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\*\*\*COMSOL 4.4.0.248 progress output file\*\*\*

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Fri Jan 16 19:41:20 GMT 2015

COMSOL 4.4 (Build: 248) starting in batch mode

Opening file: /home/men-comp1/mn12a2a/hpc/wax\_deposit.mph

Open time: 14 s.

Running: Study 1

Current Progress: 0 %

Memory: 386/386 4062/4062

---------- Current Progress: 100 %

Memory: 385/386 4060/4062

Stationary Solver 1 in Solver 1 started at 16-Jan-2015 19:41:40.

Current Progress: 0 %

Memory: 500/500 4126/4126

Nonlinear solver

Number of degrees of freedom solved for: 189799.

Symmetric matrices found.

Scales for dependent variables:

Reciprocal initial interface distance (comp1.GI): 5.2e+02

Iter ErrEst Damping Stepsize #Res #Jac #Sol LinErr LinRes

1 0.24 0.0100000 0.25 2 1 2 1.7e-13 1.6e-15

- Current Progress: 10 %

Memory: 728/744 4377/4442

Nonsymmetric matrix found.

2 0.23 0.1000000 0.25 3 2 4 1.5e-13 1.4e-15

-- Current Progress: 20 %

Memory: 764/894 4441/4571

3 0.1 1.0000000 0.33 4 3 6 1.5e-13 1.6e-15

------ Current Progress: 61 %

Memory: 853/899 4505/4594

4 0.098 1.0000000 0.32 5 4 8 1.9e-13 2.4e-15

--- Current Progress: 39 %

Memory: 859/903 4505/4594

5 0.095 1.0000000 0.31 6 5 10 2.6e-13 4.4e-15

---- Current Progress: 44 %

Memory: 860/929 4505/4594

6 0.091 1.0000000 0.3 7 6 12 3.9e-13 7.9e-15

----- Current Progress: 51 %

Memory: 855/929 4505/4594

7 0.086 1.0000000 0.28 8 7 14 6.4e-13 1.3e-14

----- Current Progress: 57 %

Memory: 868/929 4505/4594

8 0.083 1.0000000 0.27 9 8 16 1.1e-12 2.5e-14

9 0.083 0.9906631 0.26 10 9 18 1.8e-12 4e-14

----- Current Progress: 51 %

Memory: 778/930 4441/4594

10 0.083 0.9852505 0.26 11 10 20 3.3e-12 7.5e-14

---- Current Progress: 49 %

Memory: 858/930 4505/4594

11 0.027 0.9899770 0.26 12 11 22 5.2e-12 1.4e-13

-------- Current Progress: 89 %

Memory: 863/930 4505/4594

12 0.0085 0.9920687 0.25 13 12 24 9.3e-12 2.3e-13

--------- Current Progress: 93 %

Memory: 825/930 4505/4594

13 0.0027 0.9968327 0.25 14 13 26 1.8e-11 4.3e-13

--------- Current Progress: 96 %

Memory: 866/930 4505/4594

14 0.00082 1.0000000 0.28 15 14 28 3e-11 7e-13

---------- Current Progress: 100 %

Memory: 696/930 4377/4594

Stationary Solver 1 in Solver 1: Solution time: 40 s

Physical memory: 930 MB

Virtual memory: 4594 MB

Current Progress: 0 %

Memory: 700/930 4377/4594

---------- Current Progress: 100 %

Time-Dependent Solver 1 in Solver 1 started at 16-Jan-2015 19:42:23.

Time-dependent solver (BDF)

Current Progress: 0 %

Memory: 705/930 4377/4594

Number of degrees of freedom solved for: 617963.

Nonsymmetric matrix found.

Scales for dependent variables:

Level set variable (comp1.phils): 1

Pressure (comp1.p): 13

Velocity field (comp1.u): 0.00072

Step Time Stepsize Res Jac Sol Order Tfail NLfail LinErr LinRes

0 0 out 29 7 29 0 6.2e-09 4.4e-11

1 7.9967e-08 7.9967e-08 31 8 31 1 0 1 1.1e-08 3.8e-11

2 1.5993e-07 7.9967e-08 33 9 33 1 0 1 4.1e-07 1.5e-10

3 3.1987e-07 1.5993e-07 35 10 35 2 0 1 6.9e-07 9.6e-10

4 4.798e-07 1.5993e-07 37 11 37 2 0 1 1.8e-06 6.7e-10

5 7.9967e-07 3.1987e-07 39 12 39 2 0 1 1e-06 2.1e-09

6 1.1195e-06 3.1987e-07 41 13 41 2 0 1 2.3e-06 1.1e-09

7 1.7593e-06 6.3974e-07 43 14 43 2 0 1 5e-06 2.3e-09

8 2.399e-06 6.3974e-07 45 15 45 2 0 1 1.3e-05 4.7e-10

9 3.0388e-06 6.3974e-07 47 16 47 2 0 1 1.5e-05 2.9e-10

10 3.6785e-06 6.3974e-07 49 17 49 2 0 1 5.2e-06 6.5e-11

11 4.958e-06 1.2795e-06 51 18 51 2 0 1 2.1e-05 1.3e-10

12 6.2374e-06 1.2795e-06 53 19 53 2 0 1 5.3e-06 4e-11

13 7.5169e-06 1.2795e-06 55 20 55 2 0 1 1.7e-07 2.4e-11

14 8.7964e-06 1.2795e-06 57 21 57 2 0 1 6.3e-06 2.9e-11

15 1.1355e-05 2.559e-06 59 22 59 2 0 1 4.4e-06 8.2e-10

16 1.3914e-05 2.559e-06 61 23 61 2 0 1 1.6e-06 4.6e-10

17 1.6473e-05 2.559e-06 63 24 63 2 0 1 1.5e-07 6.9e-11

18 1.9032e-05 2.559e-06 65 25 65 2 0 1 7.9e-07 9.2e-11

19 2.1591e-05 2.559e-06 67 26 67 2 0 1 2.4e-06 2.3e-10

20 2.415e-05 2.559e-06 69 27 69 2 0 1 2.5e-06 1.4e-11

2.5e-05 - out

21 2.9268e-05 5.1179e-06 71 28 71 2 0 1 2.6e-07 1.9e-11

22 3.4386e-05 5.1179e-06 73 29 73 2 0 1 8.7e-07 5.6e-12

23 3.9504e-05 5.1179e-06 75 30 75 2 0 1 3.4e-07 1.6e-12

24 4.4622e-05 5.1179e-06 77 31 77 2 0 1 2.6e-07 3.1e-12

25 4.974e-05 5.1179e-06 79 32 79 2 0 1 2.4e-07 4.8e-12

5e-05 - out

26 5.9975e-05 1.0236e-05 81 33 81 2 0 1 5e-08 3.4e-12

27 7.0211e-05 1.0236e-05 83 34 83 2 0 1 1.4e-06 8.8e-12

7.5e-05 - out

28 8.0447e-05 1.0236e-05 85 35 85 2 0 1 2.4e-07 6e-11

29 9.0683e-05 1.0236e-05 87 36 87 2 0 1 1.6e-06 6.6e-11

0.0001 - out

30 0.00011115 2.0472e-05 89 37 89 2 0 1 5.8e-08 1.2e-10

0.000125 - out

31 0.00013163 2.0472e-05 91 38 91 2 0 1 3e-07 3.4e-11

0.00015 - out

32 0.0001521 2.0472e-05 93 39 93 2 0 1 2.9e-06 8.6e-11

33 0.00017257 2.0472e-05 95 40 95 2 0 1 2.5e-06 6.8e-12

0.000175 - out

34 0.00019304 2.0472e-05 97 41 97 2 0 1 3e-06 1.3e-11

0.0002 - out

0.000225 - out

35 0.00023398 4.0943e-05 99 42 99 2 0 1 2.2e-06 1.9e-10

0.00025 - out

36 0.00027493 4.0943e-05 101 43 101 2 0 1 1e-06 1.6e-11

0.000275 - out

0.0003 - out

37 0.00031587 4.0943e-05 103 44 103 2 0 1 2.8e-06 4.6e-10

0.000325 - out

0.00035 - out

38 0.00035681 4.0943e-05 105 45 105 2 0 1 4.2e-06 7.2e-11

0.000375 - out

0.0004 - out

0.000425 - out

39 0.0004387 8.1886e-05 107 46 107 2 0 1 3.3e-06 6.5e-10

0.00045 - out

0.000475 - out

0.0005 - out

40 0.00052059 8.1886e-05 109 47 109 2 0 1 1.1e-06 4.2e-10

0.000525 - out

41 0.00054106 2.0472e-05 117 49 117 2 0 2 2.2e-06 3.9e-11

0.00055 - out

0.000575 - out

42 0.000582 4.0943e-05 119 50 119 2 0 2 7.2e-06 3.3e-10

0.0006 - out

43 0.00062295 4.0943e-05 121 51 121 2 0 2 2.2e-06 1.1e-10

0.000625 - out

0.00065 - out

44 0.00066389 4.0943e-05 123 52 123 2 0 2 8.2e-06 5.4e-11

0.000675 - out

45 0.00068436 2.0472e-05 131 54 131 2 0 3 1.5e-06 9.2e-12

46 0.0006946 1.0236e-05 139 56 139 2 0 4 7.7e-06 3.1e-11

47 0.00069971 5.1179e-06 147 58 147 2 0 5 2.7e-05 6.7e-11

0.0007 - out

48 0.00070995 1.0236e-05 149 59 149 2 0 5 5.2e-06 1.3e-11

0.000725 - out

49 0.00073042 2.0472e-05 151 60 151 2 0 5 1.1e-06 1.5e-11

50 0.00074066 1.0236e-05 159 62 159 1 0 6 4.3e-06 5.1e-11

51 0.00074577 5.1179e-06 167 64 166 1 0 7 1e-06 3.3e-11

0.00075 - out

52 0.00075601 1.0236e-05 169 65 168 1 0 7 4.3e-07 6e-12

53 0.00076113 5.1179e-06 177 67 176 1 0 8 2.1e-06 1e-11

54 0.00077136 1.0236e-05 179 68 178 1 0 8 4e-06 6.5e-11

0.000775 - out

55 0.00077648 5.1179e-06 187 70 186 1 0 9 3.2e-06 5.8e-12

56 0.00078672 1.0236e-05 189 71 188 1 0 9 9.6e-06 1.1e-10

0.0008 - out

57 0.00080719 2.0472e-05 191 72 190 1 0 9 1.7e-06 3.8e-11

58 0.00081743 1.0236e-05 199 74 198 1 0 10 5.4e-06 1.9e-11

59 0.00082254 5.1179e-06 207 76 206 1 0 11 3.9e-07 6e-12

0.000825 - out

60 0.00083278 1.0236e-05 209 77 208 1 0 11 1.1e-06 1.4e-11

61 0.0008379 5.1179e-06 217 79 216 1 0 12 2.5e-06 1.1e-11

62 0.00084813 1.0236e-05 219 80 218 1 0 12 1.9e-06 6e-11

0.00085 - out

63 0.00085325 5.1179e-06 227 82 226 1 0 13 1.2e-05 1e-11

64 0.00086349 1.0236e-05 229 83 228 1 0 13 4.9e-06 8.2e-11

65 0.0008686 5.1179e-06 237 85 236 1 0 14 4.8e-06 1.8e-11

0.000875 - out

66 0.00087884 1.0236e-05 239 86 238 1 0 14 9.2e-06 7.3e-11

67 0.00088396 5.1179e-06 247 88 246 1 0 15 5.6e-06 1.1e-11

68 0.00089419 1.0236e-05 249 89 248 1 0 15 4.6e-06 5.5e-11

69 0.00089931 5.1179e-06 257 91 256 1 0 16 3.8e-06 3.1e-11

0.0009 - out

70 0.00090955 1.0236e-05 259 92 258 1 0 16 1.4e-06 2.3e-11

71 0.00091467 5.1179e-06 267 94 266 1 0 17 1.4e-06 1.6e-11

72 0.0009249 1.0236e-05 269 95 268 1 0 17 4.3e-07 7.4e-11

0.000925 - out

73 0.00093002 5.1179e-06 277 97 276 1 0 18 1.2e-06 4.8e-12

74 0.00094026 1.0236e-05 279 98 278 1 0 18 9.8e-07 1.3e-10

75 0.00094537 5.1179e-06 287 100 286 1 0 19 7.5e-06 1.4e-11

0.00095 - out

76 0.00095561 1.0236e-05 289 101 288 1 0 19 3.7e-06 4.7e-12

77 0.00095817 2.559e-06 297 103 296 1 0 20 3e-06 7.7e-11

78 0.00096329 5.1179e-06 299 104 298 1 0 20 3.8e-06 3.4e-11

79 0.00097352 1.0236e-05 301 105 300 1 0 20 9.2e-07 5.8e-11

0.000975 - out

80 0.00097864 5.1179e-06 309 107 308 1 0 21 6.7e-06 2.1e-11

81 0.00098888 1.0236e-05 311 108 310 1 0 21 1.7e-06 2.8e-11

82 0.00099911 1.0236e-05 313 109 312 1 0 21 6.2e-06 5.3e-12

0.001 - out

83 0.0010004 1.2795e-06 327 112 326 1 0 23 5e-06 1.5e-11

84 0.0010029 2.559e-06 329 113 328 1 0 23 5.2e-06 2.8e-11

85 0.0010081 5.1179e-06 331 114 330 1 0 23 8.6e-07 2.6e-11

86 0.0010106 2.559e-06 339 116 338 1 0 24 4.7e-06 3.5e-11

87 0.0010157 5.1179e-06 341 117 340 1 0 24 4.6e-07 5.4e-12

88 0.0010183 2.559e-06 349 119 348 1 0 25 1.3e-06 5.6e-11

89 0.0010234 5.1179e-06 351 120 350 1 0 25 3.7e-06 6.2e-12

0.001025 - out

90 0.001026 2.559e-06 359 122 358 1 0 26 2e-05 4.4e-11

91 0.0010311 5.1179e-06 361 123 360 1 0 26 7.2e-06 5.6e-11

92 0.0010413 1.0236e-05 363 124 362 1 0 26 1.1e-06 2.5e-12

93 0.0010439 2.559e-06 371 126 370 1 0 27 2.2e-06 2e-11

94 0.001049 5.1179e-06 373 127 372 1 0 27 4.2e-06 5.3e-12

0.00105 - out

95 0.0010592 1.0236e-05 375 128 374 1 0 27 2.7e-06 5.5e-12

96 0.0010618 2.559e-06 383 130 382 1 0 28 2.3e-06 1.4e-12

97 0.0010669 5.1179e-06 385 131 384 1 0 28 6.3e-06 6.1e-11

0.001075 - out

98 0.0010772 1.0236e-05 387 132 386 1 0 28 2.6e-06 1.3e-11

99 0.0010874 1.0236e-05 389 133 388 1 0 28 2.4e-06 7.9e-12

100 0.0010925 5.1179e-06 397 135 396 1 0 29 1.3e-06 3.1e-11

0.0011 - out

101 0.0011027 1.0236e-05 399 136 398 1 0 29 3.9e-06 2.9e-11

102 0.0011053 2.559e-06 407 138 406 1 0 30 3.4e-06 1.7e-11

103 0.0011104 5.1179e-06 409 139 408 1 0 30 6.1e-06 2.2e-11

104 0.0011155 5.1179e-06 411 140 410 1 0 30 2.8e-06 2.8e-11

105 0.0011181 2.559e-06 419 142 418 1 0 31 4.8e-06 4.8e-11

106 0.0011232 5.1179e-06 421 143 420 1 0 31 5.4e-06 1.8e-11

0.001125 - out

107 0.0011283 5.1179e-06 423 144 422 1 0 31 3.3e-07 4.5e-11

108 0.0011386 1.0236e-05 425 145 424 1 0 31 1.8e-06 1.5e-11

109 0.0011488 1.0236e-05 427 146 426 1 0 31 4.9e-06 9.3e-11

0.00115 - out

110 0.0011514 2.559e-06 435 148 434 1 0 32 3.1e-06 2.5e-11

111 0.0011565 5.1179e-06 437 149 436 1 0 32 9e-07 2.2e-11

112 0.0011616 5.1179e-06 439 150 438 1 0 32 6.9e-06 3.3e-11

113 0.0011718 1.0236e-05 441 151 440 1 0 32 9.9e-06 5.9e-11

0.001175 - out

114 0.0011821 1.0236e-05 443 152 442 1 0 32 1e-06 2.8e-11

115 0.0011846 2.559e-06 451 154 450 1 0 33 3.6e-06 7.3e-11

116 0.0011898 5.1179e-06 453 155 452 1 0 33 1.5e-06 1.5e-11

117 0.0011949 5.1179e-06 455 156 454 1 0 33 2.5e-06 1.2e-10

0.0012 - out

118 0.0012051 1.0236e-05 457 157 456 1 0 33 2e-06 3.1e-11

119 0.0012153 1.0236e-05 459 158 458 1 0 33 9.7e-06 2.7e-10

120 0.0012179 2.559e-06 467 160 466 1 0 34 1.2e-06 3.3e-12

121 0.001223 5.1179e-06 469 161 468 1 0 34 8.4e-06 3.9e-11

0.001225 - out

122 0.0012281 5.1179e-06 471 162 470 1 0 34 2.1e-07 4e-11

123 0.0012384 1.0236e-05 473 163 472 1 0 34 3e-07 1.4e-11

124 0.0012476 9.2122e-06 475 164 474 1 0 34 3.8e-06 1.4e-11

0.00125 - out

125 0.0012568 9.2122e-06 477 165 476 1 0 34 1.9e-07 1.6e-10

126 0.0012614 4.6061e-06 485 167 484 1 0 35 8.5e-07 3.7e-11

127 0.0012706 9.2122e-06 487 168 486 1 0 35 6e-06 1e-10

128 0.0012729 2.3031e-06 495 170 494 1 0 36 1.4e-06 1.9e-11

0.001275 - out

129 0.0012775 4.6061e-06 497 171 496 1 0 36 4.1e-06 1e-10

130 0.0012821 4.6061e-06 499 172 498 1 0 36 3.8e-06 3.1e-11

131 0.0012844 2.3031e-06 507 174 506 1 0 37 8.1e-06 5e-11

132 0.001289 4.6061e-06 509 175 508 1 0 37 2.2e-06 1.2e-10

133 0.0012936 4.6061e-06 511 176 510 1 0 37 3.3e-07 1.6e-10

0.0013 - out

134 0.0013029 9.2122e-06 513 177 512 1 0 37 1.4e-06 7.5e-11

135 0.0013111 8.291e-06 515 178 514 1 0 37 4.6e-06 1.3e-10

136 0.0013194 8.291e-06 517 179 516 1 0 37 2e-06 7.1e-11

137 0.0013215 2.0728e-06 525 181 524 1 0 38 6.5e-06 2.8e-11

0.001325 - out

138 0.0013257 4.1455e-06 527 182 526 1 0 38 3.4e-06 1.8e-11

139 0.0013298 4.1455e-06 529 183 528 1 0 38 5e-07 9.3e-12

140 0.0013381 8.291e-06 531 184 530 1 0 38 4.5e-07 2.3e-10

141 0.0013456 7.4619e-06 534 185 533 1 0 38 8.2e-06 7.5e-11

0.00135 - out

142 0.001353 7.4619e-06 536 186 535 1 0 38 8.8e-06 9.9e-11

143 0.0013568 3.731e-06 544 188 543 1 0 39 1.5e-06 5e-11

144 0.0013642 7.4619e-06 546 189 545 1 0 39 4.1e-06 3.6e-11

145 0.0013717 7.4619e-06 548 190 547 1 0 39 6e-06 8.9e-11

0.001375 - out

146 0.0013754 3.731e-06 556 192 555 1 0 40 1.3e-05 3.1e-10

147 0.0013829 7.4619e-06 558 193 557 1 0 40 6e-06 1.5e-11

148 0.0013896 6.7157e-06 560 194 559 1 0 40 1.6e-06 4e-10

149 0.0013963 6.7157e-06 562 195 561 1 0 40 5.1e-06 8.3e-11

150 0.0013997 3.3579e-06 571 197 570 1 0 41 7.3e-08 1e-10

0.0014 - out

151 0.0014013 1.6789e-06 580 199 579 1 0 42 2.2e-06 9.6e-11

152 0.0014047 3.3579e-06 582 200 581 1 0 42 5e-06 5e-11

153 0.0014081 3.3579e-06 584 201 583 1 0 42 1.4e-07 5.1e-11

154 0.0014097 1.6789e-06 592 203 591 1 0 43 1.8e-06 5.5e-11

155 0.0014131 3.3579e-06 594 204 593 1 0 43 2.7e-06 1.4e-11

156 0.0014164 3.3579e-06 597 205 596 1 0 43 3.7e-06 4.1e-10

157 0.0014198 3.3579e-06 600 206 599 1 0 43 6.3e-07 3.2e-10

158 0.0014206 8.3946e-07 608 208 607 1 0 44 1.7e-06 1.5e-10

159 0.0014223 1.6789e-06 610 209 609 1 0 44 6.8e-07 5.6e-12

160 0.001424 1.6789e-06 612 210 611 1 0 44 7.7e-06 5.1e-11

161 0.0014248 8.3946e-07 620 212 619 1 0 45 5.5e-07 1.9e-10

0.001425 - out

162 0.0014265 1.6789e-06 622 213 621 1 0 45 3e-06 4.5e-11

163 0.0014282 1.6789e-06 627 214 626 1 0 45 5.5e-06 1.2e-10

164 0.0014299 1.6789e-06 629 215 628 1 0 45 3.4e-07 5.5e-11

165 0.0014316 1.6789e-06 631 216 630 1 0 45 2.6e-06 3.2e-10

166 0.0014332 1.6789e-06 633 217 632 1 0 45 3.2e-06 1.6e-10

167 0.0014349 1.6789e-06 638 218 637 1 0 45 8.4e-08 1.9e-10

168 0.0014353 4.1973e-07 646 220 645 1 0 46 1.9e-07 4.8e-11

169 0.0014362 8.3946e-07 648 221 647 1 0 46 2.4e-07 3.9e-12

170 0.001437 8.3946e-07 650 222 649 1 0 46 3.1e-06 7.7e-11

171 0.0014374 4.1973e-07 659 224 658 1 0 47 2.5e-07 1.9e-12

172 0.0014383 8.3946e-07 662 225 661 1 0 47 1.4e-06 7.2e-11

173 0.0014391 8.3946e-07 664 226 663 1 0 47 1.8e-07 6.4e-11

174 0.0014393 2.0987e-07 672 228 671 1 0 48 1e-06 3.3e-11

175 0.0014397 4.1973e-07 674 229 673 1 0 48 2.8e-06 1.7e-11

176 0.0014402 4.1973e-07 676 230 675 1 0 48 9.5e-08 6.5e-11

177 0.001441 8.3946e-07 680 231 679 1 0 48 1.2e-06 1.1e-10

178 0.0014418 8.3946e-07 684 232 683 1 0 48 1.1e-06 1.6e-10

179 0.0014427 8.3946e-07 686 233 685 1 0 48 6.2e-07 7.2e-11

180 0.0014429 2.0987e-07 694 235 693 1 0 49 4e-07 1.5e-11

181 0.0014433 4.1973e-07 696 236 695 1 0 49 3.7e-07 5.5e-11

182 0.0014437 3.7776e-07 698 237 697 1 0 49 1.6e-06 1.1e-10

183 0.0014439 1.8888e-07 706 239 705 1 0 50 4.6e-08 6.3e-11

184 0.0014443 3.7776e-07 708 240 707 1 0 50 1.5e-06 3.3e-11

185 0.0014446 3.7776e-07 711 241 710 1 0 50 1.7e-07 1.3e-11

186 0.0014448 1.8888e-07 720 243 719 1 0 51 5e-07 1.9e-11

187 0.0014452 3.7776e-07 722 244 721 1 0 51 1.2e-06 1.1e-11

188 0.0014453 9.444e-08 730 246 729 1 0 52 7.2e-07 2.4e-11

189 0.0014455 1.8888e-07 732 247 731 1 0 52 3.4e-07 2.4e-12

190 0.0014456 1.6518e-07 734 248 733 1 0 52 5.5e-07 5e-11

191 0.001446 3.3035e-07 736 249 735 1 0 52 2.9e-07 1.5e-11

192 0.0014463 3.3035e-07 742 250 741 1 0 52 1.2e-06 7.1e-12

193 0.0014466 3.3035e-07 744 251 743 1 0 52 6.5e-07 3e-11

194 0.001447 3.3035e-07 749 252 748 1 0 52 9.3e-07 2.2e-11

195 0.0014473 3.3035e-07 755 253 754 1 0 52 1e-07 7.4e-12

196 0.0014474 8.2588e-08 763 255 762 1 0 53 2.6e-08 2.3e-12

197 0.0014475 1.6518e-07 765 256 764 1 0 53 2.8e-07 1.3e-11

198 0.0014477 1.2897e-07 768 257 767 1 0 53 2.5e-07 2.1e-11

199 0.0014478 1.2897e-07 773 258 772 1 0 53 3.7e-09 4.4e-14

200 0.0014479 1.2897e-07 775 259 774 1 0 53 1.5e-07 1.1e-11

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684 0.001449 3.7144e-15 3593 948 3592 1 2 256 9.8e-10 1.6e-12

685 0.001449 7.4288e-15 3597 949 3596 1 2 256 1.8e-09 5.1e-12

686 0.001449 1.8572e-15 3607 951 3606 1 2 257 1.8e-09 4.7e-12

687 0.001449 3.7144e-15 3611 952 3610 1 2 257 5.4e-09 1.4e-11

688 0.001449 3.7144e-15 3615 953 3614 1 2 257 7e-10 7.6e-12

689 0.001449 7.4288e-15 3620 954 3619 1 2 257 1.4e-09 2e-11

690 0.001449 3.7144e-15 3632 956 3631 1 2 258 3.7e-09 8.5e-11

691 0.001449 1.8572e-15 3642 958 3641 1 2 259 7.1e-09 3.9e-12

692 0.001449 3.7144e-15 3646 959 3645 1 2 259 1.2e-09 1.9e-11

693 0.001449 3.7144e-15 3650 960 3649 1 2 259 2.6e-08 1.3e-14

694 0.001449 1.8572e-15 3660 962 3659 1 2 260 4e-09 3.8e-12

695 0.001449 3.7144e-15 3664 963 3663 1 2 260 6.9e-09 3e-12

696 0.001449 3.7144e-15 3668 964 3667 1 2 260 1.4e-09 9.1e-12

697 0.001449 1.8572e-15 3678 966 3677 1 2 261 1.5e-08 1.6e-12

698 0.001449 3.7144e-15 3683 967 3682 1 2 261 3.5e-08 4.6e-11

699 0.001449 9.286e-16 3693 969 3692 1 2 262 3.9e-09 3.1e-11

700 0.001449 1.8572e-15 3697 970 3696 1 2 262 1.9e-09 1e-11

701 0.001449 1.8572e-15 3701 971 3700 1 2 262 3.1e-09 7.1e-12

702 0.001449 9.286e-16 3711 973 3710 1 2 263 3.3e-09 4e-12

703 0.001449 1.8572e-15 3715 974 3714 1 2 263 1.4e-09 4.7e-12

704 0.001449 9.286e-16 3725 976 3724 1 2 264 1.8e-09 4.4e-15

705 0.001449 1.8572e-15 3729 977 3728 1 2 264 7.7e-10 9.4e-15

706 0.001449 9.286e-16 3739 979 3738 1 2 265 1.1e-09 5.6e-12

707 0.001449 1.8572e-15 3743 980 3742 1 2 265 5.7e-10 2.2e-12

708 0.001449 1.8572e-15 3747 981 3746 1 2 265 1.7e-10 1.5e-11

709 0.001449 2.3215e-16 3761 984 3760 1 2 267 4.2e-09 4.9e-13

710 0.001449 4.643e-16 3765 985 3764 1 2 267 1.3e-09 2.2e-11

711 0.001449 4.643e-16 3769 986 3768 1 2 267 1.9e-09 1.6e-11

712 0.001449 2.3215e-16 3779 988 3778 1 2 268 8.8e-10 6.2e-12

713 0.001449 2.9019e-17 3793 991 3792 1 2 270 1.9e-08 3.5e-14

714 0.001449 5.8038e-17 3795 992 3794 1 2 270 1.3e-09 3.2e-14

715 0.001449 1.1608e-16 3797 993 3796 1 2 270 1e-09 1.9e-12

716 0.001449 1.1608e-16 3802 994 3801 1 2 270 2.1e-09 3.6e-12

717 0.001449 1.1608e-16 3804 995 3803 1 2 270 2.2e-09 8.8e-12

718 0.001449 2.3215e-16 3808 996 3807 1 2 270 2.5e-09 8.2e-12

719 0.001449 4.643e-16 3812 997 3811 1 2 270 1.4e-09 1.4e-11

720 0.001449 9.286e-16 3817 998 3816 1 2 270 2.9e-08 1.8e-11

721 0.001449 9.286e-16 3821 999 3820 1 2 270 6.9e-10 2.1e-12

722 0.001449 4.643e-16 3831 1001 3830 1 2 271 6.8e-09 7.1e-12

723 0.001449 9.286e-16 3835 1002 3834 1 2 271 4e-09 1.4e-11

724 0.001449 4.643e-16 3845 1004 3844 1 2 272 2.3e-09 9e-12

725 0.001449 9.286e-16 3849 1005 3848 1 2 272 2.8e-08 1.4e-11

726 0.001449 4.643e-16 3859 1007 3858 1 2 273 7.5e-10 3.3e-13

727 0.001449 9.286e-16 3863 1008 3862 1 2 273 2.9e-09 1e-11

728 0.001449 4.643e-16 3873 1010 3872 1 2 274 2.9e-09 8.5e-12

729 0.001449 9.286e-16 3877 1011 3876 1 2 274 9.8e-10 5.7e-13

730 0.001449 9.286e-16 3881 1012 3880 1 2 274 3e-09 4.6e-12

731 0.001449 4.643e-16 3891 1014 3890 1 2 275 5.6e-09 4e-12

732 0.001449 9.286e-16 3895 1015 3894 1 2 275 8.5e-08 2.1e-11

733 0.001449 9.286e-16 3900 1016 3899 1 2 275 3.3e-09 4.7e-11

734 0.001449 4.643e-16 3910 1018 3909 1 2 276 3.7e-09 2.6e-11

735 0.001449 9.286e-16 3915 1019 3914 1 2 276 8.1e-10 1.5e-12

736 0.001449 2.3215e-16 3925 1021 3924 1 2 277 1.4e-09 4.6e-11

737 0.001449 4.643e-16 3929 1022 3928 1 2 277 4.3e-09 1.6e-11

738 0.001449 4.643e-16 3933 1023 3932 1 2 277 7.4e-09 1.9e-10

739 0.001449 2.3215e-16 3943 1025 3942 1 2 278 1.5e-08 1.4e-11

740 0.001449 4.643e-16 3947 1026 3946 1 2 278 9.6e-09 2.3e-11

741 0.001449 4.643e-16 3951 1027 3950 1 2 278 2e-09 4.3e-12

742 0.001449 2.3215e-16 3961 1029 3960 1 2 279 3.5e-10 1.2e-11

743 0.001449 4.643e-16 3965 1030 3964 1 2 279 1.9e-09 5.8e-14

744 0.001449 4.643e-16 3969 1031 3968 1 2 279 1.9e-09 1.1e-13

745 0.001449 2.3215e-16 3979 1033 3978 1 2 280 2.8e-08 1.9e-11

746 0.001449 4.643e-16 3983 1034 3982 1 2 280 1.5e-08 2.5e-13

747 0.001449 4.643e-16 3988 1035 3987 1 2 280 1.9e-09 4.7e-11

748 0.001449 2.3215e-16 3998 1037 3997 1 2 281 1.1e-09 2.8e-11

749 0.001449 4.643e-16 4003 1038 4002 1 2 281 2.3e-08 3.3e-11

750 0.001449 1.1608e-16 4013 1040 4012 1 2 282 5.4e-09 7.1e-11

751 0.001449 2.3215e-16 4017 1041 4016 1 2 282 1.7e-09 1.4e-11

752 0.001449 2.3215e-16 4021 1042 4020 1 2 282 4.8e-09 5.8e-12

753 0.001449 1.1608e-16 4031 1044 4030 1 2 283 1.9e-09 1.2e-10

754 0.001449 2.3215e-16 4035 1045 4034 1 2 283 4e-08 2.2e-11

755 0.001449 2.3215e-16 4039 1046 4038 1 2 283 2.2e-08 1.4e-11

756 0.001449 1.1608e-16 4049 1048 4048 1 2 284 7.7e-09 1.2e-11

757 0.001449 1.3402e-16 4057 1050 4056 1 3 284 1.3e-09 2.7e-11

758 0.001449 2.6803e-16 4062 1051 4061 1 3 284 1.4e-09 2.8e-11

759 0.001449 6.7008e-17 4072 1053 4071 1 3 285 6.2e-09 7.3e-11

760 0.001449 1.3402e-16 4076 1054 4075 1 3 285 6.1e-08 2.9e-10

761 0.001449 1.3402e-16 4080 1055 4079 1 3 285 6.3e-08 9.2e-11

762 0.001449 6.7008e-17 4090 1057 4089 1 3 286 8.8e-09 1.9e-11

763 0.001449 1.3402e-16 4094 1058 4093 1 3 286 2e-08 2e-11

764 0.001449 1.3402e-16 4098 1059 4097 1 3 286 1e-09 6.9e-15

765 0.001449 6.7008e-17 4108 1061 4107 1 3 287 4.5e-10 6.5e-15

766 0.001449 1.3402e-16 4112 1062 4111 1 3 287 2.3e-08 1.3e-14

767 0.001449 1.3402e-16 4116 1063 4115 1 3 287 1.1e-07 7.2e-11

768 0.001449 6.7008e-17 4126 1065 4125 1 3 288 1.5e-08 6.6e-12

769 0.001449 3.3504e-17 4136 1067 4135 1 3 289 6.4e-09 5.5e-11

770 0.001449 6.7008e-17 4140 1068 4139 1 3 289 2.6e-08 3.7e-11

771 0.001449 6.7008e-17 4144 1069 4143 1 3 289 2.8e-09 2.7e-11

772 0.001449 1.3402e-16 4149 1070 4148 1 3 289 1.8e-07 1.9e-11

773 0.001449 3.3504e-17 4159 1072 4158 1 3 290 2.6e-09 9.4e-11

774 0.001449 6.7008e-17 4163 1073 4162 1 3 290 6e-09 2.3e-11

775 0.001449 6.7008e-17 4167 1074 4166 1 3 290 4.4e-07 4.6e-12

776 0.001449 3.3504e-17 4177 1076 4176 1 3 291 5.3e-09 2.5e-11

777 0.001449 6.7008e-17 4181 1077 4180 1 3 291 1.1e-08 1.7e-11

778 0.001449 6.7008e-17 4185 1078 4184 1 3 291 8.6e-09 3.2e-11

779 0.001449 3.3504e-17 4195 1080 4194 1 3 292 3.5e-08 2.3e-10

780 0.001449 6.7008e-17 4199 1081 4198 1 3 292 1.2e-08 5.7e-12

781 0.001449 6.7008e-17 4203 1082 4202 1 3 292 4.7e-09 9.6e-13

782 0.001449 3.3504e-17 4213 1084 4212 1 3 293 1.3e-07 1.1e-11

783 0.001449 6.7008e-17 4217 1085 4216 1 3 293 6.8e-09 3e-13

784 0.001449 6.7008e-17 4222 1086 4221 1 3 293 2.8e-09 6.7e-14

785 0.001449 1.3402e-16 4228 1087 4227 1 3 293 2.4e-08 5e-15

786 0.001449 6.7292e-18 4243 1090 4242 1 3 295 1.8e-08 2.6e-10

787 0.001449 1.3458e-17 4247 1091 4246 1 3 295 7.6e-09 7.1e-11

788 0.001449 9.9699e-18 4251 1092 4250 1 3 295 4.1e-09 5e-11

789 0.001449 1.994e-17 4256 1093 4255 1 3 295 6e-08 5.8e-14

790 0.001449 9.9699e-18 4266 1095 4265 1 3 296 2.5e-09 2.2e-11

791 0.001449 1.994e-17 4271 1096 4270 1 3 296 1.6e-08 3.9e-11

792 0.001449 1.994e-17 4275 1097 4274 1 3 296 4.1e-08 1.4e-10

793 0.001449 9.9699e-18 4285 1099 4284 1 3 297 2.3e-09 3.4e-11

794 0.001449 1.994e-17 4289 1100 4288 1 3 297 3.6e-07 4.4e-10

795 0.001449 1.994e-17 4293 1101 4292 1 3 297 6.1e-09 5.9e-12

796 0.001449 9.9699e-18 4303 1103 4302 1 3 298 4.2e-08 2.3e-10

797 0.001449 1.994e-17 4308 1104 4307 1 3 298 9.7e-09 1.7e-12

798 0.001449 4.985e-18 4317 1106 4316 1 3 299 4.1e-09 9.6e-11

799 0.001449 9.9699e-18 4321 1107 4320 1 3 299 3.7e-09 4.3e-11

800 0.001449 9.9699e-18 4325 1108 4324 1 3 299 1.7e-09 4.8e-11

801 0.001449 1.994e-17 4330 1109 4329 1 3 299 1.8e-08 7.7e-11

802 0.001449 9.9699e-18 4340 1111 4339 1 3 300 7.2e-08 2.2e-10

803 0.001449 4.985e-18 4350 1113 4349 1 3 301 2.4e-08 5.5e-11

804 0.001449 9.9699e-18 4353 1114 4352 1 3 301 6.6e-10 6.3e-12

805 0.001449 9.9699e-18 4357 1115 4356 1 3 301 1.2e-08 1.4e-10

806 0.001449 4.985e-18 4367 1117 4366 1 3 302 5e-09 6.4e-11

807 0.001449 9.9699e-18 4372 1118 4371 1 3 302 2.8e-09 1.5e-11

808 0.001449 9.9699e-18 4375 1119 4374 1 3 302 4.3e-09 3.8e-11

809 0.001449 4.985e-18 4385 1121 4384 1 3 303 4e-08 2.5e-10

810 0.001449 9.9699e-18 4390 1122 4389 1 3 303 2.2e-07 6.7e-11

811 0.001449 9.9699e-18 4395 1123 4394 1 3 303 1.1e-08 1.4e-10

812 0.001449 4.985e-18 4405 1125 4404 1 3 304 1.1e-07 1.4e-10

813 0.001449 6.0687e-18 4414 1127 4413 1 4 304 9.3e-10 1.7e-10

814 0.001449 1.2137e-17 4419 1128 4418 1 4 304 4e-09 2.1e-10

815 0.001449 3.0344e-18 4429 1130 4428 1 4 305 1e-08 2e-09

816 0.001449 6.0687e-18 4432 1131 4431 1 4 305 1.1e-07 3.1e-12

817 0.001449 6.0687e-18 4436 1132 4435 1 4 305 7.4e-08 1.5e-12

818 0.001449 3.0344e-18 4446 1134 4445 1 4 306 3.9e-10 3.1e-11

819 0.001449 6.0687e-18 4451 1135 4450 1 4 306 6.2e-10 6.8e-11

820 0.001449 6.0687e-18 4454 1136 4453 1 4 306 8e-10 1.3e-11

821 0.001449 3.0344e-18 4464 1138 4463 1 4 307 1.4e-08 2e-10

822 0.001449 6.0687e-18 4469 1139 4468 1 4 307 2.1e-08 3.5e-10

823 0.001449 6.0687e-18 4473 1140 4472 1 4 307 2e-09 2.7e-14

824 0.001449 3.0344e-18 4483 1142 4482 1 4 308 8.3e-09 1.7e-11

825 0.001449 1.5172e-18 4495 1144 4494 1 4 309 4.2e-09 1.6e-10

826 0.001449 3.0344e-18 4499 1145 4498 1 4 309 4e-07 5.7e-10

827 0.001449 6.0687e-18 4504 1146 4503 1 4 309 6e-09 1.6e-14

828 0.001449 1.5172e-18 4513 1148 4512 1 4 310 9e-10 1.2e-14

829 0.001449 3.0344e-18 4517 1149 4516 1 4 310 3.8e-07 1.8e-13

830 0.001449 3.0344e-18 4522 1150 4521 1 4 310 1.9e-09 1.5e-11

831 0.001449 1.5172e-18 4532 1152 4531 1 4 311 2e-09 4.1e-11

832 0.001449 3.0344e-18 4537 1153 4536 1 4 311 2.9e-08 4.9e-10

833 0.001449 3.0344e-18 4541 1154 4540 1 4 311 5.5e-09 1.8e-14

834 0.001449 1.5172e-18 4551 1156 4550 1 4 312 5.4e-08 1.6e-10

835 0.001449 3.0344e-18 4556 1157 4555 1 4 312 6.8e-09 4.8e-11

836 0.001449 3.0344e-18 4559 1158 4558 1 4 312 1.7e-07 2e-10

837 0.001449 1.5172e-18 4569 1160 4568 1 4 313 1.5e-07 1.3e-10

838 0.001449 3.0344e-18 4574 1161 4573 1 4 313 1.1e-07 2.8e-10

839 0.001449 3.0344e-18 4579 1162 4578 1 4 313 1.2e-08 1.1e-10

840 0.001449 1.5172e-18 4589 1164 4588 1 4 314 3.4e-09 1.2e-09

841 0.001449 3.0344e-18 4594 1165 4593 1 4 314 8.2e-09 1.5e-10

841 0.001449 3.0344e-18 out 4600 1166 4599 1 4 315 5.8e-10 5e-10

---------- Current Progress: 100 %

Memory: 1289/4288 5030/8016

Time-Dependent Solver 1 in Solver 1: Solution time: 32082 s (8 hours, 54 minutes, 42 seconds)

Physical memory: 4.29 GB

Virtual memory: 8.02 GB

Exception:

com.comsol.util.exceptions.FlException: Repeated error test failures. May have reached a singularity

(rethrown as com.comsol.util.exceptions.FlException)

Messages:

The following feature has encountered a problem

Repeated error test failures. May have reached a singularity

Time X#0.001449026073010017

Last time step is not converged

- Feature: Time-Dependent Solver 1 (sol1/t1)

Stack trace:

at com.comsol.solver.SolverOperation.addError(Unknown Source)

at com.comsol.solver.SolverOperation.execute(Unknown Source)

at com.comsol.model.internal.impl.SolverSequenceImpl.a(Unknown Source)

at com.comsol.model.internal.impl.SolverSequenceImpl.i(Unknown Source)

at com.comsol.model.internal.impl.SolverSequenceImpl.runAll(Unknown Source)

at com.comsol.model.internal.impl.StudyImpl.d(Unknown Source)

at com.comsol.model.internal.impl.StudyImpl.c(Unknown Source)

at com.comsol.model.internal.impl.StudyImpl.a(Unknown Source)

at com.comsol.model.internal.impl.StudyImpl$1.a(Unknown Source)

at com.comsol.model.internal.impl.StudyImpl$1.execute(Unknown Source)

at com.comsol.model.clientserver.ClientManager$1.call(Unknown Source)

at java.util.concurrent.FutureTask$Sync.innerRun(Unknown Source)

at java.util.concurrent.FutureTask.run(Unknown Source)

at java.util.concurrent.ThreadPoolExecutor$Worker.runTask(Unknown Source)

at java.util.concurrent.ThreadPoolExecutor$Worker.run(Unknown Source)

at java.lang.Thread.run(Unknown Source)

Caused by: Exception:

com.comsol.util.exceptions.FlException: Repeated error test failures. May have reached a singularity

Messages:

Repeated error test failures. May have reached a singularity

Time X#0.001449026073010017

Last time step is not converged

... 15 more

Saving model: /home/men-comp1/mn12a2a/hpc/parametric\_sweep\_1.mph

Save time: 59 s.

Total time: 32204 s.