

\*\*\*\*\*

\*\*\*\*\*

SimScale incorporates Simulation Modeling Suite(TM) software by Simmetrix Inc. ©  
1997-2025. All Rights Reserved.

\*\*\*\*\*

\*\*\*\*\*

Model import took 411.254327ms.

Maximum precision of model and its entities: 1e-08 m.

Absolute small feature tolerance: 0.009950000000000007 m.

Surface meshing took 209.830634ms.

Number of cells after 315.119246ms: 12943

Number of cells after 420.44351ms: 16398

Number of cells after 525.633234ms: 19955

Number of cells after 629.869203ms: 50911

Number of cells after 735.187673ms: 75005

Number of cells after 840.394475ms: 54505

Number of cells after 944.68588ms: 70976

Number of cells after 1.050004594s: 63983

Number of cells after 1.154146518s: 62493

Number of cells after 1.259508699s: 59683

Number of cells after 1.364846597s: 56610

Number of cells after 1.468957525s: 55015

Number of cells after 1.574255478s: 54594

Number of cells after 1.679596428s: 54577

Meshing took 1.775783701s. Starting mesh export.

Mesh quality metrics:

Non Orthogonality

Acceptable range: 0.0 to 88.0

min: 0.0

max: 62.5

average: 28.9

99.99-th percentile: 62.5

Edge Ratio

Acceptable range: 0.0 to 100.0

min: 1.0

max: 3.3

average: 1.7

99.99-th percentile: 3.3

Volume Ratio

Acceptable range: 0.0 to 100.0

min: 1.0

max: 4.1

average: 1.7

99.99-th percentile: 4.1

Aspect Ratio

Acceptable range: 0.0 to 100.0

min: 6.0

max: 13.2

average: 9.3

99.99-th percentile: 13.2

Tetrahedral Aspect Ratio

Acceptable range: 0.0 to 100.0

min: 6.0

max: 13.2

average: 9.3

99.99-th percentile: 13.2

Skewness

Acceptable range: 0.0 to 100.0

min: 0.0

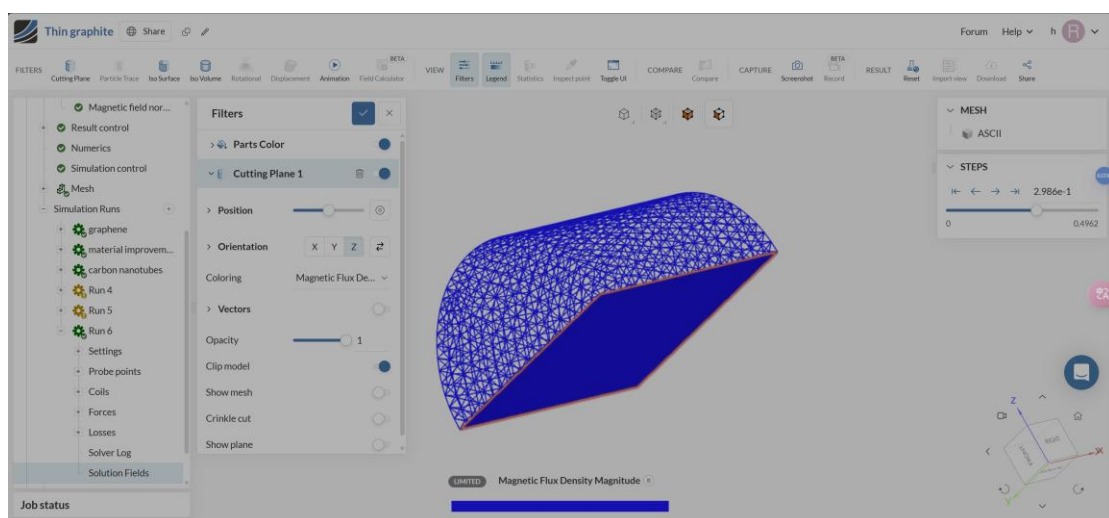
max: 0.9

average: 0.3

99.99-th percentile: 0.9

Min Edge Length : 0

Mesh export took 2.301935971s.



Setting the resources path

Loading resources path

Resources Loaded

Setting the XML file path:

Initializing Study

Loading study properties...

Set study definition...

Getting study element data...

Getting study name...

Setting study type...

Setting mesh ID...

Setting product full version (Formatted: Year/Date Code)...

Preparing to separate product version date code...

Setting product version year...

Extracting document name...

Setting document name: SimScaleElectromagnetics

Extracting mesh file name

Setting mesh file name: mesh

Initializing log file

Initializing dev file...

Dev file initialized

Log file initialized

Initializing temp file

Temp file initialized

Started on : Sun Feb 2 02:06:17 2025

Initializing study properties

Non Linear Residual Error: 1e-06

1 Solid(s) found in the current study

EMW\_ERROR\_25: No solid body found or no material applied

Type: Error!

Cure: Check the input file or model to ensure that it is properly formatted and that all necessary data is included. Make sure that the model includes at least one solid geometry. Verify the material assignment to ensure that it is accurate and complete. Ensure that all elements are correctly assigned to the appropriate material properties.

Ended on : Sun Feb 2 02:06:17 2025

EMW\_WARNING\_60017: Resources estimation is not done for this solving session. Consider using the argument -RunMode with value Estimation, before doing full run to check if resources are available.

Type: Warning!

Start fill elements an node arrays from json mesh file

Getting Points (Nodes) coordinates from the mesh

Start reading global surface mesh faces

Filling the elements array

Start reading global volume mesh

End reading global volume mesh

number of elements: 54575

number of nodes: 10294

Compute security key done

Preparing mesh database

Preparing database... ( 0 / 14) ...

Preparing database... ( 1 / 14) ...

Creating tets

Preparing database... ( 2 / 14) ...

Vertices created

Number of vertices : 10294

Number of edges : 66705

Number of triangles : 110987

Number of tets : 54575

Preparing database... ( 3 / 14) ...

Preparing database... ( 4 / 14) ...

Preparing database... ( 5 / 14) ...

Preparing database... ( 6 / 14) ...

Euler characteristic of the complex is : 1

Is the complex connected : 1

Preparing database... ( 7 / 14) ...

Preparing database... ( 8 / 14) ...

Preparing database... ( 9 / 14) ...

Preparing database... ( 10 / 14) ...

Preparing database... ( 11 / 14) ...

Preparing database... ( 12 / 14) ...

Number of cohomology generators = 0

Preparing database... ( 13 / 14) ...

Preparing database... ( 14 / 14) ...

Start filling elements boundary conditions

End filling elements boundary conditions

Finish preparing mesh database

EstimatedRunTime:845.778s

Progress: 1%

Estimated Time: 0:14:6

Remaining Time: 0:14:6

Available Memory(GB): 14.25

Available Memory 0 Mb

-----< CTransientMagneticStudy::Run 1>-----

-----< CTransientMagneticStudy::Run 2>-----

-----< CTransientMagneticStudy::Run 3>-----

Checking component and materials status

Checking Components and mesh availability

Checking Load/Restraint mesh

EMW\_INFO\_30009: Number of mesh faces found in the Boundary Condition Tangential Flux - 1 is: 3674

Type: Info

EMW\_INFO\_30009: Number of mesh faces found in the Boundary Condition is: 3674

Type: Info

Finish All mesh checking

Checking Force torque mesh

-----< CTransientMagneticStudy::Run 4>-----

Setting Coils parameters...

-----< CTransientMagneticStudy::Run 5>-----

Getting Coils mesh data

-----< CTransientMagneticStudy::Run 6>-----

Getting Gauss values

-----< CTransientMagneticStudy::Run 7>-----

Checking material non linear status

-----< CTransientMagneticStudy::Run 8>-----

Solving Coils conduction problem...

Forming Coils Support Regions

Preparing linear system...

Get Degree of Coupling For Conduction Timing: 00:00:00

>>> Nbr of used cores: 4

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Pardiso Direct Solver

Multi\_Cores Pardiso Direct Solver:Total spent Cpu Time 0.202398

Multi\_Cores Pardiso Direct Solver:Total spent Wall Time 0.254000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 60514

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

0 timing on seconds

Done solving conduction for Coil 1

-----< CTransientMagneticStudy::Run 9>-----

Intermediate Steps before the main solver

-----< CTransientMagneticStudy::Run 10>-----

Start Prepare Linear system for vector TS

PrepareLinearSystemForVectorTS 1

PrepareLinearSystemForVectorTS 1

NumberGlobalForVectorTs 1

NumberGlobalForVectorTs 1

NumberGlobalForVectorTs 2

NumberGlobalForVectorTs 2

NumberGlobalForVectorTs 3

NumberGlobalForVectorTs 3

PrepareLinearSystemForVectorTS 2

PrepareLinearSystemForVectorTS 2



PrepareLinearSystemForVectorTS 3

PrepareLinearSystemForVectorTS 3

PrepareLinearSystemForVectorTS 4

PrepareLinearSystemForVectorTS 4

>>> Nbr of used cores: 4

Finish Prepare linear system for vector TS

Distributing the currents for Coil 1

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 6119 , true residual: 1.02984e-16

Multi\_Cores Iterative Solver:Total spent Cpu Time 5.876479

Multi\_Cores Iterative Solver:Total spent Wall Time 5.934000

>>End Solving

Solving 00:00:06 Dimension 61194 Non\_Zeroes 961406

reading file

EMW\_ERROR\_113: Failed to open the file : /srvtc/job-data/c6def067-619f-41d1-939b-4872c8658dbf/Output/SimScaleElectromagnetics\_Generic\_SOL1

Type: Error!

Cure: Double-check the file path specified in the software to ensure that it is correct. Ensure that the file name specified in the software is correct and matches the actual file name. Ensure that the file format is compatible with the software.

0 timing on seconds

reading file

Distributed Current successfully for Coil 1

-----< CTransientMagneticStudy::Run 11>-----

Done Distributing the currents

IMT Fix Order TransientMagnetic Timing: 0: 0: 0

Number of cohomology generators = 0

Get degree of coupling for transient magnetic Timing: 0: 0: 0

>>> Nbr of used cores: 4

Start solving for TOmega 0.000000e+00

Assembling matrices for Time 0.000000e+00

Assembling matrices for Time 0.000000e+00

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time0.000000e+00

Solving matrices for Time0.000000e+00

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001100

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

>>>>>

CTransientMagneticStudy::AssembleGlobalForTransientInductanceDecember2017

Timing: 0: 0: 0

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001119

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 0.000000e+00

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 562.000000ms

Start solving for TOmega 1.000000e-04

Assembling matrices for Time 1.000000e-04

Assembling matrices for Time 1.000000e-04

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.000000e-04

Solving matrices for Time1.000000e-04

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001143

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

## Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.000000e-04

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 715.000000ms

Start solving for TOmega 2.000000e-04

Assembling matrices for Time 2.000000e-04

Assembling matrices for Time 2.000000e-04

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.000000e-04

Solving matrices for Time2.000000e-04

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001080

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.000000e-04

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 707.000000ms

Start solving for TOmega 3.000000e-04

Assembling matrices for Time 3.000000e-04

Assembling matrices for Time 3.000000e-04

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.000000e-04

Solving matrices for Time3.000000e-04

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001152

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.000000e-04

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 713.000000ms

Start solving for TOmega 4.000000e-04

Assembling matrices for Time 4.000000e-04

Assembling matrices for Time 4.000000e-04

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.000000e-04

Solving matrices for Time4.000000e-04

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001089

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.000000e-04

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 718.000000ms

Start solving for TOmega 5.000000e-04

Assembling matrices for Time 5.000000e-04

Assembling matrices for Time 5.000000e-04



CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time5.000000e-04

Solving matrices for Time5.000000e-04

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001164

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 5.000000e-04

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 709.000000ms

Start solving for TOmega 6.000000e-04

Assembling matrices for Time 6.000000e-04

Assembling matrices for Time 6.000000e-04

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time6.000000e-04

Solving matrices for Time6.000000e-04

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001202

Multi\_Cores Iterative Solver:Total spent Wall Time 0.005000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 6.000000e-04

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 704.000000ms

Start solving for TOmega 7.000000e-04

Assembling matrices for Time 7.000000e-04

Assembling matrices for Time 7.000000e-04

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time7.000000e-04

Solving matrices for Time7.000000e-04

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001138

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 7.000000e-04

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 691.000000ms

Start solving for TOmega 8.000000e-04

Assembling matrices for Time 8.000000e-04

Assembling matrices for Time 8.000000e-04

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time8.000000e-04

Solving matrices for Time8.000000e-04

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001081

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 8.000000e-04

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 686.000000ms

Start solving for TOmega 9.000000e-04

Assembling matrices for Time 9.000000e-04

Assembling matrices for Time 9.000000e-04

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time9.000000e-04

Solving matrices for Time9.000000e-04

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001172

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 9.000000e-04

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 705.000000ms

Start solving for TOmega 1.000000e-03

Assembling matrices for Time 1.000000e-03

Assembling matrices for Time 1.000000e-03

Progress: 2%

Estimated Time: 0:14:6

Remaining Time: 0:13:46

Available Memory(GB): 14.18

Current CPU Percentage: 34.42

Average cores per hour: 1.38

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.000000e-03

Solving matrices for Time1.000000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001112

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.000000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 696.000000ms

Start solving for TOmega 1.100000e-03

Assembling matrices for Time 1.100000e-03

Assembling matrices for Time 1.100000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.100000e-03

Solving matrices for Time1.100000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001177

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000



>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.100000e-03

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 685.000000ms

Start solving for TOmega 1.200000e-03

Assembling matrices for Time 1.200000e-03

Assembling matrices for Time 1.200000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.200000e-03

Solving matrices for Time1.200000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001157

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.200000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 691.000000ms

Start solving for TOmega 1.300000e-03

Assembling matrices for Time 1.300000e-03

Assembling matrices for Time 1.300000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.300000e-03

Solving matrices for Time1.300000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001201

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.300000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 745.000000ms

Start solving for TOmega 1.400000e-03

Assembling matrices for Time 1.400000e-03

Assembling matrices for Time 1.400000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.400000e-03

Solving matrices for Time1.400000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001164

Multi\_Cores Iterative Solver:Total spent Wall Time 0.005000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.400000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 704.000000ms

Start solving for TOmega 1.500000e-03

Assembling matrices for Time 1.500000e-03

Assembling matrices for Time 1.500000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.500000e-03

Solving matrices for Time1.500000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001205

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.500000e-03

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 733.000000ms

Start solving for TOmega 1.600000e-03

Assembling matrices for Time 1.600000e-03

Assembling matrices for Time 1.600000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.600000e-03

Solving matrices for Time1.600000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001145

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.600000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 745.000000ms

Start solving for TOmega 1.700000e-03

Assembling matrices for Time 1.700000e-03

Assembling matrices for Time 1.700000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.700000e-03

Solving matrices for Time1.700000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001138

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.700000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 687.000000ms

Start solving for TOmega 1.800000e-03

Assembling matrices for Time 1.800000e-03

Assembling matrices for Time 1.800000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.800000e-03

Solving matrices for Time1.800000e-03

Solver in progress...



>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001135

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.800000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 723.000000ms

Start solving for TOmega 1.900000e-03

Assembling matrices for Time 1.900000e-03

Assembling matrices for Time 1.900000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.900000e-03

Solving matrices for Time1.900000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001167

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.900000e-03

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 703.000000ms

Start solving for TOmega 2.000000e-03

Assembling matrices for Time 2.000000e-03

Assembling matrices for Time 2.000000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.000000e-03

Solving matrices for Time2.000000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001074

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.000000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 711.000000ms

Start solving for TOmega 2.100000e-03

Assembling matrices for Time 2.100000e-03

Assembling matrices for Time 2.100000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.100000e-03

Solving matrices for Time2.100000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001192

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.100000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 705.000000ms

Start solving for TOmega 2.200000e-03

Assembling matrices for Time 2.200000e-03

Assembling matrices for Time 2.200000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.200000e-03

Solving matrices for Time 2.200000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001206

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.200000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 714.000000ms

Start solving for TOmega 2.300000e-03

Assembling matrices for Time 2.300000e-03

Assembling matrices for Time 2.300000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.300000e-03

Solving matrices for Time 2.300000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001214

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.300000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 709.000000ms

Start solving for TOmega 2.400000e-03

Assembling matrices for Time 2.400000e-03

Assembling matrices for Time 2.400000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.400000e-03

Solving matrices for Time 2.400000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001237

Multi\_Cores Iterative Solver: Total spent Wall Time 0.005000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.400000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0



Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 687.000000ms

Start solving for TOmega 2.500000e-03

Assembling matrices for Time 2.500000e-03

Assembling matrices for Time 2.500000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.500000e-03

Solving matrices for Time2.500000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001203

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.500000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 4%

Estimated Time: 0:14:6

Remaining Time: 0:13:26

Available Memory(GB): 14.12

Current CPU Percentage: 51.20

Average cores per hour: 2.05

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 697.000000ms

Start solving for TOmega 2.600000e-03

Assembling matrices for Time 2.600000e-03

Assembling matrices for Time 2.600000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.600000e-03

Solving matrices for Time2.600000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001076

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.600000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 701.000000ms

Start solving for TOmega 2.700000e-03

Assembling matrices for Time 2.700000e-03

Assembling matrices for Time 2.700000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time2.700000e-03

Solving matrices for Time2.700000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001125

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.700000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 733.000000ms

Start solving for TOmega 2.800000e-03

Assembling matrices for Time 2.800000e-03

Assembling matrices for Time 2.800000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.800000e-03

Solving matrices for Time 2.800000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001160

Multi\_Cores Iterative Solver: Total spent Wall Time 0.004000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.800000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 701.000000ms

Start solving for TOmega 2.900000e-03

Assembling matrices for Time 2.900000e-03

Assembling matrices for Time 2.900000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.900000e-03

Solving matrices for Time2.900000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001704

Multi\_Cores Iterative Solver:Total spent Wall Time 0.009000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.900000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 690.000000ms

Start solving for TOmega 3.000000e-03

Assembling matrices for Time 3.000000e-03

Assembling matrices for Time 3.000000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.000000e-03

Solving matrices for Time3.000000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001226

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.000000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 738.000000ms

Start solving for TOmega 3.100000e-03

Assembling matrices for Time 3.100000e-03

Assembling matrices for Time 3.100000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.100000e-03

Solving matrices for Time3.100000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters



>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001084

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.100000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 712.000000ms

Start solving for TOmega 3.200000e-03

Assembling matrices for Time 3.200000e-03

Assembling matrices for Time 3.200000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.200000e-03

Solving matrices for Time3.200000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001189

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.200000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 679.000000ms

Start solving for TOmega 3.300000e-03

Assembling matrices for Time 3.300000e-03

Assembling matrices for Time 3.300000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.300000e-03

Solving matrices for Time3.300000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001074

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.300000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 728.000000ms

Start solving for TOmega 3.400000e-03

Assembling matrices for Time 3.400000e-03

Assembling matrices for Time 3.400000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.400000e-03

Solving matrices for Time3.400000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001153

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.400000e-03

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 706.000000ms

Start solving for TOmega 3.500000e-03

Assembling matrices for Time 3.500000e-03

Assembling matrices for Time 3.500000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.500000e-03

Solving matrices for Time3.500000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001076

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.500000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 696.000000ms

Start solving for TOmega 3.600000e-03

Assembling matrices for Time 3.600000e-03

Assembling matrices for Time 3.600000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.600000e-03

Solving matrices for Time3.600000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001110

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.600000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 709.000000ms

Start solving for TOmega 3.700000e-03

Assembling matrices for Time 3.700000e-03

Assembling matrices for Time 3.700000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.700000e-03

Solving matrices for Time3.700000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001159

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.700000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 684.000000ms

Start solving for TOmega 3.800000e-03

Assembling matrices for Time 3.800000e-03

Assembling matrices for Time 3.800000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore



Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.800000e-03

Solving matrices for Time3.800000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001083

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.800000e-03

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 676.000000ms

Start solving for TOmega 3.900000e-03

Assembling matrices for Time 3.900000e-03

Assembling matrices for Time 3.900000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.900000e-03

Solving matrices for Time3.900000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001210

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.900000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 704.000000ms

Start solving for TOmega 4.000000e-03

Assembling matrices for Time 4.000000e-03

Assembling matrices for Time 4.000000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.000000e-03

Solving matrices for Time4.000000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001069

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.000000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 714.000000ms

Start solving for TOmega 4.100000e-03

Assembling matrices for Time 4.100000e-03

Assembling matrices for Time 4.100000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.100000e-03

Solving matrices for Time4.100000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001104

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.100000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 7%

Estimated Time: 0:14:6

Remaining Time: 0:13:6

Available Memory(GB): 14.09

Current CPU Percentage: 51.19

Average cores per hour: 2.05

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 713.000000ms

Start solving for TOmega 4.200000e-03

Assembling matrices for Time 4.200000e-03

Assembling matrices for Time 4.200000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.200000e-03

Solving matrices for Time4.200000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001093

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.200000e-03

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 693.000000ms

Start solving for TOmega 4.300000e-03

Assembling matrices for Time 4.300000e-03

Assembling matrices for Time 4.300000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.300000e-03

Solving matrices for Time4.300000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001212

Multi\_Cores Iterative Solver:Total spent Wall Time 0.005000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.300000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 705.000000ms

Start solving for TOmega 4.400000e-03

Assembling matrices for Time 4.400000e-03

Assembling matrices for Time 4.400000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.400000e-03

Solving matrices for Time4.400000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001073

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000



>>End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.400000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 688.000000ms

Start solving for TOmega 4.500000e-03

Assembling matrices for Time 4.500000e-03

Assembling matrices for Time 4.500000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.500000e-03

Solving matrices for Time4.500000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001082

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.500000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 700.000000ms

Start solving for TOmega 4.600000e-03

Assembling matrices for Time 4.600000e-03

Assembling matrices for Time 4.600000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.600000e-03

Solving matrices for Time4.600000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001073

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.600000e-03

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 725.000000ms

Start solving for TOmega 4.700000e-03

Assembling matrices for Time 4.700000e-03

Assembling matrices for Time 4.700000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.700000e-03

Solving matrices for Time4.700000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001129

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.700000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 690.000000ms

Start solving for TOmega 4.800000e-03

Assembling matrices for Time 4.800000e-03

Assembling matrices for Time 4.800000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.800000e-03

Solving matrices for Time4.800000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001092

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.800000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 687.000000ms

Start solving for TOmega 4.900000e-03

Assembling matrices for Time 4.900000e-03

Assembling matrices for Time 4.900000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.900000e-03

Solving matrices for Time4.900000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001058

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.900000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 698.000000ms

Start solving for TOmega 5.000000e-03

Assembling matrices for Time 5.000000e-03

Assembling matrices for Time 5.000000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time5.000000e-03

Solving matrices for Time5.000000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001076

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 5.000000e-03

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 710.000000ms

Start solving for TOmega 5.100000e-03

Assembling matrices for Time 5.100000e-03

Assembling matrices for Time 5.100000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time5.100000e-03

Solving matrices for Time5.100000e-03

Solver in progress...



>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001209

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 5.100000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 704.000000ms

Start solving for TOmega 5.200000e-03

Assembling matrices for Time 5.200000e-03

Assembling matrices for Time 5.200000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 5.200000e-03

Solving matrices for Time 5.200000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001188

Multi\_Cores Iterative Solver: Total spent Wall Time 0.004000

>> End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 5.200000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 723.000000ms

Start solving for TOmega 5.300000e-03

Assembling matrices for Time 5.300000e-03

Assembling matrices for Time 5.300000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time5.300000e-03

Solving matrices for Time5.300000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001080

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 5.300000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 677.000000ms

Start solving for TOmega 5.400000e-03

Assembling matrices for Time 5.400000e-03

Assembling matrices for Time 5.400000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time5.400000e-03

Solving matrices for Time5.400000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001287

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 5.400000e-03

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 712.000000ms

Start solving for TOmega 5.500000e-03

Assembling matrices for Time 5.500000e-03

Assembling matrices for Time 5.500000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time5.500000e-03

Solving matrices for Time5.500000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001057

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 5.500000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 725.000000ms

Start solving for TOmega 5.600000e-03

Assembling matrices for Time 5.600000e-03

Assembling matrices for Time 5.600000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time5.600000e-03

Solving matrices for Time5.600000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001151

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 5.600000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 685.000000ms

Start solving for TOmega 5.700000e-03

Assembling matrices for Time 5.700000e-03

Assembling matrices for Time 5.700000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time5.700000e-03

Solving matrices for Time5.700000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001166

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 5.700000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0



Progress: 9%

Estimated Time: 0:14:6

Remaining Time: 0:12:46

Available Memory(GB): 14.04

Current CPU Percentage: 51.68

Average cores per hour: 2.07

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 697.000000ms

Start solving for TOmega 5.800000e-03

Assembling matrices for Time 5.800000e-03

Assembling matrices for Time 5.800000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time5.800000e-03

Solving matrices for Time5.800000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001136

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 5.800000e-03

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 697.000000ms

Start solving for TOmega 5.900000e-03

Assembling matrices for Time 5.900000e-03

Assembling matrices for Time 5.900000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time5.900000e-03

Solving matrices for Time5.900000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001079

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 5.900000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 695.000000ms

Start solving for TOmega 6.000000e-03

Assembling matrices for Time 6.000000e-03

Assembling matrices for Time 6.000000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time6.000000e-03

Solving matrices for Time6.000000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001055

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 6.000000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 698.000000ms

Start solving for TOmega 6.100000e-03

Assembling matrices for Time 6.100000e-03

Assembling matrices for Time 6.100000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 6.100000e-03

Solving matrices for Time 6.100000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001157

Multi\_Cores Iterative Solver: Total spent Wall Time 0.004000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 6.100000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 676.000000ms

Start solving for TOmega 6.200000e-03

Assembling matrices for Time 6.200000e-03

Assembling matrices for Time 6.200000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time6.200000e-03

Solving matrices for Time6.200000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001090

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 6.200000e-03

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 726.000000ms

Start solving for TOmega 6.300000e-03

Assembling matrices for Time 6.300000e-03

Assembling matrices for Time 6.300000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time6.300000e-03

Solving matrices for Time6.300000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001130

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 6.300000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 712.000000ms

Start solving for TOmega 6.400000e-03

Assembling matrices for Time 6.400000e-03

Assembling matrices for Time 6.400000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time6.400000e-03

Solving matrices for Time6.400000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters



>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001063

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 6.400000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 695.000000ms

Start solving for TOmega 6.500000e-03

Assembling matrices for Time 6.500000e-03

Assembling matrices for Time 6.500000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time6.500000e-03

Solving matrices for Time6.500000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001125

Multi\_Cores Iterative Solver:Total spent Wall Time 0.005000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 6.500000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 719.000000ms

Start solving for TOmega 6.600000e-03

Assembling matrices for Time 6.600000e-03

Assembling matrices for Time 6.600000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 6.600000e-03

Solving matrices for Time 6.600000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001117

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 6.600000e-03

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 701.000000ms

Start solving for TOmega 6.700000e-03

Assembling matrices for Time 6.700000e-03

Assembling matrices for Time 6.700000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time6.700000e-03

Solving matrices for Time6.700000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001058

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 6.700000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 715.000000ms

Start solving for TOmega 6.800000e-03

Assembling matrices for Time 6.800000e-03

Assembling matrices for Time 6.800000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time6.800000e-03

Solving matrices for Time6.800000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001180

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 6.800000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 696.000000ms

Start solving for TOmega 6.900000e-03

Assembling matrices for Time 6.900000e-03

Assembling matrices for Time 6.900000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time6.900000e-03

Solving matrices for Time6.900000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001187

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 6.900000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 733.000000ms

Start solving for TOmega 7.000000e-03

Assembling matrices for Time 7.000000e-03

Assembling matrices for Time 7.000000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time7.000000e-03

Solving matrices for Time7.000000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001148

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 7.000000e-03

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 687.000000ms

Start solving for TOmega 7.100000e-03

Assembling matrices for Time 7.100000e-03

Assembling matrices for Time 7.100000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore



Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 7.100000e-03

Solving matrices for Time 7.100000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001076

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 7.100000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 710.000000ms

Start solving for TOmega 7.200000e-03

Assembling matrices for Time 7.200000e-03

Assembling matrices for Time 7.200000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time7.200000e-03

Solving matrices for Time7.200000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001184

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 7.200000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 690.000000ms

Start solving for TOmega 7.300000e-03

Assembling matrices for Time 7.300000e-03

Assembling matrices for Time 7.300000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time7.300000e-03

Solving matrices for Time7.300000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001022

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 7.300000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 11%

Estimated Time: 0:14:6

Remaining Time: 0:12:26

Available Memory(GB): 14.00

Current CPU Percentage: 51.47

Average cores per hour: 2.06

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 713.000000ms

Start solving for TOmega 7.400000e-03

Assembling matrices for Time 7.400000e-03

Assembling matrices for Time 7.400000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 7.400000e-03

Solving matrices for Time 7.400000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001165

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 7.400000e-03

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 730.000000ms

Start solving for TOmega 7.500000e-03

Assembling matrices for Time 7.500000e-03

Assembling matrices for Time 7.500000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 7.500000e-03

Solving matrices for Time 7.500000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001111

Multi\_Cores Iterative Solver: Total spent Wall Time 0.004000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 7.500000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 704.000000ms

Start solving for TOmega 7.600000e-03

Assembling matrices for Time 7.600000e-03

Assembling matrices for Time 7.600000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time7.600000e-03

Solving matrices for Time7.600000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001070

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 7.600000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 717.000000ms

Start solving for TOmega 7.700000e-03

Assembling matrices for Time 7.700000e-03

Assembling matrices for Time 7.700000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time7.700000e-03

Solving matrices for Time7.700000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001091

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000



>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 7.700000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 715.000000ms

Start solving for TOmega 7.800000e-03

Assembling matrices for Time 7.800000e-03

Assembling matrices for Time 7.800000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time7.800000e-03

Solving matrices for Time7.800000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001140

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 7.800000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 703.000000ms

Start solving for TOmega 7.900000e-03

Assembling matrices for Time 7.900000e-03

Assembling matrices for Time 7.900000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 7.900000e-03

Solving matrices for Time 7.900000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001068

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 7.900000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 676.000000ms

Start solving for TOmega 8.000000e-03

Assembling matrices for Time 8.000000e-03

Assembling matrices for Time 8.000000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time8.000000e-03

Solving matrices for Time8.000000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001146

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 8.000000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 698.000000ms

Start solving for TOmega 8.100000e-03

Assembling matrices for Time 8.100000e-03

Assembling matrices for Time 8.100000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time8.100000e-03

Solving matrices for Time8.100000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001065

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 8.100000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 699.000000ms

Start solving for TOmega 8.200000e-03

Assembling matrices for Time 8.200000e-03

Assembling matrices for Time 8.200000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time8.200000e-03

Solving matrices for Time8.200000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001063

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 8.200000e-03

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 688.000000ms

Start solving for TOmega 8.300000e-03

Assembling matrices for Time 8.300000e-03

Assembling matrices for Time 8.300000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time8.300000e-03

Solving matrices for Time8.300000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001066

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 8.300000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 683.000000ms

Start solving for TOmega 8.400000e-03

Assembling matrices for Time 8.400000e-03

Assembling matrices for Time 8.400000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time8.400000e-03

Solving matrices for Time8.400000e-03

Solver in progress...



>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001059

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 8.400000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 708.000000ms

Start solving for TOmega 8.500000e-03

Assembling matrices for Time 8.500000e-03

Assembling matrices for Time 8.500000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time8.500000e-03

Solving matrices for Time8.500000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001081

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 8.500000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 729.000000ms

Start solving for TOmega 8.600000e-03

Assembling matrices for Time 8.600000e-03

Assembling matrices for Time 8.600000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time8.600000e-03

Solving matrices for Time8.600000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001193

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 8.600000e-03

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 709.000000ms

Start solving for TOmega 8.700000e-03

Assembling matrices for Time 8.700000e-03

Assembling matrices for Time 8.700000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time8.700000e-03

Solving matrices for Time8.700000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001078

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 8.700000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 715.000000ms

Start solving for TOmega 8.800000e-03

Assembling matrices for Time 8.800000e-03

Assembling matrices for Time 8.800000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time8.800000e-03

Solving matrices for Time8.800000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001071

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 8.800000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 700.000000ms

Start solving for TOmega 8.900000e-03

Assembling matrices for Time 8.900000e-03

Assembling matrices for Time 8.900000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time8.900000e-03

Solving matrices for Time8.900000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001072

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 8.900000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 14%

Estimated Time: 0:14:6

Remaining Time: 0:12:6

Available Memory(GB): 13.96

Current CPU Percentage: 51.26

Average cores per hour: 2.05

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 699.000000ms

Start solving for TOmega 9.000000e-03

Assembling matrices for Time 9.000000e-03

Assembling matrices for Time 9.000000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time9.000000e-03

Solving matrices for Time9.000000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001081

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities



Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 9.000000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 728.000000ms

Start solving for TOmega 9.100000e-03

Assembling matrices for Time 9.100000e-03

Assembling matrices for Time 9.100000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time9.100000e-03

Solving matrices for Time9.100000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001099

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 9.100000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 686.000000ms

Start solving for TOmega 9.200000e-03

Assembling matrices for Time 9.200000e-03

Assembling matrices for Time 9.200000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time9.200000e-03

Solving matrices for Time9.200000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001067

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 9.200000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 734.000000ms

Start solving for TOmega 9.300000e-03

Assembling matrices for Time 9.300000e-03

Assembling matrices for Time 9.300000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time9.300000e-03

Solving matrices for Time9.300000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001226

Multi\_Cores Iterative Solver:Total spent Wall Time 0.005000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 9.300000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 685.000000ms

Start solving for TOmega 9.400000e-03

Assembling matrices for Time 9.400000e-03

Assembling matrices for Time 9.400000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 9.400000e-03

Solving matrices for Time 9.400000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001081

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 9.400000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 683.000000ms

Start solving for TOmega 9.500000e-03

Assembling matrices for Time 9.500000e-03

Assembling matrices for Time 9.500000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time9.500000e-03

Solving matrices for Time9.500000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001075

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 9.500000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 694.000000ms

Start solving for TOmega 9.600000e-03

Assembling matrices for Time 9.600000e-03

Assembling matrices for Time 9.600000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time9.600000e-03

Solving matrices for Time9.600000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001092

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 9.600000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 700.000000ms

Start solving for TOmega 9.700000e-03

Assembling matrices for Time 9.700000e-03

Assembling matrices for Time 9.700000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time9.700000e-03

Solving matrices for Time9.700000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters



>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001095

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 9.700000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 696.000000ms

Start solving for TOmega 9.800000e-03

Assembling matrices for Time 9.800000e-03

Assembling matrices for Time 9.800000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time9.800000e-03

Solving matrices for Time9.800000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001090

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 9.800000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 695.000000ms

Start solving for TOmega 9.900000e-03

Assembling matrices for Time 9.900000e-03

Assembling matrices for Time 9.900000e-03

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 9.900000e-03

Solving matrices for Time 9.900000e-03

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001085

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 9.900000e-03

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 708.000000ms

Start solving for TOmega 1.000000e-02

Assembling matrices for Time 1.000000e-02

Assembling matrices for Time 1.000000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.000000e-02

Solving matrices for Time1.000000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001091

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.000000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 676.000000ms

Start solving for TOmega 1.010000e-02

Assembling matrices for Time 1.010000e-02

Assembling matrices for Time 1.010000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.010000e-02

Solving matrices for Time1.010000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001086

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.010000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 714.000000ms

Start solving for TOmega 1.020000e-02

Assembling matrices for Time 1.020000e-02

Assembling matrices for Time 1.020000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.020000e-02

Solving matrices for Time1.020000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001082

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.020000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 715.000000ms

Start solving for TOmega 1.030000e-02

Assembling matrices for Time 1.030000e-02

Assembling matrices for Time 1.030000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.030000e-02

Solving matrices for Time1.030000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001101

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.030000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 686.000000ms

Start solving for TOmega 1.040000e-02

Assembling matrices for Time 1.040000e-02

Assembling matrices for Time 1.040000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore



Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.040000e-02

Solving matrices for Time1.040000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001184

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.040000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 695.000000ms

Start solving for TOmega 1.050000e-02

Assembling matrices for Time 1.050000e-02

Assembling matrices for Time 1.050000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.050000e-02

Solving matrices for Time1.050000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001030

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.050000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 16%

Estimated Time: 0:14:6

Remaining Time: 0:11:46

Available Memory(GB): 13.91

Current CPU Percentage: 51.69

Average cores per hour: 2.07

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 692.000000ms

Start solving for TOmega 1.060000e-02

Assembling matrices for Time 1.060000e-02

Assembling matrices for Time 1.060000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.060000e-02

Solving matrices for Time1.060000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001117

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.060000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 690.000000ms

Start solving for TOmega 1.070000e-02

Assembling matrices for Time 1.070000e-02

Assembling matrices for Time 1.070000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.070000e-02

Solving matrices for Time1.070000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001086

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.070000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 722.000000ms

Start solving for TOmega 1.080000e-02

Assembling matrices for Time 1.080000e-02

Assembling matrices for Time 1.080000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.080000e-02

Solving matrices for Time1.080000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001180

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.080000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 678.000000ms

Start solving for TOmega 1.090000e-02

Assembling matrices for Time 1.090000e-02

Assembling matrices for Time 1.090000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.090000e-02

Solving matrices for Time1.090000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001112

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.090000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 695.000000ms

Start solving for TOmega 1.100000e-02

Assembling matrices for Time 1.100000e-02

Assembling matrices for Time 1.100000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.100000e-02

Solving matrices for Time1.100000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001080

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000



>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.100000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 679.000000ms

Start solving for TOmega 1.110000e-02

Assembling matrices for Time 1.110000e-02

Assembling matrices for Time 1.110000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.110000e-02

Solving matrices for Time1.110000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001078

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.110000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 694.000000ms

Start solving for TOmega 1.120000e-02

Assembling matrices for Time 1.120000e-02

Assembling matrices for Time 1.120000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.120000e-02

Solving matrices for Time1.120000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001072

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.120000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 693.000000ms

Start solving for TOmega 1.130000e-02

Assembling matrices for Time 1.130000e-02

Assembling matrices for Time 1.130000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.130000e-02

Solving matrices for Time1.130000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001064

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.130000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 722.000000ms

Start solving for TOmega 1.140000e-02

Assembling matrices for Time 1.140000e-02

Assembling matrices for Time 1.140000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.140000e-02

Solving matrices for Time1.140000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001134

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.140000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 707.000000ms

Start solving for TOmega 1.150000e-02

Assembling matrices for Time 1.150000e-02

Assembling matrices for Time 1.150000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.150000e-02

Solving matrices for Time1.150000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001061

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.150000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 741.000000ms

Start solving for TOmega 1.160000e-02

Assembling matrices for Time 1.160000e-02

Assembling matrices for Time 1.160000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.160000e-02

Solving matrices for Time1.160000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001087

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.160000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 679.000000ms

Start solving for TOmega 1.170000e-02

Assembling matrices for Time 1.170000e-02

Assembling matrices for Time 1.170000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.170000e-02

Solving matrices for Time1.170000e-02

Solver in progress...



>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001078

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.170000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 707.000000ms

Start solving for TOmega 1.180000e-02

Assembling matrices for Time 1.180000e-02

Assembling matrices for Time 1.180000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.180000e-02

Solving matrices for Time1.180000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001054

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.180000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 711.000000ms

Start solving for TOmega 1.190000e-02

Assembling matrices for Time 1.190000e-02

Assembling matrices for Time 1.190000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.190000e-02

Solving matrices for Time1.190000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001102

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.190000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 704.000000ms

Start solving for TOmega 1.200000e-02

Assembling matrices for Time 1.200000e-02

Assembling matrices for Time 1.200000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.200000e-02

Solving matrices for Time1.200000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001097

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.200000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 700.000000ms

Start solving for TOmega 1.210000e-02

Assembling matrices for Time 1.210000e-02

Assembling matrices for Time 1.210000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.210000e-02

Solving matrices for Time1.210000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001080

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.210000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 18%

Estimated Time: 0:14:6

Remaining Time: 0:11:26

Available Memory(GB): 13.87

Current CPU Percentage: 51.41

Average cores per hour: 2.06

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 725.000000ms

Start solving for TOmega 1.220000e-02

Assembling matrices for Time 1.220000e-02

Assembling matrices for Time 1.220000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.220000e-02

Solving matrices for Time1.220000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001072

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.220000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 697.000000ms

Start solving for TOmega 1.230000e-02

Assembling matrices for Time 1.230000e-02

Assembling matrices for Time 1.230000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.230000e-02

Solving matrices for Time1.230000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001061

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities



Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.230000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 715.000000ms

Start solving for TOmega 1.240000e-02

Assembling matrices for Time 1.240000e-02

Assembling matrices for Time 1.240000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.240000e-02

Solving matrices for Time1.240000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001066

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.240000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 724.000000ms

Start solving for TOmega 1.250000e-02

Assembling matrices for Time 1.250000e-02

Assembling matrices for Time 1.250000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.250000e-02

Solving matrices for Time1.250000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001060

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.250000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 724.000000ms

Start solving for TOmega 1.260000e-02

Assembling matrices for Time 1.260000e-02

Assembling matrices for Time 1.260000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.260000e-02

Solving matrices for Time1.260000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001134

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.260000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 692.000000ms

Start solving for TOmega 1.270000e-02

Assembling matrices for Time 1.270000e-02

Assembling matrices for Time 1.270000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.270000e-02

Solving matrices for Time1.270000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001091

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.270000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 721.000000ms

Start solving for TOmega 1.280000e-02

Assembling matrices for Time 1.280000e-02

Assembling matrices for Time 1.280000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.280000e-02

Solving matrices for Time1.280000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001090

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.280000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 703.000000ms

Start solving for TOmega 1.290000e-02

Assembling matrices for Time 1.290000e-02

Assembling matrices for Time 1.290000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.290000e-02

Solving matrices for Time1.290000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001079

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.290000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 673.000000ms

Start solving for TOmega 1.300000e-02

Assembling matrices for Time 1.300000e-02

Assembling matrices for Time 1.300000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.300000e-02

Solving matrices for Time1.300000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters



>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001050

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.300000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 711.000000ms

Start solving for TOmega 1.310000e-02

Assembling matrices for Time 1.310000e-02

Assembling matrices for Time 1.310000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.310000e-02

Solving matrices for Time1.310000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001079

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.310000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 684.000000ms

Start solving for TOmega 1.320000e-02

Assembling matrices for Time 1.320000e-02

Assembling matrices for Time 1.320000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.320000e-02

Solving matrices for Time1.320000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001061

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.320000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 695.000000ms

Start solving for TOmega 1.330000e-02

Assembling matrices for Time 1.330000e-02

Assembling matrices for Time 1.330000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.330000e-02

Solving matrices for Time1.330000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001057

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.330000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 704.000000ms

Start solving for TOmega 1.340000e-02

Assembling matrices for Time 1.340000e-02

Assembling matrices for Time 1.340000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.340000e-02

Solving matrices for Time1.340000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001068

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.340000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 709.000000ms

Start solving for TOmega 1.350000e-02

Assembling matrices for Time 1.350000e-02

Assembling matrices for Time 1.350000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.350000e-02

Solving matrices for Time1.350000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001096

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.350000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 690.000000ms

Start solving for TOmega 1.360000e-02

Assembling matrices for Time 1.360000e-02

Assembling matrices for Time 1.360000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.360000e-02

Solving matrices for Time1.360000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001050

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.360000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 732.000000ms

Start solving for TOmega 1.370000e-02

Assembling matrices for Time 1.370000e-02

Assembling matrices for Time 1.370000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore



Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.370000e-02

Solving matrices for Time1.370000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001056

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.370000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 21%

Estimated Time: 0:14:6

Remaining Time: 0:11:6

Available Memory(GB): 13.81

Current CPU Percentage: 51.32

Average cores per hour: 2.05

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 708.000000ms

Start solving for TOmega 1.380000e-02

Assembling matrices for Time 1.380000e-02

Assembling matrices for Time 1.380000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.380000e-02

Solving matrices for Time1.380000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001055

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.380000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 693.000000ms

Start solving for TOmega 1.390000e-02

Assembling matrices for Time 1.390000e-02

Assembling matrices for Time 1.390000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.390000e-02

Solving matrices for Time1.390000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001051

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.390000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 686.000000ms

Start solving for TOmega 1.400000e-02

Assembling matrices for Time 1.400000e-02

Assembling matrices for Time 1.400000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.400000e-02

Solving matrices for Time1.400000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001077

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.400000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 695.000000ms

Start solving for TOmega 1.410000e-02

Assembling matrices for Time 1.410000e-02

Assembling matrices for Time 1.410000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.410000e-02

Solving matrices for Time1.410000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001048

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.410000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 690.000000ms

Start solving for TOmega 1.420000e-02

Assembling matrices for Time 1.420000e-02

Assembling matrices for Time 1.420000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.420000e-02

Solving matrices for Time1.420000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001076

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.420000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 731.000000ms

Start solving for TOmega 1.430000e-02

Assembling matrices for Time 1.430000e-02

Assembling matrices for Time 1.430000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.430000e-02

Solving matrices for Time1.430000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001186

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000



>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.430000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 698.000000ms

Start solving for TOmega 1.440000e-02

Assembling matrices for Time 1.440000e-02

Assembling matrices for Time 1.440000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.440000e-02

Solving matrices for Time1.440000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001079

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.440000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 702.000000ms

Start solving for TOmega 1.450000e-02

Assembling matrices for Time 1.450000e-02

Assembling matrices for Time 1.450000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.450000e-02

Solving matrices for Time1.450000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001056

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.450000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 687.000000ms

Start solving for TOmega 1.460000e-02

Assembling matrices for Time 1.460000e-02

Assembling matrices for Time 1.460000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.460000e-02

Solving matrices for Time1.460000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001117

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.460000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 704.000000ms

Start solving for TOmega 1.470000e-02

Assembling matrices for Time 1.470000e-02

Assembling matrices for Time 1.470000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.470000e-02

Solving matrices for Time1.470000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001102

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.470000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 701.000000ms

Start solving for TOmega 1.480000e-02

Assembling matrices for Time 1.480000e-02

Assembling matrices for Time 1.480000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.480000e-02

Solving matrices for Time1.480000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001097

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.480000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 706.000000ms

Start solving for TOmega 1.490000e-02

Assembling matrices for Time 1.490000e-02

Assembling matrices for Time 1.490000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.490000e-02

Solving matrices for Time1.490000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001097

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.490000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 682.000000ms

Start solving for TOmega 1.500000e-02

Assembling matrices for Time 1.500000e-02

Assembling matrices for Time 1.500000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.500000e-02

Solving matrices for Time1.500000e-02

Solver in progress...



>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001076

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.500000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 687.000000ms

Start solving for TOmega 1.510000e-02

Assembling matrices for Time 1.510000e-02

Assembling matrices for Time 1.510000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.510000e-02

Solving matrices for Time1.510000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001067

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.510000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 686.000000ms

Start solving for TOmega 1.520000e-02

Assembling matrices for Time 1.520000e-02

Assembling matrices for Time 1.520000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.520000e-02

Solving matrices for Time1.520000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001057

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.520000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 699.000000ms

Start solving for TOmega 1.530000e-02

Assembling matrices for Time 1.530000e-02

Assembling matrices for Time 1.530000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.530000e-02

Solving matrices for Time1.530000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001097

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.530000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 23%

Estimated Time: 0:14:6

Remaining Time: 0:10:46

Available Memory(GB): 13.78

Current CPU Percentage: 51.85

Average cores per hour: 2.07

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 720.000000ms

Start solving for TOmega 1.540000e-02

Assembling matrices for Time 1.540000e-02

Assembling matrices for Time 1.540000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.540000e-02

Solving matrices for Time1.540000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001080

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.540000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 729.000000ms

Start solving for TOmega 1.550000e-02

Assembling matrices for Time 1.550000e-02

Assembling matrices for Time 1.550000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.550000e-02

Solving matrices for Time1.550000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001085

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.550000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 677.000000ms

Start solving for TOmega 1.560000e-02

Assembling matrices for Time 1.560000e-02

Assembling matrices for Time 1.560000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.560000e-02

Solving matrices for Time1.560000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001100

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities



Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.560000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 720.000000ms

Start solving for TOmega 1.570000e-02

Assembling matrices for Time 1.570000e-02

Assembling matrices for Time 1.570000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.570000e-02

Solving matrices for Time1.570000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001071

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.570000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 679.000000ms

Start solving for TOmega 1.580000e-02

Assembling matrices for Time 1.580000e-02

Assembling matrices for Time 1.580000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.580000e-02

Solving matrices for Time1.580000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001068

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.580000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 689.000000ms

Start solving for TOmega 1.590000e-02

Assembling matrices for Time 1.590000e-02

Assembling matrices for Time 1.590000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.590000e-02

Solving matrices for Time1.590000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001073

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.590000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 694.000000ms

Start solving for TOmega 1.600000e-02

Assembling matrices for Time 1.600000e-02

Assembling matrices for Time 1.600000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.600000e-02

Solving matrices for Time1.600000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001074

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.600000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 692.000000ms

Start solving for TOmega 1.610000e-02

Assembling matrices for Time 1.610000e-02

Assembling matrices for Time 1.610000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.610000e-02

Solving matrices for Time1.610000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001107

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.610000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 697.000000ms

Start solving for TOmega 1.620000e-02

Assembling matrices for Time 1.620000e-02

Assembling matrices for Time 1.620000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.620000e-02

Solving matrices for Time1.620000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001084

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.620000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 679.000000ms

Start solving for TOmega 1.630000e-02

Assembling matrices for Time 1.630000e-02

Assembling matrices for Time 1.630000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.630000e-02

Solving matrices for Time1.630000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters



>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001070

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.630000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 720.000000ms

Start solving for TOmega 1.640000e-02

Assembling matrices for Time 1.640000e-02

Assembling matrices for Time 1.640000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.640000e-02

Solving matrices for Time1.640000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001077

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.640000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 703.000000ms

Start solving for TOmega 1.650000e-02

Assembling matrices for Time 1.650000e-02

Assembling matrices for Time 1.650000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.650000e-02

Solving matrices for Time1.650000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001096

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.650000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 677.000000ms

Start solving for TOmega 1.660000e-02

Assembling matrices for Time 1.660000e-02

Assembling matrices for Time 1.660000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.660000e-02

Solving matrices for Time1.660000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001146

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.660000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 700.000000ms

Start solving for TOmega 1.670000e-02

Assembling matrices for Time 1.670000e-02

Assembling matrices for Time 1.670000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.670000e-02

Solving matrices for Time1.670000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001079

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.670000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 702.000000ms

Start solving for TOmega 1.680000e-02

Assembling matrices for Time 1.680000e-02

Assembling matrices for Time 1.680000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.680000e-02

Solving matrices for Time1.680000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001107

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.680000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 704.000000ms

Start solving for TOmega 1.690000e-02

Assembling matrices for Time 1.690000e-02

Assembling matrices for Time 1.690000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.690000e-02

Solving matrices for Time1.690000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001089

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.690000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 26%

Estimated Time: 0:14:6

Remaining Time: 0:10:26

Available Memory(GB): 13.74

Current CPU Percentage: 51.75

Average cores per hour: 2.07



Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 700.000000ms

Start solving for TOmega 1.700000e-02

Assembling matrices for Time 1.700000e-02

Assembling matrices for Time 1.700000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.700000e-02

Solving matrices for Time1.700000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001082

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.700000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 690.000000ms

Start solving for TOmega 1.710000e-02

Assembling matrices for Time 1.710000e-02

Assembling matrices for Time 1.710000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.710000e-02

Solving matrices for Time1.710000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001071

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.710000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 641.000000ms

Start solving for TOmega 1.720000e-02

Assembling matrices for Time 1.720000e-02

Assembling matrices for Time 1.720000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.720000e-02

Solving matrices for Time1.720000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001066

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.720000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 749.000000ms

Start solving for TOmega 1.730000e-02

Assembling matrices for Time 1.730000e-02

Assembling matrices for Time 1.730000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.730000e-02

Solving matrices for Time1.730000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001175

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.730000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 694.000000ms

Start solving for TOmega 1.740000e-02

Assembling matrices for Time 1.740000e-02

Assembling matrices for Time 1.740000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.740000e-02

Solving matrices for Time1.740000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001069

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.740000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 711.000000ms

Start solving for TOmega 1.750000e-02

Assembling matrices for Time 1.750000e-02

Assembling matrices for Time 1.750000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.750000e-02

Solving matrices for Time1.750000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001123

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.750000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 714.000000ms

Start solving for TOmega 1.760000e-02

Assembling matrices for Time 1.760000e-02

Assembling matrices for Time 1.760000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.760000e-02

Solving matrices for Time1.760000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001093

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000



>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.760000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 687.000000ms

Start solving for TOmega 1.770000e-02

Assembling matrices for Time 1.770000e-02

Assembling matrices for Time 1.770000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.770000e-02

Solving matrices for Time1.770000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001099

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.770000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 700.000000ms

Start solving for TOmega 1.780000e-02

Assembling matrices for Time 1.780000e-02

Assembling matrices for Time 1.780000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.780000e-02

Solving matrices for Time1.780000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001070

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.780000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 711.000000ms

Start solving for TOmega 1.790000e-02

Assembling matrices for Time 1.790000e-02

Assembling matrices for Time 1.790000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.790000e-02

Solving matrices for Time1.790000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001085

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.790000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 740.000000ms

Start solving for TOmega 1.800000e-02

Assembling matrices for Time 1.800000e-02

Assembling matrices for Time 1.800000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.800000e-02

Solving matrices for Time1.800000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001186

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.800000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 701.000000ms

Start solving for TOmega 1.810000e-02

Assembling matrices for Time 1.810000e-02

Assembling matrices for Time 1.810000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.810000e-02

Solving matrices for Time1.810000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001093

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.810000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 719.000000ms

Start solving for TOmega 1.820000e-02

Assembling matrices for Time 1.820000e-02

Assembling matrices for Time 1.820000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.820000e-02

Solving matrices for Time1.820000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001078

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.820000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 704.000000ms

Start solving for TOmega 1.830000e-02

Assembling matrices for Time 1.830000e-02

Assembling matrices for Time 1.830000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.830000e-02

Solving matrices for Time1.830000e-02

Solver in progress...



>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001083

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.830000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 691.000000ms

Start solving for TOmega 1.840000e-02

Assembling matrices for Time 1.840000e-02

Assembling matrices for Time 1.840000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.840000e-02

Solving matrices for Time1.840000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001068

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.840000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 700.000000ms

Start solving for TOmega 1.850000e-02

Assembling matrices for Time 1.850000e-02

Assembling matrices for Time 1.850000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.850000e-02

Solving matrices for Time1.850000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001056

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.850000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 28%

Estimated Time: 0:14:6

Remaining Time: 0:10:6

Available Memory(GB): 13.69

Current CPU Percentage: 51.19

Average cores per hour: 2.05

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 716.000000ms

Start solving for TOmega 1.860000e-02

Assembling matrices for Time 1.860000e-02

Assembling matrices for Time 1.860000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.860000e-02

Solving matrices for Time1.860000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001063

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.860000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 700.000000ms

Start solving for TOmega 1.870000e-02

Assembling matrices for Time 1.870000e-02

Assembling matrices for Time 1.870000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.870000e-02

Solving matrices for Time1.870000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001073

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.870000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 699.000000ms

Start solving for TOmega 1.880000e-02

Assembling matrices for Time 1.880000e-02

Assembling matrices for Time 1.880000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.880000e-02

Solving matrices for Time1.880000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001087

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.880000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 725.000000ms

Start solving for TOmega 1.890000e-02

Assembling matrices for Time 1.890000e-02

Assembling matrices for Time 1.890000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.890000e-02

Solving matrices for Time1.890000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001094

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities



Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.890000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 694.000000ms

Start solving for TOmega 1.900000e-02

Assembling matrices for Time 1.900000e-02

Assembling matrices for Time 1.900000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.900000e-02

Solving matrices for Time1.900000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001050

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.900000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 728.000000ms

Start solving for TOmega 1.910000e-02

Assembling matrices for Time 1.910000e-02

Assembling matrices for Time 1.910000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.910000e-02

Solving matrices for Time1.910000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001076

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.910000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 686.000000ms

Start solving for TOmega 1.920000e-02

Assembling matrices for Time 1.920000e-02

Assembling matrices for Time 1.920000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.920000e-02

Solving matrices for Time1.920000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001059

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.920000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 689.000000ms

Start solving for TOmega 1.930000e-02

Assembling matrices for Time 1.930000e-02

Assembling matrices for Time 1.930000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.930000e-02

Solving matrices for Time1.930000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001054

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.930000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 719.000000ms

Start solving for TOmega 1.940000e-02

Assembling matrices for Time 1.940000e-02

Assembling matrices for Time 1.940000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.940000e-02

Solving matrices for Time1.940000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001059

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.940000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 697.000000ms

Start solving for TOmega 1.950000e-02

Assembling matrices for Time 1.950000e-02

Assembling matrices for Time 1.950000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.950000e-02

Solving matrices for Time1.950000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001166

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.950000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 688.000000ms

Start solving for TOmega 1.960000e-02

Assembling matrices for Time 1.960000e-02

Assembling matrices for Time 1.960000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.960000e-02

Solving matrices for Time1.960000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters



>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001068

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.960000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 721.000000ms

Start solving for TOmega 1.970000e-02

Assembling matrices for Time 1.970000e-02

Assembling matrices for Time 1.970000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time1.970000e-02

Solving matrices for Time1.970000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001062

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.970000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 691.000000ms

Start solving for TOmega 1.980000e-02

Assembling matrices for Time 1.980000e-02

Assembling matrices for Time 1.980000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.980000e-02

Solving matrices for Time1.980000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001058

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.980000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 687.000000ms

Start solving for TOmega 1.990000e-02

Assembling matrices for Time 1.990000e-02

Assembling matrices for Time 1.990000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time1.990000e-02

Solving matrices for Time1.990000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001079

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 1.990000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 700.000000ms

Start solving for TOmega 2.000000e-02

Assembling matrices for Time 2.000000e-02

Assembling matrices for Time 2.000000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.000000e-02

Solving matrices for Time2.000000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001064

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.000000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 697.000000ms

Start solving for TOmega 2.010000e-02

Assembling matrices for Time 2.010000e-02

Assembling matrices for Time 2.010000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.010000e-02

Solving matrices for Time 2.010000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001074

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.010000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 30%

Estimated Time: 0:14:6

Remaining Time: 0:9:46

Available Memory(GB): 13.65

Current CPU Percentage: 51.56

Average cores per hour: 2.06

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 727.000000ms

Start solving for TOmega 2.020000e-02

Assembling matrices for Time 2.020000e-02

Assembling matrices for Time 2.020000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time2.020000e-02

Solving matrices for Time2.020000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001082

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.020000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0



Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 677.000000ms

Start solving for TOmega 2.030000e-02

Assembling matrices for Time 2.030000e-02

Assembling matrices for Time 2.030000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.030000e-02

Solving matrices for Time2.030000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001082

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.030000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 705.000000ms

Start solving for TOmega 2.040000e-02

Assembling matrices for Time 2.040000e-02

Assembling matrices for Time 2.040000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.040000e-02

Solving matrices for Time2.040000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001055

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.040000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 664.000000ms

Start solving for TOmega 2.050000e-02

Assembling matrices for Time 2.050000e-02

Assembling matrices for Time 2.050000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time2.050000e-02

Solving matrices for Time2.050000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001063

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.050000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 768.000000ms

Start solving for TOmega 2.060000e-02

Assembling matrices for Time 2.060000e-02

Assembling matrices for Time 2.060000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.060000e-02

Solving matrices for Time2.060000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001075

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.060000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 708.000000ms

Start solving for TOmega 2.070000e-02

Assembling matrices for Time 2.070000e-02

Assembling matrices for Time 2.070000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.070000e-02

Solving matrices for Time 2.070000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001066

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.070000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 705.000000ms

Start solving for TOmega 2.080000e-02

Assembling matrices for Time 2.080000e-02

Assembling matrices for Time 2.080000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.080000e-02

Solving matrices for Time2.080000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001084

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.080000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 721.000000ms

Start solving for TOmega 2.090000e-02

Assembling matrices for Time 2.090000e-02

Assembling matrices for Time 2.090000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.090000e-02

Solving matrices for Time2.090000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001068

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000



>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.090000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 682.000000ms

Start solving for TOmega 2.100000e-02

Assembling matrices for Time 2.100000e-02

Assembling matrices for Time 2.100000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.100000e-02

Solving matrices for Time 2.100000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001073

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.100000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 704.000000ms

Start solving for TOmega 2.110000e-02

Assembling matrices for Time 2.110000e-02

Assembling matrices for Time 2.110000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.110000e-02

Solving matrices for Time 2.110000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001065

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.110000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 687.000000ms

Start solving for TOmega 2.120000e-02

Assembling matrices for Time 2.120000e-02

Assembling matrices for Time 2.120000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.120000e-02

Solving matrices for Time 2.120000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001076

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.120000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 705.000000ms

Start solving for TOmega 2.130000e-02

Assembling matrices for Time 2.130000e-02

Assembling matrices for Time 2.130000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.130000e-02

Solving matrices for Time2.130000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001072

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.130000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 682.000000ms

Start solving for TOmega 2.140000e-02

Assembling matrices for Time 2.140000e-02

Assembling matrices for Time 2.140000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.140000e-02

Solving matrices for Time2.140000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001074

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.140000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 692.000000ms

Start solving for TOmega 2.150000e-02

Assembling matrices for Time 2.150000e-02

Assembling matrices for Time 2.150000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time2.150000e-02

Solving matrices for Time2.150000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001054

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.150000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 685.000000ms

Start solving for TOmega 2.160000e-02

Assembling matrices for Time 2.160000e-02

Assembling matrices for Time 2.160000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.160000e-02

Solving matrices for Time 2.160000e-02

Solver in progress...



>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001103

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.160000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 683.000000ms

Start solving for TOmega 2.170000e-02

Assembling matrices for Time 2.170000e-02

Assembling matrices for Time 2.170000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.170000e-02

Solving matrices for Time 2.170000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001058

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.170000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 33%

Estimated Time: 0:14:6

Remaining Time: 0:9:26

Available Memory(GB): 13.61

Current CPU Percentage: 51.49

Average cores per hour: 2.06

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 689.000000ms

Start solving for TOmega 2.180000e-02

Assembling matrices for Time 2.180000e-02

Assembling matrices for Time 2.180000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.180000e-02

Solving matrices for Time2.180000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001053

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.180000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 700.000000ms

Start solving for TOmega 2.190000e-02

Assembling matrices for Time 2.190000e-02

Assembling matrices for Time 2.190000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time2.190000e-02

Solving matrices for Time2.190000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001065

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.190000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 718.000000ms

Start solving for TOmega 2.200000e-02

Assembling matrices for Time 2.200000e-02

Assembling matrices for Time 2.200000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.200000e-02

Solving matrices for Time2.200000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001051

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.200000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 681.000000ms

Start solving for TOmega 2.210000e-02

Assembling matrices for Time 2.210000e-02

Assembling matrices for Time 2.210000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.210000e-02

Solving matrices for Time 2.210000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001054

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.210000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 717.000000ms

Start solving for TOmega 2.220000e-02

Assembling matrices for Time 2.220000e-02

Assembling matrices for Time 2.220000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.220000e-02

Solving matrices for Time2.220000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001082

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities



Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.220000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 694.000000ms

Start solving for TOmega 2.230000e-02

Assembling matrices for Time 2.230000e-02

Assembling matrices for Time 2.230000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.230000e-02

Solving matrices for Time2.230000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001068

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.230000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 691.000000ms

Start solving for TOmega 2.240000e-02

Assembling matrices for Time 2.240000e-02

Assembling matrices for Time 2.240000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.240000e-02

Solving matrices for Time 2.240000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001076

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.240000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 694.000000ms

Start solving for TOmega 2.250000e-02

Assembling matrices for Time 2.250000e-02

Assembling matrices for Time 2.250000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.250000e-02

Solving matrices for Time2.250000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001086

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.250000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 707.000000ms

Start solving for TOmega 2.260000e-02

Assembling matrices for Time 2.260000e-02

Assembling matrices for Time 2.260000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.260000e-02

Solving matrices for Time 2.260000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001079

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.260000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 700.000000ms

Start solving for TOmega 2.270000e-02

Assembling matrices for Time 2.270000e-02

Assembling matrices for Time 2.270000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.270000e-02

Solving matrices for Time2.270000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001115

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.270000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 681.000000ms

Start solving for TOmega 2.280000e-02

Assembling matrices for Time 2.280000e-02

Assembling matrices for Time 2.280000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.280000e-02

Solving matrices for Time2.280000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001055

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.280000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 698.000000ms

Start solving for TOmega 2.290000e-02

Assembling matrices for Time 2.290000e-02

Assembling matrices for Time 2.290000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time2.290000e-02

Solving matrices for Time2.290000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters



>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001104

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.290000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 701.000000ms

Start solving for TOmega 2.300000e-02

Assembling matrices for Time 2.300000e-02

Assembling matrices for Time 2.300000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.300000e-02

Solving matrices for Time 2.300000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001090

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.300000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 704.000000ms

Start solving for TOmega 2.310000e-02

Assembling matrices for Time 2.310000e-02

Assembling matrices for Time 2.310000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.310000e-02

Solving matrices for Time 2.310000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001093

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.310000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 712.000000ms

Start solving for TOmega 2.320000e-02

Assembling matrices for Time 2.320000e-02

Assembling matrices for Time 2.320000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.320000e-02

Solving matrices for Time2.320000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001085

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.320000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 702.000000ms

Start solving for TOmega 2.330000e-02

Assembling matrices for Time 2.330000e-02

Assembling matrices for Time 2.330000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.330000e-02

Solving matrices for Time2.330000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001066

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.330000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 35%

Estimated Time: 0:14:6

Remaining Time: 0:9:6

Available Memory(GB): 13.57

Current CPU Percentage: 51.76

Average cores per hour: 2.07

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 698.000000ms

Start solving for TOmega 2.340000e-02

Assembling matrices for Time 2.340000e-02

Assembling matrices for Time 2.340000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.340000e-02

Solving matrices for Time 2.340000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001056

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.340000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 656.000000ms

Start solving for TOmega 2.350000e-02

Assembling matrices for Time 2.350000e-02

Assembling matrices for Time 2.350000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time2.350000e-02

Solving matrices for Time2.350000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001083

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.350000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0



Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 723.000000ms

Start solving for TOmega 2.360000e-02

Assembling matrices for Time 2.360000e-02

Assembling matrices for Time 2.360000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.360000e-02

Solving matrices for Time2.360000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001115

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.360000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 739.000000ms

Start solving for TOmega 2.370000e-02

Assembling matrices for Time 2.370000e-02

Assembling matrices for Time 2.370000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.370000e-02

Solving matrices for Time2.370000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001071

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.370000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 675.000000ms

Start solving for TOmega 2.380000e-02

Assembling matrices for Time 2.380000e-02

Assembling matrices for Time 2.380000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time2.380000e-02

Solving matrices for Time2.380000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001069

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.380000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 709.000000ms

Start solving for TOmega 2.390000e-02

Assembling matrices for Time 2.390000e-02

Assembling matrices for Time 2.390000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.390000e-02

Solving matrices for Time 2.390000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001075

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.390000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 697.000000ms

Start solving for TOmega 2.400000e-02

Assembling matrices for Time 2.400000e-02

Assembling matrices for Time 2.400000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.400000e-02

Solving matrices for Time 2.400000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001068

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.400000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 688.000000ms

Start solving for TOmega 2.410000e-02

Assembling matrices for Time 2.410000e-02

Assembling matrices for Time 2.410000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.410000e-02

Solving matrices for Time2.410000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001071

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.410000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 690.000000ms

Start solving for TOmega 2.420000e-02

Assembling matrices for Time 2.420000e-02

Assembling matrices for Time 2.420000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.420000e-02

Solving matrices for Time2.420000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001070

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000



>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.420000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 707.000000ms

Start solving for TOmega 2.430000e-02

Assembling matrices for Time 2.430000e-02

Assembling matrices for Time 2.430000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.430000e-02

Solving matrices for Time 2.430000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001059

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.430000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 721.000000ms

Start solving for TOmega 2.440000e-02

Assembling matrices for Time 2.440000e-02

Assembling matrices for Time 2.440000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.440000e-02

Solving matrices for Time2.440000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001071

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.440000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 711.000000ms

Start solving for TOmega 2.450000e-02

Assembling matrices for Time 2.450000e-02

Assembling matrices for Time 2.450000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.450000e-02

Solving matrices for Time 2.450000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001116

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.450000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 694.000000ms

Start solving for TOmega 2.460000e-02

Assembling matrices for Time 2.460000e-02

Assembling matrices for Time 2.460000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.460000e-02

Solving matrices for Time2.460000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001107

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.460000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 701.000000ms

Start solving for TOmega 2.470000e-02

Assembling matrices for Time 2.470000e-02

Assembling matrices for Time 2.470000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.470000e-02

Solving matrices for Time2.470000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001066

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.470000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 726.000000ms

Start solving for TOmega 2.480000e-02

Assembling matrices for Time 2.480000e-02

Assembling matrices for Time 2.480000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.480000e-02

Solving matrices for Time 2.480000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001067

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.480000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 699.000000ms

Start solving for TOmega 2.490000e-02

Assembling matrices for Time 2.490000e-02

Assembling matrices for Time 2.490000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.490000e-02

Solving matrices for Time2.490000e-02

Solver in progress...



>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001073

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.490000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 37%

Estimated Time: 0:14:6

Remaining Time: 0:8:46

Available Memory(GB): 13.53

Current CPU Percentage: 51.47

Average cores per hour: 2.06

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 700.000000ms

Start solving for TOmega 2.500000e-02

Assembling matrices for Time 2.500000e-02

Assembling matrices for Time 2.500000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.500000e-02

Solving matrices for Time2.500000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001083

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.500000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 710.000000ms

Start solving for TOmega 2.510000e-02

Assembling matrices for Time 2.510000e-02

Assembling matrices for Time 2.510000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.510000e-02

Solving matrices for Time2.510000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001049

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.510000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 688.000000ms

Start solving for TOmega 2.520000e-02

Assembling matrices for Time 2.520000e-02

Assembling matrices for Time 2.520000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time2.520000e-02

Solving matrices for Time2.520000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001081

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.520000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 699.000000ms

Start solving for TOmega 2.530000e-02

Assembling matrices for Time 2.530000e-02

Assembling matrices for Time 2.530000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.530000e-02

Solving matrices for Time2.530000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001072

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.530000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 709.000000ms

Start solving for TOmega 2.540000e-02

Assembling matrices for Time 2.540000e-02

Assembling matrices for Time 2.540000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.540000e-02

Solving matrices for Time 2.540000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001091

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.540000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 711.000000ms

Start solving for TOmega 2.550000e-02

Assembling matrices for Time 2.550000e-02

Assembling matrices for Time 2.550000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.550000e-02

Solving matrices for Time2.550000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001067

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities



Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.550000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 691.000000ms

Start solving for TOmega 2.560000e-02

Assembling matrices for Time 2.560000e-02

Assembling matrices for Time 2.560000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.560000e-02

Solving matrices for Time2.560000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001068

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.560000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 703.000000ms

Start solving for TOmega 2.570000e-02

Assembling matrices for Time 2.570000e-02

Assembling matrices for Time 2.570000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.570000e-02

Solving matrices for Time 2.570000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001075

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.570000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 707.000000ms

Start solving for TOmega 2.580000e-02

Assembling matrices for Time 2.580000e-02

Assembling matrices for Time 2.580000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time2.580000e-02

Solving matrices for Time2.580000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001045

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.580000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 718.000000ms

Start solving for TOmega 2.590000e-02

Assembling matrices for Time 2.590000e-02

Assembling matrices for Time 2.590000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.590000e-02

Solving matrices for Time 2.590000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001046

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.590000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 697.000000ms

Start solving for TOmega 2.600000e-02

Assembling matrices for Time 2.600000e-02

Assembling matrices for Time 2.600000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.600000e-02

Solving matrices for Time2.600000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001064

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.600000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 695.000000ms

Start solving for TOmega 2.610000e-02

Assembling matrices for Time 2.610000e-02

Assembling matrices for Time 2.610000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.610000e-02

Solving matrices for Time2.610000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001080

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.610000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 706.000000ms

Start solving for TOmega 2.620000e-02

Assembling matrices for Time 2.620000e-02

Assembling matrices for Time 2.620000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.620000e-02

Solving matrices for Time 2.620000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters



>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001081

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.620000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 714.000000ms

Start solving for TOmega 2.630000e-02

Assembling matrices for Time 2.630000e-02

Assembling matrices for Time 2.630000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.630000e-02

Solving matrices for Time2.630000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001105

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.630000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 696.000000ms

Start solving for TOmega 2.640000e-02

Assembling matrices for Time 2.640000e-02

Assembling matrices for Time 2.640000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.640000e-02

Solving matrices for Time 2.640000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001068

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.640000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 696.000000ms

Start solving for TOmega 2.650000e-02

Assembling matrices for Time 2.650000e-02

Assembling matrices for Time 2.650000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.650000e-02

Solving matrices for Time2.650000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001056

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.650000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 40%

Estimated Time: 0:14:6

Remaining Time: 0:8:26

Available Memory(GB): 13.48

Current CPU Percentage: 51.51

Average cores per hour: 2.06

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 687.000000ms

Start solving for TOmega 2.660000e-02

Assembling matrices for Time 2.660000e-02

Assembling matrices for Time 2.660000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.660000e-02

Solving matrices for Time2.660000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001066

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.660000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 697.000000ms

Start solving for TOmega 2.670000e-02

Assembling matrices for Time 2.670000e-02

Assembling matrices for Time 2.670000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.670000e-02

Solving matrices for Time2.670000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001073

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.670000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 686.000000ms

Start solving for TOmega 2.680000e-02

Assembling matrices for Time 2.680000e-02

Assembling matrices for Time 2.680000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.680000e-02

Solving matrices for Time 2.680000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001042

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.680000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0



Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 705.000000ms

Start solving for TOmega 2.690000e-02

Assembling matrices for Time 2.690000e-02

Assembling matrices for Time 2.690000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.690000e-02

Solving matrices for Time2.690000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001077

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.690000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 673.000000ms

Start solving for TOmega 2.700000e-02

Assembling matrices for Time 2.700000e-02

Assembling matrices for Time 2.700000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.700000e-02

Solving matrices for Time2.700000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001057

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.700000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 714.000000ms

Start solving for TOmega 2.710000e-02

Assembling matrices for Time 2.710000e-02

Assembling matrices for Time 2.710000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.710000e-02

Solving matrices for Time 2.710000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001089

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.710000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 674.000000ms

Start solving for TOmega 2.720000e-02

Assembling matrices for Time 2.720000e-02

Assembling matrices for Time 2.720000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.720000e-02

Solving matrices for Time 2.720000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001088

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.720000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 666.000000ms

Start solving for TOmega 2.730000e-02

Assembling matrices for Time 2.730000e-02

Assembling matrices for Time 2.730000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.730000e-02

Solving matrices for Time 2.730000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001103

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.730000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 715.000000ms

Start solving for TOmega 2.740000e-02

Assembling matrices for Time 2.740000e-02

Assembling matrices for Time 2.740000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.740000e-02

Solving matrices for Time2.740000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001069

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.740000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 729.000000ms

Start solving for TOmega 2.750000e-02

Assembling matrices for Time 2.750000e-02

Assembling matrices for Time 2.750000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.750000e-02

Solving matrices for Time2.750000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001089

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000



>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.750000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 704.000000ms

Start solving for TOmega 2.760000e-02

Assembling matrices for Time 2.760000e-02

Assembling matrices for Time 2.760000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.760000e-02

Solving matrices for Time 2.760000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001101

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.760000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 697.000000ms

Start solving for TOmega 2.770000e-02

Assembling matrices for Time 2.770000e-02

Assembling matrices for Time 2.770000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.770000e-02

Solving matrices for Time2.770000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001069

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.770000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 702.000000ms

Start solving for TOmega 2.780000e-02

Assembling matrices for Time 2.780000e-02

Assembling matrices for Time 2.780000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.780000e-02

Solving matrices for Time 2.780000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001086

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.780000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 726.000000ms

Start solving for TOmega 2.790000e-02

Assembling matrices for Time 2.790000e-02

Assembling matrices for Time 2.790000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.790000e-02

Solving matrices for Time2.790000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001058

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.790000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 681.000000ms

Start solving for TOmega 2.800000e-02

Assembling matrices for Time 2.800000e-02

Assembling matrices for Time 2.800000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.800000e-02

Solving matrices for Time2.800000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001067

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.800000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 708.000000ms

Start solving for TOmega 2.810000e-02

Assembling matrices for Time 2.810000e-02

Assembling matrices for Time 2.810000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.810000e-02

Solving matrices for Time 2.810000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001099

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.810000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 42%

Estimated Time: 0:14:6

Remaining Time: 0:8:6

Available Memory(GB): 13.44

Current CPU Percentage: 51.62

Average cores per hour: 2.06

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 698.000000ms

Start solving for TOmega 2.820000e-02

Assembling matrices for Time 2.820000e-02

Assembling matrices for Time 2.820000e-02



CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.820000e-02

Solving matrices for Time 2.820000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001058

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.820000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 683.000000ms

Start solving for TOmega 2.830000e-02

Assembling matrices for Time 2.830000e-02

Assembling matrices for Time 2.830000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.830000e-02

Solving matrices for Time2.830000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001061

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.830000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 685.000000ms

Start solving for TOmega 2.840000e-02

Assembling matrices for Time 2.840000e-02

Assembling matrices for Time 2.840000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.840000e-02

Solving matrices for Time2.840000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001115

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.840000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 689.000000ms

Start solving for TOmega 2.850000e-02

Assembling matrices for Time 2.850000e-02

Assembling matrices for Time 2.850000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time2.850000e-02

Solving matrices for Time2.850000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001097

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.850000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 684.000000ms

Start solving for TOmega 2.860000e-02

Assembling matrices for Time 2.860000e-02

Assembling matrices for Time 2.860000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.860000e-02

Solving matrices for Time 2.860000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001086

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.860000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 682.000000ms

Start solving for TOmega 2.870000e-02

Assembling matrices for Time 2.870000e-02

Assembling matrices for Time 2.870000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.870000e-02

Solving matrices for Time 2.870000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001063

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.870000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 674.000000ms

Start solving for TOmega 2.880000e-02

Assembling matrices for Time 2.880000e-02

Assembling matrices for Time 2.880000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.880000e-02

Solving matrices for Time2.880000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001085

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities



Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.880000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 740.000000ms

Start solving for TOmega 2.890000e-02

Assembling matrices for Time 2.890000e-02

Assembling matrices for Time 2.890000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.890000e-02

Solving matrices for Time2.890000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001068

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.890000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 694.000000ms

Start solving for TOmega 2.900000e-02

Assembling matrices for Time 2.900000e-02

Assembling matrices for Time 2.900000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time2.900000e-02

Solving matrices for Time2.900000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001058

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.900000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 703.000000ms

Start solving for TOmega 2.910000e-02

Assembling matrices for Time 2.910000e-02

Assembling matrices for Time 2.910000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.910000e-02

Solving matrices for Time 2.910000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001067

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.910000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 730.000000ms

Start solving for TOmega 2.920000e-02

Assembling matrices for Time 2.920000e-02

Assembling matrices for Time 2.920000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 2.920000e-02

Solving matrices for Time 2.920000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001066

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.920000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 674.000000ms

Start solving for TOmega 2.930000e-02

Assembling matrices for Time 2.930000e-02

Assembling matrices for Time 2.930000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.930000e-02

Solving matrices for Time2.930000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001093

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.930000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 674.000000ms

Start solving for TOmega 2.940000e-02

Assembling matrices for Time 2.940000e-02

Assembling matrices for Time 2.940000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.940000e-02

Solving matrices for Time2.940000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001087

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.940000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 709.000000ms

Start solving for TOmega 2.950000e-02

Assembling matrices for Time 2.950000e-02

Assembling matrices for Time 2.950000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time2.950000e-02

Solving matrices for Time2.950000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters



>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001043

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.950000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 706.000000ms

Start solving for TOmega 2.960000e-02

Assembling matrices for Time 2.960000e-02

Assembling matrices for Time 2.960000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time2.960000e-02

Solving matrices for Time2.960000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001125

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.960000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 708.000000ms

Start solving for TOmega 2.970000e-02

Assembling matrices for Time 2.970000e-02

Assembling matrices for Time 2.970000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time2.970000e-02

Solving matrices for Time2.970000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001079

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.970000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 44%

Estimated Time: 0:14:6

Remaining Time: 0:7:46

Available Memory(GB): 13.40

Current CPU Percentage: 51.48

Average cores per hour: 2.06

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 719.000000ms

Start solving for TOmega 2.980000e-02

Assembling matrices for Time 2.980000e-02

Assembling matrices for Time 2.980000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time2.980000e-02

Solving matrices for Time2.980000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001153

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.980000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 702.000000ms

Start solving for TOmega 2.990000e-02

Assembling matrices for Time 2.990000e-02

Assembling matrices for Time 2.990000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time2.990000e-02

Solving matrices for Time2.990000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001071

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 2.990000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 708.000000ms

Start solving for TOmega 3.000000e-02

Assembling matrices for Time 3.000000e-02

Assembling matrices for Time 3.000000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.000000e-02

Solving matrices for Time3.000000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001064

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.000000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 691.000000ms

Start solving for TOmega 3.010000e-02

Assembling matrices for Time 3.010000e-02

Assembling matrices for Time 3.010000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.010000e-02

Solving matrices for Time3.010000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001052

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.010000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0



Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 716.000000ms

Start solving for TOmega 3.020000e-02

Assembling matrices for Time 3.020000e-02

Assembling matrices for Time 3.020000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.020000e-02

Solving matrices for Time3.020000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001076

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.020000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 731.000000ms

Start solving for TOmega 3.030000e-02

Assembling matrices for Time 3.030000e-02

Assembling matrices for Time 3.030000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.030000e-02

Solving matrices for Time3.030000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001086

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.030000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 692.000000ms

Start solving for TOmega 3.040000e-02

Assembling matrices for Time 3.040000e-02

Assembling matrices for Time 3.040000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.040000e-02

Solving matrices for Time3.040000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001074

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.040000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 713.000000ms

Start solving for TOmega 3.050000e-02

Assembling matrices for Time 3.050000e-02

Assembling matrices for Time 3.050000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.050000e-02

Solving matrices for Time3.050000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001054

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.050000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 712.000000ms

Start solving for TOmega 3.060000e-02

Assembling matrices for Time 3.060000e-02

Assembling matrices for Time 3.060000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.060000e-02

Solving matrices for Time3.060000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001086

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.060000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 691.000000ms

Start solving for TOmega 3.070000e-02

Assembling matrices for Time 3.070000e-02

Assembling matrices for Time 3.070000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.070000e-02

Solving matrices for Time3.070000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001072

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.070000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 690.000000ms

Start solving for TOmega 3.080000e-02

Assembling matrices for Time 3.080000e-02

Assembling matrices for Time 3.080000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.080000e-02

Solving matrices for Time3.080000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001081

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000



>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.080000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 737.000000ms

Start solving for TOmega 3.090000e-02

Assembling matrices for Time 3.090000e-02

Assembling matrices for Time 3.090000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.090000e-02

Solving matrices for Time3.090000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001080

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.090000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 707.000000ms

Start solving for TOmega 3.100000e-02

Assembling matrices for Time 3.100000e-02

Assembling matrices for Time 3.100000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.100000e-02

Solving matrices for Time3.100000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001091

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.100000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 715.000000ms

Start solving for TOmega 3.110000e-02

Assembling matrices for Time 3.110000e-02

Assembling matrices for Time 3.110000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 3.110000e-02

Solving matrices for Time 3.110000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001075

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.110000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 676.000000ms

Start solving for TOmega 3.120000e-02

Assembling matrices for Time 3.120000e-02

Assembling matrices for Time 3.120000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.120000e-02

Solving matrices for Time3.120000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001063

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.120000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 676.000000ms

Start solving for TOmega 3.130000e-02

Assembling matrices for Time 3.130000e-02

Assembling matrices for Time 3.130000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.130000e-02

Solving matrices for Time3.130000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001075

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.130000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 47%

Estimated Time: 0:14:6

Remaining Time: 0:7:26

Available Memory(GB): 13.36

Current CPU Percentage: 51.52

Average cores per hour: 2.06

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 702.000000ms

Start solving for TOmega 3.140000e-02

Assembling matrices for Time 3.140000e-02

Assembling matrices for Time 3.140000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 3.140000e-02

Solving matrices for Time 3.140000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001073

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.140000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 695.000000ms

Start solving for TOmega 3.150000e-02

Assembling matrices for Time 3.150000e-02

Assembling matrices for Time 3.150000e-02



CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.150000e-02

Solving matrices for Time3.150000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001063

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.150000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 730.000000ms

Start solving for TOmega 3.160000e-02

Assembling matrices for Time 3.160000e-02

Assembling matrices for Time 3.160000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.160000e-02

Solving matrices for Time3.160000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001057

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.160000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 667.000000ms

Start solving for TOmega 3.170000e-02

Assembling matrices for Time 3.170000e-02

Assembling matrices for Time 3.170000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.170000e-02

Solving matrices for Time3.170000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001082

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.170000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 692.000000ms

Start solving for TOmega 3.180000e-02

Assembling matrices for Time 3.180000e-02

Assembling matrices for Time 3.180000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.180000e-02

Solving matrices for Time3.180000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001056

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.180000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 759.000000ms

Start solving for TOmega 3.190000e-02

Assembling matrices for Time 3.190000e-02

Assembling matrices for Time 3.190000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.190000e-02

Solving matrices for Time3.190000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001058

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.190000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 714.000000ms

Start solving for TOmega 3.200000e-02

Assembling matrices for Time 3.200000e-02

Assembling matrices for Time 3.200000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.200000e-02

Solving matrices for Time3.200000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001079

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.200000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 686.000000ms

Start solving for TOmega 3.210000e-02

Assembling matrices for Time 3.210000e-02

Assembling matrices for Time 3.210000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.210000e-02

Solving matrices for Time3.210000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001069

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities



Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.210000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 705.000000ms

Start solving for TOmega 3.220000e-02

Assembling matrices for Time 3.220000e-02

Assembling matrices for Time 3.220000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.220000e-02

Solving matrices for Time3.220000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001109

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.220000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 716.000000ms

Start solving for TOmega 3.230000e-02

Assembling matrices for Time 3.230000e-02

Assembling matrices for Time 3.230000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.230000e-02

Solving matrices for Time3.230000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001084

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.230000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 708.000000ms

Start solving for TOmega 3.240000e-02

Assembling matrices for Time 3.240000e-02

Assembling matrices for Time 3.240000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.240000e-02

Solving matrices for Time3.240000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001068

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.240000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 697.000000ms

Start solving for TOmega 3.250000e-02

Assembling matrices for Time 3.250000e-02

Assembling matrices for Time 3.250000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.250000e-02

Solving matrices for Time3.250000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001056

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.250000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 704.000000ms

Start solving for TOmega 3.260000e-02

Assembling matrices for Time 3.260000e-02

Assembling matrices for Time 3.260000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.260000e-02

Solving matrices for Time3.260000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001071

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.260000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 702.000000ms

Start solving for TOmega 3.270000e-02

Assembling matrices for Time 3.270000e-02

Assembling matrices for Time 3.270000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.270000e-02

Solving matrices for Time3.270000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001076

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.270000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 710.000000ms

Start solving for TOmega 3.280000e-02

Assembling matrices for Time 3.280000e-02

Assembling matrices for Time 3.280000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.280000e-02

Solving matrices for Time3.280000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters



>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001055

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.280000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 685.000000ms

Start solving for TOmega 3.290000e-02

Assembling matrices for Time 3.290000e-02

Assembling matrices for Time 3.290000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.290000e-02

Solving matrices for Time3.290000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001084

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.290000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 49%

Estimated Time: 0:14:6

Remaining Time: 0:7:6

Available Memory(GB): 13.31

Current CPU Percentage: 51.22

Average cores per hour: 2.05

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 694.000000ms

Start solving for TOmega 3.300000e-02

Assembling matrices for Time 3.300000e-02

Assembling matrices for Time 3.300000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.300000e-02

Solving matrices for Time3.300000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001074

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.300000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 739.000000ms

Start solving for TOmega 3.310000e-02

Assembling matrices for Time 3.310000e-02

Assembling matrices for Time 3.310000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.310000e-02

Solving matrices for Time3.310000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001086

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.310000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 679.000000ms

Start solving for TOmega 3.320000e-02

Assembling matrices for Time 3.320000e-02

Assembling matrices for Time 3.320000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.320000e-02

Solving matrices for Time3.320000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001084

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.320000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 694.000000ms

Start solving for TOmega 3.330000e-02

Assembling matrices for Time 3.330000e-02

Assembling matrices for Time 3.330000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.330000e-02

Solving matrices for Time3.330000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001136

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.330000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 720.000000ms

Start solving for TOmega 3.340000e-02

Assembling matrices for Time 3.340000e-02

Assembling matrices for Time 3.340000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.340000e-02

Solving matrices for Time3.340000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001059

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.340000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0



Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 683.000000ms

Start solving for TOmega 3.350000e-02

Assembling matrices for Time 3.350000e-02

Assembling matrices for Time 3.350000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.350000e-02

Solving matrices for Time3.350000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001060

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.350000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 713.000000ms

Start solving for TOmega 3.360000e-02

Assembling matrices for Time 3.360000e-02

Assembling matrices for Time 3.360000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.360000e-02

Solving matrices for Time3.360000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001036

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.360000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 718.000000ms

Start solving for TOmega 3.370000e-02

Assembling matrices for Time 3.370000e-02

Assembling matrices for Time 3.370000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.370000e-02

Solving matrices for Time3.370000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001106

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.370000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 705.000000ms

Start solving for TOmega 3.380000e-02

Assembling matrices for Time 3.380000e-02

Assembling matrices for Time 3.380000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.380000e-02

Solving matrices for Time3.380000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001061

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.380000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 729.000000ms

Start solving for TOmega 3.390000e-02

Assembling matrices for Time 3.390000e-02

Assembling matrices for Time 3.390000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.390000e-02

Solving matrices for Time3.390000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001052

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.390000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 700.000000ms

Start solving for TOmega 3.400000e-02

Assembling matrices for Time 3.400000e-02

Assembling matrices for Time 3.400000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.400000e-02

Solving matrices for Time3.400000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001066

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.400000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 692.000000ms

Start solving for TOmega 3.410000e-02

Assembling matrices for Time 3.410000e-02

Assembling matrices for Time 3.410000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.410000e-02

Solving matrices for Time3.410000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001070

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000



>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.410000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 695.000000ms

Start solving for TOmega 3.420000e-02

Assembling matrices for Time 3.420000e-02

Assembling matrices for Time 3.420000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.420000e-02

Solving matrices for Time3.420000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001069

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.420000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 703.000000ms

Start solving for TOmega 3.430000e-02

Assembling matrices for Time 3.430000e-02

Assembling matrices for Time 3.430000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.430000e-02

Solving matrices for Time3.430000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001083

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.430000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 691.000000ms

Start solving for TOmega 3.440000e-02

Assembling matrices for Time 3.440000e-02

Assembling matrices for Time 3.440000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.440000e-02

Solving matrices for Time3.440000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001072

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.440000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 689.000000ms

Start solving for TOmega 3.450000e-02

Assembling matrices for Time 3.450000e-02

Assembling matrices for Time 3.450000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.450000e-02

Solving matrices for Time3.450000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001059

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.450000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 52%

Estimated Time: 0:14:6

Remaining Time: 0:6:46

Available Memory(GB): 13.27

Current CPU Percentage: 51.50

Average cores per hour: 2.06

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 694.000000ms

Start solving for TOmega 3.460000e-02

Assembling matrices for Time 3.460000e-02

Assembling matrices for Time 3.460000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.460000e-02

Solving matrices for Time3.460000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001095

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.460000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 696.000000ms

Start solving for TOmega 3.470000e-02

Assembling matrices for Time 3.470000e-02

Assembling matrices for Time 3.470000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.470000e-02

Solving matrices for Time3.470000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001084

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.470000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 695.000000ms

Start solving for TOmega 3.480000e-02

Assembling matrices for Time 3.480000e-02

Assembling matrices for Time 3.480000e-02



CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.480000e-02

Solving matrices for Time3.480000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001079

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.480000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 706.000000ms

Start solving for TOmega 3.490000e-02

Assembling matrices for Time 3.490000e-02

Assembling matrices for Time 3.490000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.490000e-02

Solving matrices for Time3.490000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001061

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.490000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 723.000000ms

Start solving for TOmega 3.500000e-02

Assembling matrices for Time 3.500000e-02

Assembling matrices for Time 3.500000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.500000e-02

Solving matrices for Time3.500000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001079

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.500000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 715.000000ms

Start solving for TOmega 3.510000e-02

Assembling matrices for Time 3.510000e-02

Assembling matrices for Time 3.510000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.510000e-02

Solving matrices for Time3.510000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001048

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.510000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 681.000000ms

Start solving for TOmega 3.520000e-02

Assembling matrices for Time 3.520000e-02

Assembling matrices for Time 3.520000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.520000e-02

Solving matrices for Time3.520000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001045

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.520000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 716.000000ms

Start solving for TOmega 3.530000e-02

Assembling matrices for Time 3.530000e-02

Assembling matrices for Time 3.530000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.530000e-02

Solving matrices for Time3.530000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001063

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.530000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 705.000000ms

Start solving for TOmega 3.540000e-02

Assembling matrices for Time 3.540000e-02

Assembling matrices for Time 3.540000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.540000e-02

Solving matrices for Time3.540000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001068

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities



Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.540000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 716.000000ms

Start solving for TOmega 3.550000e-02

Assembling matrices for Time 3.550000e-02

Assembling matrices for Time 3.550000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.550000e-02

Solving matrices for Time3.550000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001087

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.550000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 705.000000ms

Start solving for TOmega 3.560000e-02

Assembling matrices for Time 3.560000e-02

Assembling matrices for Time 3.560000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.560000e-02

Solving matrices for Time3.560000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001053

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.560000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 679.000000ms

Start solving for TOmega 3.570000e-02

Assembling matrices for Time 3.570000e-02

Assembling matrices for Time 3.570000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.570000e-02

Solving matrices for Time3.570000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001098

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.570000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 708.000000ms

Start solving for TOmega 3.580000e-02

Assembling matrices for Time 3.580000e-02

Assembling matrices for Time 3.580000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.580000e-02

Solving matrices for Time3.580000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001062

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.580000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 679.000000ms

Start solving for TOmega 3.590000e-02

Assembling matrices for Time 3.590000e-02

Assembling matrices for Time 3.590000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.590000e-02

Solving matrices for Time3.590000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001085

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.590000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 688.000000ms

Start solving for TOmega 3.600000e-02

Assembling matrices for Time 3.600000e-02

Assembling matrices for Time 3.600000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.600000e-02

Solving matrices for Time3.600000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001111

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.600000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 701.000000ms

Start solving for TOmega 3.610000e-02

Assembling matrices for Time 3.610000e-02

Assembling matrices for Time 3.610000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.610000e-02

Solving matrices for Time3.610000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters



>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001071

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.610000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 54%

Estimated Time: 0:14:6

Remaining Time: 0:6:26

Available Memory(GB): 13.24

Current CPU Percentage: 51.58

Average cores per hour: 2.06

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 702.000000ms

Start solving for TOmega 3.620000e-02

Assembling matrices for Time 3.620000e-02

Assembling matrices for Time 3.620000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.620000e-02

Solving matrices for Time3.620000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001086

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.620000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 707.000000ms

Start solving for TOmega 3.630000e-02

Assembling matrices for Time 3.630000e-02

Assembling matrices for Time 3.630000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.630000e-02

Solving matrices for Time3.630000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001076

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.630000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 644.000000ms

Start solving for TOmega 3.640000e-02

Assembling matrices for Time 3.640000e-02

Assembling matrices for Time 3.640000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.640000e-02

Solving matrices for Time3.640000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001053

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.640000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 693.000000ms

Start solving for TOmega 3.650000e-02

Assembling matrices for Time 3.650000e-02

Assembling matrices for Time 3.650000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.650000e-02

Solving matrices for Time3.650000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001043

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.650000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 669.000000ms

Start solving for TOmega 3.660000e-02

Assembling matrices for Time 3.660000e-02

Assembling matrices for Time 3.660000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.660000e-02

Solving matrices for Time3.660000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001069

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.660000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 674.000000ms

Start solving for TOmega 3.670000e-02

Assembling matrices for Time 3.670000e-02

Assembling matrices for Time 3.670000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.670000e-02

Solving matrices for Time3.670000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001110

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.670000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0



Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 705.000000ms

Start solving for TOmega 3.680000e-02

Assembling matrices for Time 3.680000e-02

Assembling matrices for Time 3.680000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.680000e-02

Solving matrices for Time3.680000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001078

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.680000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 699.000000ms

Start solving for TOmega 3.690000e-02

Assembling matrices for Time 3.690000e-02

Assembling matrices for Time 3.690000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.690000e-02

Solving matrices for Time3.690000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001110

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.690000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 690.000000ms

Start solving for TOmega 3.700000e-02

Assembling matrices for Time 3.700000e-02

Assembling matrices for Time 3.700000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.700000e-02

Solving matrices for Time3.700000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001064

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.700000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 681.000000ms

Start solving for TOmega 3.710000e-02

Assembling matrices for Time 3.710000e-02

Assembling matrices for Time 3.710000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.710000e-02

Solving matrices for Time3.710000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001098

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.710000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 695.000000ms

Start solving for TOmega 3.720000e-02

Assembling matrices for Time 3.720000e-02

Assembling matrices for Time 3.720000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.720000e-02

Solving matrices for Time3.720000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001061

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.720000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 684.000000ms

Start solving for TOmega 3.730000e-02

Assembling matrices for Time 3.730000e-02

Assembling matrices for Time 3.730000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.730000e-02

Solving matrices for Time3.730000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001047

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.730000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 698.000000ms

Start solving for TOmega 3.740000e-02

Assembling matrices for Time 3.740000e-02

Assembling matrices for Time 3.740000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.740000e-02

Solving matrices for Time3.740000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001081

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000



>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.740000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 686.000000ms

Start solving for TOmega 3.750000e-02

Assembling matrices for Time 3.750000e-02

Assembling matrices for Time 3.750000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.750000e-02

Solving matrices for Time3.750000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001090

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.750000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 686.000000ms

Start solving for TOmega 3.760000e-02

Assembling matrices for Time 3.760000e-02

Assembling matrices for Time 3.760000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.760000e-02

Solving matrices for Time3.760000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001081

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.760000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 722.000000ms

Start solving for TOmega 3.770000e-02

Assembling matrices for Time 3.770000e-02

Assembling matrices for Time 3.770000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.770000e-02

Solving matrices for Time3.770000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001070

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.770000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 56%

Estimated Time: 0:14:6

Remaining Time: 0:6:6

Available Memory(GB): 13.20

Current CPU Percentage: 51.59

Average cores per hour: 2.06

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 718.000000ms

Start solving for TOmega 3.780000e-02

Assembling matrices for Time 3.780000e-02

Assembling matrices for Time 3.780000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.780000e-02

Solving matrices for Time3.780000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001075

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.780000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 672.000000ms

Start solving for TOmega 3.790000e-02

Assembling matrices for Time 3.790000e-02

Assembling matrices for Time 3.790000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.790000e-02

Solving matrices for Time3.790000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001086

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.790000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 690.000000ms

Start solving for TOmega 3.800000e-02

Assembling matrices for Time 3.800000e-02

Assembling matrices for Time 3.800000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.800000e-02

Solving matrices for Time3.800000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001088

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.800000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 682.000000ms

Start solving for TOmega 3.810000e-02

Assembling matrices for Time 3.810000e-02

Assembling matrices for Time 3.810000e-02



CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.810000e-02

Solving matrices for Time3.810000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001098

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.810000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 701.000000ms

Start solving for TOmega 3.820000e-02

Assembling matrices for Time 3.820000e-02

Assembling matrices for Time 3.820000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.820000e-02

Solving matrices for Time3.820000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001077

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.820000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 675.000000ms

Start solving for TOmega 3.830000e-02

Assembling matrices for Time 3.830000e-02

Assembling matrices for Time 3.830000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.830000e-02

Solving matrices for Time3.830000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001048

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.830000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 705.000000ms

Start solving for TOmega 3.840000e-02

Assembling matrices for Time 3.840000e-02

Assembling matrices for Time 3.840000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.840000e-02

Solving matrices for Time3.840000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001072

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.840000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 695.000000ms

Start solving for TOmega 3.850000e-02

Assembling matrices for Time 3.850000e-02

Assembling matrices for Time 3.850000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.850000e-02

Solving matrices for Time3.850000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001074

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.850000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 679.000000ms

Start solving for TOmega 3.860000e-02

Assembling matrices for Time 3.860000e-02

Assembling matrices for Time 3.860000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.860000e-02

Solving matrices for Time3.860000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001097

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.860000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 695.000000ms

Start solving for TOmega 3.870000e-02

Assembling matrices for Time 3.870000e-02

Assembling matrices for Time 3.870000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.870000e-02

Solving matrices for Time3.870000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001078

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities



Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.870000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 711.000000ms

Start solving for TOmega 3.880000e-02

Assembling matrices for Time 3.880000e-02

Assembling matrices for Time 3.880000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.880000e-02

Solving matrices for Time3.880000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001045

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.880000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 722.000000ms

Start solving for TOmega 3.890000e-02

Assembling matrices for Time 3.890000e-02

Assembling matrices for Time 3.890000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.890000e-02

Solving matrices for Time3.890000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001060

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.890000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 692.000000ms

Start solving for TOmega 3.900000e-02

Assembling matrices for Time 3.900000e-02

Assembling matrices for Time 3.900000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.900000e-02

Solving matrices for Time3.900000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001055

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.900000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 687.000000ms

Start solving for TOmega 3.910000e-02

Assembling matrices for Time 3.910000e-02

Assembling matrices for Time 3.910000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.910000e-02

Solving matrices for Time3.910000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001084

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.910000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 664.000000ms

Start solving for TOmega 3.920000e-02

Assembling matrices for Time 3.920000e-02

Assembling matrices for Time 3.920000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.920000e-02

Solving matrices for Time3.920000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001124

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.920000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 667.000000ms

Start solving for TOmega 3.930000e-02

Assembling matrices for Time 3.930000e-02

Assembling matrices for Time 3.930000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.930000e-02

Solving matrices for Time3.930000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001084

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.930000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 696.000000ms

Start solving for TOmega 3.940000e-02

Assembling matrices for Time 3.940000e-02

Assembling matrices for Time 3.940000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.940000e-02

Solving matrices for Time3.940000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters



>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001051

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Progress: 59%

Estimated Time: 0:14:6

Remaining Time: 0:5:46

Available Memory(GB): 13.15

Current CPU Percentage: 52.04

Average cores per hour: 2.08

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.940000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 689.000000ms

Start solving for TOmega 3.950000e-02

Assembling matrices for Time 3.950000e-02

Assembling matrices for Time 3.950000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.950000e-02

Solving matrices for Time3.950000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001100

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.950000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 699.000000ms

Start solving for TOmega 3.960000e-02

Assembling matrices for Time 3.960000e-02

Assembling matrices for Time 3.960000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.960000e-02

Solving matrices for Time3.960000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001079

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.960000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 685.000000ms

Start solving for TOmega 3.970000e-02

Assembling matrices for Time 3.970000e-02

Assembling matrices for Time 3.970000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time3.970000e-02

Solving matrices for Time3.970000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001069

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.970000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 746.000000ms

Start solving for TOmega 3.980000e-02

Assembling matrices for Time 3.980000e-02

Assembling matrices for Time 3.980000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.980000e-02

Solving matrices for Time3.980000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001065

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.980000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 676.000000ms

Start solving for TOmega 3.990000e-02

Assembling matrices for Time 3.990000e-02

Assembling matrices for Time 3.990000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time3.990000e-02

Solving matrices for Time3.990000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001113

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 3.990000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 700.000000ms

Start solving for TOmega 4.000000e-02

Assembling matrices for Time 4.000000e-02

Assembling matrices for Time 4.000000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.000000e-02

Solving matrices for Time4.000000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001059

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.000000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0



Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 740.000000ms

Start solving for TOmega 4.010000e-02

Assembling matrices for Time 4.010000e-02

Assembling matrices for Time 4.010000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.010000e-02

Solving matrices for Time4.010000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001082

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.010000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 647.000000ms

Start solving for TOmega 4.020000e-02

Assembling matrices for Time 4.020000e-02

Assembling matrices for Time 4.020000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.020000e-02

Solving matrices for Time4.020000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001074

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.020000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 707.000000ms

Start solving for TOmega 4.030000e-02

Assembling matrices for Time 4.030000e-02

Assembling matrices for Time 4.030000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.030000e-02

Solving matrices for Time4.030000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001079

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.030000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 661.000000ms

Start solving for TOmega 4.040000e-02

Assembling matrices for Time 4.040000e-02

Assembling matrices for Time 4.040000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 4.040000e-02

Solving matrices for Time 4.040000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001129

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.040000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 710.000000ms

Start solving for TOmega 4.050000e-02

Assembling matrices for Time 4.050000e-02

Assembling matrices for Time 4.050000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.050000e-02

Solving matrices for Time4.050000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001061

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.050000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 752.000000ms

Start solving for TOmega 4.060000e-02

Assembling matrices for Time 4.060000e-02

Assembling matrices for Time 4.060000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.060000e-02

Solving matrices for Time4.060000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001066

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.060000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 695.000000ms

Start solving for TOmega 4.070000e-02

Assembling matrices for Time 4.070000e-02

Assembling matrices for Time 4.070000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.070000e-02

Solving matrices for Time4.070000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001072

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000



>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.070000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 703.000000ms

Start solving for TOmega 4.080000e-02

Assembling matrices for Time 4.080000e-02

Assembling matrices for Time 4.080000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.080000e-02

Solving matrices for Time4.080000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001077

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.080000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 723.000000ms

Start solving for TOmega 4.090000e-02

Assembling matrices for Time 4.090000e-02

Assembling matrices for Time 4.090000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.090000e-02

Solving matrices for Time4.090000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001042

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.090000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 722.000000ms

Start solving for TOmega 4.100000e-02

Assembling matrices for Time 4.100000e-02

Assembling matrices for Time 4.100000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.100000e-02

Solving matrices for Time4.100000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001077

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Progress: 61%

Estimated Time: 0:14:6

Remaining Time: 0:5:26

Available Memory(GB): 13.10

Current CPU Percentage: 51.49

Average cores per hour: 2.06

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.100000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 685.000000ms

Start solving for TOmega 4.110000e-02

Assembling matrices for Time 4.110000e-02

Assembling matrices for Time 4.110000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.110000e-02

Solving matrices for Time4.110000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001053

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.110000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 569.000000ms

Start solving for TOmega 4.120000e-02

Assembling matrices for Time 4.120000e-02

Assembling matrices for Time 4.120000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.120000e-02

Solving matrices for Time4.120000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001129

Multi\_Cores Iterative Solver:Total spent Wall Time 0.004000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.120000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 667.000000ms

Start solving for TOmega 4.130000e-02

Assembling matrices for Time 4.130000e-02

Assembling matrices for Time 4.130000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.130000e-02

Solving matrices for Time4.130000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001086

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.130000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 705.000000ms

Start solving for TOmega 4.140000e-02

Assembling matrices for Time 4.140000e-02

Assembling matrices for Time 4.140000e-02



CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.140000e-02

Solving matrices for Time4.140000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001092

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.140000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 661.000000ms

Start solving for TOmega 4.150000e-02

Assembling matrices for Time 4.150000e-02

Assembling matrices for Time 4.150000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.150000e-02

Solving matrices for Time4.150000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001124

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.150000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 669.000000ms

Start solving for TOmega 4.160000e-02

Assembling matrices for Time 4.160000e-02

Assembling matrices for Time 4.160000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.160000e-02

Solving matrices for Time4.160000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001076

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.160000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 724.000000ms

Start solving for TOmega 4.170000e-02

Assembling matrices for Time 4.170000e-02

Assembling matrices for Time 4.170000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.170000e-02

Solving matrices for Time4.170000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001050

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.170000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 686.000000ms

Start solving for TOmega 4.180000e-02

Assembling matrices for Time 4.180000e-02

Assembling matrices for Time 4.180000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.180000e-02

Solving matrices for Time4.180000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001070

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.180000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 675.000000ms

Start solving for TOmega 4.190000e-02

Assembling matrices for Time 4.190000e-02

Assembling matrices for Time 4.190000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.190000e-02

Solving matrices for Time4.190000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001071

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.190000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 737.000000ms

Start solving for TOmega 4.200000e-02

Assembling matrices for Time 4.200000e-02

Assembling matrices for Time 4.200000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.200000e-02

Solving matrices for Time4.200000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001099

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities



Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.200000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 705.000000ms

Start solving for TOmega 4.210000e-02

Assembling matrices for Time 4.210000e-02

Assembling matrices for Time 4.210000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.210000e-02

Solving matrices for Time4.210000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001074

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.210000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 707.000000ms

Start solving for TOmega 4.220000e-02

Assembling matrices for Time 4.220000e-02

Assembling matrices for Time 4.220000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.220000e-02

Solving matrices for Time4.220000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001086

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.220000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 718.000000ms

Start solving for TOmega 4.230000e-02

Assembling matrices for Time 4.230000e-02

Assembling matrices for Time 4.230000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 4.230000e-02

Solving matrices for Time 4.230000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001063

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.230000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 700.000000ms

Start solving for TOmega 4.240000e-02

Assembling matrices for Time 4.240000e-02

Assembling matrices for Time 4.240000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.240000e-02

Solving matrices for Time4.240000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001061

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.240000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 715.000000ms

Start solving for TOmega 4.250000e-02

Assembling matrices for Time 4.250000e-02

Assembling matrices for Time 4.250000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.250000e-02

Solving matrices for Time4.250000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001064

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.250000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 673.000000ms

Start solving for TOmega 4.260000e-02

Assembling matrices for Time 4.260000e-02

Assembling matrices for Time 4.260000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.260000e-02

Solving matrices for Time4.260000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001062

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Progress: 63%

Estimated Time: 0:14:6

Remaining Time: 0:5:6

Available Memory(GB): 13.07

Current CPU Percentage: 51.89

Average cores per hour: 2.08

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.260000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 666.000000ms

Start solving for TOmega 4.270000e-02

Assembling matrices for Time 4.270000e-02

Assembling matrices for Time 4.270000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 4.270000e-02

Solving matrices for Time 4.270000e-02



Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001082

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.270000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 649.000000ms

Start solving for TOmega 4.280000e-02

Assembling matrices for Time 4.280000e-02

Assembling matrices for Time 4.280000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.280000e-02

Solving matrices for Time4.280000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001063

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.280000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 706.000000ms

Start solving for TOmega 4.290000e-02

Assembling matrices for Time 4.290000e-02

Assembling matrices for Time 4.290000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.290000e-02

Solving matrices for Time4.290000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001082

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.290000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 693.000000ms

Start solving for TOmega 4.300000e-02

Assembling matrices for Time 4.300000e-02

Assembling matrices for Time 4.300000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.300000e-02

Solving matrices for Time4.300000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001097

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.300000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 691.000000ms

Start solving for TOmega 4.310000e-02

Assembling matrices for Time 4.310000e-02

Assembling matrices for Time 4.310000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.310000e-02

Solving matrices for Time4.310000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001083

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.310000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 711.000000ms

Start solving for TOmega 4.320000e-02

Assembling matrices for Time 4.320000e-02

Assembling matrices for Time 4.320000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.320000e-02

Solving matrices for Time4.320000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001068

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.320000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 672.000000ms

Start solving for TOmega 4.330000e-02

Assembling matrices for Time 4.330000e-02

Assembling matrices for Time 4.330000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.330000e-02

Solving matrices for Time4.330000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001074

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.330000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0



Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 706.000000ms

Start solving for TOmega 4.340000e-02

Assembling matrices for Time 4.340000e-02

Assembling matrices for Time 4.340000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.340000e-02

Solving matrices for Time4.340000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001049

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.340000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 684.000000ms

Start solving for TOmega 4.350000e-02

Assembling matrices for Time 4.350000e-02

Assembling matrices for Time 4.350000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.350000e-02

Solving matrices for Time4.350000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001109

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.350000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 742.000000ms

Start solving for TOmega 4.360000e-02

Assembling matrices for Time 4.360000e-02

Assembling matrices for Time 4.360000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.360000e-02

Solving matrices for Time4.360000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001065

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.360000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 702.000000ms

Start solving for TOmega 4.370000e-02

Assembling matrices for Time 4.370000e-02

Assembling matrices for Time 4.370000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.370000e-02

Solving matrices for Time4.370000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001069

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.370000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 705.000000ms

Start solving for TOmega 4.380000e-02

Assembling matrices for Time 4.380000e-02

Assembling matrices for Time 4.380000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.380000e-02

Solving matrices for Time4.380000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001073

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.380000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 685.000000ms

Start solving for TOmega 4.390000e-02

Assembling matrices for Time 4.390000e-02

Assembling matrices for Time 4.390000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.390000e-02

Solving matrices for Time4.390000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001053

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.390000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 719.000000ms

Start solving for TOmega 4.400000e-02

Assembling matrices for Time 4.400000e-02

Assembling matrices for Time 4.400000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.400000e-02

Solving matrices for Time4.400000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001053

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000



>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.400000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 685.000000ms

Start solving for TOmega 4.410000e-02

Assembling matrices for Time 4.410000e-02

Assembling matrices for Time 4.410000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.410000e-02

Solving matrices for Time4.410000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001133

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.410000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 716.000000ms

Start solving for TOmega 4.420000e-02

Assembling matrices for Time 4.420000e-02

Assembling matrices for Time 4.420000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.420000e-02

Solving matrices for Time4.420000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001107

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Progress: 66%

Estimated Time: 0:14:6

Remaining Time: 0:4:46

Available Memory(GB): 13.03

Current CPU Percentage: 51.58

Average cores per hour: 2.06

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.420000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 702.000000ms

Start solving for TOmega 4.430000e-02

Assembling matrices for Time 4.430000e-02

Assembling matrices for Time 4.430000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.430000e-02

Solving matrices for Time4.430000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001058

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.430000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 706.000000ms

Start solving for TOmega 4.440000e-02

Assembling matrices for Time 4.440000e-02

Assembling matrices for Time 4.440000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.440000e-02

Solving matrices for Time4.440000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001054

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.440000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 707.000000ms

Start solving for TOmega 4.450000e-02

Assembling matrices for Time 4.450000e-02

Assembling matrices for Time 4.450000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.450000e-02

Solving matrices for Time4.450000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001105

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.450000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 722.000000ms

Start solving for TOmega 4.460000e-02

Assembling matrices for Time 4.460000e-02

Assembling matrices for Time 4.460000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 4.460000e-02

Solving matrices for Time 4.460000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001057

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.460000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 692.000000ms

Start solving for TOmega 4.470000e-02

Assembling matrices for Time 4.470000e-02

Assembling matrices for Time 4.470000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore



Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.470000e-02

Solving matrices for Time4.470000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001079

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.470000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 710.000000ms

Start solving for TOmega 4.480000e-02

Assembling matrices for Time 4.480000e-02

Assembling matrices for Time 4.480000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.480000e-02

Solving matrices for Time4.480000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001078

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.480000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 719.000000ms

Start solving for TOmega 4.490000e-02

Assembling matrices for Time 4.490000e-02

Assembling matrices for Time 4.490000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.490000e-02

Solving matrices for Time4.490000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001074

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.490000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 680.000000ms

Start solving for TOmega 4.500000e-02

Assembling matrices for Time 4.500000e-02

Assembling matrices for Time 4.500000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.500000e-02

Solving matrices for Time4.500000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001079

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.500000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 676.000000ms

Start solving for TOmega 4.510000e-02

Assembling matrices for Time 4.510000e-02

Assembling matrices for Time 4.510000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.510000e-02

Solving matrices for Time4.510000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001060

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.510000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 693.000000ms

Start solving for TOmega 4.520000e-02

Assembling matrices for Time 4.520000e-02

Assembling matrices for Time 4.520000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.520000e-02

Solving matrices for Time4.520000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001068

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.520000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 685.000000ms

Start solving for TOmega 4.530000e-02

Assembling matrices for Time 4.530000e-02

Assembling matrices for Time 4.530000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.530000e-02

Solving matrices for Time4.530000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001072

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities



Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.530000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 695.000000ms

Start solving for TOmega 4.540000e-02

Assembling matrices for Time 4.540000e-02

Assembling matrices for Time 4.540000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.540000e-02

Solving matrices for Time4.540000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001074

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.540000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 674.000000ms

Start solving for TOmega 4.550000e-02

Assembling matrices for Time 4.550000e-02

Assembling matrices for Time 4.550000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.550000e-02

Solving matrices for Time4.550000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001074

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.550000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 725.000000ms

Start solving for TOmega 4.560000e-02

Assembling matrices for Time 4.560000e-02

Assembling matrices for Time 4.560000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.560000e-02

Solving matrices for Time4.560000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001084

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.560000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 685.000000ms

Start solving for TOmega 4.570000e-02

Assembling matrices for Time 4.570000e-02

Assembling matrices for Time 4.570000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.570000e-02

Solving matrices for Time4.570000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001089

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.570000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 667.000000ms

Start solving for TOmega 4.580000e-02

Assembling matrices for Time 4.580000e-02

Assembling matrices for Time 4.580000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.580000e-02

Solving matrices for Time4.580000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001052

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.580000e-02

Progress: 68%

Estimated Time: 0:14:6

Remaining Time: 0:4:26

Available Memory(GB): 12.99

Current CPU Percentage: 52.00

Average cores per hour: 2.08

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 675.000000ms

Start solving for TOmega 4.590000e-02

Assembling matrices for Time 4.590000e-02

Assembling matrices for Time 4.590000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.590000e-02

Solving matrices for Time4.590000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001100

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.590000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 697.000000ms

Start solving for TOmega 4.600000e-02

Assembling matrices for Time 4.600000e-02

Assembling matrices for Time 4.600000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.600000e-02

Solving matrices for Time4.600000e-02



Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001074

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.600000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 638.000000ms

Start solving for TOmega 4.610000e-02

Assembling matrices for Time 4.610000e-02

Assembling matrices for Time 4.610000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.610000e-02

Solving matrices for Time4.610000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001092

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.610000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 643.000000ms

Start solving for TOmega 4.620000e-02

Assembling matrices for Time 4.620000e-02

Assembling matrices for Time 4.620000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.620000e-02

Solving matrices for Time4.620000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001125

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.620000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 670.000000ms

Start solving for TOmega 4.630000e-02

Assembling matrices for Time 4.630000e-02

Assembling matrices for Time 4.630000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.630000e-02

Solving matrices for Time4.630000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001100

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.630000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 701.000000ms

Start solving for TOmega 4.640000e-02

Assembling matrices for Time 4.640000e-02

Assembling matrices for Time 4.640000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.640000e-02

Solving matrices for Time4.640000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001078

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.640000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 682.000000ms

Start solving for TOmega 4.650000e-02

Assembling matrices for Time 4.650000e-02

Assembling matrices for Time 4.650000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.650000e-02

Solving matrices for Time4.650000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001070

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.650000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 676.000000ms

Start solving for TOmega 4.660000e-02

Assembling matrices for Time 4.660000e-02

Assembling matrices for Time 4.660000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.660000e-02

Solving matrices for Time4.660000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001068

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.660000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0



Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 727.000000ms

Start solving for TOmega 4.670000e-02

Assembling matrices for Time 4.670000e-02

Assembling matrices for Time 4.670000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.670000e-02

Solving matrices for Time4.670000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001114

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.670000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 718.000000ms

Start solving for TOmega 4.680000e-02

Assembling matrices for Time 4.680000e-02

Assembling matrices for Time 4.680000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.680000e-02

Solving matrices for Time4.680000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001056

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.680000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 688.000000ms

Start solving for TOmega 4.690000e-02

Assembling matrices for Time 4.690000e-02

Assembling matrices for Time 4.690000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.690000e-02

Solving matrices for Time4.690000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001076

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.690000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 732.000000ms

Start solving for TOmega 4.700000e-02

Assembling matrices for Time 4.700000e-02

Assembling matrices for Time 4.700000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.700000e-02

Solving matrices for Time4.700000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001077

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.700000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 693.000000ms

Start solving for TOmega 4.710000e-02

Assembling matrices for Time 4.710000e-02

Assembling matrices for Time 4.710000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time 4.710000e-02

Solving matrices for Time 4.710000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001114

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.710000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 660.000000ms

Start solving for TOmega 4.720000e-02

Assembling matrices for Time 4.720000e-02

Assembling matrices for Time 4.720000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.720000e-02

Solving matrices for Time4.720000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001068

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.720000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 700.000000ms

Start solving for TOmega 4.730000e-02

Assembling matrices for Time 4.730000e-02

Assembling matrices for Time 4.730000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.730000e-02

Solving matrices for Time4.730000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001066

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000



>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.730000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 674.000000ms

Start solving for TOmega 4.740000e-02

Assembling matrices for Time 4.740000e-02

Assembling matrices for Time 4.740000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.740000e-02

Solving matrices for Time4.740000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001070

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.740000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 70%

Estimated Time: 0:14:6

Remaining Time: 0:4:6

Available Memory(GB): 12.95

Current CPU Percentage: 52.26

Average cores per hour: 2.09

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 680.000000ms

Start solving for TOmega 4.750000e-02

Assembling matrices for Time 4.750000e-02

Assembling matrices for Time 4.750000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.750000e-02

Solving matrices for Time4.750000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001047

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.750000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 711.000000ms

Start solving for TOmega 4.760000e-02

Assembling matrices for Time 4.760000e-02

Assembling matrices for Time 4.760000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.760000e-02

Solving matrices for Time4.760000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001059

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.760000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 667.000000ms

Start solving for TOmega 4.770000e-02

Assembling matrices for Time 4.770000e-02

Assembling matrices for Time 4.770000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.770000e-02

Solving matrices for Time4.770000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001056

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.770000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 670.000000ms

Start solving for TOmega 4.780000e-02

Assembling matrices for Time 4.780000e-02

Assembling matrices for Time 4.780000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.780000e-02

Solving matrices for Time4.780000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001063

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.780000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 688.000000ms

Start solving for TOmega 4.790000e-02

Assembling matrices for Time 4.790000e-02

Assembling matrices for Time 4.790000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.790000e-02

Solving matrices for Time4.790000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver: Total spent Cpu Time 0.001064

Multi\_Cores Iterative Solver: Total spent Wall Time 0.003000

>> End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.790000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 653.000000ms

Start solving for TOmega 4.800000e-02

Assembling matrices for Time 4.800000e-02

Assembling matrices for Time 4.800000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore



Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.800000e-02

Solving matrices for Time4.800000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001142

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.800000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 641.000000ms

Start solving for TOmega 4.810000e-02

Assembling matrices for Time 4.810000e-02

Assembling matrices for Time 4.810000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.810000e-02

Solving matrices for Time4.810000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001065

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.810000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 719.000000ms

Start solving for TOmega 4.820000e-02

Assembling matrices for Time 4.820000e-02

Assembling matrices for Time 4.820000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.820000e-02

Solving matrices for Time4.820000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001055

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.820000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 665.000000ms

Start solving for TOmega 4.830000e-02

Assembling matrices for Time 4.830000e-02

Assembling matrices for Time 4.830000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.830000e-02

Solving matrices for Time4.830000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001077

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.830000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 673.000000ms

Start solving for TOmega 4.840000e-02

Assembling matrices for Time 4.840000e-02

Assembling matrices for Time 4.840000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.840000e-02

Solving matrices for Time4.840000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001074

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.840000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 677.000000ms

Start solving for TOmega 4.850000e-02

Assembling matrices for Time 4.850000e-02

Assembling matrices for Time 4.850000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.850000e-02

Solving matrices for Time4.850000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001058

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.850000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 689.000000ms

Start solving for TOmega 4.860000e-02

Assembling matrices for Time 4.860000e-02

Assembling matrices for Time 4.860000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.860000e-02

Solving matrices for Time4.860000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001161

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities



Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.860000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 684.000000ms

Start solving for TOmega 4.870000e-02

Assembling matrices for Time 4.870000e-02

Assembling matrices for Time 4.870000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.870000e-02

Solving matrices for Time4.870000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001045

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.870000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 670.000000ms

Start solving for TOmega 4.880000e-02

Assembling matrices for Time 4.880000e-02

Assembling matrices for Time 4.880000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.880000e-02

Solving matrices for Time4.880000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001068

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.880000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 679.000000ms

Start solving for TOmega 4.890000e-02

Assembling matrices for Time 4.890000e-02

Assembling matrices for Time 4.890000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.890000e-02

Solving matrices for Time4.890000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001045

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.890000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 697.000000ms

Start solving for TOmega 4.900000e-02

Assembling matrices for Time 4.900000e-02

Assembling matrices for Time 4.900000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.900000e-02

Solving matrices for Time4.900000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001084

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.900000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Progress: 73%

Estimated Time: 0:14:6

Remaining Time: 0:3:46

Available Memory(GB): 12.91

Current CPU Percentage: 52.36

Average cores per hour: 2.09

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 650.000000ms

Start solving for TOmega 4.910000e-02

Assembling matrices for Time 4.910000e-02

Assembling matrices for Time 4.910000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.910000e-02

Solving matrices for Time4.910000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001043

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.910000e-02

Compute Forces And Torques Transient Timing: 0: 0: 1

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 642.000000ms

Start solving for TOmega 4.920000e-02

Assembling matrices for Time 4.920000e-02

Assembling matrices for Time 4.920000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.920000e-02

Solving matrices for Time4.920000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001089

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.920000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 692.000000ms

Start solving for TOmega 4.930000e-02

Assembling matrices for Time 4.930000e-02

Assembling matrices for Time 4.930000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.930000e-02

Solving matrices for Time4.930000e-02



Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>> Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001097

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:01 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.930000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 641.000000ms

Start solving for TOmega 4.940000e-02

Assembling matrices for Time 4.940000e-02

Assembling matrices for Time 4.940000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.940000e-02

Solving matrices for Time4.940000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001074

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.940000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 635.000000ms

Start solving for TOmega 4.950000e-02

Assembling matrices for Time 4.950000e-02

Assembling matrices for Time 4.950000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.950000e-02

Solving matrices for Time4.950000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001189

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.950000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 700.000000ms

Start solving for TOmega 4.960000e-02

Assembling matrices for Time 4.960000e-02

Assembling matrices for Time 4.960000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time4.960000e-02

Solving matrices for Time4.960000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001061

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.960000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 587.000000ms

Start solving for TOmega 4.970000e-02

Assembling matrices for Time 4.970000e-02

Assembling matrices for Time 4.970000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.970000e-02

Solving matrices for Time4.970000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001658

Multi\_Cores Iterative Solver:Total spent Wall Time 0.005000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.970000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:0

Write Solution PerPart Timing: 698.000000ms

Start solving for TOmega 4.980000e-02

Assembling matrices for Time 4.980000e-02

Assembling matrices for Time 4.980000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 1

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.980000e-02

Solving matrices for Time4.980000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001059

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.980000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0

Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 679.000000ms

Start solving for TOmega 4.990000e-02

Assembling matrices for Time 4.990000e-02

Assembling matrices for Time 4.990000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0

Solving matrices for Time4.990000e-02

Solving matrices for Time4.990000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001085

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 4.990000e-02

Compute Forces And Torques Transient Timing: 0: 0: 0



Write Solution PerPart Timing: 0:0:1

Write Solution PerPart Timing: 655.000000ms

Start solving for TOmega 5.000000e-02

Assembling matrices for Time 5.000000e-02

Assembling matrices for Time 5.000000e-02

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore  
Timing: 0: 0: 0

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Me  
mory Used = 0

Solving matrices for Time5.000000e-02

Solving matrices for Time5.000000e-02

Solver in progress...

>> end ScanDataFromFiles

>> Number of Cpus 4

>> Start Solving

>>>Solver :: Multi\_Cores Iterative Solver

>> Set Iterative Parameters

>> WriteSolverParameters

>> RunIterativeSolver

Number of iterations: 1 , true residual: 0

Multi\_Cores Iterative Solver:Total spent Cpu Time 0.001076

Multi\_Cores Iterative Solver:Total spent Wall Time 0.003000

>>End Solving

Solving 00:00:00 Dimension 8455 Non\_Zeroes 112573

reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension =  
8455 File size = 67640 Timing: 00:00:00

Computing Circuit Quantities

Process To Compute Transient Circuit Parameters: Time Step= 1 Used memory = 0

Done solving for TOmega

Writing Solution... 5.000000e-02