

Autodesk Algor Steady Fluid Flow
 Version 2011.00.00.0111-W64/X64 12-MAR-2010
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Date & Time           : 03-28-2011 10:44:09
Input File            : ...nts\test\Part2_3.ds_data\7\ds
Command Line Options : -silent-x657666
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PROGRAM                VERSION: 201100000111
Alg-win-x64.DLL        VERSION: 201100000111
AlgConfig-win-x64.DLL VERSION: 201100000111
Agsdb_ar-win-x64.DLL  VERSION: 201100000111
AlgSolve.exe          VERSION: 201100000111
```

**** Model Unit System Settings:

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-----
Unit System           : Custom
Force                 : N
Length               : mm
Time                 : s
Temperature (Absolute) : deg C (K)
Thermal Energy       : J
Voltage              : V
Current              : A
Electrical Resistance : ohm
Mass                 : N*s^2/mm
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```

**** Nodal boundary condition codes printing suppressed.

```
Load function number = 2
Number of time points = 2
```

Time	Magnitude
0.00000E+00	0.0000000E+00
2.00000E+00	1.0000000E+00

```
Load function number = 2
Time zone ending point number = 2
```

Time	Magnitude
0.00000E+00	0.0000000E+00
1.00000E+00	5.0000000E-01

**** Read input data from AGSDB

**** Control information

```
Number of nodal points . . . . . (NUMNP) = 53692
Interpolation order for vel/pressure. . (INPOR) = 1
Number of elements . . . . . (NUMEL) = 211510
Number of space dimensions . . . . . (NSD ) = 3
Number of degrees of freedom per node . (NDOF ) = 4
Max number of element neighbours. . . . (MAXN ) = 64
Max number of pressure node neighbours . (MAXNO) = 64
Gauss quadrature points in each direction(IGAUS) = 2
Number of passes for pressure smoothing.(NSPASS) = 1
Number of pass for vorticity smoothing.(NSPASSV) = 2
Number of steps between reformation. . . (NSBR ) = 1
Number of iterations between reformation.(NIBR ) = 1
Number of multi time intervals. . . . .(NSTP ) = 1
Automatic convergence control option. . .(IAUTO) = 1
No. of elements with pressure loads . . .(MXELD) = 0
Max. No. of load faces in each element. (MEFACE) = 6
0 =< MEFACE =< 6
```

**** Mass proportional load cases

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Number of Gravity and/or mass loads with
  constant accelerations          (MASCON) =      0
Option for applying gravity force  (INCGRAV) =
**** Parameters for Advanced Control
Option for updating GLS constants  (GLSupdt) =      0
Option for updating Turbulent DIFT (TurbUpdt) =    100
Relaxation parameter for N-L iteration (URELX) =  2.000E-01

Option for using Picard pre-iteration (iPicard) = *****
Option for using Picard method ONLY  (PcOnly) = *****
Maximum number of Picard iterations (IPlimit) =      1
Relaxation parameter for Picard iter. (URELXP) =  7.006E-45
Tolerance for absolute norm (Picard) (PcANORM) =

Solution mode . . . . . (MODE ) =      1
  EQ.0 Data check
  EQ.1 Execute
Solution Formulation. . . . . (ISMIXED) =      1
  EQ.0 PENALTY
  EQ.1 MIXED GLS
TIME INTEGRATION SCHEME . . . . . (ISIMP) =      1
  EQ.0 SEMI-IMPLICIT (SYM)
  EQ.1 1ST ORDER IMPLICIT
  EQ.2 2ND ORDER IMPLICIT
RESTART OPTION . . . . . (IRESTA) =      0
  EQ.0 FRESH
  EQ.1 RESTART FROM CURRENT ANALYSIS
  EQ.2 RESTART FROM ANOTHER ANALYSIS

**** Parameters for Automatic Time Step Control
Option for Automatic time step update (IDOAUTO) =      0
Characteristic velocity scale along X (UMax) =  0.000E+00
Characteristic velocity scale along Y (VMax) =  0.000E+00
Characteristic velocity scale along Z (WMax) =  0.000E+00
Lower threshold for timestep fraction (DTWMIN) =  0.000E+00
Upper threshold for timestep fraction (DTWMAX) =  0.000E+00

Density. . . . . (RHO ) =  1.208E-12
Viscosity. . . . . (DIF ) =  1.800E-11

*** Mass/body Load Control Data

*** Time Step Interval Control Data

*** Time Step Interval Control Data

FOR MULTI TIME STEP INTERVAL #      1

NUMBER OF STEPS BETWEEN DSK OUTPUT . . . (NSBDSK) =      1
NUMBER OF STEPS BETWEEN PRINT OUTPUT . . (NSB ) =      3
NUMBER OF TIME STEPS . . . . . (NTS ) =      2
TIME STEP. . . . . (DT ) =  5.000E-01
STARTING LOAD FRACTION (Load curve 1). . (STLF ) =  0.000E+00
ENDING LOAD FRACTION (Load curve 1). . (ENLF ) =  1.000E+00
MAXIMUM NUMBER OF ITERATIONS . . . . . (NITER) =
Turbulent model type. . . . . (TURBTYP) =      1
  EQ.1 mesh adaptive subgrid scaled turbulent model
  EQ.2 k-e two equation turbulent model (N/A)
NORM FOR RESIDUAL . . . . . (IRELR) =      1
  EQ.0 ABSOLUTE EUCLIDEAN
  EQ.1 RATIO OF CURRENT AND INTIAL
NORM FOR INCREMENT. . . . . (IRELD) =      1
  EQ.0 ABSOLUTE EUCLIDEAN

```

EQ.1 RELATIVE EUCLIDEAN
 CONVERGENCE PARAMETER (RESIDUAL). . . . (EPSLNR)= 1.000E-04
 CONVERGENCE PARAMETER (INCREMENT) (EPSLND)= 1.000E-04
 STREAM LINE UPWIND PARAMETER. (SLUP)= 1.000E+00

*** Load Curve Control Data

For Load Curve Number 2
 Time Interval No. Starting Load Factor Ending Load Factor

2 0.0000000 0.5000000

**** Nodal coordinate data printing suppressed

**** Element node number and body force data printing suppressed

** Element load data

Element Number	Load Face Number	Load Dir. index	X Component	Y Component	Z Component
12	4	0	-0.19360E-16	0.78706E-16	1.0000
361	4	0	0.38102E-16	0.13724E-16	1.0000
381	1	0	-0.11266E-16	0.47759E-16	1.0000
684	1	0	-0.56407E-18	0.51710E-16	1.0000
734	4	0	0.83399E-16	0.10860E-16	1.0000
1100	3	0	0.15564E-17	0.38188E-16	1.0000
1148	1	0	0.27319E-17	-0.10011E-17	1.0000
1150	1	0	-0.48283E-17	0.99344E-17	1.0000
1173	1	0	-0.42184E-16	-0.34732E-17	1.0000
1211	4	0	-0.62739E-16	-0.63447E-17	1.0000
1361	4	0	-0.12362E-16	-0.12255E-17	1.0000
1383	4	0	0.22989E-17	0.13350E-16	1.0000
1385	1	0	-0.12904E-16	-0.19970E-16	1.0000
1424	4	0	0.82316E-17	0.74925E-17	1.0000
2853	1	0	-0.31542E-16	-0.19732E-16	1.0000
2903	4	0	0.17691E-16	-0.36283E-16	1.0000
2923	4	0	-0.94678E-16	0.36173E-16	1.0000
2928	4	0	-0.19081E-16	0.85134E-17	1.0000
2940	1	0	-0.31422E-16	0.34551E-16	1.0000
2956	1	0	-0.13236E-16	-0.58488E-16	1.0000
2973	1	0	-0.18970E-16	-0.19047E-16	1.0000
2982	4	0	0.82039E-17	0.70269E-17	1.0000
2986	4	0	0.12994E-16	-0.17830E-16	1.0000
2991	1	0	0.86752E-18	-0.52956E-16	1.0000
3007	4	0	0.35266E-17	0.50398E-17	1.0000
3008	3	0	-0.78000E-17	0.12825E-16	1.0000
3024	4	0	0.11898E-16	0.21239E-16	1.0000
3037	4	0	-0.72119E-16	0.49626E-16	1.0000
3046	4	0	0.70882E-17	0.84507E-17	1.0000
3059	4	0	-0.15319E-17	-0.20297E-17	1.0000
3060	4	0	0.52076E-16	-0.58521E-16	1.0000
3066	4	0	-0.70342E-17	0.76049E-17	1.0000
3584	1	0	-0.12465E-16	0.82813E-17	1.0000
3625	4	0	0.99360E-18	0.26493E-17	1.0000
3677	4	0	0.23112E-16	-0.95341E-16	1.0000
3678	1	0	-0.26800E-16	0.18864E-16	1.0000
3689	4	0	-0.19111E-16	-0.45661E-17	1.0000
3690	4	0	0.49058E-16	0.18866E-16	1.0000
3727	4	0	0.47220E-18	0.62524E-16	1.0000
3758	1	0	-0.22696E-16	-0.51793E-17	1.0000
3762	4	0	0.11282E-16	0.46003E-16	1.0000
3785	4	0	-0.99353E-17	0.36335E-16	1.0000
3788	4	0	0.72402E-16	0.26882E-16	1.0000
3789	1	0	-0.33316E-16	-0.14404E-16	1.0000
3798	4	0	0.50517E-16	0.71093E-17	1.0000

3800	1	0	-0.78800E-17	-0.57079E-17	1.0000
3801	1	0	0.47884E-16	-0.19843E-16	1.0000
3821	4	0	0.47030E-16	-0.88949E-16	1.0000
3822	4	0	0.30561E-16	0.58157E-16	1.0000
3832	4	0	0.52330E-16	0.37211E-16	1.0000
3992	4	0	-0.35577E-17	0.15750E-17	1.0000
3993	3	0	0.17330E-17	0.29400E-17	1.0000
4006	4	0	-0.19278E-16	0.78726E-16	1.0000
4355	4	0	0.38637E-16	0.12312E-16	1.0000
4375	1	0	-0.10205E-16	0.48022E-16	1.0000
4678	1	0	-0.18184E-17	0.51711E-16	1.0000
4728	4	0	0.83200E-16	0.12466E-16	1.0000
5094	3	0	0.50174E-17	0.38188E-16	1.0000
5142	1	0	0.65788E-17	0.10178E-17	1.0000
5144	1	0	-0.98169E-17	0.87049E-17	1.0000
5167	1	0	-0.42623E-16	0.13992E-18	1.0000
5205	4	0	-0.63078E-16	-0.35547E-17	1.0000
5355	4	0	-0.13088E-16	-0.72005E-17	1.0000
5377	4	0	0.22024E-18	0.13862E-16	1.0000
5379	1	0	-0.17127E-16	-0.17754E-16	1.0000
5418	4	0	0.63492E-17	0.10219E-16	1.0000
6847	1	0	-0.33663E-16	-0.16659E-16	1.0000
6897	4	0	0.15334E-16	-0.37520E-16	1.0000
6917	4	0	-0.94480E-16	0.36692E-16	1.0000
6922	4	0	-0.18139E-16	0.10995E-16	1.0000
6934	1	0	-0.32435E-16	0.33654E-16	1.0000
6950	1	0	-0.10761E-16	-0.59099E-16	1.0000
6967	1	0	-0.21582E-16	-0.16734E-16	1.0000
6976	4	0	0.10669E-16	0.48432E-17	1.0000
6980	4	0	0.95022E-17	-0.20923E-16	1.0000
6985	1	0	0.27966E-17	-0.52957E-16	1.0000
7001	4	0	0.23575E-17	0.60754E-17	1.0000
7002	3	0	-0.96637E-17	0.11846E-16	1.0000
7018	4	0	0.13207E-16	0.20552E-16	1.0000
7031	4	0	-0.72279E-16	0.49395E-16	1.0000
7040	4	0	0.65917E-17	0.88904E-17	1.0000
7053	4	0	-0.60601E-17	-0.44060E-17	1.0000
7054	4	0	0.52363E-16	-0.58266E-16	1.0000
7060	4	0	-0.41755E-17	0.11746E-16	1.0000
7578	1	0	-0.12800E-16	0.77956E-17	1.0000
7619	4	0	0.51559E-17	0.63364E-17	1.0000
7671	4	0	0.22302E-16	-0.95541E-16	1.0000
7672	1	0	-0.26420E-16	0.19414E-16	1.0000
7683	4	0	-0.18513E-16	-0.94870E-17	1.0000
7684	4	0	0.48865E-16	0.19374E-16	1.0000
7721	4	0	0.15222E-17	0.62525E-16	1.0000
7752	1	0	-0.22049E-16	-0.10490E-16	1.0000
7756	4	0	0.11164E-16	0.46033E-16	1.0000
7779	4	0	-0.11989E-16	0.35830E-16	1.0000
7782	4	0	0.72826E-16	0.25762E-16	1.0000
7783	1	0	-0.32011E-16	-0.17843E-16	1.0000
7792	4	0	0.50255E-16	0.92467E-17	1.0000
7794	1	0	-0.58740E-17	-0.10994E-16	1.0000
7795	1	0	0.46643E-16	-0.23113E-16	1.0000
7815	4	0	0.47633E-16	-0.88632E-16	1.0000
7816	4	0	0.30627E-16	0.58123E-16	1.0000
7826	4	0	0.51197E-16	0.38854E-16	1.0000
7986	4	0	-0.44734E-17	0.24874E-18	1.0000
7987	3	0	0.10059E-17	0.89214E-17	1.0000
8000	4	0	-0.19178E-16	0.78751E-16	1.0000
8349	4	0	0.39290E-16	0.10590E-16	1.0000
8369	1	0	-0.89111E-17	0.48340E-16	1.0000
8672	1	0	-0.33483E-17	0.51710E-16	1.0000
8722	4	0	0.82963E-16	0.14425E-16	1.0000
9088	3	0	0.92388E-17	0.38188E-16	1.0000
9136	1	0	0.11271E-16	0.34803E-17	1.0000
9138	1	0	-0.15902E-16	0.72052E-17	1.0000
9161	1	0	-0.43159E-16	0.45471E-17	1.0000
9199	4	0	-0.63492E-16	-0.15163E-18	1.0000

9349	4	0	-0.13974E-16	-0.14488E-16	1.0000
9371	4	0	-0.23152E-17	0.14487E-16	1.0000
9373	1	0	-0.22279E-16	-0.15050E-16	1.0000
9412	4	0	0.40528E-17	0.13546E-16	1.0000
10841	1	0	-0.36251E-16	-0.12911E-16	1.0000
10891	4	0	0.12460E-16	-0.39029E-16	1.0000
10911	4	0	-0.94239E-16	0.37324E-16	1.0000
10916	4	0	-0.16990E-16	0.14023E-16	1.0000
10928	1	0	-0.33670E-16	0.32559E-16	1.0000
10944	1	0	-0.77429E-17	-0.59842E-16	1.0000
10961	1	0	-0.24767E-16	-0.13912E-16	1.0000
10970	4	0	0.13676E-16	0.21793E-17	1.0000
10974	4	0	0.52433E-17	-0.24696E-16	1.0000
10979	1	0	0.51496E-17	-0.52957E-16	1.0000
10995	4	0	0.93152E-18	0.73386E-17	1.0000
10996	3	0	-0.11937E-16	0.10653E-16	1.0000
11012	4	0	0.14803E-16	0.19714E-16	1.0000
11025	4	0	-0.72473E-16	0.49112E-16	1.0000
11034	4	0	0.59862E-17	0.94268E-17	1.0000
11047	4	0	-0.11583E-16	-0.73046E-17	1.0000
11048	4	0	0.52713E-16	-0.57956E-16	1.0000
11054	4	0	-0.68863E-18	0.16797E-16	1.0000
11572	1	0	-0.13209E-16	0.72032E-17	1.0000
11613	4	0	0.10233E-16	0.10834E-16	1.0000
11665	4	0	0.21312E-16	-0.95784E-16	1.0000
11666	1	0	-0.25957E-16	0.20085E-16	1.0000
11677	4	0	-0.17784E-16	-0.15489E-16	1.0000
11678	4	0	0.48630E-16	0.19994E-16	1.0000
11715	4	0	0.28030E-17	0.62525E-16	1.0000
11746	1	0	-0.21262E-16	-0.16968E-16	1.0000
11750	4	0	0.11020E-16	0.46068E-16	1.0000
11773	4	0	-0.14493E-16	0.35212E-16	1.0000
11776	4	0	0.73344E-16	0.24395E-16	1.0000
11777	1	0	-0.30420E-16	-0.22037E-16	1.0000
11786	4	0	0.49939E-16	0.11854E-16	1.0000
11788	1	0	-0.34272E-17	-0.17442E-16	1.0000
11789	1	0	0.45129E-16	-0.27103E-16	1.0000
11809	4	0	0.48369E-16	-0.88245E-16	1.0000
11810	4	0	0.30707E-16	0.58080E-16	1.0000
11820	4	0	0.49814E-16	0.40856E-16	1.0000
11980	4	0	-0.55901E-17	-0.13691E-17	1.0000
11981	3	0	0.11895E-18	0.16217E-16	1.0000
12054	6	0	0.0000	0.0000	1.0000
12064	6	0	0.0000	0.0000	1.0000
12071	4	0	0.12668E-16	0.11006E-16	1.0000
12110	6	0	0.0000	0.0000	1.0000
12144	4	0	-0.21047E-19	-0.56481E-17	1.0000
12261	6	0	0.0000	0.0000	1.0000
12329	4	0	0.0000	0.0000	1.0000
12412	6	0	0.0000	0.0000	1.0000
12414	6	0	0.0000	0.0000	1.0000
12473	6	0	0.12194E-17	-0.86331E-17	1.0000
12493	6	0	0.0000	0.0000	1.0000
12551	6	0	0.0000	0.0000	1.0000
12574	6	0	0.0000	0.0000	1.0000
12606	4	0	-0.27902E-17	0.11538E-16	1.0000
12661	6	0	0.0000	0.0000	1.0000
12676	3	0	-0.24479E-17	-0.27719E-17	1.0000
12690	6	0	0.0000	0.0000	1.0000
12743	6	0	0.0000	0.0000	1.0000
12754	6	0	0.0000	0.0000	1.0000
12918	6	0	0.0000	0.0000	1.0000
12971	6	0	0.0000	0.0000	1.0000
13134	3	0	0.75775E-17	-0.93049E-18	1.0000
13143	6	0	0.0000	0.0000	1.0000
13160	6	0	0.13166E-16	-0.12674E-17	1.0000
13196	6	0	0.95888E-17	0.58585E-17	1.0000
13238	6	0	0.0000	0.0000	1.0000
13280	4	0	0.14931E-16	-0.36774E-17	1.0000

13445	3	0	0.0000	0.0000	1.0000
13569	6	0	0.0000	0.0000	1.0000
13711	6	0	0.0000	0.0000	1.0000
13756	1	0	0.0000	0.0000	1.0000
13853	6	0	0.0000	0.0000	1.0000
13918	3	0	0.46973E-17	-0.33064E-17	1.0000
14011	6	0	0.30595E-17	-0.21320E-17	1.0000
14039	6	0	0.0000	0.0000	1.0000
14041	6	0	0.0000	0.0000	1.0000
14097	6	0	0.0000	0.0000	1.0000
14104	6	0	0.0000	0.0000	1.0000
14139	3	0	-0.99313E-17	-0.52381E-17	1.0000
14140	1	0	0.19416E-17	-0.20625E-17	1.0000
14154	6	0	-0.25879E-17	0.10034E-17	1.0000
14226	6	0	0.0000	0.0000	1.0000
14228	6	0	0.0000	0.0000	1.0000
14247	6	0	0.0000	0.0000	1.0000
14357	6	0	0.0000	0.0000	1.0000
14366	4	0	0.0000	0.0000	1.0000
14426	6	0	0.0000	0.0000	1.0000
14430	3	0	0.0000	0.0000	1.0000
14432	6	0	0.0000	0.0000	1.0000
14476	6	0	0.0000	0.0000	1.0000
14493	4	0	-0.64289E-17	-0.67222E-17	1.0000
14527	1	0	0.11224E-16	0.60522E-18	1.0000
14558	6	0	-0.13396E-16	0.15554E-17	1.0000
14559	4	0	0.95289E-17	-0.77202E-17	1.0000
14588	1	0	0.17625E-17	-0.88125E-17	1.0000
14732	6	0	0.0000	0.0000	1.0000
14875	4	0	0.31492E-17	-0.13053E-16	1.0000
14877	6	0	0.0000	0.0000	1.0000
15208	6	0	0.0000	0.0000	1.0000
15449	6	0	0.0000	0.0000	1.0000
15720	6	0	0.0000	0.0000	1.0000
15736	6	0	0.0000	0.0000	1.0000
16036	6	0	0.0000	0.0000	1.0000
16580	6	0	0.0000	0.0000	1.0000
16653	6	0	0.0000	0.0000	1.0000
16787	6	0	-0.82414E-17	-0.34495E-17	1.0000
16789	6	0	0.0000	0.0000	1.0000
16845	6	0	0.14218E-17	0.20074E-17	1.0000
16901	6	0	0.0000	0.0000	1.0000
17128	6	0	0.0000	0.0000	1.0000
17332	6	0	0.0000	0.0000	1.0000
17367	3	0	0.0000	0.0000	1.0000
17376	6	0	0.0000	0.0000	1.0000
17411	6	0	0.0000	0.0000	1.0000
17417	3	0	0.0000	0.0000	1.0000
17420	3	0	0.0000	0.0000	1.0000
17437	6	0	0.0000	0.0000	1.0000
17489	6	0	0.0000	0.0000	1.0000
17537	6	0	0.0000	0.0000	1.0000
17551	6	0	0.0000	0.0000	1.0000
17578	6	0	0.0000	0.0000	1.0000
17594	3	0	0.0000	0.0000	1.0000
17668	4	0	0.0000	0.0000	1.0000
17709	6	0	0.0000	0.0000	1.0000
17770	6	0	0.0000	0.0000	1.0000
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17955	6	0	0.0000	0.0000	1.0000
17966	6	0	0.0000	0.0000	1.0000
18025	6	0	0.0000	0.0000	1.0000
18087	6	0	0.0000	0.0000	1.0000
18107	6	0	0.0000	0.0000	1.0000
18113	6	0	0.0000	0.0000	1.0000
18115	1	0	0.0000	0.0000	1.0000
18160	6	0	0.0000	0.0000	1.0000
18273	6	0	-0.11574E-16	-0.10171E-16	1.0000

18275	6	0	0.0000	0.0000	1.0000
18276	6	0	0.0000	0.0000	1.0000
18281	3	0	0.0000	0.0000	1.0000
18297	6	0	0.0000	0.0000	1.0000
18329	6	0	0.0000	0.0000	1.0000
18347	4	0	0.0000	0.0000	1.0000
18386	6	0	0.39744E-17	-0.56114E-17	1.0000
18400	6	0	0.29380E-17	0.14278E-16	1.0000
18432	1	0	0.19737E-16	-0.12446E-17	1.0000
18433	4	0	-0.40912E-17	-0.83295E-17	1.0000
18474	1	0	0.19433E-17	0.10001E-16	1.0000
18497	1	0	0.57296E-18	-0.30220E-18	1.0000
18498	6	0	0.17400E-16	-0.59126E-17	1.0000
18504	6	0	0.0000	0.0000	1.0000
18505	4	0	-0.40507E-17	0.12620E-16	1.0000
18507	4	0	0.87467E-17	-0.85761E-17	1.0000
18514	6	0	0.40902E-17	0.40104E-17	1.0000
18520	3	0	-0.16368E-17	-0.75178E-17	1.0000
18523	3	0	0.18682E-17	0.12356E-17	1.0000
18540	6	0	0.0000	0.0000	1.0000
18541	6	0	0.0000	0.0000	1.0000
18543	4	0	-0.71754E-17	-0.49066E-17	1.0000
18548	6	0	0.0000	0.0000	1.0000
18558	1	0	0.11097E-16	0.59066E-17	1.0000
18559	1	0	0.20852E-17	-0.24211E-18	1.0000
18561	6	0	0.0000	0.0000	1.0000
18575	6	0	0.0000	0.0000	1.0000
18578	3	0	-0.70085E-17	-0.17929E-17	1.0000
18615	6	0	0.0000	0.0000	1.0000
18628	6	0	-0.74805E-17	-0.13282E-17	1.0000
18629	6	0	-0.50250E-17	-0.19483E-17	1.0000
18631	6	0	0.99510E-17	-0.21483E-16	1.0000
18678	6	0	0.13410E-16	-0.15071E-16	1.0000
18689	6	0	0.0000	0.0000	1.0000
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18843	6	0	0.0000	0.0000	1.0000
18901	6	0	-0.56141E-17	0.84910E-17	1.0000
18909	6	0	0.0000	0.0000	1.0000
18991	6	0	0.0000	0.0000	1.0000
19023	6	0	0.0000	0.0000	1.0000
19313	6	0	0.0000	0.0000	1.0000
19326	6	0	0.0000	0.0000	1.0000
19444	6	0	0.78196E-17	-0.13884E-17	1.0000
19757	6	0	0.0000	0.0000	1.0000
19882	6	0	0.0000	0.0000	1.0000
19953	6	0	-0.65470E-17	0.50831E-17	1.0000
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20453	6	0	0.0000	0.0000	1.0000
20457	6	0	-0.56283E-17	0.82878E-17	1.0000
20587	1	0	0.89241E-17	0.14258E-16	1.0000
20588	6	0	0.0000	0.0000	1.0000
20636	4	0	-0.22349E-17	-0.17351E-17	1.0000
20637	1	0	-0.45449E-18	-0.20843E-17	1.0000
20672	6	0	0.0000	0.0000	1.0000
20673	6	0	0.41945E-17	-0.83259E-17	1.0000
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20678	1	0	-0.22334E-17	0.12043E-18	1.0000
20718	1	0	0.31679E-17	-0.79014E-17	1.0000
20724	6	0	0.0000	0.0000	1.0000
20728	6	0	0.0000	0.0000	1.0000
20732	4	0	0.36231E-18	0.25652E-17	1.0000
20744	1	0	0.56727E-17	-0.75505E-17	1.0000
20752	6	0	0.0000	0.0000	1.0000
20760	6	0	0.0000	0.0000	1.0000
20765	6	0	0.0000	0.0000	1.0000
20792	4	0	-0.81751E-17	0.24649E-17	1.0000
20802	6	0	-0.29483E-17	0.12626E-16	1.0000

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20807	4	0	0.35114E-17	-0.94516E-17	1.0000
20809	6	0	0.0000	0.0000	1.0000
20820	4	0	-0.14483E-16	-0.13942E-17	1.0000
20823	1	0	0.89849E-17	0.43608E-17	1.0000
20827	4	0	-0.17804E-17	-0.55203E-17	1.0000
20836	6	0	0.0000	0.0000	1.0000
20841	6	0	0.0000	0.0000	1.0000
20843	6	0	-0.18178E-17	-0.11575E-16	1.0000
20845	1	0	0.46235E-17	-0.67050E-17	1.0000
20883	6	0	0.0000	0.0000	1.0000
20886	6	0	0.0000	0.0000	1.0000
20890	6	0	0.0000	0.0000	1.0000
20895	4	0	-0.11943E-16	-0.48007E-17	1.0000
20915	1	0	0.15047E-16	-0.74479E-17	1.0000
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20919	6	0	-0.83308E-17	-0.38845E-17	1.0000
20920	6	0	0.0000	0.0000	1.0000
20922	1	0	0.13031E-19	-0.19708E-19	1.0000
20932	6	0	0.0000	0.0000	1.0000
20933	6	0	0.0000	0.0000	1.0000
20938	1	0	-0.91362E-17	-0.62474E-17	1.0000
20939	3	0	-0.98220E-18	-0.20594E-16	1.0000
20960	6	0	0.0000	0.0000	1.0000
20966	1	0	0.52905E-17	0.13195E-16	1.0000
20968	4	0	0.71740E-17	0.19943E-16	1.0000
20973	1	0	0.0000	0.0000	1.0000
20984	6	0	0.0000	0.0000	1.0000
20993	3	0	0.0000	0.0000	1.0000
20996	6	0	0.0000	0.0000	1.0000
20999	6	0	0.0000	0.0000	1.0000
21024	6	0	-0.14745E-16	-0.16232E-16	1.0000
21027	1	0	0.11033E-16	-0.66143E-17	1.0000
21038	6	0	0.0000	0.0000	1.0000
21040	6	0	-0.65824E-17	-0.28448E-17	1.0000
21089	6	0	0.0000	0.0000	1.0000
21092	6	0	-0.56878E-17	0.60421E-17	1.0000
21095	6	0	0.0000	0.0000	1.0000
21100	6	0	0.0000	0.0000	1.0000
21141	6	0	0.0000	0.0000	1.0000
21152	6	0	0.0000	0.0000	1.0000
21161	6	0	0.0000	0.0000	1.0000
21187	6	0	0.0000	0.0000	1.0000
21204	6	0	-0.19845E-17	-0.74070E-18	1.0000
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21239	6	0	0.0000	0.0000	1.0000
21240	3	0	0.12749E-16	0.47583E-17	1.0000
21287	6	0	0.0000	0.0000	1.0000
21533	6	0	0.0000	0.0000	1.0000
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21596	6	0	-0.14326E-17	-0.61353E-17	1.0000
21637	6	0	0.0000	0.0000	1.0000
21643	6	0	0.0000	0.0000	1.0000
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21653	3	0	0.0000	0.0000	1.0000
21717	1	0	0.0000	0.0000	1.0000
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21973	6	0	0.0000	0.0000	1.0000
21977	6	0	0.27140E-17	-0.16270E-17	1.0000
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22290	3	0	0.91758E-17	0.16163E-17	1.0000
22607	6	0	0.0000	0.0000	1.0000
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22970	6	0	0.19480E-17	0.12024E-16	1.0000
22973	1	0	0.0000	0.0000	1.0000
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23121	6	0	-0.64899E-17	0.55036E-18	1.0000
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23553	4	0	-0.36420E-19	0.10208E-16	1.0000
23876	1	0	0.0000	0.0000	1.0000
24239	1	0	0.32888E-17	0.17441E-16	1.0000
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24800	3	0	0.0000	0.0000	1.0000
24813	6	0	0.17697E-16	0.82309E-17	1.0000
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25511	1	0	0.22184E-17	-0.15459E-17	1.0000
25907	6	0	0.0000	0.0000	1.0000
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26616	3	0	0.0000	0.0000	1.0000
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27700	1	0	0.54623E-17	-0.10547E-17	1.0000
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28302	6	0	0.29422E-17	-0.10757E-16	1.0000
28307	6	0	0.15292E-17	-0.97369E-17	1.0000
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29281	6	0	0.18450E-16	0.30611E-17	1.0000
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30509	6	0	-0.56857E-17	0.82455E-17	1.0000
30605	6	0	0.0000	0.0000	1.0000
31332	3	0	0.55160E-17	-0.71131E-17	1.0000
31333	6	0	-0.71844E-18	-0.36974E-17	1.0000
31336	4	0	-0.13465E-19	-0.37738E-17	1.0000
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33819	6	0	-0.60648E-17	0.12935E-16	1.0000
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45694	6	0	0.0000	0.0000	-1.0000
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45712	6	0	0.0000	0.0000	-1.0000
45720	6	0	0.0000	0.0000	-1.0000
45739	6	0	0.0000	0.0000	-1.0000
45746	6	0	0.0000	0.0000	-1.0000
45748	6	0	0.0000	0.0000	-1.0000
45754	6	0	0.0000	0.0000	-1.0000
45783	6	0	0.0000	0.0000	-1.0000
45785	6	0	0.0000	0.0000	-1.0000
45788	6	0	0.0000	0.0000	-1.0000
45803	6	0	0.0000	0.0000	-1.0000
45837	6	0	0.0000	0.0000	-1.0000
45838	6	0	0.0000	0.0000	-1.0000
45855	6	0	0.0000	0.0000	-1.0000
45864	6	0	0.0000	0.0000	-1.0000
45887	6	0	0.0000	0.0000	-1.0000
45892	6	0	0.0000	0.0000	-1.0000
45893	6	0	0.0000	0.0000	-1.0000
45948	6	0	0.0000	0.0000	-1.0000
45967	6	0	0.0000	0.0000	-1.0000
46032	6	0	0.0000	0.0000	-1.0000
46205	6	0	0.0000	0.0000	-1.0000
46212	6	0	0.0000	0.0000	-1.0000
46213	6	0	0.0000	0.0000	-1.0000
46247	6	0	0.0000	0.0000	-1.0000
46266	6	0	0.0000	0.0000	-1.0000
46298	6	0	0.0000	0.0000	-1.0000
46306	6	0	0.0000	0.0000	-1.0000
46495	6	0	0.0000	0.0000	-1.0000
46508	6	0	0.0000	0.0000	-1.0000
46556	6	0	0.0000	0.0000	-1.0000
46639	6	0	0.0000	0.0000	-1.0000
46685	6	0	0.0000	0.0000	-1.0000
46917	6	0	0.0000	0.0000	-1.0000
46948	6	0	0.0000	0.0000	-1.0000
46949	6	0	0.0000	0.0000	-1.0000
47188	6	0	0.0000	0.0000	-1.0000
47225	6	0	0.0000	0.0000	-1.0000
47275	6	0	0.0000	0.0000	-1.0000
47354	6	0	0.0000	0.0000	-1.0000
47364	6	0	0.0000	0.0000	-1.0000
47386	6	0	0.0000	0.0000	-1.0000
47401	6	0	0.0000	0.0000	-1.0000
47416	6	0	0.0000	0.0000	-1.0000
47418	6	0	0.0000	0.0000	-1.0000
47450	6	0	0.0000	0.0000	-1.0000
47492	6	0	0.0000	0.0000	-1.0000
47504	6	0	0.0000	0.0000	-1.0000
47508	6	0	0.0000	0.0000	-1.0000
47576	6	0	0.0000	0.0000	-1.0000
47591	6	0	0.0000	0.0000	-1.0000
47683	6	0	0.0000	0.0000	-1.0000
47709	6	0	0.0000	0.0000	-1.0000
47736	6	0	0.0000	0.0000	-1.0000
47742	6	0	0.0000	0.0000	-1.0000
47840	6	0	0.0000	0.0000	-1.0000
47856	6	0	0.0000	0.0000	-1.0000
47972	6	0	0.0000	0.0000	-1.0000
48028	6	0	0.0000	0.0000	-1.0000
48045	6	0	0.0000	0.0000	-1.0000
48048	6	0	0.0000	0.0000	-1.0000
48163	6	0	0.0000	0.0000	-1.0000
48196	6	0	0.0000	0.0000	-1.0000
48218	6	0	0.0000	0.0000	-1.0000
48229	6	0	0.0000	0.0000	-1.0000
48397	6	0	0.0000	0.0000	-1.0000
48426	6	0	0.0000	0.0000	-1.0000
48518	6	0	0.0000	0.0000	-1.0000
48588	6	0	0.0000	0.0000	-1.0000

48945	6	0	0.0000	0.0000	-1.0000
48977	6	0	0.0000	0.0000	-1.0000
49106	6	0	0.0000	0.0000	-1.0000
49170	6	0	0.0000	0.0000	-1.0000
49988	6	0	0.0000	0.0000	-1.0000
49990	6	0	0.0000	0.0000	-1.0000
49991	6	0	0.0000	0.0000	-1.0000
50000	6	0	0.0000	0.0000	-1.0000
50018	6	0	0.0000	0.0000	-1.0000
50019	6	0	0.0000	0.0000	-1.0000
50020	6	0	0.0000	0.0000	-1.0000
50025	6	0	0.0000	0.0000	-1.0000
50026	6	0	0.0000	0.0000	-1.0000
50030	6	0	0.0000	0.0000	-1.0000
50032	6	0	0.0000	0.0000	-1.0000
50035	6	0	0.0000	0.0000	-1.0000
50039	6	0	0.0000	0.0000	-1.0000
50043	6	0	0.0000	0.0000	-1.0000
50044	6	0	0.0000	0.0000	-1.0000
50047	6	0	0.0000	0.0000	-1.0000
50048	6	0	0.0000	0.0000	-1.0000
50053	6	0	0.0000	0.0000	-1.0000
50054	6	0	0.0000	0.0000	-1.0000
50058	6	0	0.0000	0.0000	-1.0000
50062	6	0	0.0000	0.0000	-1.0000
50063	6	0	0.0000	0.0000	-1.0000
50073	6	0	0.0000	0.0000	-1.0000
50077	6	0	0.0000	0.0000	-1.0000
50078	6	0	0.0000	0.0000	-1.0000
50079	6	0	0.0000	0.0000	-1.0000
50080	6	0	0.0000	0.0000	-1.0000
50083	6	0	0.0000	0.0000	-1.0000
50084	6	0	0.0000	0.0000	-1.0000
50086	6	0	0.0000	0.0000	-1.0000
50088	6	0	0.0000	0.0000	-1.0000
50089	6	0	0.0000	0.0000	-1.0000
50090	6	0	0.0000	0.0000	-1.0000
50093	6	0	0.0000	0.0000	-1.0000
50094	6	0	0.0000	0.0000	-1.0000
50095	6	0	0.0000	0.0000	-1.0000
50400	6	0	0.0000	0.0000	-1.0000
50434	6	0	0.0000	0.0000	-1.0000
50437	6	0	0.0000	0.0000	-1.0000
50462	6	0	0.0000	0.0000	-1.0000
50480	6	0	0.0000	0.0000	-1.0000
50484	6	0	0.0000	0.0000	-1.0000
50485	6	0	0.0000	0.0000	-1.0000
50515	6	0	0.0000	0.0000	-1.0000
50518	6	0	0.0000	0.0000	-1.0000
50574	6	0	0.0000	0.0000	-1.0000
50575	6	0	0.0000	0.0000	-1.0000
50767	6	0	0.0000	0.0000	-1.0000
50768	6	0	0.0000	0.0000	-1.0000
50769	6	0	0.0000	0.0000	-1.0000
50840	6	0	0.0000	0.0000	-1.0000
50852	6	0	0.0000	0.0000	-1.0000
50853	6	0	0.0000	0.0000	-1.0000
50874	6	0	0.0000	0.0000	-1.0000
50909	6	0	0.0000	0.0000	-1.0000
50914	6	0	0.0000	0.0000	-1.0000
50916	6	0	0.0000	0.0000	-1.0000
50974	6	0	0.0000	0.0000	-1.0000
50976	6	0	0.0000	0.0000	-1.0000
50996	6	0	0.0000	0.0000	-1.0000
50997	6	0	0.0000	0.0000	-1.0000
50998	6	0	0.0000	0.0000	-1.0000
51081	6	0	0.0000	0.0000	-1.0000
51082	6	0	0.0000	0.0000	-1.0000
51096	6	0	0.0000	0.0000	-1.0000

51097	6	0	0.0000	0.0000	-1.0000
51099	6	0	0.0000	0.0000	-1.0000
51100	6	0	0.0000	0.0000	-1.0000
51101	6	0	0.0000	0.0000	-1.0000
51103	6	0	0.0000	0.0000	-1.0000
51112	6	0	0.0000	0.0000	-1.0000
51126	6	0	0.0000	0.0000	-1.0000
51178	6	0	0.0000	0.0000	-1.0000
51180	6	0	0.0000	0.0000	-1.0000
51218	6	0	0.0000	0.0000	-1.0000
51261	6	0	0.0000	0.0000	-1.0000
51262	6	0	0.0000	0.0000	-1.0000
51263	6	0	0.0000	0.0000	-1.0000
51264	6	0	0.0000	0.0000	-1.0000
51265	6	0	0.0000	0.0000	-1.0000
51298	6	0	0.0000	0.0000	-1.0000
51299	6	0	0.0000	0.0000	-1.0000
51317	6	0	0.0000	0.0000	-1.0000
51319	6	0	0.0000	0.0000	-1.0000
51347	6	0	0.0000	0.0000	-1.0000
51415	6	0	0.0000	0.0000	-1.0000
51416	6	0	0.0000	0.0000	-1.0000
51417	6	0	0.0000	0.0000	-1.0000
51448	6	0	0.0000	0.0000	-1.0000
51449	6	0	0.0000	0.0000	-1.0000
51458	6	0	0.0000	0.0000	-1.0000
51481	6	0	0.0000	0.0000	-1.0000
51543	6	0	0.0000	0.0000	-1.0000
51544	6	0	0.0000	0.0000	-1.0000
51545	6	0	0.0000	0.0000	-1.0000
51572	6	0	0.0000	0.0000	-1.0000
51574	6	0	0.0000	0.0000	-1.0000
51575	6	0	0.0000	0.0000	-1.0000
51653	6	0	0.0000	0.0000	-1.0000
51654	6	0	0.0000	0.0000	-1.0000
51655	6	0	0.0000	0.0000	-1.0000
51656	6	0	0.0000	0.0000	-1.0000
51657	6	0	0.0000	0.0000	-1.0000
51689	6	0	0.0000	0.0000	-1.0000
51690	6	0	0.0000	0.0000	-1.0000
51741	6	0	0.0000	0.0000	-1.0000
51762	6	0	0.0000	0.0000	-1.0000
51836	6	0	0.0000	0.0000	-1.0000
51837	6	0	0.0000	0.0000	-1.0000
51968	6	0	0.0000	0.0000	-1.0000
52063	6	0	0.0000	0.0000	-1.0000
52076	6	0	0.0000	0.0000	-1.0000
52078	6	0	0.0000	0.0000	-1.0000
52092	6	0	0.0000	0.0000	-1.0000
52093	6	0	0.0000	0.0000	-1.0000
52175	6	0	0.0000	0.0000	-1.0000
52176	6	0	0.0000	0.0000	-1.0000
52177	6	0	0.0000	0.0000	-1.0000
52178	6	0	0.0000	0.0000	-1.0000
52179	6	0	0.0000	0.0000	-1.0000
52210	6	0	0.0000	0.0000	-1.0000
52211	6	0	0.0000	0.0000	-1.0000

**** Initial conditions for nodal velocities

Node number	DOF1	DOF2	DOF3	DOF4
****	Nodal boundary condition codes printing suppressed.			

**** Prescribed nodal velocities/forces

Node number	DOF1	DOF2	DOF3	DOF4
1972	0.00000000E+00	0.00000000E+00	1.00000000E+04	0.00000000E+00

7499	0.00000000E+00	0.00000000E+00	1.00000000E+04	0.00000000E+00
7500	0.00000000E+00	0.00000000E+00	1.00000000E+04	0.00000000E+00
7501	0.00000000E+00	0.00000000E+00	1.00000000E+04	0.00000000E+00
7502	0.00000000E+00	0.00000000E+00	1.00000000E+04	0.00000000E+00
7527	0.00000000E+00	0.00000000E+00	1.00000000E+04	0.00000000E+00
7528	0.00000000E+00	0.00000000E+00	1.00000000E+04	0.00000000E+00
7529	0.00000000E+00	0.00000000E+00	1.00000000E+04	0.00000000E+00
7530	0.00000000E+00	0.00000000E+00	1.00000000E+04	0.00000000E+00
7531	0.00000000E+00	0.00000000E+00	1.00000000E+04	0.00000000E+00
7532	0.00000000E+00	0.00000000E+00	1.00000000E+04	0.00000000E+00
7533	0.00000000E+00	0.00000000E+00	1.00000000E+04	0.00000000E+00
7534	0.00000000E+00	0.00000000E+00	1.00000000E+04	0.00000000E+00
7535	0.00000000E+00	0.00000000E+00	1.00000000E+04	0.00000000E+00
7536	0.00000000E+00	0.00000000E+00	1.00000000E+04	0.00000000E+00
7537	0.00000000E+00	0.00000000E+00	1.00000000E+04	0.00000000E+00
7538	0.00000000E+00	0.00000000E+00	1.00000000E+04	0.00000000E+00

**** Segregated Scheme Data

```
Select segregated scheme ..... = T
Solver for momentum equations ..... = Automatic
Solver for pressure equations ..... = Automatic
Velocity relaxation factor ..... = 7.000E-01
Pressure relaxation factor ..... = 5.000E-01
Inertial relaxation factor ..... = 1.000E+00
Apply automatic adaptive parameter control = T
ID of Detect stagnation due to oscillation = 1
```

```
The number of equations (U)..... = 46300
The number of equations (V)..... = 46300
The number of equations (W)..... = 46300
The number of equations (P)..... = 53520
```

**** Turbulence Model Data

```
Select Turbulence model ..... = Standard k-epsilon
Solver for turbulence equations..... = Automatic
```

**** Proceeding with Equal-Order Segregated Method

**** Iterative Solver Control Information

```
Global Solver Index = 7
Iterative Solver Selection = 2
EQ.1 PBiCGStab
EQ.2 PGMRes
EQ.3 PBiCG
EQ.4 PCGS
Pre-Conditioner Selection = 2
EQ.1 ILU(0)
EQ.2 SSOR
EQ.3 JACOBI
Use GMRES with M-Vectors (M) = 20
```

>>>>>> For multi time step interval # 1 <<<<<<<

Time step number = 1

Current load fraction = 1.000E+00

.. Automatic iteration increment .. 1

.. Automatic iteration increment .. 2

.. Automatic iteration increment .. 3

.. Automatic iteration increment .. 4

Warning: Converge with stagnation due to oscillation

-- End iterations --

-- Successful result output at LC No. = 1

Time step number = 2

Current load fraction = 1.000E+00

.. Automatic iteration increment .. 1

```

.. Automatic iteration increment .. 2
.. Automatic iteration increment .. 3
.. Automatic iteration increment .. 4
Warning: Converge with stagnation due to oscillation

```

```

-- End iterations --
-- Successful result output at LC No. =          2

```

```

**** Solution time log seconds
Input, restart, optimization etc. . . . . =      19.37
Lhs formation & factorization. . . . . =       0.00
Time loop . . . . . =      7561.13
Momentum lhs & rhs . . . . . =     3674.63
Factor & back substitution . . . . . =       0.00
Print,postproces,smooth,etc . . . . . =       3.54
Total solution time . . . . . =     7580.50

```

SUCCESSFUL RUN COMPLETED...

**** Table for file size:

Filename	Unit No	Size (Kbytes)
ds.mod\		133901.703
...	-1	0.000
...	11	7550.484
...	7	83.307
...	12	7550.484

**** Space used = 149085.984 (Kbytes)

**** Input file name:

**** Job finished: 03-28-2011 12:50:30

**** Total elapsed time = 126.3552 (Minutes)