

COMSOL 4.2 (Build: 228) starting in batch mode

COMSOL 4.2.0.228 progress output file

Tue Sep 27 04:49:33 GMT 2011

Opening: /home/sdgvndrj/length_conv.mph

Open time: 17 s.

Running: Study 4_length

Parameter artery_ln = 0.01.

--- Current Progress: 33 %

Memory: 371/371 1803/1803

Parametric solver

Current Progress: 0 %

Memory: 443/443 2069/2069

Nonlinear solver

Number of degrees of freedom solved for: 744419.

Parameter pr_in = 10.

Nonsymmetric matrix found.

Iter	ErrEst	Damping	Stepsize	#Res	#Jac	#Sol
1	0.024	1.0000000	0.15	2	1	2

Current Progress: 2 %

Memory: 3448/3448 4904/4904

2	0.0097	1.0000000	1.3	3	2	4
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Current Progress: 3 %

Memory: 3691/3691 5180/5180

3	0.00051	1.0000000	0.011	4	3	6
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- Current Progress: 17 %

Memory: 21228/21228 25529/25529

Parameter pr_in = 20.

Iter	ErrEst	Damping	Stepsize	#Res	#Jac	#Sol
1	0.2	1.0000000	0.29	7	4	9

- Current Progress: 18 %

Memory: 4014/21228 5470/25529

2	0.88	0.1043645	0.98	8	5	11
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-- Current Progress: 20 %

Memory: 4084/21228 5598/25529

3	0.54	0.4996798	1.4	10	6	14
---	------	-----------	-----	----	---	----

-- Current Progress: 25 %

Memory: 4131/21228 5637/25529

4	0.016	1.0000000	0.2	11	7	16
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--- Current Progress: 32 %

Memory: 4145/21228 5645/25529

5	0.013	1.0000000	0.059	12	8	18
---	-------	-----------	-------	----	---	----

-- Current Progress: 28 %

Memory: 4281/21228 5822/25529

6	0.0006	1.0000000	0.018	13	9	20
---	--------	-----------	-------	----	---	----

--- Current Progress: 33 %

Memory: 21380/21380 25754/25754

Parameter artery_ln = 0.015.

Number of vertex elements: 4

--- Current Progress: 39 %

Memory: 1797/21380 3267/25754

---- Current Progress: 40 %

----- Current Progress: 52 %

----- Current Progress: 55 %

```
----- Current Progress: 62 %
Number of edge elements: 352
Number of boundary elements: 9042
----- Current Progress: 67 %
----- Current Progress: 52 %
Memory: 1798/21380 3267/25754
Number of vertex elements: 8
Number of edge elements: 724
Number of boundary elements: 19844
Number of elements: 45210
Minimum element quality: 0.6351
----- Current Progress: 67 %
--- Current Progress: 33 %
Number of vertex elements: 10
--- Current Progress: 37 %
---- Current Progress: 44 %
---- Current Progress: 45 %
Number of edge elements: 814
Number of boundary elements: 24136
Number of elements: 186506
Free meshing time: 8.64s
----- Current Progress: 67 %
Minimum element quality: 0.3926
--- Current Progress: 33 %
Memory: 1810/21380 3267/25754
----- Current Progress: 67 %
Parametric solver
--- Current Progress: 33 %
Memory: 1459/21380 2939/25754
Nonlinear solver
Number of degrees of freedom solved for: 1099206.
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```
Parameter pr_in = 10.
Nonsymmetric matrix found.
----- Current Progress: 67 %
Memory: 6021/21380 7466/25754
Exception:
  com.comsol.util.exceptions.FlException: The following
feature has encountered a problem
  (rethrown as com.comsol.util.exceptions.FlException)
Messages:
  Error in sweep: The following feature has encountered a
problem

  The following feature has encountered a problem
  - Feature: Stationary Solver 1 (sol3/s1)
  - Error: Failed to find a solution for the initial
parameter.
```

```
Stack trace:
  at com.comsol.batch.operations.BatchParametricSweep.a
(Unknown Source)
  at com.comsol.batch.operations.BatchParametricSweep.a
(Unknown Source)
  at com.comsol.batch.operations.BatchParametricSweep.a
(Unknown Source)
  at com.comsol.batch.operations.BatchParametricSweep.a
```

```

(Unknown Source)
  at
com.comsol.batch.operations.BatchParametricSweep.execute
(Unknown Source)
  at com.comsol.model.internal.impl.BatchFeatureImpl.e
(Unknown Source)
  at com.comsol.model.internal.impl.BatchFeatureImpl$c.a
(Unknown Source)
  at com.comsol.model.internal.impl.BatchFeatureImpl
$c.execute(Unknown Source)
  at com.comsol.model.clientserver.ClientManagerImpl$.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: The following
feature has encountered a problem
Messages:
  Error in sweep: The following feature has encountered a
problem

  The following feature has encountered a problem
  - Feature: Stationary Solver 1 (sol3/s1)
  - Error: Failed to find a solution for the initial
parameter.

  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.g
(Unknown Source)
  at
com.comsol.model.internal.impl.SolverSequenceImpl.runAll
(Unknown Source)
  at com.comsol.batch.BatchSequenceNode.a(Unknown Source)
  at com.comsol.batch.BatchSequenceBase.a(Unknown Source)
  ... 13 more
Total time: 4193 s.

```