E+05 days
2233 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 (0.54 sec) Binary
2235 Time Step No. = 219 Elapsed Time = 1.655250E+05 days
2236 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 (0.54 sec) Binary
2238 Time Step No. = 220 Elapsed Time = 1.675250E+05 days
2239 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 (0.54 sec) Binary
2241 Time Step No. = 221 Elapsed Time = 1.695250E+05 days
2242 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 (0.54 sec) Binary
2244 Time Step No. = 222 Elapsed Time = 1.715250E+05 days
2245 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 (0.54 sec) Binary
2247 Time Step No. = 223 Elapsed Time = 1.735250E+05 days
2248 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 (0.54 sec) Binary
2250 Time Step No. = 224 Elapsed Time = 1.755250E+05 days
2251 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 (0.54 sec) Binary
2253 Time Step No. = 225 Elapsed Time = 1.775250E+05 days
2254 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.55 (0.55 sec) Binary
2256 Time Step No. = 226 Elapsed Time = 1.795250E+05 days
2257 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.55 (0.55 sec) Binary
2259 Time Step No. = 227 Elapsed Time = 1.815250E+05 days
2260 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.56 (0.56 sec) Binary
2262 Time Step No. = 228 Elapsed Time = 1.835250E+05 days
2263 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.56 (0.56 sec) Binary
2265 Time Step No. = 229 Elapsed Time = 1.855250E+05 days
2266 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.56 (0.56 sec) Binary
2268 Time Step No. = 230 Elapsed Time = 1.875250E+05 days
2269 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.57 (0.57 sec) Binary
2271 Time Step No. = 231 Elapsed Time = 1.895250E+05 days
2272 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.57 (0.57 sec) Binary
2274 Time Step No. = 232 Elapsed Time = 1.915250E+05 days
2275 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.57 (0.57 sec) Binary
2277 Time Step No. = 233 Elapsed Time = 1.935250E+05 days
2278 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.58 (0.58 sec) Binary
2280 Time Step No. = 234 Elapsed Time = 1.955250E+05 days
2281 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.58 (0.58 sec) Binary
2283 Time Step No. = 235 Elapsed Time = 1.975250E+05 days
2284 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.58 (0.58 sec) Binary
2286 Time Step No. = 236 Elapsed Time = 1.995250E+05 days
2287 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.58 (0.58 sec) Binary
2289 Time Step No. = 237 Elapsed Time = 2.015250E+05 days
2290 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.59 (0.59 sec) Binary
2292 Time Step No. = 238 Elapsed Time = 2.035250E+05 days
2293 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.59 (0.59 sec) Binary
2295 Time Step No. = 239 Elapsed Time = 2.055250E+05 days
2296 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.60 (0.60 sec) Binary
2298 Time Step No. = 240 Elapsed Time = 2.075250E+05 days
2299 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.60 (0.60 sec) Binary
2301 Time Step No. = 241 Elapsed Time = 2.095250E+05 days
2302 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.60 (0.60 sec) Binary
2304 Time Step No. = 242 Elapsed Time = 2.115250E+05 days
2305 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.61 (0.61 sec) Binary
2307 Time Step No. = 243 Elapsed Time = 2.135250E+05 days
2308 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.61 (0.61 sec) Binary
2310 Time Step No. = 244 Elapsed Time = 2.155250E+05 days
2311 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.61 (0.61 sec) Binary
2313 Time Step No. = 245 Elapsed Time = 2.175250E+05 days
2314 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.62 (0.62 sec) Binary
2316 Time Step No. = 246 Elapsed Time = 2.195250E+05 days
2317 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.62 (0.62 sec) Binary
2319 Time Step No. = 247 Elapsed Time = 2.215250E+05 days
2320 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.62 (0.62 sec) Binary
2322 Time Step No. = 248 Elapsed Time = 2.235250E+05 days
2323 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.63 (0.63 sec) Binary

2439 Time Step No. = 287 Elapsed Time = 3.015250E+05 days
2440 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.71 (0.71 sec) Binary
2442 Time Step No. = 288 Elapsed Time = 3.035250E+05 days
2443 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.71 (0.71 sec) Binary
2445 Time Step No. = 289 Elapsed Time = 3.055250E+05 days
2446 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.71 (0.71 sec) Binary
2448 Time Step No. = 290 Elapsed Time = 3.075250E+05 days
2449 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.71 (0.71 sec) Binary
2451 Time Step No. = 291 Elapsed Time = 3.095250E+05 days
2452 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2454 Time Step No. = 292 Elapsed Time = 3.115250E+05 days
2455 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2457 Time Step No. = 293 Elapsed Time = 3.135250E+05 days
2458 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2460 Time Step No. = 294 Elapsed Time = 3.155250E+05 days
2461 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2463 Time Step No. = 295 Elapsed Time = 3.175250E+05 days
2464 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2466 Time Step No. = 296 Elapsed Time = 3.195250E+05 days
2467 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 (0.72 sec) Binary
2469 Time Step No. = 297 Elapsed Time = 3.215250E+05 days
2470 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 (0.73 sec) Binary
2472 Time Step No. = 298 Elapsed Time = 3.235250E+05 days
2473 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 (0.73 sec) Binary
2475 Time Step No. = 299 Elapsed Time = 3.255250E+05 days
2476 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 (0.73 sec) Binary
2478 Time Step No. = 300 Elapsed Time = 3.275250E+05 days
2479 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 (0.73 sec) Binary
2481 Time Step No. = 301 Elapsed Time = 3.295250E+05 days
2482 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 (0.73 sec) Binary
2484 Time Step No. = 302 Elapsed Time = 3.315250E+05 days
2485 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 (0.73 sec) Binary
2487 Time Step No. = 303 Elapsed Time = 3.335250E+05 days
2488 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2490 Time Step No. = 304 Elapsed Time = 3.355250E+05 days
2491 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2493 Time Step No. = 305 Elapsed Time = 3.375250E+05 days
2494 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2496 Time Step No. = 306 Elapsed Time = 3.395250E+05 days
2497 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2499 Time Step No. = 307 Elapsed Time = 3.415250E+05 days
2500 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2502 Time Step No. = 308 Elapsed Time = 3.435250E+05 days
2503 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.75 (0.75 sec) Binary
2505 Time Step No. = 309 Elapsed Time = 3.455250E+05 days
2506 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.75 (0.75 sec) Binary
2508 Time Step No. = 310 Elapsed Time = 3.475250E+05 days
2509 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.75 (0.75 sec) Binary
2511 Time Step No. = 311 Elapsed Time = 3.495250E+05 days
2512 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.75 (0.75 sec) Binary
2514 Time Step No. = 312 Elapsed Time = 3.515250E+05 days
2515 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.75 (0.75 sec) Binary
2517 Time Step No. = 313 Elapsed Time = 3.535250E+05 days
2518 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 (0.76 sec) Binary
2520 Time Step No. = 314 Elapsed Time = 3.555250E+05 days
2521 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 (0.76 sec) Binary
2523 Time Step No. = 315 Elapsed Time = 3.575250E+05 days
2524 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 (0.76 sec) Binary
2526 Time Step No. = 316 Elapsed Time = 3.595250E+05 days
2527 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 (0.76 sec) Binary
2529 Time Step No. = 317 Elapsed Time = 3.615250E+05 days
2530 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 (0.76 sec) Binary
2532 Time Step No. = 318 Elapsed Time = 3.635250E+05 days
2533 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 (0.76 sec) Binary
2536 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
2544 CPU Time (this time step) = 0.00 sec = 0.00000 hr
2545 CPU Time (total for run) = 0.73 sec = 0.00020 hr
2546 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
2544 CPU Time (this time step) = 0.01 sec = 0.00000 hr
2545 CPU Time (total for run) = 0.77 sec = 0.00021 hr
2546 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
2741 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 (0.74 sec) ASCII
2743 Time Step No. = 319 Elapsed Time = 3.652431E+05 days
2744 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2746 Time Step No. = 320 Elapsed Time = 3.672431E+05 days
2747 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2749 Time Step No. = 321 Elapsed Time = 3.692431E+05 days
2750 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2752 Time Step No. = 322 Elapsed Time = 3.712431E+05 days
2753 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2755 Time Step No. = 323 Elapsed Time = 3.732431E+05 days
2756 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2758 Time Step No. = 324 Elapsed Time = 3.752431E+05 days
2759 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2761 Time Step No. = 325 Elapsed Time = 3.772431E+05 days
2762 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2764 Time Step No. = 326 Elapsed Time = 3.792431E+05 days
2765 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2767 Time Step No. = 327 Elapsed Time = 3.812431E+05 days
2768 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2770 Time Step No. = 328 Elapsed Time = 3.832431E+05 days
2771 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 (0.74 sec) Binary
2773 Time Step No. = 329 Elapsed Time = 3.852431E+05 days
2774 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.75 (0.75 sec) Binary
2776 Time Step No. = 330 Elapsed Time = 3.872431E+05 days
2777 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.75 (0.75 sec) Binary
2779 Time Step No. = 331 Elapsed Time = 3.892431E+05 days
2780 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.75 (0.75 sec) Binary
2782 Time Step No. = 332 Elapsed Time = 3.912431E+05 days
2783 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.75 (0.75 sec) Binary
2785 Time Step No. = 333 Elapsed Time = 3.932431E+05 days
2786 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.75 (0.75 sec) Binary
2788 Time Step No. = 334 Elapsed Time = 3.952431E+05 days
2789 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.75 (0.75 sec) Binary
2791 Time Step No. = 335 Elapsed Time = 3.972431E+05 days
2792 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.76 (0.76 sec) Binary
2794 Time Step No. = 336 Elapsed Time = 3.992431E+05 days
2795 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.76 (0.76 sec) Binary
2797 Time Step No. = 337 Elapsed Time = 4.012431E+05 days
2798 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.76 (0.76 sec) Binary
2800 Time Step No. = 338 Elapsed Time = 4.032431E+05 days
2801 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.76 (0.76 sec) Binary
2803 Time Step No. = 339 Elapsed Time = 4.052431E+05 days
2804 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.76 (0.76 sec) Binary
2806 Time Step No. = 340 Elapsed Time = 4.072431E+05 days
2807 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.77 (0.77 sec) Binary
2809 Time Step No. = 341 Elapsed Time = 4.092431E+05 days
2810 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.77 (0.77 sec) Binary
2812 Time Step No. = 342 Elapsed Time = 4.112431E+05 days
2813 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.77 (0.77 sec) Binary
2815 Time Step No. = 343 Elapsed Time = 4.132431E+05 days
2816 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.77 (0.77 sec) Binary
2818 Time Step No. = 344 Elapsed Time = 4.152431E+05 days
2819 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.77 (0.77 sec) Binary
2821 Time Step No. = 345 Elapsed Time = 4.172431E+05 days
2822 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.77 (0.77 sec) Binary
2824 Time Step No. = 346 Elapsed Time = 4.192431E+05 days
2825 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.78 (0.78 sec) Binary
2827 Time Step No. = 347 Elapsed Time = 4.212431E+05 days
2828 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.78 (0.78 sec) Binary
2830 Time Step No. = 348 Elapsed Time = 4.232431E+05 days
2831 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.78 (0.78 sec) Binary
2833 Time Step No. = 349 Elapsed Time = 4.252431E+05 days
2834 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.78 (0.78 sec) Binary
2836 Time Step No. = 350 Elapsed Time = 4.272431E+05 days
2837 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.78 (0.78 sec) Binary
2839 Time Step No. = 351 Elapsed Time = 4.292431E+05 days
2840 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary
2842 Time Step No. = 352 Elapsed Time = 4.312431E+05 days
2843 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary
2845 Time Step No. = 353 Elapsed Time = 4.332431E+05 days
2846 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary
2848 Time Step No. = 354 Elapsed Time = 4.352431E+05 days
2849 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary

2851 Time Step No. = 355 Elapsed Time = 4.372431E+05 days
2852 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary
2854 Time Step No. = 356 Elapsed Time = 4.392431E+05 days
2855 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary
2857 Time Step No. = 357 Elapsed Time = 4.412431E+05 days
2858 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary
2860 Time Step No. = 358 Elapsed Time = 4.432431E+05 days
2861 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary
2863 Time Step No. = 359 Elapsed Time = 4.452431E+05 days
2864 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary
2866 Time Step No. = 360 Elapsed Time = 4.472431E+05 days
2867 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary
2869 Time Step No. = 361 Elapsed Time = 4.492431E+05 days
2870 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary
2872 Time Step No. = 362 Elapsed Time = 4.512431E+05 days
2873 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary
2875 Time Step No. = 363 Elapsed Time = 4.532431E+05 days
2876 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary
2878 Time Step No. = 364 Elapsed Time = 4.552431E+05 days
2879 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary
2882 *****

File PAA: [ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1

2741 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 (0.77 sec) ASCII
2743 Time Step No. = 319 Elapsed Time = 3.652431E+05 days
2744 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 (0.77 sec) Binary
2746 Time Step No. = 320 Elapsed Time = 3.672431E+05 days
2747 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 (0.77 sec) Binary
2749 Time Step No. = 321 Elapsed Time = 3.692431E+05 days
2750 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 (0.77 sec) Binary
2752 Time Step No. = 322 Elapsed Time = 3.712431E+05 days
2753 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 (0.77 sec) Binary
2755 Time Step No. = 323 Elapsed Time = 3.732431E+05 days
2756 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 (0.77 sec) Binary
2758 Time Step No. = 324 Elapsed Time = 3.752431E+05 days
2759 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 (0.77 sec) Binary
2761 Time Step No. = 325 Elapsed Time = 3.772431E+05 days
2762 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 (0.77 sec) Binary
2764 Time Step No. = 326 Elapsed Time = 3.792431E+05 days
2765 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 (0.77 sec) Binary
2767 Time Step No. = 327 Elapsed Time = 3.812431E+05 days
2768 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 (0.78 sec) Binary
2770 Time Step No. = 328 Elapsed Time = 3.832431E+05 days
2771 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 (0.78 sec) Binary
2773 Time Step No. = 329 Elapsed Time = 3.852431E+05 days
2774 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 (0.78 sec) Binary
2776 Time Step No. = 330 Elapsed Time = 3.872431E+05 days
2777 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 (0.78 sec) Binary
2779 Time Step No. = 331 Elapsed Time = 3.892431E+05 days
2780 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 (0.78 sec) Binary
2782 Time Step No. = 332 Elapsed Time = 3.912431E+05 days
2783 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 (0.78 sec) Binary
2785 Time Step No. = 333 Elapsed Time = 3.932431E+05 days
2786 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary
2788 Time Step No. = 334 Elapsed Time = 3.952431E+05 days
2789 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary
2791 Time Step No. = 335 Elapsed Time = 3.972431E+05 days
2792 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary
2794 Time Step No. = 336 Elapsed Time = 3.992431E+05 days
2795 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary
2797 Time Step No. = 337 Elapsed Time = 4.012431E+05 days
2798 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.79 (0.79 sec) Binary
2800 Time Step No. = 338 Elapsed Time = 4.032431E+05 days
2801 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.80 (0.80 sec) Binary
2803 Time Step No. = 339 Elapsed Time = 4.052431E+05 days
2804 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.80 (0.80 sec) Binary
2806 Time Step No. = 340 Elapsed Time = 4.072431E+05 days
2807 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.80 (0.80 sec) Binary
2809 Time Step No. = 341 Elapsed Time = 4.092431E+05 days
2810 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.80 (0.80 sec) Binary
2812 Time Step No. = 342 Elapsed Time = 4.112431E+05 days
2813 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.80 (0.80 sec) Binary
2815 Time Step No. = 343 Elapsed Time = 4.132431E+05 days
2816 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 (0.81 sec) Binary
2818 Time Step No. = 344 Elapsed Time = 4.152431E+05 days
2819 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 (0.81 sec) Binary

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2821 Time Step No. = 345 Elapsed Time = 4.172431E+05 days
2822 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
2824 Time Step No. = 346 Elapsed Time = 4.192431E+05 days
2825 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
2827 Time Step No. = 347 Elapsed Time = 4.212431E+05 days
2828 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
2830 Time Step No. = 348 Elapsed Time = 4.232431E+05 days
2831 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
2833 Time Step No. = 349 Elapsed Time = 4.252431E+05 days
2834 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
2836 Time Step No. = 350 Elapsed Time = 4.272431E+05 days
2837 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
2839 Time Step No. = 351 Elapsed Time = 4.292431E+05 days
2840 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
2842 Time Step No. = 352 Elapsed Time = 4.312431E+05 days
2843 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
2845 Time Step No. = 353 Elapsed Time = 4.332431E+05 days
2846 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
2848 Time Step No. = 354 Elapsed Time = 4.352431E+05 days
2849 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
2851 Time Step No. = 355 Elapsed Time = 4.372431E+05 days
2852 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2854 Time Step No. = 356 Elapsed Time = 4.392431E+05 days
2855 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2857 Time Step No. = 357 Elapsed Time = 4.412431E+05 days
2858 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2860 Time Step No. = 358 Elapsed Time = 4.432431E+05 days
2861 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2863 Time Step No. = 359 Elapsed Time = 4.452431E+05 days
2864 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2866 Time Step No. = 360 Elapsed Time = 4.472431E+05 days
2867 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2869 Time Step No. = 361 Elapsed Time = 4.492431E+05 days
2870 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2872 Time Step No. = 362 Elapsed Time = 4.512431E+05 days
2873 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2875 Time Step No. = 363 Elapsed Time = 4.532431E+05 days
2876 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2878 Time Step No. = 364 Elapsed Time = 4.552431E+05 days
2879 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2882 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
2891 CPU Time (total for run) = 0.79 sec = 0.00022 hr
2892 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
2891 CPU Time (total for run) = 0.83 sec = 0.00023 hr
2892 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
3087 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) ASCII
3089 Time Step No. = 365 Elapsed Time = 4.565625E+05 days
3090 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
3092 Time Step No. = 366 Elapsed Time = 4.585625E+05 days
3093 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
3095 Time Step No. = 367 Elapsed Time = 4.605625E+05 days
3096 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
3098 Time Step No. = 368 Elapsed Time = 4.625625E+05 days
3099 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
3101 Time Step No. = 369 Elapsed Time = 4.645625E+05 days
3102 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
3104 Time Step No. = 370 Elapsed Time = 4.665625E+05 days
3105 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
3107 Time Step No. = 371 Elapsed Time = 4.685625E+05 days
3108 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
3110 Time Step No. = 372 Elapsed Time = 4.705625E+05 days
3111 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
3113 Time Step No. = 373 Elapsed Time = 4.725625E+05 days
3114 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
3116 Time Step No. = 374 Elapsed Time = 4.745625E+05 days
3117 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
3119 Time Step No. = 375 Elapsed Time = 4.765625E+05 days
3120 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
```


3122 Time Step No. = 376 Elapsed Time = 4.785625E+05 days
3123 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.80 (0.80 sec) Binary
3125 Time Step No. = 377 Elapsed Time = 4.805625E+05 days
3126 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.80 (0.80 sec) Binary
3128 Time Step No. = 378 Elapsed Time = 4.825625E+05 days
3129 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.80 (0.80 sec) Binary
3131 Time Step No. = 379 Elapsed Time = 4.845625E+05 days
3132 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.80 (0.80 sec) Binary
3134 Time Step No. = 380 Elapsed Time = 4.865625E+05 days
3135 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.80 (0.80 sec) Binary
3137 Time Step No. = 381 Elapsed Time = 4.885625E+05 days
3138 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.80 (0.80 sec) Binary
3140 Time Step No. = 382 Elapsed Time = 4.905625E+05 days
3141 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.81 (0.81 sec) Binary
3143 Time Step No. = 383 Elapsed Time = 4.925625E+05 days
3144 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.81 (0.81 sec) Binary
3146 Time Step No. = 384 Elapsed Time = 4.945625E+05 days
3147 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.81 (0.81 sec) Binary
3149 Time Step No. = 385 Elapsed Time = 4.965625E+05 days
3150 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.81 (0.81 sec) Binary
3152 Time Step No. = 386 Elapsed Time = 4.985625E+05 days
3153 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.81 (0.81 sec) Binary
3155 Time Step No. = 387 Elapsed Time = 5.005625E+05 days
3156 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.81 (0.81 sec) Binary
3158 Time Step No. = 388 Elapsed Time = 5.025625E+05 days
3159 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.81 (0.81 sec) Binary
3161 Time Step No. = 389 Elapsed Time = 5.045625E+05 days
3162 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.82 (0.82 sec) Binary
3164 Time Step No. = 390 Elapsed Time = 5.065625E+05 days
3165 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.82 (0.82 sec) Binary
3167 Time Step No. = 391 Elapsed Time = 5.085625E+05 days
3168 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.82 (0.82 sec) Binary
3170 Time Step No. = 392 Elapsed Time = 5.105625E+05 days
3171 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.82 (0.82 sec) Binary
3173 Time Step No. = 393 Elapsed Time = 5.125625E+05 days
3174 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.82 (0.82 sec) Binary
3176 Time Step No. = 394 Elapsed Time = 5.145625E+05 days
3177 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.82 (0.82 sec) Binary
3179 Time Step No. = 395 Elapsed Time = 5.165625E+05 days
3180 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.83 (0.83 sec) Binary
3182 Time Step No. = 396 Elapsed Time = 5.185625E+05 days
3183 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.83 (0.83 sec) Binary
3185 Time Step No. = 397 Elapsed Time = 5.205625E+05 days
3186 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.83 (0.83 sec) Binary
3188 Time Step No. = 398 Elapsed Time = 5.225625E+05 days
3189 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.83 (0.83 sec) Binary
3191 Time Step No. = 399 Elapsed Time = 5.245625E+05 days
3192 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.83 (0.83 sec) Binary
3194 Time Step No. = 400 Elapsed Time = 5.265625E+05 days
3195 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.83 (0.83 sec) Binary
3197 Time Step No. = 401 Elapsed Time = 5.285625E+05 days
3198 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.83 (0.83 sec) Binary
3200 Time Step No. = 402 Elapsed Time = 5.305625E+05 days
3201 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.84 (0.84 sec) Binary
3203 Time Step No. = 403 Elapsed Time = 5.325625E+05 days
3204 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.84 (0.84 sec) Binary
3206 Time Step No. = 404 Elapsed Time = 5.345625E+05 days
3207 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.84 (0.84 sec) Binary
3209 Time Step No. = 405 Elapsed Time = 5.365625E+05 days
3210 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.84 (0.84 sec) Binary
3212 Time Step No. = 406 Elapsed Time = 5.385625E+05 days
3213 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.84 (0.84 sec) Binary
3215 Time Step No. = 407 Elapsed Time = 5.405625E+05 days
3216 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.84 (0.84 sec) Binary
3218 Time Step No. = 408 Elapsed Time = 5.425625E+05 days
3219 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.85 (0.85 sec) Binary
3221 Time Step No. = 409 Elapsed Time = 5.445625E+05 days
3222 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.85 (0.85 sec) Binary
3224 Time Step No. = 410 Elapsed Time = 5.465625E+05 days
3225 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.85 (0.85 sec) Binary
3228 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
3087 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 (0.84 sec) ASCII
3089 Time Step No. = 365 Elapsed Time = 4.565625E+05 days
3090 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 (0.84 sec) Binary


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3206 Time Step No. = 404 Elapsed Time = 5.345625E+05 days
3207 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
3209 Time Step No. = 405 Elapsed Time = 5.365625E+05 days
3210 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
3212 Time Step No. = 406 Elapsed Time = 5.385625E+05 days
3213 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
3215 Time Step No. = 407 Elapsed Time = 5.405625E+05 days
3216 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
3218 Time Step No. = 408 Elapsed Time = 5.425625E+05 days
3219 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
3221 Time Step No. = 409 Elapsed Time = 5.445625E+05 days
3222 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
3224 Time Step No. = 410 Elapsed Time = 5.465625E+05 days
3225 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
3228 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
3237 CPU Time (total for run) = 0.85 sec = 0.00024 hr
3238 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
3237 CPU Time (total for run) = 0.91 sec = 0.00025 hr
3238 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
3433 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) ASCII
3435 Time Step No. = 411 Elapsed Time = 5.478704E+05 days
3436 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
3438 Time Step No. = 412 Elapsed Time = 5.498704E+05 days
3439 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
3441 Time Step No. = 413 Elapsed Time = 5.518704E+05 days
3442 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
3444 Time Step No. = 414 Elapsed Time = 5.538704E+05 days
3445 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
3447 Time Step No. = 415 Elapsed Time = 5.558704E+05 days
3448 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
3450 Time Step No. = 416 Elapsed Time = 5.578704E+05 days
3451 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
3453 Time Step No. = 417 Elapsed Time = 5.598704E+05 days
3454 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
3456 Time Step No. = 418 Elapsed Time = 5.618704E+05 days
3457 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
3459 Time Step No. = 419 Elapsed Time = 5.638704E+05 days
3460 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
3462 Time Step No. = 420 Elapsed Time = 5.658704E+05 days
3463 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
3465 Time Step No. = 421 Elapsed Time = 5.678704E+05 days
3466 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
3468 Time Step No. = 422 Elapsed Time = 5.698704E+05 days
3469 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
3471 Time Step No. = 423 Elapsed Time = 5.718704E+05 days
3472 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
3474 Time Step No. = 424 Elapsed Time = 5.738704E+05 days
3475 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
3477 Time Step No. = 425 Elapsed Time = 5.758704E+05 days
3478 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
3480 Time Step No. = 426 Elapsed Time = 5.778704E+05 days
3481 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
3483 Time Step No. = 427 Elapsed Time = 5.798704E+05 days
3484 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
3486 Time Step No. = 428 Elapsed Time = 5.818704E+05 days
3487 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
3489 Time Step No. = 429 Elapsed Time = 5.838704E+05 days
3490 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
3492 Time Step No. = 430 Elapsed Time = 5.858704E+05 days
3493 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
3495 Time Step No. = 431 Elapsed Time = 5.878704E+05 days
3496 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
3498 Time Step No. = 432 Elapsed Time = 5.898704E+05 days
3499 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
3501 Time Step No. = 433 Elapsed Time = 5.918704E+05 days
3502 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
3504 Time Step No. = 434 Elapsed Time = 5.938704E+05 days
3505 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
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3507 Time Step No. = 435 Elapsed Time = 5.958704E+05 days
3508 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.89 (0.89 sec) Binary
3510 Time Step No. = 436 Elapsed Time = 5.978704E+05 days
3511 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.89 (0.89 sec) Binary
3513 Time Step No. = 437 Elapsed Time = 5.998704E+05 days
3514 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.89 (0.89 sec) Binary
3516 Time Step No. = 438 Elapsed Time = 6.018704E+05 days
3517 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.90 (0.90 sec) Binary
3519 Time Step No. = 439 Elapsed Time = 6.038704E+05 days
3520 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.90 (0.90 sec) Binary
3522 Time Step No. = 440 Elapsed Time = 6.058704E+05 days
3523 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.90 (0.90 sec) Binary
3525 Time Step No. = 441 Elapsed Time = 6.078704E+05 days
3526 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.90 (0.90 sec) Binary
3528 Time Step No. = 442 Elapsed Time = 6.098704E+05 days
3529 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.90 (0.90 sec) Binary
3531 Time Step No. = 443 Elapsed Time = 6.118704E+05 days
3532 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.90 (0.90 sec) Binary
3534 Time Step No. = 444 Elapsed Time = 6.138704E+05 days
3535 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.91 (0.91 sec) Binary
3537 Time Step No. = 445 Elapsed Time = 6.158704E+05 days
3538 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.91 (0.91 sec) Binary
3540 Time Step No. = 446 Elapsed Time = 6.178704E+05 days
3541 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.91 (0.91 sec) Binary
3543 Time Step No. = 447 Elapsed Time = 6.198704E+05 days
3544 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.91 (0.91 sec) Binary
3546 Time Step No. = 448 Elapsed Time = 6.218704E+05 days
3547 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.91 (0.91 sec) Binary
3549 Time Step No. = 449 Elapsed Time = 6.238704E+05 days
3550 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.91 (0.91 sec) Binary
3552 Time Step No. = 450 Elapsed Time = 6.258704E+05 days
3553 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.91 (0.91 sec) Binary
3555 Time Step No. = 451 Elapsed Time = 6.278704E+05 days
3556 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.92 (0.92 sec) Binary
3558 Time Step No. = 452 Elapsed Time = 6.298704E+05 days
3559 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.92 (0.92 sec) Binary
3561 Time Step No. = 453 Elapsed Time = 6.318704E+05 days
3562 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.92 (0.92 sec) Binary
3564 Time Step No. = 454 Elapsed Time = 6.338704E+05 days
3565 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.92 (0.92 sec) Binary
3567 Time Step No. = 455 Elapsed Time = 6.358704E+05 days
3568 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.92 (0.92 sec) Binary
3570 Time Step No. = 456 Elapsed Time = 6.378704E+05 days
3571 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.92 (0.92 sec) Binary
3574 *****

File PAA: [ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
3433 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 (0.91 sec) ASCII
3435 Time Step No. = 411 Elapsed Time = 5.478704E+05 days
3436 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 (0.91 sec) Binary
3438 Time Step No. = 412 Elapsed Time = 5.498704E+05 days
3439 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 (0.91 sec) Binary
3441 Time Step No. = 413 Elapsed Time = 5.518704E+05 days
3442 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 (0.91 sec) Binary
3444 Time Step No. = 414 Elapsed Time = 5.538704E+05 days
3445 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 (0.92 sec) Binary
3447 Time Step No. = 415 Elapsed Time = 5.558704E+05 days
3448 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 (0.92 sec) Binary
3450 Time Step No. = 416 Elapsed Time = 5.578704E+05 days
3451 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 (0.92 sec) Binary
3453 Time Step No. = 417 Elapsed Time = 5.598704E+05 days
3454 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 (0.92 sec) Binary
3456 Time Step No. = 418 Elapsed Time = 5.618704E+05 days
3457 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 (0.92 sec) Binary
3459 Time Step No. = 419 Elapsed Time = 5.638704E+05 days
3460 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 (0.92 sec) Binary
3462 Time Step No. = 420 Elapsed Time = 5.658704E+05 days
3463 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.93 (0.93 sec) Binary
3465 Time Step No. = 421 Elapsed Time = 5.678704E+05 days
3466 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.93 (0.93 sec) Binary
3468 Time Step No. = 422 Elapsed Time = 5.698704E+05 days
3469 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.93 (0.93 sec) Binary
3471 Time Step No. = 423 Elapsed Time = 5.718704E+05 days
3472 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.93 (0.93 sec) Binary
3474 Time Step No. = 424 Elapsed Time = 5.738704E+05 days
3475 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.93 (0.93 sec) Binary

3477 Time Step No. = 425 Elapsed Time = 5.758704E+05 days
3478 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.93 (0.93 sec) Binary
3480 Time Step No. = 426 Elapsed Time = 5.778704E+05 days
3481 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 (0.94 sec) Binary
3483 Time Step No. = 427 Elapsed Time = 5.798704E+05 days
3484 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 (0.94 sec) Binary
3486 Time Step No. = 428 Elapsed Time = 5.818704E+05 days
3487 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 (0.94 sec) Binary
3489 Time Step No. = 429 Elapsed Time = 5.838704E+05 days
3490 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 (0.94 sec) Binary
3492 Time Step No. = 430 Elapsed Time = 5.858704E+05 days
3493 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 (0.94 sec) Binary
3495 Time Step No. = 431 Elapsed Time = 5.878704E+05 days
3496 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 (0.94 sec) Binary
3498 Time Step No. = 432 Elapsed Time = 5.898704E+05 days
3499 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 (0.94 sec) Binary
3501 Time Step No. = 433 Elapsed Time = 5.918704E+05 days
3502 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 (0.95 sec) Binary
3504 Time Step No. = 434 Elapsed Time = 5.938704E+05 days
3505 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 (0.95 sec) Binary
3507 Time Step No. = 435 Elapsed Time = 5.958704E+05 days
3508 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 (0.95 sec) Binary
3510 Time Step No. = 436 Elapsed Time = 5.978704E+05 days
3511 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 (0.95 sec) Binary
3513 Time Step No. = 437 Elapsed Time = 5.998704E+05 days
3514 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 (0.95 sec) Binary
3516 Time Step No. = 438 Elapsed Time = 6.018704E+05 days
3517 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 (0.95 sec) Binary
3519 Time Step No. = 439 Elapsed Time = 6.038704E+05 days
3520 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 (0.95 sec) Binary
3522 Time Step No. = 440 Elapsed Time = 6.058704E+05 days
3523 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.96 (0.96 sec) Binary
3525 Time Step No. = 441 Elapsed Time = 6.078704E+05 days
3526 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.96 (0.96 sec) Binary
3528 Time Step No. = 442 Elapsed Time = 6.098704E+05 days
3529 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.96 (0.96 sec) Binary
3531 Time Step No. = 443 Elapsed Time = 6.118704E+05 days
3532 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.96 (0.96 sec) Binary
3534 Time Step No. = 444 Elapsed Time = 6.138704E+05 days
3535 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 (0.97 sec) Binary
3537 Time Step No. = 445 Elapsed Time = 6.158704E+05 days
3538 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 (0.97 sec) Binary
3540 Time Step No. = 446 Elapsed Time = 6.178704E+05 days
3541 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 (0.97 sec) Binary
3543 Time Step No. = 447 Elapsed Time = 6.198704E+05 days
3544 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 (0.97 sec) Binary
3546 Time Step No. = 448 Elapsed Time = 6.218704E+05 days
3547 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 (0.97 sec) Binary
3549 Time Step No. = 449 Elapsed Time = 6.238704E+05 days
3550 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 (0.97 sec) Binary
3552 Time Step No. = 450 Elapsed Time = 6.258704E+05 days
3553 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 (0.97 sec) Binary
3555 Time Step No. = 451 Elapsed Time = 6.278704E+05 days
3556 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.98 (0.98 sec) Binary
3558 Time Step No. = 452 Elapsed Time = 6.298704E+05 days
3559 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.98 (0.98 sec) Binary
3561 Time Step No. = 453 Elapsed Time = 6.318704E+05 days
3562 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.98 (0.98 sec) Binary
3564 Time Step No. = 454 Elapsed Time = 6.338704E+05 days
3565 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.98 (0.98 sec) Binary
3567 Time Step No. = 455 Elapsed Time = 6.358704E+05 days
3568 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.98 (0.98 sec) Binary
3570 Time Step No. = 456 Elapsed Time = 6.378704E+05 days
3571 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.98 (0.98 sec) Binary
3574 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
3583 CPU Time (total for run) = 0.92 sec = 0.00026 hr
3584 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
3583 CPU Time (total for run) = 0.98 sec = 0.00027 hr
3584 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
3779 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 (0.93 sec) ASCII
3781 Time Step No. = 457 Elapsed Time = 6.391898E+05 days
3782 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 (0.93 sec) Binary
3784 Time Step No. = 458 Elapsed Time = 6.411898E+05 days
3785 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 (0.93 sec) Binary
3787 Time Step No. = 459 Elapsed Time = 6.431898E+05 days
3788 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 (0.93 sec) Binary
3790 Time Step No. = 460 Elapsed Time = 6.451898E+05 days
3791 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 (0.93 sec) Binary
3793 Time Step No. = 461 Elapsed Time = 6.471898E+05 days
3794 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 (0.93 sec) Binary
3796 Time Step No. = 462 Elapsed Time = 6.491898E+05 days
3797 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 (0.93 sec) Binary
3799 Time Step No. = 463 Elapsed Time = 6.511898E+05 days
3800 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 (0.93 sec) Binary
3802 Time Step No. = 464 Elapsed Time = 6.531898E+05 days
3803 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 (0.93 sec) Binary
3805 Time Step No. = 465 Elapsed Time = 6.551898E+05 days
3806 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 (0.93 sec) Binary
3808 Time Step No. = 466 Elapsed Time = 6.571898E+05 days
3809 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 (0.93 sec) Binary
3811 Time Step No. = 467 Elapsed Time = 6.591898E+05 days
3812 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 (0.93 sec) Binary
3814 Time Step No. = 468 Elapsed Time = 6.611898E+05 days
3815 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.94 (0.94 sec) Binary
3817 Time Step No. = 469 Elapsed Time = 6.631898E+05 days
3818 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.94 (0.94 sec) Binary
3820 Time Step No. = 470 Elapsed Time = 6.651898E+05 days
3821 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.94 (0.94 sec) Binary
3823 Time Step No. = 471 Elapsed Time = 6.671898E+05 days
3824 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.94 (0.94 sec) Binary
3826 Time Step No. = 472 Elapsed Time = 6.691898E+05 days
3827 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.95 (0.95 sec) Binary
3829 Time Step No. = 473 Elapsed Time = 6.711898E+05 days
3830 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.95 (0.95 sec) Binary
3832 Time Step No. = 474 Elapsed Time = 6.731898E+05 days
3833 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.95 (0.95 sec) Binary
3835 Time Step No. = 475 Elapsed Time = 6.751898E+05 days
3836 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.95 (0.95 sec) Binary
3838 Time Step No. = 476 Elapsed Time = 6.771898E+05 days
3839 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.95 (0.95 sec) Binary
3841 Time Step No. = 477 Elapsed Time = 6.791898E+05 days
3842 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.95 (0.95 sec) Binary
3844 Time Step No. = 478 Elapsed Time = 6.811898E+05 days
3845 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.96 (0.96 sec) Binary
3847 Time Step No. = 479 Elapsed Time = 6.831898E+05 days
3848 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.96 (0.96 sec) Binary
3850 Time Step No. = 480 Elapsed Time = 6.851898E+05 days
3851 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.96 (0.96 sec) Binary
3853 Time Step No. = 481 Elapsed Time = 6.871898E+05 days
3854 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.96 (0.96 sec) Binary
3856 Time Step No. = 482 Elapsed Time = 6.891898E+05 days
3857 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.96 (0.96 sec) Binary
3859 Time Step No. = 483 Elapsed Time = 6.911898E+05 days
3860 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.96 (0.96 sec) Binary
3862 Time Step No. = 484 Elapsed Time = 6.931898E+05 days
3863 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.97 (0.97 sec) Binary
3865 Time Step No. = 485 Elapsed Time = 6.951898E+05 days
3866 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.97 (0.97 sec) Binary
3868 Time Step No. = 486 Elapsed Time = 6.971898E+05 days
3869 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.97 (0.97 sec) Binary
3871 Time Step No. = 487 Elapsed Time = 6.991898E+05 days
3872 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.97 (0.97 sec) Binary
3874 Time Step No. = 488 Elapsed Time = 7.011898E+05 days
3875 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.97 (0.97 sec) Binary
3877 Time Step No. = 489 Elapsed Time = 7.031898E+05 days
3878 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.97 (0.97 sec) Binary
3880 Time Step No. = 490 Elapsed Time = 7.051898E+05 days
3881 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.98 (0.98 sec) Binary
3883 Time Step No. = 491 Elapsed Time = 7.071898E+05 days
3884 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.98 (0.98 sec) Binary
3886 Time Step No. = 492 Elapsed Time = 7.091898E+05 days
3887 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.98 (0.98 sec) Binary
3889 Time Step No. = 493 Elapsed Time = 7.111898E+05 days
3890 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.98 (0.98 sec) Binary

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3892 Time Step No. = 494 Elapsed Time = 7.131898E+05 days
3893 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
3895 Time Step No. = 495 Elapsed Time = 7.151898E+05 days
3896 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
3898 Time Step No. = 496 Elapsed Time = 7.171898E+05 days
3899 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3901 Time Step No. = 497 Elapsed Time = 7.191898E+05 days
3902 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3904 Time Step No. = 498 Elapsed Time = 7.211898E+05 days
3905 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3907 Time Step No. = 499 Elapsed Time = 7.231898E+05 days
3908 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3910 Time Step No. = 500 Elapsed Time = 7.251898E+05 days
3911 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3913 Time Step No. = 501 Elapsed Time = 7.271898E+05 days
3914 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
3916 Time Step No. = 502 Elapsed Time = 7.291898E+05 days
3917 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
3920 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
3779 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) ASCII
3781 Time Step No. = 457 Elapsed Time = 6.391898E+05 days
3782 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3784 Time Step No. = 458 Elapsed Time = 6.411898E+05 days
3785 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3787 Time Step No. = 459 Elapsed Time = 6.431898E+05 days
3788 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3790 Time Step No. = 460 Elapsed Time = 6.451898E+05 days
3791 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3793 Time Step No. = 461 Elapsed Time = 6.471898E+05 days
3794 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3796 Time Step No. = 462 Elapsed Time = 6.491898E+05 days
3797 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3799 Time Step No. = 463 Elapsed Time = 6.511898E+05 days
3800 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3802 Time Step No. = 464 Elapsed Time = 6.531898E+05 days
3803 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3805 Time Step No. = 465 Elapsed Time = 6.551898E+05 days
3806 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3808 Time Step No. = 466 Elapsed Time = 6.571898E+05 days
3809 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3811 Time Step No. = 467 Elapsed Time = 6.591898E+05 days
3812 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
3814 Time Step No. = 468 Elapsed Time = 6.611898E+05 days
3815 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
3817 Time Step No. = 469 Elapsed Time = 6.631898E+05 days
3818 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
3820 Time Step No. = 470 Elapsed Time = 6.651898E+05 days
3821 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
3823 Time Step No. = 471 Elapsed Time = 6.671898E+05 days
3824 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
3826 Time Step No. = 472 Elapsed Time = 6.691898E+05 days
3827 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
3829 Time Step No. = 473 Elapsed Time = 6.711898E+05 days
3830 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
3832 Time Step No. = 474 Elapsed Time = 6.731898E+05 days
3833 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
3835 Time Step No. = 475 Elapsed Time = 6.751898E+05 days
3836 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
3838 Time Step No. = 476 Elapsed Time = 6.771898E+05 days
3839 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
3841 Time Step No. = 477 Elapsed Time = 6.791898E+05 days
3842 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
3844 Time Step No. = 478 Elapsed Time = 6.811898E+05 days
3845 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
3847 Time Step No. = 479 Elapsed Time = 6.831898E+05 days
3848 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
3850 Time Step No. = 480 Elapsed Time = 6.851898E+05 days
3851 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
3853 Time Step No. = 481 Elapsed Time = 6.871898E+05 days
3854 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
3856 Time Step No. = 482 Elapsed Time = 6.891898E+05 days
3857 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
3859 Time Step No. = 483 Elapsed Time = 6.911898E+05 days
3860 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
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3862 Time Step No. = 484 Elapsed Time = 6.931898E+05 days
3863 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
3865 Time Step No. = 485 Elapsed Time = 6.951898E+05 days
3866 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
3868 Time Step No. = 486 Elapsed Time = 6.971898E+05 days
3869 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
3871 Time Step No. = 487 Elapsed Time = 6.991898E+05 days
3872 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
3874 Time Step No. = 488 Elapsed Time = 7.011898E+05 days
3875 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
3877 Time Step No. = 489 Elapsed Time = 7.031898E+05 days
3878 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
3880 Time Step No. = 490 Elapsed Time = 7.051898E+05 days
3881 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
3883 Time Step No. = 491 Elapsed Time = 7.071898E+05 days
3884 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
3886 Time Step No. = 492 Elapsed Time = 7.091898E+05 days
3887 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
3889 Time Step No. = 493 Elapsed Time = 7.111898E+05 days
3890 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
3892 Time Step No. = 494 Elapsed Time = 7.131898E+05 days
3893 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
3895 Time Step No. = 495 Elapsed Time = 7.151898E+05 days
3896 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
3898 Time Step No. = 496 Elapsed Time = 7.171898E+05 days
3899 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
3901 Time Step No. = 497 Elapsed Time = 7.191898E+05 days
3902 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
3904 Time Step No. = 498 Elapsed Time = 7.211898E+05 days
3905 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
3907 Time Step No. = 499 Elapsed Time = 7.231898E+05 days
3908 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
3910 Time Step No. = 500 Elapsed Time = 7.251898E+05 days
3911 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
3913 Time Step No. = 501 Elapsed Time = 7.271898E+05 days
3914 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
3916 Time Step No. = 502 Elapsed Time = 7.291898E+05 days
3917 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
3920 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
3929 CPU Time (total for run) = 1.00 sec = 0.00028 hr
3930 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
3929 CPU Time (total for run) = 1.06 sec = 0.00029 hr
3930 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
4125 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) ASCII
4127 Time Step No. = 503 Elapsed Time = 7.305093E+05 days
4128 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
4130 Time Step No. = 504 Elapsed Time = 7.325093E+05 days
4131 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
4133 Time Step No. = 505 Elapsed Time = 7.345093E+05 days
4134 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
4136 Time Step No. = 506 Elapsed Time = 7.365093E+05 days
4137 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
4139 Time Step No. = 507 Elapsed Time = 7.385093E+05 days
4140 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
4142 Time Step No. = 508 Elapsed Time = 7.405093E+05 days
4143 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
4145 Time Step No. = 509 Elapsed Time = 7.425093E+05 days
4146 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
4148 Time Step No. = 510 Elapsed Time = 7.445093E+05 days
4149 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
4151 Time Step No. = 511 Elapsed Time = 7.465093E+05 days
4152 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
4154 Time Step No. = 512 Elapsed Time = 7.485093E+05 days
4155 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
4157 Time Step No. = 513 Elapsed Time = 7.505093E+05 days
4158 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
4160 Time Step No. = 514 Elapsed Time = 7.525093E+05 days
4161 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
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4619 Time Step No. = 667 Elapsed Time = 1.058509E+06 days
4620 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 (1.22 sec) Binary
4622 Time Step No. = 668 Elapsed Time = 1.060509E+06 days
4623 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 (1.22 sec) Binary
4625 Time Step No. = 669 Elapsed Time = 1.062509E+06 days
4626 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 (1.22 sec) Binary
4628 Time Step No. = 670 Elapsed Time = 1.064509E+06 days
4629 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 (1.22 sec) Binary
4631 Time Step No. = 671 Elapsed Time = 1.066509E+06 days
4632 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 (1.22 sec) Binary
4634 Time Step No. = 672 Elapsed Time = 1.068509E+06 days
4635 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 (1.22 sec) Binary
4637 Time Step No. = 673 Elapsed Time = 1.070509E+06 days
4638 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 (1.22 sec) Binary
4640 Time Step No. = 674 Elapsed Time = 1.072509E+06 days
4641 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 (1.22 sec) Binary
4643 Time Step No. = 675 Elapsed Time = 1.074509E+06 days
4644 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 (1.22 sec) Binary
4646 Time Step No. = 676 Elapsed Time = 1.076509E+06 days
4647 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 (1.22 sec) Binary
4649 Time Step No. = 677 Elapsed Time = 1.078509E+06 days
4650 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.23 (1.23 sec) Binary
4652 Time Step No. = 678 Elapsed Time = 1.080509E+06 days
4653 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.23 (1.23 sec) Binary
4655 Time Step No. = 679 Elapsed Time = 1.082509E+06 days
4656 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.23 (1.23 sec) Binary
4658 Time Step No. = 680 Elapsed Time = 1.084509E+06 days
4659 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.23 (1.23 sec) Binary
4661 Time Step No. = 681 Elapsed Time = 1.086509E+06 days
4662 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.23 (1.23 sec) Binary
4664 Time Step No. = 682 Elapsed Time = 1.088509E+06 days
4665 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.23 (1.23 sec) Binary
4667 Time Step No. = 683 Elapsed Time = 1.090509E+06 days
4668 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.23 (1.23 sec) Binary
4670 Time Step No. = 684 Elapsed Time = 1.092509E+06 days
4671 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.23 (1.23 sec) Binary
4673 Time Step No. = 685 Elapsed Time = 1.094509E+06 days
4674 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.23 (1.23 sec) Binary
4677 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1

4125 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 (1.06 sec) ASCII
4127 Time Step No. = 503 Elapsed Time = 7.305093E+05 days
4128 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 (1.06 sec) Binary
4130 Time Step No. = 504 Elapsed Time = 7.325093E+05 days
4131 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 (1.06 sec) Binary
4133 Time Step No. = 505 Elapsed Time = 7.345093E+05 days
4134 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.07 (1.07 sec) Binary
4136 Time Step No. = 506 Elapsed Time = 7.365093E+05 days
4137 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.07 (1.07 sec) Binary
4139 Time Step No. = 507 Elapsed Time = 7.385093E+05 days
4140 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.07 (1.07 sec) Binary
4142 Time Step No. = 508 Elapsed Time = 7.405093E+05 days
4143 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.07 (1.07 sec) Binary
4145 Time Step No. = 509 Elapsed Time = 7.425093E+05 days
4146 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.08 (1.08 sec) Binary
4148 Time Step No. = 510 Elapsed Time = 7.445093E+05 days
4149 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.08 (1.08 sec) Binary
4151 Time Step No. = 511 Elapsed Time = 7.465093E+05 days
4152 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.08 (1.08 sec) Binary
4154 Time Step No. = 512 Elapsed Time = 7.485093E+05 days
4155 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.08 (1.08 sec) Binary
4157 Time Step No. = 513 Elapsed Time = 7.505093E+05 days
4158 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.08 (1.08 sec) Binary
4160 Time Step No. = 514 Elapsed Time = 7.525093E+05 days
4161 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.09 (1.09 sec) Binary
4163 Time Step No. = 515 Elapsed Time = 7.545093E+05 days
4164 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.09 (1.09 sec) Binary
4166 Time Step No. = 516 Elapsed Time = 7.565093E+05 days
4167 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.09 (1.09 sec) Binary
4169 Time Step No. = 517 Elapsed Time = 7.585093E+05 days
4170 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.09 (1.09 sec) Binary
4172 Time Step No. = 518 Elapsed Time = 7.605093E+05 days
4173 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.09 (1.09 sec) Binary
4175 Time Step No. = 519 Elapsed Time = 7.625093E+05 days
4176 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 (1.10 sec) Binary


```
4634 Time Step No. = 672 Elapsed Time = 1.068509E+06 days
4635 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
4637 Time Step No. = 673 Elapsed Time = 1.070509E+06 days
4638 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
4640 Time Step No. = 674 Elapsed Time = 1.072509E+06 days
4641 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
4643 Time Step No. = 675 Elapsed Time = 1.074509E+06 days
4644 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4646 Time Step No. = 676 Elapsed Time = 1.076509E+06 days
4647 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4649 Time Step No. = 677 Elapsed Time = 1.078509E+06 days
4650 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4652 Time Step No. = 678 Elapsed Time = 1.080509E+06 days
4653 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4655 Time Step No. = 679 Elapsed Time = 1.082509E+06 days
4656 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4658 Time Step No. = 680 Elapsed Time = 1.084509E+06 days
4659 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4661 Time Step No. = 681 Elapsed Time = 1.086509E+06 days
4662 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4664 Time Step No. = 682 Elapsed Time = 1.088509E+06 days
4665 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4667 Time Step No. = 683 Elapsed Time = 1.090509E+06 days
4668 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4670 Time Step No. = 684 Elapsed Time = 1.092509E+06 days
4671 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4673 Time Step No. = 685 Elapsed Time = 1.094509E+06 days
4674 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
4677 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
4686 CPU Time (total for run) = 1.23 sec = 0.00034 hr
4687 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
4686 CPU Time (total for run) = 1.35 sec = 0.00038 hr
4687 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
4882 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) ASCII
4884 Time Step No. = 686 Elapsed Time = 1.095752E+06 days
4885 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
4887 Time Step No. = 687 Elapsed Time = 1.097752E+06 days
4888 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
4890 Time Step No. = 688 Elapsed Time = 1.099752E+06 days
4891 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
4893 Time Step No. = 689 Elapsed Time = 1.101752E+06 days
4894 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
4896 Time Step No. = 690 Elapsed Time = 1.103752E+06 days
4897 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
4899 Time Step No. = 691 Elapsed Time = 1.105752E+06 days
4900 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
4902 Time Step No. = 692 Elapsed Time = 1.107752E+06 days
4903 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
4905 Time Step No. = 693 Elapsed Time = 1.109752E+06 days
4906 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4908 Time Step No. = 694 Elapsed Time = 1.111752E+06 days
4909 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4911 Time Step No. = 695 Elapsed Time = 1.113752E+06 days
4912 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4914 Time Step No. = 696 Elapsed Time = 1.115752E+06 days
4915 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4917 Time Step No. = 697 Elapsed Time = 1.117752E+06 days
4918 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4920 Time Step No. = 698 Elapsed Time = 1.119752E+06 days
4921 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4923 Time Step No. = 699 Elapsed Time = 1.121752E+06 days
4924 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4926 Time Step No. = 700 Elapsed Time = 1.123752E+06 days
4927 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
4929 Time Step No. = 701 Elapsed Time = 1.125752E+06 days
4930 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
4932 Time Step No. = 702 Elapsed Time = 1.127752E+06 days
4933 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
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5277 Time Step No. = 817 Elapsed Time = 1.357752E+06 days
5278 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.38 (1.38 sec) Binary
5280 Time Step No. = 818 Elapsed Time = 1.359752E+06 days
5281 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.38 (1.38 sec) Binary
5283 Time Step No. = 819 Elapsed Time = 1.361752E+06 days
5284 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.39 (1.39 sec) Binary
5286 Time Step No. = 820 Elapsed Time = 1.363752E+06 days
5287 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.39 (1.39 sec) Binary
5289 Time Step No. = 821 Elapsed Time = 1.365752E+06 days
5290 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.39 (1.39 sec) Binary
5292 Time Step No. = 822 Elapsed Time = 1.367752E+06 days
5293 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.39 (1.39 sec) Binary
5295 Time Step No. = 823 Elapsed Time = 1.369752E+06 days
5296 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.39 (1.39 sec) Binary
5298 Time Step No. = 824 Elapsed Time = 1.371752E+06 days
5299 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.39 (1.39 sec) Binary
5301 Time Step No. = 825 Elapsed Time = 1.373752E+06 days
5302 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.40 (1.40 sec) Binary
5304 Time Step No. = 826 Elapsed Time = 1.375752E+06 days
5305 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.40 (1.40 sec) Binary
5307 Time Step No. = 827 Elapsed Time = 1.377752E+06 days
5308 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.40 (1.40 sec) Binary
5310 Time Step No. = 828 Elapsed Time = 1.379752E+06 days
5311 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.40 (1.40 sec) Binary
5313 Time Step No. = 829 Elapsed Time = 1.381752E+06 days
5314 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.40 (1.40 sec) Binary
5316 Time Step No. = 830 Elapsed Time = 1.383752E+06 days
5317 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.40 (1.40 sec) Binary
5319 Time Step No. = 831 Elapsed Time = 1.385752E+06 days
5320 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.41 (1.41 sec) Binary
5322 Time Step No. = 832 Elapsed Time = 1.387752E+06 days
5323 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.41 (1.41 sec) Binary
5325 Time Step No. = 833 Elapsed Time = 1.389752E+06 days
5326 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.41 (1.41 sec) Binary
5328 Time Step No. = 834 Elapsed Time = 1.391752E+06 days
5329 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.41 (1.41 sec) Binary
5331 Time Step No. = 835 Elapsed Time = 1.393752E+06 days
5332 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.41 (1.41 sec) Binary
5334 Time Step No. = 836 Elapsed Time = 1.395752E+06 days
5335 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.41 (1.41 sec) Binary
5337 Time Step No. = 837 Elapsed Time = 1.397752E+06 days
5338 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.41 (1.41 sec) Binary
5340 Time Step No. = 838 Elapsed Time = 1.399752E+06 days
5341 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.42 (1.42 sec) Binary
5343 Time Step No. = 839 Elapsed Time = 1.401752E+06 days
5344 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.42 (1.42 sec) Binary
5346 Time Step No. = 840 Elapsed Time = 1.403752E+06 days
5347 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.42 (1.42 sec) Binary
5349 Time Step No. = 841 Elapsed Time = 1.405752E+06 days
5350 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.42 (1.42 sec) Binary
5352 Time Step No. = 842 Elapsed Time = 1.407752E+06 days
5353 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 (1.43 sec) Binary
5355 Time Step No. = 843 Elapsed Time = 1.409752E+06 days
5356 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 (1.43 sec) Binary
5358 Time Step No. = 844 Elapsed Time = 1.411752E+06 days
5359 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 (1.43 sec) Binary
5361 Time Step No. = 845 Elapsed Time = 1.413752E+06 days
5362 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 (1.43 sec) Binary
5364 Time Step No. = 846 Elapsed Time = 1.415752E+06 days
5365 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 (1.43 sec) Binary
5367 Time Step No. = 847 Elapsed Time = 1.417752E+06 days
5368 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 (1.43 sec) Binary
5370 Time Step No. = 848 Elapsed Time = 1.419752E+06 days
5371 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 (1.43 sec) Binary
5373 Time Step No. = 849 Elapsed Time = 1.421752E+06 days
5374 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 (1.43 sec) Binary
5376 Time Step No. = 850 Elapsed Time = 1.423752E+06 days
5377 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 (1.43 sec) Binary
5379 Time Step No. = 851 Elapsed Time = 1.425752E+06 days
5380 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 (1.43 sec) Binary
5382 Time Step No. = 852 Elapsed Time = 1.427752E+06 days
5383 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 (1.43 sec) Binary
5385 Time Step No. = 853 Elapsed Time = 1.429752E+06 days
5386 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.44 (1.44 sec) Binary
5388 Time Step No. = 854 Elapsed Time = 1.431752E+06 days
5389 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.44 (1.44 sec) Binary

5733 Time Step No. = 969 Elapsed Time = 1.661752E+06 days
5734 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 (1.61 sec) Binary
5736 Time Step No. = 970 Elapsed Time = 1.663752E+06 days
5737 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 (1.61 sec) Binary
5739 Time Step No. = 971 Elapsed Time = 1.665752E+06 days
5740 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 (1.61 sec) Binary
5742 Time Step No. = 972 Elapsed Time = 1.667752E+06 days
5743 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 (1.61 sec) Binary
5745 Time Step No. = 973 Elapsed Time = 1.669752E+06 days
5746 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 (1.61 sec) Binary
5748 Time Step No. = 974 Elapsed Time = 1.671752E+06 days
5749 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 (1.61 sec) Binary
5751 Time Step No. = 975 Elapsed Time = 1.673752E+06 days
5752 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 (1.61 sec) Binary
5754 Time Step No. = 976 Elapsed Time = 1.675752E+06 days
5755 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.62 (1.62 sec) Binary
5757 Time Step No. = 977 Elapsed Time = 1.677752E+06 days
5758 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.62 (1.62 sec) Binary
5760 Time Step No. = 978 Elapsed Time = 1.679752E+06 days
5761 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.62 (1.62 sec) Binary
5763 Time Step No. = 979 Elapsed Time = 1.681752E+06 days
5764 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.62 (1.62 sec) Binary
5766 Time Step No. = 980 Elapsed Time = 1.683752E+06 days
5767 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.62 (1.62 sec) Binary
5769 Time Step No. = 981 Elapsed Time = 1.685752E+06 days
5770 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5772 Time Step No. = 982 Elapsed Time = 1.687752E+06 days
5773 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5775 Time Step No. = 983 Elapsed Time = 1.689752E+06 days
5776 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5778 Time Step No. = 984 Elapsed Time = 1.691752E+06 days
5779 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5781 Time Step No. = 985 Elapsed Time = 1.693752E+06 days
5782 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5784 Time Step No. = 986 Elapsed Time = 1.695752E+06 days
5785 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5787 Time Step No. = 987 Elapsed Time = 1.697752E+06 days
5788 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5790 Time Step No. = 988 Elapsed Time = 1.699752E+06 days
5791 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5793 Time Step No. = 989 Elapsed Time = 1.701752E+06 days
5794 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5796 Time Step No. = 990 Elapsed Time = 1.703752E+06 days
5797 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5799 Time Step No. = 991 Elapsed Time = 1.705752E+06 days
5800 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5802 Time Step No. = 992 Elapsed Time = 1.707752E+06 days
5803 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5805 Time Step No. = 993 Elapsed Time = 1.709752E+06 days
5806 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5808 Time Step No. = 994 Elapsed Time = 1.711752E+06 days
5809 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5811 Time Step No. = 995 Elapsed Time = 1.713752E+06 days
5812 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5814 Time Step No. = 996 Elapsed Time = 1.715752E+06 days
5815 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5817 Time Step No. = 997 Elapsed Time = 1.717752E+06 days
5818 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.64 (1.64 sec) Binary
5820 Time Step No. = 998 Elapsed Time = 1.719752E+06 days
5821 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.64 (1.64 sec) Binary
5823 Time Step No. = 999 Elapsed Time = 1.721752E+06 days
5824 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.64 (1.64 sec) Binary
5826 Time Step No. = 1000 Elapsed Time = 1.723752E+06 days
5827 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.64 (1.64 sec) Binary
5829 Time Step No. = 1001 Elapsed Time = 1.725752E+06 days
5830 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.64 (1.64 sec) Binary
5832 Time Step No. = 1002 Elapsed Time = 1.727752E+06 days
5833 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.64 (1.64 sec) Binary
5835 Time Step No. = 1003 Elapsed Time = 1.729752E+06 days
5836 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.64 (1.64 sec) Binary
5838 Time Step No. = 1004 Elapsed Time = 1.731752E+06 days
5839 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.65 (1.65 sec) Binary
5841 Time Step No. = 1005 Elapsed Time = 1.733752E+06 days
5842 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.65 (1.65 sec) Binary
5844 Time Step No. = 1006 Elapsed Time = 1.735752E+06 days
5845 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.65 (1.65 sec) Binary

6075 Time Step No. = 1083 Elapsed Time = 1.889752E+06 days
6076 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 (1.76 sec) Binary
6078 Time Step No. = 1084 Elapsed Time = 1.891752E+06 days
6079 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 (1.76 sec) Binary
6081 Time Step No. = 1085 Elapsed Time = 1.893752E+06 days
6082 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 (1.76 sec) Binary
6084 Time Step No. = 1086 Elapsed Time = 1.895752E+06 days
6085 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 (1.76 sec) Binary
6087 Time Step No. = 1087 Elapsed Time = 1.897752E+06 days
6088 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 (1.76 sec) Binary
6090 Time Step No. = 1088 Elapsed Time = 1.899752E+06 days
6091 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 (1.76 sec) Binary
6093 Time Step No. = 1089 Elapsed Time = 1.901752E+06 days
6094 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 (1.76 sec) Binary
6096 Time Step No. = 1090 Elapsed Time = 1.903752E+06 days
6097 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 (1.76 sec) Binary
6099 Time Step No. = 1091 Elapsed Time = 1.905752E+06 days
6100 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 (1.76 sec) Binary
6102 Time Step No. = 1092 Elapsed Time = 1.907752E+06 days
6103 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 (1.76 sec) Binary
6105 Time Step No. = 1093 Elapsed Time = 1.909752E+06 days
6106 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 (1.76 sec) Binary
6108 Time Step No. = 1094 Elapsed Time = 1.911752E+06 days
6109 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 (1.76 sec) Binary
6111 Time Step No. = 1095 Elapsed Time = 1.913752E+06 days
6112 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
6114 Time Step No. = 1096 Elapsed Time = 1.915752E+06 days
6115 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
6117 Time Step No. = 1097 Elapsed Time = 1.917752E+06 days
6118 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
6120 Time Step No. = 1098 Elapsed Time = 1.919752E+06 days
6121 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
6123 Time Step No. = 1099 Elapsed Time = 1.921752E+06 days
6124 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
6126 Time Step No. = 1100 Elapsed Time = 1.923752E+06 days
6127 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
6129 Time Step No. = 1101 Elapsed Time = 1.925752E+06 days
6130 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
6132 Time Step No. = 1102 Elapsed Time = 1.927752E+06 days
6133 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
6135 Time Step No. = 1103 Elapsed Time = 1.929752E+06 days
6136 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
6138 Time Step No. = 1104 Elapsed Time = 1.931752E+06 days
6139 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
6141 Time Step No. = 1105 Elapsed Time = 1.933752E+06 days
6142 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
6144 Time Step No. = 1106 Elapsed Time = 1.935752E+06 days
6145 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
6147 Time Step No. = 1107 Elapsed Time = 1.937752E+06 days
6148 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
6150 Time Step No. = 1108 Elapsed Time = 1.939752E+06 days
6151 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
6153 Time Step No. = 1109 Elapsed Time = 1.941752E+06 days
6154 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
6156 Time Step No. = 1110 Elapsed Time = 1.943752E+06 days
6157 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
6159 Time Step No. = 1111 Elapsed Time = 1.945752E+06 days
6160 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
6162 Time Step No. = 1112 Elapsed Time = 1.947752E+06 days
6163 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
6165 Time Step No. = 1113 Elapsed Time = 1.949752E+06 days
6166 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 (1.77 sec) Binary
6168 Time Step No. = 1114 Elapsed Time = 1.951752E+06 days
6169 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.78 (1.78 sec) Binary
6171 Time Step No. = 1115 Elapsed Time = 1.953752E+06 days
6172 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.78 (1.78 sec) Binary
6174 Time Step No. = 1116 Elapsed Time = 1.955752E+06 days
6175 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.78 (1.78 sec) Binary
6177 Time Step No. = 1117 Elapsed Time = 1.957752E+06 days
6178 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.78 (1.78 sec) Binary
6180 Time Step No. = 1118 Elapsed Time = 1.959752E+06 days
6181 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.78 (1.78 sec) Binary
6183 Time Step No. = 1119 Elapsed Time = 1.961752E+06 days
6184 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.78 (1.78 sec) Binary
6186 Time Step No. = 1120 Elapsed Time = 1.963752E+06 days
6187 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.79 (1.79 sec) Binary

7557 Time Step No. = 1577 Elapsed Time = 2.877752E+06 days
7558 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.43 (2.43 sec) Binary
7560 Time Step No. = 1578 Elapsed Time = 2.879752E+06 days
7561 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.43 (2.43 sec) Binary
7563 Time Step No. = 1579 Elapsed Time = 2.881752E+06 days
7564 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.43 (2.43 sec) Binary
7566 Time Step No. = 1580 Elapsed Time = 2.883752E+06 days
7567 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.43 (2.43 sec) Binary
7569 Time Step No. = 1581 Elapsed Time = 2.885752E+06 days
7570 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.43 (2.43 sec) Binary
7572 Time Step No. = 1582 Elapsed Time = 2.887752E+06 days
7573 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.43 (2.43 sec) Binary
7575 Time Step No. = 1583 Elapsed Time = 2.889752E+06 days
7576 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.43 (2.43 sec) Binary
7578 Time Step No. = 1584 Elapsed Time = 2.891752E+06 days
7579 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.44 (2.44 sec) Binary
7581 Time Step No. = 1585 Elapsed Time = 2.893752E+06 days
7582 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.44 (2.44 sec) Binary
7584 Time Step No. = 1586 Elapsed Time = 2.895752E+06 days
7585 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.44 (2.44 sec) Binary
7587 Time Step No. = 1587 Elapsed Time = 2.897752E+06 days
7588 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.44 (2.44 sec) Binary
7590 Time Step No. = 1588 Elapsed Time = 2.899752E+06 days
7591 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.44 (2.44 sec) Binary
7593 Time Step No. = 1589 Elapsed Time = 2.901752E+06 days
7594 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.44 (2.44 sec) Binary
7596 Time Step No. = 1590 Elapsed Time = 2.903752E+06 days
7597 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.45 (2.45 sec) Binary
7599 Time Step No. = 1591 Elapsed Time = 2.905752E+06 days
7600 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.45 (2.45 sec) Binary
7602 Time Step No. = 1592 Elapsed Time = 2.907752E+06 days
7603 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.45 (2.45 sec) Binary
7605 Time Step No. = 1593 Elapsed Time = 2.909752E+06 days
7606 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.45 (2.45 sec) Binary
7608 Time Step No. = 1594 Elapsed Time = 2.911752E+06 days
7609 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.45 (2.45 sec) Binary
7611 Time Step No. = 1595 Elapsed Time = 2.913752E+06 days
7612 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.45 (2.45 sec) Binary
7614 Time Step No. = 1596 Elapsed Time = 2.915752E+06 days
7615 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.45 (2.45 sec) Binary
7617 Time Step No. = 1597 Elapsed Time = 2.917752E+06 days
7618 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.46 (2.46 sec) Binary
7620 Time Step No. = 1598 Elapsed Time = 2.919752E+06 days
7621 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.46 (2.46 sec) Binary
7623 Time Step No. = 1599 Elapsed Time = 2.921752E+06 days
7624 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.46 (2.46 sec) Binary
7627 *****

File PAA: [ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
4882 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 (1.36 sec) ASCII
4884 Time Step No. = 686 Elapsed Time = 1.095752E+06 days
4885 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 (1.36 sec) Binary
4887 Time Step No. = 687 Elapsed Time = 1.097752E+06 days
4888 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 (1.36 sec) Binary
4890 Time Step No. = 688 Elapsed Time = 1.099752E+06 days
4891 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 (1.36 sec) Binary
4893 Time Step No. = 689 Elapsed Time = 1.101752E+06 days
4894 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 (1.36 sec) Binary
4896 Time Step No. = 690 Elapsed Time = 1.103752E+06 days
4897 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 (1.36 sec) Binary
4899 Time Step No. = 691 Elapsed Time = 1.105752E+06 days
4900 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 (1.36 sec) Binary
4902 Time Step No. = 692 Elapsed Time = 1.107752E+06 days
4903 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 (1.37 sec) Binary
4905 Time Step No. = 693 Elapsed Time = 1.109752E+06 days
4906 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 (1.37 sec) Binary
4908 Time Step No. = 694 Elapsed Time = 1.111752E+06 days
4909 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 (1.37 sec) Binary
4911 Time Step No. = 695 Elapsed Time = 1.113752E+06 days
4912 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 (1.37 sec) Binary
4914 Time Step No. = 696 Elapsed Time = 1.115752E+06 days
4915 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 (1.37 sec) Binary
4917 Time Step No. = 697 Elapsed Time = 1.117752E+06 days
4918 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 (1.37 sec) Binary
4920 Time Step No. = 698 Elapsed Time = 1.119752E+06 days
4921 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 (1.37 sec) Binary

6975 Time Step No. = 1383 Elapsed Time = 2.489752E+06 days
6976 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.34 (2.34 sec) Binary
6978 Time Step No. = 1384 Elapsed Time = 2.491752E+06 days
6979 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.35 (2.35 sec) Binary
6981 Time Step No. = 1385 Elapsed Time = 2.493752E+06 days
6982 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.35 (2.35 sec) Binary
6984 Time Step No. = 1386 Elapsed Time = 2.495752E+06 days
6985 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.35 (2.35 sec) Binary
6987 Time Step No. = 1387 Elapsed Time = 2.497752E+06 days
6988 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.35 (2.35 sec) Binary
6990 Time Step No. = 1388 Elapsed Time = 2.499752E+06 days
6991 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.35 (2.35 sec) Binary
6993 Time Step No. = 1389 Elapsed Time = 2.501752E+06 days
6994 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 (2.36 sec) Binary
6996 Time Step No. = 1390 Elapsed Time = 2.503752E+06 days
6997 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 (2.36 sec) Binary
6999 Time Step No. = 1391 Elapsed Time = 2.505752E+06 days
7000 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 (2.36 sec) Binary
7002 Time Step No. = 1392 Elapsed Time = 2.507752E+06 days
7003 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 (2.36 sec) Binary
7005 Time Step No. = 1393 Elapsed Time = 2.509752E+06 days
7006 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 (2.36 sec) Binary
7008 Time Step No. = 1394 Elapsed Time = 2.511752E+06 days
7009 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 (2.36 sec) Binary
7011 Time Step No. = 1395 Elapsed Time = 2.513752E+06 days
7012 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 (2.36 sec) Binary
7014 Time Step No. = 1396 Elapsed Time = 2.515752E+06 days
7015 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 (2.36 sec) Binary
7017 Time Step No. = 1397 Elapsed Time = 2.517752E+06 days
7018 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 (2.36 sec) Binary
7020 Time Step No. = 1398 Elapsed Time = 2.519752E+06 days
7021 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 (2.36 sec) Binary
7023 Time Step No. = 1399 Elapsed Time = 2.521752E+06 days
7024 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 (2.36 sec) Binary
7026 Time Step No. = 1400 Elapsed Time = 2.523752E+06 days
7027 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 (2.36 sec) Binary
7029 Time Step No. = 1401 Elapsed Time = 2.525752E+06 days
7030 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 (2.36 sec) Binary
7032 Time Step No. = 1402 Elapsed Time = 2.527752E+06 days
7033 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.37 (2.37 sec) Binary
7035 Time Step No. = 1403 Elapsed Time = 2.529752E+06 days
7036 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.37 (2.37 sec) Binary
7038 Time Step No. = 1404 Elapsed Time = 2.531752E+06 days
7039 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.37 (2.37 sec) Binary
7041 Time Step No. = 1405 Elapsed Time = 2.533752E+06 days
7042 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.37 (2.37 sec) Binary
7044 Time Step No. = 1406 Elapsed Time = 2.535752E+06 days
7045 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.37 (2.37 sec) Binary
7047 Time Step No. = 1407 Elapsed Time = 2.537752E+06 days
7048 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.37 (2.37 sec) Binary
7050 Time Step No. = 1408 Elapsed Time = 2.539752E+06 days
7051 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.38 (2.38 sec) Binary
7053 Time Step No. = 1409 Elapsed Time = 2.541752E+06 days
7054 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.38 (2.38 sec) Binary
7056 Time Step No. = 1410 Elapsed Time = 2.543752E+06 days
7057 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.38 (2.38 sec) Binary
7059 Time Step No. = 1411 Elapsed Time = 2.545752E+06 days
7060 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.38 (2.38 sec) Binary
7062 Time Step No. = 1412 Elapsed Time = 2.547752E+06 days
7063 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.38 (2.38 sec) Binary
7065 Time Step No. = 1413 Elapsed Time = 2.549752E+06 days
7066 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 (2.39 sec) Binary
7068 Time Step No. = 1414 Elapsed Time = 2.551752E+06 days
7069 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 (2.39 sec) Binary
7071 Time Step No. = 1415 Elapsed Time = 2.553752E+06 days
7072 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 (2.39 sec) Binary
7074 Time Step No. = 1416 Elapsed Time = 2.555752E+06 days
7075 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 (2.39 sec) Binary
7077 Time Step No. = 1417 Elapsed Time = 2.557752E+06 days
7078 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 (2.39 sec) Binary
7080 Time Step No. = 1418 Elapsed Time = 2.559752E+06 days
7081 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 (2.39 sec) Binary
7083 Time Step No. = 1419 Elapsed Time = 2.561752E+06 days
7084 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 (2.39 sec) Binary
7086 Time Step No. = 1420 Elapsed Time = 2.563752E+06 days
7087 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.40 (2.40 sec) Binary


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7545 Time Step No. = 1573 Elapsed Time = 2.869752E+06 days
7546 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7548 Time Step No. = 1574 Elapsed Time = 2.871752E+06 days
7549 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
7551 Time Step No. = 1575 Elapsed Time = 2.873752E+06 days
7552 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
7554 Time Step No. = 1576 Elapsed Time = 2.875752E+06 days
7555 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
7557 Time Step No. = 1577 Elapsed Time = 2.877752E+06 days
7558 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
7560 Time Step No. = 1578 Elapsed Time = 2.879752E+06 days
7561 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
7563 Time Step No. = 1579 Elapsed Time = 2.881752E+06 days
7564 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
7566 Time Step No. = 1580 Elapsed Time = 2.883752E+06 days
7567 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
7569 Time Step No. = 1581 Elapsed Time = 2.885752E+06 days
7570 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
7572 Time Step No. = 1582 Elapsed Time = 2.887752E+06 days
7573 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
7575 Time Step No. = 1583 Elapsed Time = 2.889752E+06 days
7576 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
7578 Time Step No. = 1584 Elapsed Time = 2.891752E+06 days
7579 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
7581 Time Step No. = 1585 Elapsed Time = 2.893752E+06 days
7582 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
7584 Time Step No. = 1586 Elapsed Time = 2.895752E+06 days
7585 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
7587 Time Step No. = 1587 Elapsed Time = 2.897752E+06 days
7588 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
7590 Time Step No. = 1588 Elapsed Time = 2.899752E+06 days
7591 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
7593 Time Step No. = 1589 Elapsed Time = 2.901752E+06 days
7594 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
7596 Time Step No. = 1590 Elapsed Time = 2.903752E+06 days
7597 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
7599 Time Step No. = 1591 Elapsed Time = 2.905752E+06 days
7600 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
7602 Time Step No. = 1592 Elapsed Time = 2.907752E+06 days
7603 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
7605 Time Step No. = 1593 Elapsed Time = 2.909752E+06 days
7606 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
7608 Time Step No. = 1594 Elapsed Time = 2.911752E+06 days
7609 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
7611 Time Step No. = 1595 Elapsed Time = 2.913752E+06 days
7612 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
7614 Time Step No. = 1596 Elapsed Time = 2.915752E+06 days
7615 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
7617 Time Step No. = 1597 Elapsed Time = 2.917752E+06 days
7618 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
7620 Time Step No. = 1598 Elapsed Time = 2.919752E+06 days
7621 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7623 Time Step No. = 1599 Elapsed Time = 2.921752E+06 days
7624 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7627 *****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
7636 CPU Time (total for run) = 2.46 sec = 0.00068 hr
7637 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
7636 CPU Time (total for run) = 2.66 sec = 0.00074 hr
7637 *****
*****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
7832 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) ASCII
7834 Time Step No. = 1600 Elapsed Time = 2.921991E+06 days
7835 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
7837 Time Step No. = 1601 Elapsed Time = 2.923991E+06 days
7838 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
7840 Time Step No. = 1602 Elapsed Time = 2.925991E+06 days
7841 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
7843 Time Step No. = 1603 Elapsed Time = 2.927991E+06 days
7844 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
```



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7960 Time Step No. = 1642 Elapsed Time = 3.005991E+06 days
7961 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
7963 Time Step No. = 1643 Elapsed Time = 3.007991E+06 days
7964 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7966 Time Step No. = 1644 Elapsed Time = 3.009991E+06 days
7967 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7969 Time Step No. = 1645 Elapsed Time = 3.011991E+06 days
7970 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7973 *****
*****
File PAA: [ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
7832 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) ASCII
7834 Time Step No. = 1600 Elapsed Time = 2.921991E+06 days
7835 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7837 Time Step No. = 1601 Elapsed Time = 2.923991E+06 days
7838 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7840 Time Step No. = 1602 Elapsed Time = 2.925991E+06 days
7841 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7843 Time Step No. = 1603 Elapsed Time = 2.927991E+06 days
7844 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7846 Time Step No. = 1604 Elapsed Time = 2.929991E+06 days
7847 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7849 Time Step No. = 1605 Elapsed Time = 2.931991E+06 days
7850 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7852 Time Step No. = 1606 Elapsed Time = 2.933991E+06 days
7853 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7855 Time Step No. = 1607 Elapsed Time = 2.935991E+06 days
7856 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7858 Time Step No. = 1608 Elapsed Time = 2.937991E+06 days
7859 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7861 Time Step No. = 1609 Elapsed Time = 2.939991E+06 days
7862 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7864 Time Step No. = 1610 Elapsed Time = 2.941991E+06 days
7865 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7867 Time Step No. = 1611 Elapsed Time = 2.943991E+06 days
7868 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
7870 Time Step No. = 1612 Elapsed Time = 2.945991E+06 days
7871 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
7873 Time Step No. = 1613 Elapsed Time = 2.947991E+06 days
7874 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
7876 Time Step No. = 1614 Elapsed Time = 2.949991E+06 days
7877 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
7879 Time Step No. = 1615 Elapsed Time = 2.951991E+06 days
7880 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
7882 Time Step No. = 1616 Elapsed Time = 2.953991E+06 days
7883 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
7885 Time Step No. = 1617 Elapsed Time = 2.955991E+06 days
7886 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
7888 Time Step No. = 1618 Elapsed Time = 2.957991E+06 days
7889 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
7891 Time Step No. = 1619 Elapsed Time = 2.959991E+06 days
7892 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
7894 Time Step No. = 1620 Elapsed Time = 2.961991E+06 days
7895 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
7897 Time Step No. = 1621 Elapsed Time = 2.963991E+06 days
7898 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
7900 Time Step No. = 1622 Elapsed Time = 2.965991E+06 days
7901 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.69 ( 2.69 sec) Binary
7903 Time Step No. = 1623 Elapsed Time = 2.967991E+06 days
7904 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.69 ( 2.69 sec) Binary
7906 Time Step No. = 1624 Elapsed Time = 2.969991E+06 days
7907 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.69 ( 2.69 sec) Binary
7909 Time Step No. = 1625 Elapsed Time = 2.971991E+06 days
7910 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
7912 Time Step No. = 1626 Elapsed Time = 2.973991E+06 days
7913 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
7915 Time Step No. = 1627 Elapsed Time = 2.975991E+06 days
7916 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
7918 Time Step No. = 1628 Elapsed Time = 2.977991E+06 days
7919 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
7921 Time Step No. = 1629 Elapsed Time = 2.979991E+06 days
7922 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
7924 Time Step No. = 1630 Elapsed Time = 2.981991E+06 days
7925 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
7927 Time Step No. = 1631 Elapsed Time = 2.983991E+06 days
7928 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
```

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7930 Time Step No. = 1632 Elapsed Time = 2.985991E+06 days
7931 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
7933 Time Step No. = 1633 Elapsed Time = 2.987991E+06 days
7934 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
7936 Time Step No. = 1634 Elapsed Time = 2.989991E+06 days
7937 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
7939 Time Step No. = 1635 Elapsed Time = 2.991991E+06 days
7940 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
7942 Time Step No. = 1636 Elapsed Time = 2.993991E+06 days
7943 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
7945 Time Step No. = 1637 Elapsed Time = 2.995991E+06 days
7946 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
7948 Time Step No. = 1638 Elapsed Time = 2.997991E+06 days
7949 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
7951 Time Step No. = 1639 Elapsed Time = 2.999991E+06 days
7952 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
7954 Time Step No. = 1640 Elapsed Time = 3.001991E+06 days
7955 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
7957 Time Step No. = 1641 Elapsed Time = 3.003991E+06 days
7958 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
7960 Time Step No. = 1642 Elapsed Time = 3.005991E+06 days
7961 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
7963 Time Step No. = 1643 Elapsed Time = 3.007991E+06 days
7964 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
7966 Time Step No. = 1644 Elapsed Time = 3.009991E+06 days
7967 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
7969 Time Step No. = 1645 Elapsed Time = 3.011991E+06 days
7970 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
7973 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
7982 CPU Time (total for run) = 2.54 sec = 0.00071 hr
7983 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
7982 CPU Time (total for run) = 2.73 sec = 0.00076 hr
7983 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
8178 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) ASCII
8180 Time Step No. = 1646 Elapsed Time = 3.013310E+06 days
8181 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
8183 Time Step No. = 1647 Elapsed Time = 3.015310E+06 days
8184 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
8186 Time Step No. = 1648 Elapsed Time = 3.017310E+06 days
8187 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
8189 Time Step No. = 1649 Elapsed Time = 3.019310E+06 days
8190 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
8192 Time Step No. = 1650 Elapsed Time = 3.021310E+06 days
8193 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
8195 Time Step No. = 1651 Elapsed Time = 3.023310E+06 days
8196 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
8198 Time Step No. = 1652 Elapsed Time = 3.025310E+06 days
8199 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
8201 Time Step No. = 1653 Elapsed Time = 3.027310E+06 days
8202 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
8204 Time Step No. = 1654 Elapsed Time = 3.029310E+06 days
8205 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
8207 Time Step No. = 1655 Elapsed Time = 3.031310E+06 days
8208 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
8210 Time Step No. = 1656 Elapsed Time = 3.033310E+06 days
8211 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
8213 Time Step No. = 1657 Elapsed Time = 3.035310E+06 days
8214 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
8216 Time Step No. = 1658 Elapsed Time = 3.037310E+06 days
8217 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
8219 Time Step No. = 1659 Elapsed Time = 3.039310E+06 days
8220 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
8222 Time Step No. = 1660 Elapsed Time = 3.041310E+06 days
8223 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
8225 Time Step No. = 1661 Elapsed Time = 3.043310E+06 days
8226 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
8228 Time Step No. = 1662 Elapsed Time = 3.045310E+06 days
8229 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
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8231 Time Step No. = 1663 Elapsed Time = 3.047310E+06 days
8232 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.58 (2.58 sec) Binary
8234 Time Step No. = 1664 Elapsed Time = 3.049310E+06 days
8235 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.58 (2.58 sec) Binary
8237 Time Step No. = 1665 Elapsed Time = 3.051310E+06 days
8238 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.58 (2.58 sec) Binary
8240 Time Step No. = 1666 Elapsed Time = 3.053310E+06 days
8241 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.58 (2.58 sec) Binary
8243 Time Step No. = 1667 Elapsed Time = 3.055310E+06 days
8244 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.59 (2.59 sec) Binary
8246 Time Step No. = 1668 Elapsed Time = 3.057310E+06 days
8247 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.59 (2.59 sec) Binary
8249 Time Step No. = 1669 Elapsed Time = 3.059310E+06 days
8250 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.59 (2.59 sec) Binary
8252 Time Step No. = 1670 Elapsed Time = 3.061310E+06 days
8253 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.59 (2.59 sec) Binary
8255 Time Step No. = 1671 Elapsed Time = 3.063310E+06 days
8256 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.59 (2.59 sec) Binary
8258 Time Step No. = 1672 Elapsed Time = 3.065310E+06 days
8259 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 (2.60 sec) Binary
8261 Time Step No. = 1673 Elapsed Time = 3.067310E+06 days
8262 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 (2.60 sec) Binary
8264 Time Step No. = 1674 Elapsed Time = 3.069310E+06 days
8265 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 (2.60 sec) Binary
8267 Time Step No. = 1675 Elapsed Time = 3.071310E+06 days
8268 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 (2.60 sec) Binary
8270 Time Step No. = 1676 Elapsed Time = 3.073310E+06 days
8271 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 (2.60 sec) Binary
8273 Time Step No. = 1677 Elapsed Time = 3.075310E+06 days
8274 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 (2.60 sec) Binary
8276 Time Step No. = 1678 Elapsed Time = 3.077310E+06 days
8277 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 (2.60 sec) Binary
8279 Time Step No. = 1679 Elapsed Time = 3.079310E+06 days
8280 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 (2.60 sec) Binary
8282 Time Step No. = 1680 Elapsed Time = 3.081310E+06 days
8283 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 (2.60 sec) Binary
8285 Time Step No. = 1681 Elapsed Time = 3.083310E+06 days
8286 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 (2.60 sec) Binary
8288 Time Step No. = 1682 Elapsed Time = 3.085310E+06 days
8289 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 (2.60 sec) Binary
8291 Time Step No. = 1683 Elapsed Time = 3.087310E+06 days
8292 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 (2.60 sec) Binary
8294 Time Step No. = 1684 Elapsed Time = 3.089310E+06 days
8295 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 (2.60 sec) Binary
8297 Time Step No. = 1685 Elapsed Time = 3.091310E+06 days
8298 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 (2.60 sec) Binary
8300 Time Step No. = 1686 Elapsed Time = 3.093310E+06 days
8301 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 (2.60 sec) Binary
8303 Time Step No. = 1687 Elapsed Time = 3.095310E+06 days
8304 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 (2.60 sec) Binary
8306 Time Step No. = 1688 Elapsed Time = 3.097310E+06 days
8307 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.61 (2.61 sec) Binary
8309 Time Step No. = 1689 Elapsed Time = 3.099310E+06 days
8310 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.61 (2.61 sec) Binary
8312 Time Step No. = 1690 Elapsed Time = 3.101310E+06 days
8313 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.61 (2.61 sec) Binary
8315 Time Step No. = 1691 Elapsed Time = 3.103310E+06 days
8316 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.61 (2.61 sec) Binary
8319 *****

File PAA: [ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1

8178 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.74 (2.74 sec) ASCII
8180 Time Step No. = 1646 Elapsed Time = 3.013310E+06 days
8181 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.74 (2.74 sec) Binary
8183 Time Step No. = 1647 Elapsed Time = 3.015310E+06 days
8184 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.74 (2.74 sec) Binary
8186 Time Step No. = 1648 Elapsed Time = 3.017310E+06 days
8187 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.74 (2.74 sec) Binary
8189 Time Step No. = 1649 Elapsed Time = 3.019310E+06 days
8190 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.75 (2.75 sec) Binary
8192 Time Step No. = 1650 Elapsed Time = 3.021310E+06 days
8193 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.75 (2.75 sec) Binary
8195 Time Step No. = 1651 Elapsed Time = 3.023310E+06 days
8196 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.75 (2.75 sec) Binary
8198 Time Step No. = 1652 Elapsed Time = 3.025310E+06 days
8199 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.75 (2.75 sec) Binary


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8315 Time Step No. = 1691 Elapsed Time = 3.103310E+06 days
8316 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
8319 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
8328 CPU Time (total for run) = 2.61 sec = 0.00072 hr
8329 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
8328 CPU Time (total for run) = 2.83 sec = 0.00079 hr
8329 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
8524 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) ASCII
8526 Time Step No. = 1692 Elapsed Time = 3.104630E+06 days
8527 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
8529 Time Step No. = 1693 Elapsed Time = 3.106630E+06 days
8530 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
8532 Time Step No. = 1694 Elapsed Time = 3.108630E+06 days
8533 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
8535 Time Step No. = 1695 Elapsed Time = 3.110630E+06 days
8536 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
8538 Time Step No. = 1696 Elapsed Time = 3.112630E+06 days
8539 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
8541 Time Step No. = 1697 Elapsed Time = 3.114630E+06 days
8542 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
8544 Time Step No. = 1698 Elapsed Time = 3.116630E+06 days
8545 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
8547 Time Step No. = 1699 Elapsed Time = 3.118630E+06 days
8548 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
8550 Time Step No. = 1700 Elapsed Time = 3.120630E+06 days
8551 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
8553 Time Step No. = 1701 Elapsed Time = 3.122630E+06 days
8554 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
8556 Time Step No. = 1702 Elapsed Time = 3.124630E+06 days
8557 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
8559 Time Step No. = 1703 Elapsed Time = 3.126630E+06 days
8560 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
8562 Time Step No. = 1704 Elapsed Time = 3.128630E+06 days
8563 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
8565 Time Step No. = 1705 Elapsed Time = 3.130630E+06 days
8566 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
8568 Time Step No. = 1706 Elapsed Time = 3.132630E+06 days
8569 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
8571 Time Step No. = 1707 Elapsed Time = 3.134630E+06 days
8572 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
8574 Time Step No. = 1708 Elapsed Time = 3.136630E+06 days
8575 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
8577 Time Step No. = 1709 Elapsed Time = 3.138630E+06 days
8578 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
8580 Time Step No. = 1710 Elapsed Time = 3.140630E+06 days
8581 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
8583 Time Step No. = 1711 Elapsed Time = 3.142630E+06 days
8584 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
8586 Time Step No. = 1712 Elapsed Time = 3.144630E+06 days
8587 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
8589 Time Step No. = 1713 Elapsed Time = 3.146630E+06 days
8590 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
8592 Time Step No. = 1714 Elapsed Time = 3.148630E+06 days
8593 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
8595 Time Step No. = 1715 Elapsed Time = 3.150630E+06 days
8596 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
8598 Time Step No. = 1716 Elapsed Time = 3.152630E+06 days
8599 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
8601 Time Step No. = 1717 Elapsed Time = 3.154630E+06 days
8602 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
8604 Time Step No. = 1718 Elapsed Time = 3.156630E+06 days
8605 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
8607 Time Step No. = 1719 Elapsed Time = 3.158630E+06 days
8608 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
8610 Time Step No. = 1720 Elapsed Time = 3.160630E+06 days
8611 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
8613 Time Step No. = 1721 Elapsed Time = 3.162630E+06 days
8614 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
```


8616 Time Step No. = 1722 Elapsed Time = 3.164630E+06 days
8617 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.67 (2.67 sec) Binary
8619 Time Step No. = 1723 Elapsed Time = 3.166630E+06 days
8620 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.67 (2.67 sec) Binary
8622 Time Step No. = 1724 Elapsed Time = 3.168630E+06 days
8623 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.67 (2.67 sec) Binary
8625 Time Step No. = 1725 Elapsed Time = 3.170630E+06 days
8626 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.67 (2.67 sec) Binary
8628 Time Step No. = 1726 Elapsed Time = 3.172630E+06 days
8629 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.67 (2.67 sec) Binary
8631 Time Step No. = 1727 Elapsed Time = 3.174630E+06 days
8632 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.67 (2.67 sec) Binary
8634 Time Step No. = 1728 Elapsed Time = 3.176630E+06 days
8635 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.68 (2.68 sec) Binary
8637 Time Step No. = 1729 Elapsed Time = 3.178630E+06 days
8638 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.68 (2.68 sec) Binary
8640 Time Step No. = 1730 Elapsed Time = 3.180630E+06 days
8641 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.68 (2.68 sec) Binary
8643 Time Step No. = 1731 Elapsed Time = 3.182630E+06 days
8644 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.68 (2.68 sec) Binary
8646 Time Step No. = 1732 Elapsed Time = 3.184630E+06 days
8647 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.68 (2.68 sec) Binary
8649 Time Step No. = 1733 Elapsed Time = 3.186630E+06 days
8650 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.68 (2.68 sec) Binary
8652 Time Step No. = 1734 Elapsed Time = 3.188630E+06 days
8653 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.69 (2.69 sec) Binary
8655 Time Step No. = 1735 Elapsed Time = 3.190630E+06 days
8656 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.69 (2.69 sec) Binary
8658 Time Step No. = 1736 Elapsed Time = 3.192630E+06 days
8659 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.69 (2.69 sec) Binary
8661 Time Step No. = 1737 Elapsed Time = 3.194630E+06 days
8662 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.69 (2.69 sec) Binary
8665 *****

File PAA: [ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
8524 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.83 (2.83 sec) ASCII
8526 Time Step No. = 1692 Elapsed Time = 3.104630E+06 days
8527 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.83 (2.83 sec) Binary
8529 Time Step No. = 1693 Elapsed Time = 3.106630E+06 days
8530 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.84 (2.84 sec) Binary
8532 Time Step No. = 1694 Elapsed Time = 3.108630E+06 days
8533 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.84 (2.84 sec) Binary
8535 Time Step No. = 1695 Elapsed Time = 3.110630E+06 days
8536 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.84 (2.84 sec) Binary
8538 Time Step No. = 1696 Elapsed Time = 3.112630E+06 days
8539 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.84 (2.84 sec) Binary
8541 Time Step No. = 1697 Elapsed Time = 3.114630E+06 days
8542 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.84 (2.84 sec) Binary
8544 Time Step No. = 1698 Elapsed Time = 3.116630E+06 days
8545 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 (2.85 sec) Binary
8547 Time Step No. = 1699 Elapsed Time = 3.118630E+06 days
8548 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 (2.85 sec) Binary
8550 Time Step No. = 1700 Elapsed Time = 3.120630E+06 days
8551 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 (2.85 sec) Binary
8553 Time Step No. = 1701 Elapsed Time = 3.122630E+06 days
8554 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 (2.85 sec) Binary
8556 Time Step No. = 1702 Elapsed Time = 3.124630E+06 days
8557 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 (2.85 sec) Binary
8559 Time Step No. = 1703 Elapsed Time = 3.126630E+06 days
8560 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 (2.85 sec) Binary
8562 Time Step No. = 1704 Elapsed Time = 3.128630E+06 days
8563 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 (2.86 sec) Binary
8565 Time Step No. = 1705 Elapsed Time = 3.130630E+06 days
8566 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 (2.86 sec) Binary
8568 Time Step No. = 1706 Elapsed Time = 3.132630E+06 days
8569 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 (2.86 sec) Binary
8571 Time Step No. = 1707 Elapsed Time = 3.134630E+06 days
8572 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 (2.86 sec) Binary
8574 Time Step No. = 1708 Elapsed Time = 3.136630E+06 days
8575 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 (2.86 sec) Binary
8577 Time Step No. = 1709 Elapsed Time = 3.138630E+06 days
8578 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 (2.86 sec) Binary
8580 Time Step No. = 1710 Elapsed Time = 3.140630E+06 days
8581 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 (2.86 sec) Binary
8583 Time Step No. = 1711 Elapsed Time = 3.142630E+06 days
8584 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 (2.86 sec) Binary

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8586 Time Step No. = 1712 Elapsed Time = 3.144630E+06 days
8587 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
8589 Time Step No. = 1713 Elapsed Time = 3.146630E+06 days
8590 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
8592 Time Step No. = 1714 Elapsed Time = 3.148630E+06 days
8593 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
8595 Time Step No. = 1715 Elapsed Time = 3.150630E+06 days
8596 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
8598 Time Step No. = 1716 Elapsed Time = 3.152630E+06 days
8599 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
8601 Time Step No. = 1717 Elapsed Time = 3.154630E+06 days
8602 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
8604 Time Step No. = 1718 Elapsed Time = 3.156630E+06 days
8605 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
8607 Time Step No. = 1719 Elapsed Time = 3.158630E+06 days
8608 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
8610 Time Step No. = 1720 Elapsed Time = 3.160630E+06 days
8611 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
8613 Time Step No. = 1721 Elapsed Time = 3.162630E+06 days
8614 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
8616 Time Step No. = 1722 Elapsed Time = 3.164630E+06 days
8617 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
8619 Time Step No. = 1723 Elapsed Time = 3.166630E+06 days
8620 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
8622 Time Step No. = 1724 Elapsed Time = 3.168630E+06 days
8623 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
8625 Time Step No. = 1725 Elapsed Time = 3.170630E+06 days
8626 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
8628 Time Step No. = 1726 Elapsed Time = 3.172630E+06 days
8629 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
8631 Time Step No. = 1727 Elapsed Time = 3.174630E+06 days
8632 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
8634 Time Step No. = 1728 Elapsed Time = 3.176630E+06 days
8635 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
8637 Time Step No. = 1729 Elapsed Time = 3.178630E+06 days
8638 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
8640 Time Step No. = 1730 Elapsed Time = 3.180630E+06 days
8641 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
8643 Time Step No. = 1731 Elapsed Time = 3.182630E+06 days
8644 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
8646 Time Step No. = 1732 Elapsed Time = 3.184630E+06 days
8647 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
8649 Time Step No. = 1733 Elapsed Time = 3.186630E+06 days
8650 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
8652 Time Step No. = 1734 Elapsed Time = 3.188630E+06 days
8653 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
8655 Time Step No. = 1735 Elapsed Time = 3.190630E+06 days
8656 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
8658 Time Step No. = 1736 Elapsed Time = 3.192630E+06 days
8659 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
8661 Time Step No. = 1737 Elapsed Time = 3.194630E+06 days
8662 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
8665 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
8674 CPU Time (total for run) = 2.69 sec = 0.00075 hr
8675 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
8674 CPU Time (total for run) = 2.90 sec = 0.00081 hr
8675 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
8870 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) ASCII
8872 Time Step No. = 1738 Elapsed Time = 3.195949E+06 days
8873 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
8875 Time Step No. = 1739 Elapsed Time = 3.197949E+06 days
8876 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
8878 Time Step No. = 1740 Elapsed Time = 3.199949E+06 days
8879 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
8881 Time Step No. = 1741 Elapsed Time = 3.201949E+06 days
8882 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
8884 Time Step No. = 1742 Elapsed Time = 3.203949E+06 days
8885 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
```



```
9001 Time Step No. = 1781 Elapsed Time = 3.281949E+06 days
9002 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
9004 Time Step No. = 1782 Elapsed Time = 3.283949E+06 days
9005 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
9007 Time Step No. = 1783 Elapsed Time = 3.285949E+06 days
9008 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
9011 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
8870 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) ASCII
8872 Time Step No. = 1738 Elapsed Time = 3.195949E+06 days
8873 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
8875 Time Step No. = 1739 Elapsed Time = 3.197949E+06 days
8876 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
8878 Time Step No. = 1740 Elapsed Time = 3.199949E+06 days
8879 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
8881 Time Step No. = 1741 Elapsed Time = 3.201949E+06 days
8882 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
8884 Time Step No. = 1742 Elapsed Time = 3.203949E+06 days
8885 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
8887 Time Step No. = 1743 Elapsed Time = 3.205949E+06 days
8888 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
8890 Time Step No. = 1744 Elapsed Time = 3.207949E+06 days
8891 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
8893 Time Step No. = 1745 Elapsed Time = 3.209949E+06 days
8894 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
8896 Time Step No. = 1746 Elapsed Time = 3.211949E+06 days
8897 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
8899 Time Step No. = 1747 Elapsed Time = 3.213949E+06 days
8900 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
8902 Time Step No. = 1748 Elapsed Time = 3.215949E+06 days
8903 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
8905 Time Step No. = 1749 Elapsed Time = 3.217949E+06 days
8906 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
8908 Time Step No. = 1750 Elapsed Time = 3.219949E+06 days
8909 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
8911 Time Step No. = 1751 Elapsed Time = 3.221949E+06 days
8912 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
8914 Time Step No. = 1752 Elapsed Time = 3.223949E+06 days
8915 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
8917 Time Step No. = 1753 Elapsed Time = 3.225949E+06 days
8918 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
8920 Time Step No. = 1754 Elapsed Time = 3.227949E+06 days
8921 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
8923 Time Step No. = 1755 Elapsed Time = 3.229949E+06 days
8924 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
8926 Time Step No. = 1756 Elapsed Time = 3.231949E+06 days
8927 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
8929 Time Step No. = 1757 Elapsed Time = 3.233949E+06 days
8930 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
8932 Time Step No. = 1758 Elapsed Time = 3.235949E+06 days
8933 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
8935 Time Step No. = 1759 Elapsed Time = 3.237949E+06 days
8936 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
8938 Time Step No. = 1760 Elapsed Time = 3.239949E+06 days
8939 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
8941 Time Step No. = 1761 Elapsed Time = 3.241949E+06 days
8942 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
8944 Time Step No. = 1762 Elapsed Time = 3.243949E+06 days
8945 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
8947 Time Step No. = 1763 Elapsed Time = 3.245949E+06 days
8948 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
8950 Time Step No. = 1764 Elapsed Time = 3.247949E+06 days
8951 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
8953 Time Step No. = 1765 Elapsed Time = 3.249949E+06 days
8954 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
8956 Time Step No. = 1766 Elapsed Time = 3.251949E+06 days
8957 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
8959 Time Step No. = 1767 Elapsed Time = 3.253949E+06 days
8960 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
8962 Time Step No. = 1768 Elapsed Time = 3.255949E+06 days
8963 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
8965 Time Step No. = 1769 Elapsed Time = 3.257949E+06 days
8966 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
8968 Time Step No. = 1770 Elapsed Time = 3.259949E+06 days
8969 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
```

```
8971 Time Step No. = 1771 Elapsed Time = 3.261949E+06 days
8972 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8974 Time Step No. = 1772 Elapsed Time = 3.263949E+06 days
8975 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8977 Time Step No. = 1773 Elapsed Time = 3.265949E+06 days
8978 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8980 Time Step No. = 1774 Elapsed Time = 3.267949E+06 days
8981 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8983 Time Step No. = 1775 Elapsed Time = 3.269949E+06 days
8984 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8986 Time Step No. = 1776 Elapsed Time = 3.271949E+06 days
8987 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8989 Time Step No. = 1777 Elapsed Time = 3.273949E+06 days
8990 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8992 Time Step No. = 1778 Elapsed Time = 3.275949E+06 days
8993 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8995 Time Step No. = 1779 Elapsed Time = 3.277949E+06 days
8996 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
8998 Time Step No. = 1780 Elapsed Time = 3.279949E+06 days
8999 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
9001 Time Step No. = 1781 Elapsed Time = 3.281949E+06 days
9002 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
9004 Time Step No. = 1782 Elapsed Time = 3.283949E+06 days
9005 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
9007 Time Step No. = 1783 Elapsed Time = 3.285949E+06 days
9008 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
9011 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
9020 CPU Time (total for run) = 2.80 sec = 0.00078 hr
9021 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
9020 CPU Time (total for run) = 2.98 sec = 0.00083 hr
9021 *****
*****
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
9216 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) ASCII
9218 Time Step No. = 1784 Elapsed Time = 3.287269E+06 days
9219 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
9221 Time Step No. = 1785 Elapsed Time = 3.289269E+06 days
9222 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
9224 Time Step No. = 1786 Elapsed Time = 3.291269E+06 days
9225 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
9227 Time Step No. = 1787 Elapsed Time = 3.293269E+06 days
9228 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
9230 Time Step No. = 1788 Elapsed Time = 3.295269E+06 days
9231 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
9233 Time Step No. = 1789 Elapsed Time = 3.297269E+06 days
9234 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
9236 Time Step No. = 1790 Elapsed Time = 3.299269E+06 days
9237 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
9239 Time Step No. = 1791 Elapsed Time = 3.301269E+06 days
9240 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
9242 Time Step No. = 1792 Elapsed Time = 3.303269E+06 days
9243 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
9245 Time Step No. = 1793 Elapsed Time = 3.305269E+06 days
9246 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
9248 Time Step No. = 1794 Elapsed Time = 3.307269E+06 days
9249 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
9251 Time Step No. = 1795 Elapsed Time = 3.309269E+06 days
9252 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
9254 Time Step No. = 1796 Elapsed Time = 3.311269E+06 days
9255 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
9257 Time Step No. = 1797 Elapsed Time = 3.313269E+06 days
9258 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
9260 Time Step No. = 1798 Elapsed Time = 3.315269E+06 days
9261 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
9263 Time Step No. = 1799 Elapsed Time = 3.317269E+06 days
9264 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
9266 Time Step No. = 1800 Elapsed Time = 3.319269E+06 days
9267 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
9269 Time Step No. = 1801 Elapsed Time = 3.321269E+06 days
9270 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
```


9728 Time Step No. = 1954 Elapsed Time = 3.627269E+06 days
9729 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.10 (3.10 sec) Binary
9731 Time Step No. = 1955 Elapsed Time = 3.629269E+06 days
9732 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.10 (3.10 sec) Binary
9734 Time Step No. = 1956 Elapsed Time = 3.631269E+06 days
9735 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.10 (3.10 sec) Binary
9737 Time Step No. = 1957 Elapsed Time = 3.633269E+06 days
9738 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.11 (3.11 sec) Binary
9740 Time Step No. = 1958 Elapsed Time = 3.635269E+06 days
9741 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.11 (3.11 sec) Binary
9743 Time Step No. = 1959 Elapsed Time = 3.637269E+06 days
9744 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.11 (3.11 sec) Binary
9746 Time Step No. = 1960 Elapsed Time = 3.639269E+06 days
9747 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.11 (3.11 sec) Binary
9749 Time Step No. = 1961 Elapsed Time = 3.641269E+06 days
9750 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.12 (3.12 sec) Binary
9752 Time Step No. = 1962 Elapsed Time = 3.643269E+06 days
9753 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.12 (3.12 sec) Binary
9755 Time Step No. = 1963 Elapsed Time = 3.645269E+06 days
9756 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.12 (3.12 sec) Binary
9758 Time Step No. = 1964 Elapsed Time = 3.647269E+06 days
9759 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.12 (3.12 sec) Binary
9761 Time Step No. = 1965 Elapsed Time = 3.649269E+06 days
9762 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.12 (3.12 sec) Binary
9764 Time Step No. = 1966 Elapsed Time = 3.651269E+06 days
9765 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.13 (3.13 sec) Binary
9768 *****

File PAA: [ANALYSIS.BF.QB0600.ES45.TEST14]BP2_QB0600_ES47_TEST14.OUT;1
9216 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.99 (2.99 sec) ASCII
9218 Time Step No. = 1784 Elapsed Time = 3.287269E+06 days
9219 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.99 (2.99 sec) Binary
9221 Time Step No. = 1785 Elapsed Time = 3.289269E+06 days
9222 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.99 (2.99 sec) Binary
9224 Time Step No. = 1786 Elapsed Time = 3.291269E+06 days
9225 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.99 (2.99 sec) Binary
9227 Time Step No. = 1787 Elapsed Time = 3.293269E+06 days
9228 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 (3.00 sec) Binary
9230 Time Step No. = 1788 Elapsed Time = 3.295269E+06 days
9231 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 (3.00 sec) Binary
9233 Time Step No. = 1789 Elapsed Time = 3.297269E+06 days
9234 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 (3.00 sec) Binary
9236 Time Step No. = 1790 Elapsed Time = 3.299269E+06 days
9237 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 (3.00 sec) Binary
9239 Time Step No. = 1791 Elapsed Time = 3.301269E+06 days
9240 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 (3.00 sec) Binary
9242 Time Step No. = 1792 Elapsed Time = 3.303269E+06 days
9243 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 (3.00 sec) Binary
9245 Time Step No. = 1793 Elapsed Time = 3.305269E+06 days
9246 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.01 (3.01 sec) Binary
9248 Time Step No. = 1794 Elapsed Time = 3.307269E+06 days
9249 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.01 (3.01 sec) Binary
9251 Time Step No. = 1795 Elapsed Time = 3.309269E+06 days
9252 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.01 (3.01 sec) Binary
9254 Time Step No. = 1796 Elapsed Time = 3.311269E+06 days
9255 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.01 (3.01 sec) Binary
9257 Time Step No. = 1797 Elapsed Time = 3.313269E+06 days
9258 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.01 (3.01 sec) Binary
9260 Time Step No. = 1798 Elapsed Time = 3.315269E+06 days
9261 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.02 (3.02 sec) Binary
9263 Time Step No. = 1799 Elapsed Time = 3.317269E+06 days
9264 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.02 (3.02 sec) Binary
9266 Time Step No. = 1800 Elapsed Time = 3.319269E+06 days
9267 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.02 (3.02 sec) Binary
9269 Time Step No. = 1801 Elapsed Time = 3.321269E+06 days
9270 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.02 (3.02 sec) Binary
9272 Time Step No. = 1802 Elapsed Time = 3.323269E+06 days
9273 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.03 (3.03 sec) Binary
9275 Time Step No. = 1803 Elapsed Time = 3.325269E+06 days
9276 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.03 (3.03 sec) Binary
9278 Time Step No. = 1804 Elapsed Time = 3.327269E+06 days
9279 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.03 (3.03 sec) Binary
9281 Time Step No. = 1805 Elapsed Time = 3.329269E+06 days
9282 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.03 (3.03 sec) Binary
9284 Time Step No. = 1806 Elapsed Time = 3.331269E+06 days
9285 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.03 (3.03 sec) Binary

9743 Time Step No. = 1959 Elapsed Time = 3.637269E+06 days
9744 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.30 (3.30 sec) Binary
9746 Time Step No. = 1960 Elapsed Time = 3.639269E+06 days
9747 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.30 (3.30 sec) Binary
9749 Time Step No. = 1961 Elapsed Time = 3.641269E+06 days
9750 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.30 (3.30 sec) Binary
9752 Time Step No. = 1962 Elapsed Time = 3.643269E+06 days
9753 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.30 (3.30 sec) Binary
9755 Time Step No. = 1963 Elapsed Time = 3.645269E+06 days
9756 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 (3.31 sec) Binary
9758 Time Step No. = 1964 Elapsed Time = 3.647269E+06 days
9759 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 (3.31 sec) Binary
9761 Time Step No. = 1965 Elapsed Time = 3.649269E+06 days
9762 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 (3.31 sec) Binary
9764 Time Step No. = 1966 Elapsed Time = 3.651269E+06 days
9765 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 (3.31 sec) Binary
9768 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
9776 CPU Time (this time step) = 0.01 sec = 0.00000 hr
9777 CPU Time (total for run) = 3.13 sec = 0.00087 hr
9778 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
9776 CPU Time (this time step) = 0.00 sec = 0.00000 hr
9777 CPU Time (total for run) = 3.31 sec = 0.00092 hr
9778 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
9973 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.13 (3.13 sec) ASCII
9975 Time Step No. = 1967 Elapsed Time = 3.652431E+06 days
9976 Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.13 (3.13 sec) Binary
9981 *****
9982 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
9983 * Completed: 02/15/07 at 12:58:20 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
9984 *****

File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
9973 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 (3.31 sec) ASCII
9975 Time Step No. = 1967 Elapsed Time = 3.652431E+06 days
9976 Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 (3.31 sec) Binary
9981 *****
9982 * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
9983 * Completed: 02/14/07 at 16:02:45 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
9984 *****

Number of difference sections found: 38
Number of difference records found: 3841

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1

Appendix A

NUCLEAR WASTE MANAGEMENT PROCEDURE Sandia National Laboratories	<h2 style="margin: 0;">Document Review and Comment (DRC)</h2>	Form Number: NP 6-1-1 Page 1 of 2			
<p>REVIEW REQUESTER: (e.g., author/Sandia contact) Complete items 1-6. Provide the DRC and review document to the reviewer.</p> <p>REVIEWER: Review the document applying the criteria specified below, and complete items 7 and 8. Return DRC to Review Requester/Delegate.</p> <p>REVIEW REQUESTER/DELEGATE: If there are comments requiring response, prepare response to each comment on following page(s); complete item 9, and return to reviewer.</p> <p>REVIEWER: Review responses to comments. Indicate acceptance or rejection on the DRC and complete item 10.</p> <p>NOTE: REVIEWER AND REVIEW REQUESTER/DELEGATE are encouraged to discuss comments. If comment(s) cannot be resolved, refer the issue(s) to management. Entries must be complete, legible, and in reproducible ink or completed electronically.</p>					
<p>1. Document Title: <u>Validation Document for BRAGFLO (Version 6.0)</u> 2. Rev. #: _____ (if applicable)</p> <p>3. Document Description: (e.g. abstract, procedure, SAND report) <u>Report</u></p> <p>4. Type of Review & Criteria:</p> <table style="width:100%; border: none;"> <tr> <td style="width:33%; vertical-align: top;"> <input checked="" type="checkbox"/> Technical (Technical adequacy, accuracy, completeness) -Are objectives clearly stated and fulfilled? -Is the technical activity clearly described? -Are equations/calculations accurate? -Does logic lead to reasonable conclusions? -Are the results drawn from the data supported by data presented? -Data/tables/figures: Are they easily understood? Are legends complete? <input type="checkbox"/> Other type of review (please specify or leave blank if not applicable) </td> <td style="width:33%; vertical-align: top;"> <input type="checkbox"/> QA (Compliance and completeness) -Are applicable QA requirements adequately cited/ incorporated and met (content, reviews)? - <u>Has the technical review been performed by someone who is "independent"?</u> <u>(see NP 6-1, Section 2.2)</u> </td> <td style="width:33%; vertical-align: top;"> <input type="checkbox"/> Management(Completeness and correctness) -Is report consistent with policy? -Is there consensus with other program documents? -Does the document meet applicable criteria? </td> </tr> </table> <p>5. Additional criteria: (if applicable) _____</p> <p>6. Review Requester: <u>Daniel J Clayton</u> Date: <u>03/05/2007</u></p> <p>7. Review Prepared by: <u>Michael Riggins</u> <u>03/28/2007</u> Date</p> <p style="text-align: center; font-size: small;"> <small>Reviewer's Printed Name</small> <small>Printed Name</small> <small>Reviewer's Signature</small> <small>Reviewer's Signature</small> </p> <p>8. One of the following boxes must be checked: <input type="checkbox"/> No comments <input checked="" type="checkbox"/> Comments; record on following pages.</p>			<input checked="" type="checkbox"/> Technical (Technical adequacy, accuracy, completeness) -Are objectives clearly stated and fulfilled? -Is the technical activity clearly described? -Are equations/calculations accurate? -Does logic lead to reasonable conclusions? -Are the results drawn from the data supported by data presented? -Data/tables/figures: Are they easily understood? Are legends complete? <input type="checkbox"/> Other type of review (please specify or leave blank if not applicable)	<input type="checkbox"/> QA (Compliance and completeness) -Are applicable QA requirements adequately cited/ incorporated and met (content, reviews)? - <u>Has the technical review been performed by someone who is "independent"?</u> <u>(see NP 6-1, Section 2.2)</u>	<input type="checkbox"/> Management (Completeness and correctness) -Is report consistent with policy? -Is there consensus with other program documents? -Does the document meet applicable criteria?
<input checked="" type="checkbox"/> Technical (Technical adequacy, accuracy, completeness) -Are objectives clearly stated and fulfilled? -Is the technical activity clearly described? -Are equations/calculations accurate? -Does logic lead to reasonable conclusions? -Are the results drawn from the data supported by data presented? -Data/tables/figures: Are they easily understood? Are legends complete? <input type="checkbox"/> Other type of review (please specify or leave blank if not applicable)	<input type="checkbox"/> QA (Compliance and completeness) -Are applicable QA requirements adequately cited/ incorporated and met (content, reviews)? - <u>Has the technical review been performed by someone who is "independent"?</u> <u>(see NP 6-1, Section 2.2)</u>	<input type="checkbox"/> Management (Completeness and correctness) -Is report consistent with policy? -Is there consensus with other program documents? -Does the document meet applicable criteria?			
<p>(This section to be left blank if there are no comments requiring a response)</p> <p>9. Response to comments prepared by: <u>Daniel J Clayton</u> <u>04/03/2007</u> Date</p> <p style="text-align: center; font-size: small;"> <small>Review Requester's/Delegate's Printed Name</small> <small>Review Requester's/Delegate's Signature</small> </p> <p>10. Response Concurrence: <u>Michael Riggins</u> <u>04/03/2007</u> Date</p> <p style="text-align: center; font-size: small;"> <small>Reviewer's Signature</small> </p>					

Document Review and Comment (DRC)

Form Number:
NP 6-1-1
Page 2 of 2

Type of Review: Technical QA Management Other

Document Title: Validation Document for BRAGFLO (Version 6.0)

Rev. #: _____

Reviewer's Comments (Enter "LAST COMMENT" in row below last entry)				Review Requester's/Delegate's Response			Reviewer's Response	
Comment#	*	Location	Comment	Accept	Reject		Accept	Reject
1	N	Entire Document	Below are my comments based on a review of the WIPP PA Validation Document for BRAGFLO Version 6.00. The electronic version of which was supplied to me by Dan Clayton on 03/05/2007. I have conducted an independent technical review to the best of my ability. Due to the extensive nature of the document (1,727 pgs.) and time constraints, I reviewed the text portion (pgs. 1 thru 160) and conducted spot checks of the Appendices (pgs. 161 thru 1727) and computer files residing in the CMS library (LIBBF). None of comments are considered mandatory but all warrant serious consideration and a response or comment.					
2	N	Entire Document	The date on the cover page and in the page headings is February 2007. I checked with Mario earlier on this and he said the date is supposed to be the date that the report is finally submitted, currently an unknown, so it will be filled in latter.	X		Date adjusted to April 2007	X	
3	Y	Section 6.10.3 Input Files pg. 107	Sentence reads in part as: "...ASCII file, BF2_QB0600_TEST10_INP.DIF (Figure 6.10.1). As seen in Figure 6.10.2,..." In the above sentence Figure 6.10.1 should be Figure 6.10.2.	X		Changed	X	
4	Y	Section 6.14.4.5 Cellulosics Microbial Degradation Dependent Chemistry Rates pg. 144	Definitions read as: Q_{rsulf} = calculated in Equation 9.14.15, Q_{rcarb} = calculated in Equation 9.14.15. Should be Equation 6.14.5.	X		Changed	X	
			LAST COMMENT.					

* Mark Y (Yes) for comments requiring a response from the Review Requester/Delegate.
Mark N (No) for comments not requiring a response from the Review Requester/Delegate.


Vugrin, Eric D

From: Riggins, Michael
Sent: Wednesday, March 28, 2007 1:45 PM
To: Vugrin, Eric D
Cc: Clayton, Daniel James; Lee, Moo; Chavez, Mario Joseph
Subject: Signature Authority for BRAGFLO Validation Document

Importance: High

Eric,

I give signature authority to Eric Vugrin for documents pertaining to the BRAGFLO Version 6.00 Validation Document.

Mike Riggins, PhD
Sandia Nat'l Labs
Org 6711 - WIPP PA
(505) 234-0066 Carlsbad
(512) 482-0008 Austin
(505) 284-2730 Albuquerque
mriggi@sandia.gov

Information Only

Appendix A

NUCLEAR WASTE MANAGEMENT PROCEDURE Sandia National Laboratories	<h2 style="margin: 0;">Document Review and Comment (DRC)</h2>	Form Number: NP 6-1-1 Page 1 of <u>1</u>			
<p>REVIEW REQUESTER: (e.g., author/Sandia contact) Complete items 1-6. Provide the DRC and review document to the reviewer.</p> <p>REVIEWER: Review the document applying the criteria specified below, and complete items 7 and 8. Return DRC to Review Requester/Delegate.</p> <p>REVIEW REQUESTER/DELEGATE: If there are comments requiring response, prepare response to each comment on following page(s); complete item 9, and return to reviewer.</p> <p>REVIEWER: Review responses to comments. Indicate acceptance or rejection on the DRC and complete item 10.</p> <p>NOTE: REVIEWER AND REVIEW REQUESTER/DELEGATE are encouraged to discuss comments. If comment(s) cannot be resolved, refer the issue(s) to management. Entries must be complete, legible, and in reproducible ink or completed electronically.</p>					
<p>1. Document Title: <u>Validation Document for BRAGFLO (Version 6.0)</u> 2. Rev. #: _____ (if applicable)</p> <p>3. Document Description: (e.g. abstract, procedure, SAND report) <u>Report</u></p> <p>4. Type of Review & Criteria:</p> <table style="width:100%; border: none;"> <tr> <td style="width:33%; border: none;"> <input type="checkbox"/> Technical (Technical adequacy, accuracy, completeness) -Are objectives clearly stated and fulfilled? -Is the technical activity clearly described? -Are equations/calculations accurate? -Does logic lead to reasonable conclusions? -Are the results drawn from the data supported by data presented? -Data/tables/figures: Are they easily understood? Are legends complete? <input type="checkbox"/> Other type of review (please specify or leave blank if not applicable) </td> <td style="width:33%; border: none;"> <input type="checkbox"/> QA (Compliance and completeness) -Are applicable QA requirements adequately cited/ incorporated and met (content, reviews)? - <u>Has the technical review been performed by someone who is "independent"?</u> (see NP 6-1, Section 2.2) </td> <td style="width:33%; border: none;"> <input checked="" type="checkbox"/> Management(Completeness and correctness) -Is report consistent with policy? -Is there consensus with other program documents? -Does the document meet applicable criteria? </td> </tr> </table> <p>5. Additional criteria: (if applicable) _____</p> <p>6. Review Requester: <u>Daniel J Clayton</u> Date: <u>03/28/2007</u> <small>Printed Name</small></p> <p>7. Review Prepared by: <u>Moo Lee</u> <u>3/29/2007</u> <small>Reviewer's Printed Name</small> <small>Reviewer's Signature</small> <small>Date</small></p> <p>8. One of the following boxes must be checked: <input checked="" type="checkbox"/> No comments <input type="checkbox"/> Comments; record on following pages.</p> <p>(This section to be left blank if there are no comments requiring a response)</p> <p>9. Response to comments prepared by: _____ _____ <small>Review Requester's/Delegate's Printed Name</small> <small>Review Requester's/Delegate's Signature</small> <small>Date</small></p> <p>10. Response Concurrence: _____ _____ <small>Reviewer's Signature</small> <small>Date</small></p>			<input type="checkbox"/> Technical (Technical adequacy, accuracy, completeness) -Are objectives clearly stated and fulfilled? -Is the technical activity clearly described? -Are equations/calculations accurate? -Does logic lead to reasonable conclusions? -Are the results drawn from the data supported by data presented? -Data/tables/figures: Are they easily understood? Are legends complete? <input type="checkbox"/> Other type of review (please specify or leave blank if not applicable)	<input type="checkbox"/> QA (Compliance and completeness) -Are applicable QA requirements adequately cited/ incorporated and met (content, reviews)? - <u>Has the technical review been performed by someone who is "independent"?</u> (see NP 6-1, Section 2.2)	<input checked="" type="checkbox"/> Management(Completeness and correctness) -Is report consistent with policy? -Is there consensus with other program documents? -Does the document meet applicable criteria?
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Appendix A

NUCLEAR WASTE MANAGEMENT PROCEDURE Sandia National Laboratories	<h2 style="margin: 0;">Document Review and Comment (DRC)</h2>	Form Number: NP 6-1-1 Page 1 of 3			
<p>REVIEW REQUESTER: (e.g., author/Sandia contact) Complete items 1-6. Provide the DRC and review document to the reviewer.</p> <p>REVIEWER: Review the document applying the criteria specified below, and complete items 7 and 8. Return DRC to Review Requester/Delegate.</p> <p>REVIEW REQUESTER/DELEGATE: If there are comments requiring response, prepare response to each comment on following page(s); complete item 9, and return to reviewer.</p> <p>REVIEWER: Review responses to comments. Indicate acceptance or rejection on the DRC and complete item 10.</p> <p>NOTE: REVIEWER AND REVIEW REQUESTER/DELEGATE are encouraged to discuss comments. If comment(s) cannot be resolved, refer the issue(s) to management. Entries must be complete, legible, and in reproducible ink or completed electronically.</p>					
<p>1. Document Title: <u>Validation Document for BRAGFLO 6.0 Document Version 6.00</u></p> <p>2. Rev. #: _____ (if applicable)</p> <p>3. Document Description: (e.g. abstract, procedure, SAND report) <u>Software Document</u></p> <p>4. Type of Review & Criteria:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> Technical (Technical adequacy, accuracy, completeness) -Are objectives clearly stated and fulfilled? -Is the technical activity clearly described? -Are equations/calculations accurate? -Does logic lead to reasonable conclusions? -Are the results drawn from the data supported by data presented? -Data/tables/figures: Are they easily understood? Are legends complete? </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> QA (Compliance and completeness) -Are applicable QA requirements adequately cited/ incorporated and met (content, reviews)? - <u>Has the technical review been performed by someone who is "independent"?</u> (see NP 6-1, Section 2.2) </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> Management(Completeness and correctness) -Is report consistent with policy? -Is there consensus with other program documents? -Does the document meet applicable criteria? </td> </tr> </table> <p><input checked="" type="checkbox"/> Other type of review (please specify or leave blank if not applicable) <u>SCM Coordinator</u></p> <p>5. Additional criteria: (if applicable) _____</p> <p>6. Review Requester: <u>Daniel Clayton</u> Date: <u>3/28/2007</u> <small>Printed Name</small></p> <p>7. Review Prepared by: <u>Jennifer Long</u> Date: <u>3/30/2007</u> <small>Reviewer's Printed Name</small> <small>Reviewer's Signature</small></p> <p>8. One of the following boxes must be checked: <input type="checkbox"/> No comments <input checked="" type="checkbox"/> Comments; record on following pages.</p> <p>(This section to be left blank if there are no comments requiring a response)</p> <p>9. Response to comments prepared by: <u>Daniel Clayton</u> Date: <u>04/05/2007</u> <small>Review Requester's/Delegate's Printed Name</small> <small>Review Requester's/Delegate's Signature</small></p> <p>10. Response Concurrence: <u>Jennifer Long</u> Date: <u>04/05/2007</u> <small>Reviewer's Signature</small> <small>Reviewer's Signature</small></p>			<input type="checkbox"/> Technical (Technical adequacy, accuracy, completeness) -Are objectives clearly stated and fulfilled? -Is the technical activity clearly described? -Are equations/calculations accurate? -Does logic lead to reasonable conclusions? -Are the results drawn from the data supported by data presented? -Data/tables/figures: Are they easily understood? Are legends complete?	<input type="checkbox"/> QA (Compliance and completeness) -Are applicable QA requirements adequately cited/ incorporated and met (content, reviews)? - <u>Has the technical review been performed by someone who is "independent"?</u> (see NP 6-1, Section 2.2)	<input type="checkbox"/> Management(Completeness and correctness) -Is report consistent with policy? -Is there consensus with other program documents? -Does the document meet applicable criteria?
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Document Review and Comment (DRC)

Form Number:
NP 6-1-1
Page 2 of 3

Type of Review: Technical QA Management Other

Document Title: Validation Document for BRAGFLO Version 6.0 Document Version 6.00

Rev. #: _____

Reviewer's Comments (Enter "LAST COMMENT" in row below last entry)				Review Requester's/Delegate's Response			Reviewer's Response	
Comment#	*	Location	Comment	Accept	Reject		Accept	Reject
1	Y	List of Tables	Please correct the: Error! Bookmark not defined error.	X		Corrected	X	
2	Y	Section 1.1	Revised Date should be February 12, 2007.	X		Changed	X	
3	Y	Whole document	Name of input diff file should be BF2_QB0600_ES47_TEST*_INP.DIF (missing ES47)	X		Added	X	
4	Y	Section 6.4.2	Shouldn't you include the results from TOUGH run on Test Case #4? BF2_TEST4_T019.DAT and BF2_TEST4_T139.DAT	X		Included	X	
5	Y	Section 6.5.1	Shouldn't you include the Data Files produced by BF2_TEST5_BFDAT.FOR? What about BF2_TEST5_THHX.DAT and BF2_TEST5_THVX.DAT?	X		Included	X	
6	Y	Section 6.6.1	Number 9 should be R.25, Number 10 should be R.27, Number 11 should be R.26, Please also mention functional requirement 18.	X		Changed and added	X	
7	Y	Section 6.7.1	You don't test for R20-R24 either. Please add text to this effect.	X		Added	X	
8	Y	Section 6.7.2	BF2_TEST7_ALGEBRA_Vnnn.CDB and BF2_QB0600_TEST7_Vnnn.CDB does not exist. File names must be wrong.	X		Text removed, not needed in discussion.	X	
9	Y	Section 6.11.3	BF2_TEST11_QA0500_DENNEW.INP should be BF2_TEST11_DENNEW_QA0500.INP.	X		Changed	X	
10	Y	Section 6.11.4	BF2_VMS82_V500_ES47_TEST11.OUT should be BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT	X		Changed	X	
11	Y	Section 6.12.1, 6.12.2, 6.13.2	BRAGFLO Version 5.00 should be BRAGFLO Version 6.0	X		Changed in 6.12.1, not needed in 6.12.2 or 6.13.2	X	
12	Y	Section 6.12.4	Several occurrences: BF2_QB0600_ES47_TEST12_*.DIF should be BF2_QB0600_ES47_TEST12_*_OUT.DIF	X		Changed	X	

Document Review and Comment (DRC)

Form Number:
NP 6-1-1
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Document Title: Validation Document for BRAGFLO Version 6.0 Document Version 6.00

Rev. #: _____

Reviewer's Comments (Enter "LAST COMMENT" in row below last entry)				Review Requester's/Delegate's Response			Reviewer's Response	
Comment#	*	Location	Comment	Accept	Reject		Accept	Reject
13	Y	Figure 6.14.1 & 6.14.2	Reposition Figure 6.14.1 and renumber the figure below it to Figure 6.14.2 instead of 6.14.1.		X	Not needed	X	
14	Y	6.14.2, 6.14.4	File name BF2_QB0600_TEST14.OUT should be BF2_QB0600_ES47_TEST14.OUT, BF2_QB0600_TEST14.BIN should be BF2_QB0600_ES47_TEST14.BIN, BF2_QB0600_TEST14.CDB should be BF2_ALG1_QB0600_TEST14.CDB	X		Changed	X	
15	Y	References	2 nd add ERMS#503206, 3 rd add ERMS#245616, 6 th add ERMS#138458, 11 th add ERMS#228478, 18 th add ERMS#246742, 19 th add ERMS#246757, 20 th add ERMS#545250	X		Added	X	
			-----LAST COMMENT-----					

* Mark Y (Yes) for comments requiring a response from the Review Requester/Delegate.
Mark N (No) for comments not requiring a response from the Review Requester/Delegate.