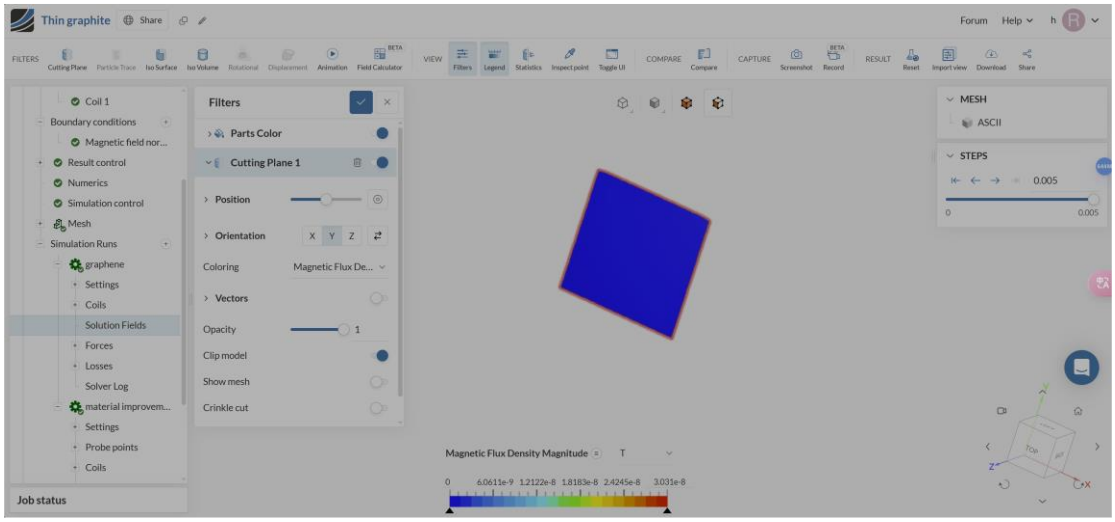

Setting the resources path
Loading resources path
Resources Loaded
Setting the XML file path:
Initializing Study
Loading study properties...
Set study definition...
Getting study element data...
Getting study name...
Setting study type...
Setting mesh ID...
Setting product full version (Formatted: Year/Date 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 : Wed Jan 8 13:32:13 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 : Wed Jan 8 13:32:13 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: 852837

number of nodes: 299004

partner info: 1788

Compute security key done

Preparing mesh database

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

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

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

Creating tets

Number of vertices : 299004

Vertices created

Number of edges : 1450523

Number of triangels : 2004357

Number of tets : 852837

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:1477.77s
Progress: 1%
Estimated Time: 0:24:38
Remaining Time: 0:24:38
Available Memory(GB): 25.68
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: 597436
Type: Info
EMW_INFO_30009: Number of mesh faces found in the Boundary Condition is: 297506
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 0.012743
Multi_Cores Pardiso Direct Solver:Total spent Wall Time 0.012000
>>End Solving
 Solving 00:00:00 Dimension 319 Non_Zeroes 501

reading file
 Main call: Finished scanning the solution file for the multi-core solver: Dimension = 319 File size = 2552 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: 322 , true residual: 3.9081e-09
Multi_Cores Iterative Solver:Total spent Cpu Time 3.557294
Multi_Cores Iterative Solver:Total spent Wall Time 4.035000
>>End Solving
 Solving 00:00:04 Dimension 1003409 Non_Zeroes 11246825
reading file
 Main call: Finished scanning the solution file for the multi-core solver: Dimension = 1003409 File size = 8027272 Timing: 00:00:00
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: 1
>>> 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: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.67745e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.264943
Multi_Cores Iterative Solver:Total spent Wall Time 0.321000
>>End Solving
 Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
 Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00
  >>>>>>
CTransientMagneticStudy::AssembleGlobalForTransientInductanceDecember2017
Timing: 0: 0: 2
>> end ScanDataFromFiles
>> Number of Cpus 4
>> Start Solving
>>>Solver :: Multi_Cores Iterative Solver
>> Set Iterative Parameters
>> WriteSolverParameters
>> RunIterativeSolver
Number of iterations: 167 , true residual: 7.32037e-19
Multi_Cores Iterative Solver:Total spent Cpu Time 0.262896
Multi_Cores Iterative Solver:Total spent Wall Time 0.307000

>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00
Progress: 1%
Estimated Time: 0:24:38
Remaining Time: 0:24:18
Available Memory(GB): 25.34
Current CPU Percentage: 31.68
Average cores per hour: 1.27
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: 1
Write Solution PerPart Timing: 0:0:10
Write Solution PerPart Timing: 10473.000000ms
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: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.68978e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.264018
Multi_Cores Iterative Solver:Total spent Wall Time 0.308000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00

Computing Circuit Quantities

Progress: 2%
Estimated Time: 0:24:38
Remaining Time: 0:23:58
Available Memory(GB): 25.28
Current CPU Percentage: 51.98
Average cores per hour: 2.08
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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12527.000000ms
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: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.70062e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.260449
Multi_Cores Iterative Solver:Total spent Wall Time 0.310000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00
Computing Circuit Quantities

Progress: 4%
Estimated Time: 0:24:38
Remaining Time: 0:23:38

Available Memory(GB): 25.24
Current CPU Percentage: 50.02
Average cores per hour: 2.00
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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12124.000000ms
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: 2
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: 167 , true residual: 3.64346e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.254449
Multi_Cores Iterative Solver:Total spent Wall Time 0.365000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00
Computing Circuit Quantities

Progress: 5%
Estimated Time: 0:24:38
Remaining Time: 0:23:18
Available Memory(GB): 25.18
Current CPU Percentage: 50.50
Average cores per hour: 2.02
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: 0:0:12
Write Solution PerPart Timing: 12055.000000ms
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: 1
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.68532e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.254709
Multi_Cores Iterative Solver:Total spent Wall Time 0.321000
>>End Solving
Solving 00:00:01 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00
Computing Circuit Quantities

Progress: 6%
Estimated Time: 0:24:38
Remaining Time: 0:22:58
Available Memory(GB): 25.05
Current CPU Percentage: 50.64
Average cores per hour: 2.03
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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12341.000000ms
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: 2
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: 167 , true residual: 3.67715e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.260252
Multi_Cores Iterative Solver:Total spent Wall Time 0.305000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00
Computing Circuit Quantities

Progress: 8%
Estimated Time: 0:24:38
Remaining Time: 0:22:38
Available Memory(GB): 25.02
Current CPU Percentage: 50.41
Average cores per hour: 2.02
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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12395.000000ms
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: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory

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: 167 , true residual: 3.63891e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.262440
Multi_Cores Iterative Solver:Total spent Wall Time 0.355000
>>End Solving
 Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
 Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00
Computing Circuit Quantities

Progress: 9%
Estimated Time: 0:24:38
Remaining Time: 0:22:18
Available Memory(GB): 24.95
Current CPU Percentage: 50.25
Average cores per hour: 2.01
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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12304.000000ms
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: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.63928e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.260028
Multi_Cores Iterative Solver:Total spent Wall Time 0.376000
>>End Solving
 Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
 Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00
Computing Circuit Quantities

Progress: 10%
Estimated Time: 0:24:38
Remaining Time: 0:21:58
Available Memory(GB): 24.83
Current CPU Percentage: 50.25
Average cores per hour: 2.01
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: 0:0:12
Write Solution PerPart Timing: 12338.000000ms
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: 2
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: 167 , true residual: 3.65504e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.255685
Multi_Cores Iterative Solver:Total spent Wall Time 0.380000
>>End Solving
 Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
 Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00
Computing Circuit Quantities

Progress: 12%
Estimated Time: 0:24:38
Remaining Time: 0:21:38
Available Memory(GB): 24.87
Current CPU Percentage: 50.38
Average cores per hour: 2.02
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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12250.000000ms
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: 2
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: 167 , true residual: 3.69556e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.246590
Multi_Cores Iterative Solver:Total spent Wall Time 0.365000
>>End Solving

Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00
Computing Circuit Quantities

Progress: 13%
Estimated Time: 0:24:38
Remaining Time: 0:21:18
Available Memory(GB): 24.80
Current CPU Percentage: 50.44
Average cores per hour: 2.02
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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12346.000000ms
Start solving for TOmega 1.000000e-03
Assembling matrices for Time 1.000000e-03
Assembling matrices for Time 1.000000e-03
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore Timing: 0: 0: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.65304e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.259136
Multi_Cores Iterative Solver:Total spent Wall Time 0.366000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00
Computing Circuit Quantities

Progress: 14%
Estimated Time: 0:24:38
Remaining Time: 0:20:58
Available Memory(GB): 24.70
Current CPU Percentage: 50.12
Average cores per hour: 2.00
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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12183.000000ms
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: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.64481e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.257893
Multi_Cores Iterative Solver:Total spent Wall Time 0.392000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00
Computing Circuit Quantities

Progress: 16%
Estimated Time: 0:24:38
Remaining Time: 0:20:38
Available Memory(GB): 24.63

Current CPU Percentage: 50.54
Average cores per hour: 2.02
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: 0:0:12
Write Solution PerPart Timing: 12291.000000ms
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: 2
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: 167 , true residual: 3.62566e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.265244
Multi_Cores Iterative Solver:Total spent Wall Time 0.321000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00
Progress: 17%
Estimated Time: 0:24:38
Remaining Time: 0:20:18
Available Memory(GB): 24.53
Current CPU Percentage: 50.39
Average cores per hour: 2.02
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: 2
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12359.000000ms
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: 2
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: 167 , true residual: 3.65669e-16
Progress: 18%
Estimated Time: 0:24:38
Remaining Time: 0:19:58
Available Memory(GB): 24.51
Current CPU Percentage: 50.48
Average cores per hour: 2.02
Multi_Cores Iterative Solver:Total spent Cpu Time 0.267576
Multi_Cores Iterative Solver:Total spent Wall Time 0.322000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 2
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12073.000000ms
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: 2
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: 167 , true residual: 3.64326e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.255537
Multi_Cores Iterative Solver:Total spent Wall Time 0.388000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00
Computing Circuit Quantities

Progress: 20%
Estimated Time: 0:24:38
Remaining Time: 0:19:38
Available Memory(GB): 24.48
Current CPU Percentage: 50.55
Average cores per hour: 2.02
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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12345.000000ms
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: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.69899e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.265016
Multi_Cores Iterative Solver:Total spent Wall Time 0.317000
>>End Solving
 Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
 Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00
Computing Circuit Quantities

Progress: 21%
Estimated Time: 0:24:38
Remaining Time: 0:19:18
Available Memory(GB): 24.40
Current CPU Percentage: 50.48
Average cores per hour: 2.02
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: 2
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12411.000000ms
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: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.73641e-16
Progress: 23%
Estimated Time: 0:24:38
Remaining Time: 0:18:58
Available Memory(GB): 24.36
Current CPU Percentage: 50.49
Average cores per hour: 2.02
Multi_Cores Iterative Solver:Total spent Cpu Time 0.266802
Multi_Cores Iterative Solver:Total spent Wall Time 0.316000
>>End Solving
 Solving 00:00:01 Dimension 149386 Non_Zeroes 1045218
reading file
 Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 2
Write Solution PerPart Timing: 0:0:13
Write Solution PerPart Timing: 12330.000000ms
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...
Progress: 24%
Estimated Time: 0:24:38
Remaining Time: 0:18:38
Available Memory(GB): 24.32
Current CPU Percentage: 50.40
Average cores per hour: 2.02
>> end ScanDataFromFiles

>> Number of Cpus 4
>> Start Solving
>>>Solver :: Multi_Cores Iterative Solver
>> Set Iterative Parameters
>> WriteSolverParameters
>> RunIterativeSolver
Number of iterations: 167 , true residual: 3.65574e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.274441
Multi_Cores Iterative Solver:Total spent Wall Time 0.326000
>>End Solving
 Solving 00:00:01 Dimension 149386 Non_Zeroes 1045218
reading file
 Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 2
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12026.000000ms
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: 2
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: 167 , true residual: 3.63006e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.260275
Multi_Cores Iterative Solver:Total spent Wall Time 0.386000
>>End Solving
 Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218

reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00
Progress: 25%
Estimated Time: 0:24:38
Remaining Time: 0:18:18
Available Memory(GB): 24.29
Current CPU Percentage: 50.40
Average cores per hour: 2.02
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: 2
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12166.000000ms
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: 2
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: 167 , true residual: 3.66999e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.267748
Multi_Cores Iterative Solver:Total spent Wall Time 0.366000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00
Computing Circuit Quantities

Progress: 27%
Estimated Time: 0:24:38
Remaining Time: 0:17:58
Available Memory(GB): 24.26
Current CPU Percentage: 50.46
Average cores per hour: 2.02
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: 0:0:12
Write Solution PerPart Timing: 12337.000000ms
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: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.67375e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.256549
Multi_Cores Iterative Solver:Total spent Wall Time 0.391000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00
Computing Circuit Quantities

Progress: 28%
Estimated Time: 0:24:38
Remaining Time: 0:17:38
Available Memory(GB): 24.19
Current CPU Percentage: 50.27

Average cores per hour: 2.01
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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12325.000000ms
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: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.65725e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.263474
Multi_Cores Iterative Solver:Total spent Wall Time 0.314000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00
Computing Circuit Quantities

Progress: 29%
Estimated Time: 0:24:38
Remaining Time: 0:17:18
Available Memory(GB): 24.15
Current CPU Percentage: 50.35
Average cores per hour: 2.01
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: 1

Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12263.000000ms
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: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0
Solving matrices for Time2.200000e-03
Solving matrices for Time2.200000e-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: 167 , true residual: 3.68681e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.257062
Multi_Cores Iterative Solver:Total spent Wall Time 0.367000
>>End Solving
 Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
 Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 00:00:00
Computing Circuit Quantities

Progress: 31%
Estimated Time: 0:24:38
Remaining Time: 0:16:58
Available Memory(GB): 24.15
Current CPU Percentage: 50.11
Average cores per hour: 2.00
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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12491.000000ms
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: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0
Solving matrices for Time2.300000e-03
Solving matrices for Time2.300000e-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: 167 , true residual: 3.66199e-16
Progress: 32%
Estimated Time: 0:24:38
Remaining Time: 0:16:38
Available Memory(GB): 24.07
Current CPU Percentage: 49.84
Average cores per hour: 1.99
Multi_Cores Iterative Solver:Total spent Cpu Time 0.259912
Multi_Cores Iterative Solver:Total spent Wall Time 0.310000
>>End Solving
Solving 00:00:01 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 2
Write Solution PerPart Timing: 0:0:13
Write Solution PerPart Timing: 12440.000000ms
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: 1
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0
Solving matrices for Time2.400000e-03

Solving matrices for Time2.400000e-03
Solver in progress...
Progress: 33%
Estimated Time: 0:24:38
Remaining Time: 0:16:18
Available Memory(GB): 24.00
Current CPU Percentage: 50.29
Average cores per hour: 2.01
>> end ScanDataFromFiles
>> Number of Cpus 4
>> Start Solving
>>>Solver :: Multi_Cores Iterative Solver
>> Set Iterative Parameters
>> WriteSolverParameters
>> RunIterativeSolver
Number of iterations: 167 , true residual: 3.69994e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.264904
Multi_Cores Iterative Solver:Total spent Wall Time 0.345000
>>End Solving
Solving 00:00:01 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12388.000000ms
Start solving for TOmega 2.500000e-03
Assembling matrices for Time 2.500000e-03
Assembling matrices for Time 2.500000e-03
Progress: 35%
Estimated Time: 0:24:38
Remaining Time: 0:15:58
Available Memory(GB): 23.91
Current CPU Percentage: 50.58
Average cores per hour: 2.02
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore Timing: 0: 0: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.65475e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.281341
Multi_Cores Iterative Solver:Total spent Wall Time 0.327000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12297.000000ms
Start solving for TOmega 2.600000e-03
Assembling matrices for Time 2.600000e-03
Assembling matrices for Time 2.600000e-03
Progress: 36%
Estimated Time: 0:24:38
Remaining Time: 0:15:38
Available Memory(GB): 23.90
Current CPU Percentage: 50.18
Average cores per hour: 2.01
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore Timing: 0: 0: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.6503e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.264615
Multi_Cores Iterative Solver:Total spent Wall Time 0.310000
>>End Solving
 Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
 Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12144.000000ms
Start solving for TOmega 2.700000e-03
Assembling matrices for Time 2.700000e-03
Assembling matrices for Time 2.700000e-03
Progress: 37%
Estimated Time: 0:24:38
Remaining Time: 0:15:18
Available Memory(GB): 23.88
Current CPU Percentage: 50.65
Average cores per hour: 2.03
 CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore Timing: 0: 0: 2
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: 167 , true residual: 3.59641e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.263916
Multi_Cores Iterative Solver:Total spent Wall Time 0.353000
>>End Solving
 Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
 Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12241.000000ms
Start solving for TOmega 2.800000e-03
Assembling matrices for Time 2.800000e-03
Assembling matrices for Time 2.800000e-03
Progress: 39%
Estimated Time: 0:24:38
Remaining Time: 0:14:58
Available Memory(GB): 23.77
Current CPU Percentage: 50.08
Average cores per hour: 2.00
 CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore Timing: 0: 0: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory Used = 0
Solving matrices for Time2.800000e-03
Solving matrices for Time2.800000e-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: 167 , true residual: 3.68178e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.263674
Multi_Cores Iterative Solver:Total spent Wall Time 0.310000
>>End Solving
 Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218

reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12580.000000ms
Start solving for TOmega 2.900000e-03
Assembling matrices for Time 2.900000e-03
Assembling matrices for Time 2.900000e-03
Progress: 40%
Estimated Time: 0:24:38
Remaining Time: 0:14:38
Available Memory(GB): 23.74
Current CPU Percentage: 49.69
Average cores per hour: 1.99
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore Timing: 0: 0: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.63079e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.261783
Multi_Cores Iterative Solver:Total spent Wall Time 0.309000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12256.000000ms
Start solving for TOmega 3.000000e-03
Assembling matrices for Time 3.000000e-03
Assembling matrices for Time 3.000000e-03
Progress: 41%
Estimated Time: 0:24:38
Remaining Time: 0:14:18
Available Memory(GB): 23.70
Current CPU Percentage: 50.19
Average cores per hour: 2.01
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore Timing: 0: 0: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.70428e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.268354
Multi_Cores Iterative Solver:Total spent Wall Time 0.317000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 1
Write Solution PerPart Timing: 0:0:12

Write Solution PerPart Timing: 12392.000000ms
Start solving for TOmega 3.100000e-03
Assembling matrices for Time 3.100000e-03
Assembling matrices for Time 3.100000e-03
Progress: 43%
Estimated Time: 0:24:38
Remaining Time: 0:13:58
Available Memory(GB): 23.65
Current CPU Percentage: 50.00
Average cores per hour: 2.00
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore Timing: 0: 0: 2
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: 167 , true residual: 3.68176e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.271363
Multi_Cores Iterative Solver:Total spent Wall Time 0.324000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12521.000000ms
Start solving for TOmega 3.200000e-03
Assembling matrices for Time 3.200000e-03
Assembling matrices for Time 3.200000e-03
Progress: 44%

Estimated Time: 0:24:38
Remaining Time: 0:13:38
Available Memory(GB): 23.61
Current CPU Percentage: 49.53
Average cores per hour: 1.98
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore Timing: 0: 0: 2
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: 167 , true residual: 3.65278e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.273038
Multi_Cores Iterative Solver:Total spent Wall Time 0.327000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 2
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12249.000000ms
Start solving for TOmega 3.300000e-03
Assembling matrices for Time 3.300000e-03
Assembling matrices for Time 3.300000e-03
Progress: 46%
Estimated Time: 0:24:38
Remaining Time: 0:13:18
Available Memory(GB): 23.53
Current CPU Percentage: 50.22
Average cores per hour: 2.01

CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore
Timing: 0: 0: 2
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: 167 , true residual: 3.67841e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.264726
Multi_Cores Iterative Solver:Total spent Wall Time 0.340000
>>End Solving
Solving 00:00:01 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 2
Write Solution PerPart Timing: 0:0:13
Write Solution PerPart Timing: 12423.000000ms
Start solving for TOmega 3.400000e-03
Assembling matrices for Time 3.400000e-03
Assembling matrices for Time 3.400000e-03
Progress: 47%
Estimated Time: 0:24:38
Remaining Time: 0:12:58
Available Memory(GB): 23.47
Current CPU Percentage: 49.84
Average cores per hour: 1.99
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore
Timing: 0: 0: 1
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.62682e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.264563
Multi_Cores Iterative Solver:Total spent Wall Time 0.311000
>>End Solving
Solving 00:00:01 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 2
Write Solution PerPart Timing: 0:0:13
Write Solution PerPart Timing: 12269.000000ms
Start solving for TOmega 3.500000e-03
Assembling matrices for Time 3.500000e-03
Assembling matrices for Time 3.500000e-03
Progress: 48%
Estimated Time: 0:24:38
Remaining Time: 0:12:38
Available Memory(GB): 23.38
Current CPU Percentage: 50.40
Average cores per hour: 2.02
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore Timing: 0: 0: 1
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.64392e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.261329
Multi_Cores Iterative Solver:Total spent Wall Time 0.389000
>>End Solving
 Solving 00:00:01 Dimension 149386 Non_Zeroes 1045218
reading file
 Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 2
Write Solution PerPart Timing: 0:0:13
Write Solution PerPart Timing: 12134.000000ms
Start solving for TOmega 3.600000e-03
Assembling matrices for Time 3.600000e-03
Assembling matrices for Time 3.600000e-03
Progress: 50%
Estimated Time: 0:24:38
Remaining Time: 0:12:18
Available Memory(GB): 23.36
Current CPU Percentage: 50.80
Average cores per hour: 2.03
 CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore Timing: 0: 0: 1
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: 167 , true residual: 3.67027e-16

Multi_Cores Iterative Solver:Total spent Cpu Time 0.251476
Multi_Cores Iterative Solver:Total spent Wall Time 0.376000
>>End Solving
 Solving 00:00:01 Dimension 149386 Non_Zeroes 1045218
reading file
 Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 2
Write Solution PerPart Timing: 0:0:13
Write Solution PerPart Timing: 12366.000000ms
Start solving for TOmega 3.700000e-03
Assembling matrices for Time 3.700000e-03
Assembling matrices for Time 3.700000e-03
Progress: 51%
Estimated Time: 0:24:38
Remaining Time: 0:11:58
Available Memory(GB): 23.27
Current CPU Percentage: 50.06
Average cores per hour: 2.00
 CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore Timing: 0: 0: 1
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.65023e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.276469
Multi_Cores Iterative Solver:Total spent Wall Time 0.323000
>>End Solving
 Solving 00:00:01 Dimension 149386 Non_Zeroes 1045218
reading file

Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 2
Write Solution PerPart Timing: 0:0:13
Write Solution PerPart Timing: 12375.000000ms
Start solving for TOmega 3.800000e-03
Assembling matrices for Time 3.800000e-03
Assembling matrices for Time 3.800000e-03
Progress: 52%
Estimated Time: 0:24:38
Remaining Time: 0:11:38
Available Memory(GB): 23.31
Current CPU Percentage: 49.80
Average cores per hour: 1.99
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore Timing: 0: 0: 1
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: 167 , true residual: 3.67266e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.264882
Multi_Cores Iterative Solver:Total spent Wall Time 0.319000
>>End Solving
Solving 00:00:01 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 0:0:12
Write Solution PerPart Timing: 12277.000000ms
Start solving for TOmega 3.900000e-03
Assembling matrices for Time 3.900000e-03
Assembling matrices for Time 3.900000e-03
Progress: 54%
Estimated Time: 0:24:38
Remaining Time: 0:11:18
Available Memory(GB): 23.28
Current CPU Percentage: 50.09
Average cores per hour: 2.00
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore Timing: 0: 0: 1
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.62209e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.247903
Multi_Cores Iterative Solver:Total spent Wall Time 0.369000
>>End Solving
Solving 00:00:01 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12152.000000ms

Start solving for TOmega 4.000000e-03
Assembling matrices for Time 4.000000e-03
Assembling matrices for Time 4.000000e-03
Progress: 55%
Estimated Time: 0:24:38
Remaining Time: 0:10:58
Available Memory(GB): 23.24
Current CPU Percentage: 50.94
Average cores per hour: 2.04
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore
Timing: 0: 0: 1
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.64996e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.266002
Multi_Cores Iterative Solver:Total spent Wall Time 0.402000
>>End Solving
Solving 00:00:01 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12481.000000ms
Start solving for TOmega 4.100000e-03
Assembling matrices for Time 4.100000e-03
Assembling matrices for Time 4.100000e-03
Progress: 56%
Estimated Time: 0:24:38

Remaining Time: 0:10:38
Available Memory(GB): 23.22
Current CPU Percentage: 49.70
Average cores per hour: 1.99
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore
Timing: 0: 0: 2
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: 167 , true residual: 3.68098e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.250359
Multi_Cores Iterative Solver:Total spent Wall Time 0.375000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12171.000000ms
Start solving for TOmega 4.200000e-03
Assembling matrices for Time 4.200000e-03
Assembling matrices for Time 4.200000e-03
Progress: 58%
Estimated Time: 0:24:38
Remaining Time: 0:10:18
Available Memory(GB): 23.14
Current CPU Percentage: 50.72
Average cores per hour: 2.03
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore

Timing: 0: 0: 2
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: 167 , true residual: 3.68816e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.255273
Multi_Cores Iterative Solver:Total spent Wall Time 0.387000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 0:0:12
Write Solution PerPart Timing: 12208.000000ms
Start solving for TOmega 4.300000e-03
Assembling matrices for Time 4.300000e-03
Assembling matrices for Time 4.300000e-03
Progress: 59%
Estimated Time: 0:24:38
Remaining Time: 0:9:58
Available Memory(GB): 23.06
Current CPU Percentage: 50.50
Average cores per hour: 2.02
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore
Timing: 0: 0: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.69254e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.249651
Multi_Cores Iterative Solver:Total spent Wall Time 0.373000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12211.000000ms
Start solving for TOmega 4.400000e-03
Assembling matrices for Time 4.400000e-03
Assembling matrices for Time 4.400000e-03
Progress: 60%
Estimated Time: 0:24:38
Remaining Time: 0:9:38
Available Memory(GB): 23.06
Current CPU Percentage: 50.67
Average cores per hour: 2.03
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore Timing: 0: 0: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.64542e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.268621
Multi_Cores Iterative Solver:Total spent Wall Time 0.403000
>>End Solving
 Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
 Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 1
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12305.000000ms
Start solving for TOmega 4.500000e-03
Assembling matrices for Time 4.500000e-03
Assembling matrices for Time 4.500000e-03
Progress: 62%
Estimated Time: 0:24:38
Remaining Time: 0:9:18
Available Memory(GB): 22.96
Current CPU Percentage: 49.58
Average cores per hour: 1.98
 CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore Timing: 0: 0: 2
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: 167 , true residual: 3.66779e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.260028

Multi_Cores Iterative Solver:Total spent Wall Time 0.359000
>>End Solving
 Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
 Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 2
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12252.000000ms
Start solving for TOmega 4.600000e-03
Assembling matrices for Time 4.600000e-03
Assembling matrices for Time 4.600000e-03
Progress: 63%
Estimated Time: 0:24:38
Remaining Time: 0:8:58
Available Memory(GB): 22.94
Current CPU Percentage: 50.20
Average cores per hour: 2.01
 CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore Timing: 0: 0: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.65328e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.261602
Multi_Cores Iterative Solver:Total spent Wall Time 0.332000
>>End Solving
 Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
 Main call: Finished scanning the solution file for the multi-core solver: Dimension =

149386 File size = 1195088 Timing: 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: 2
Write Solution PerPart Timing: 0:0:13
Write Solution PerPart Timing: 12321.000000ms
Start solving for TOmega 4.700000e-03
Assembling matrices for Time 4.700000e-03
Assembling matrices for Time 4.700000e-03
Progress: 64%
Estimated Time: 0:24:38
Remaining Time: 0:8:38
Available Memory(GB): 22.83
Current CPU Percentage: 50.11
Average cores per hour: 2.00
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore
Timing: 0: 0: 1
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: 167 , true residual: 3.65094e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.249671
Multi_Cores Iterative Solver:Total spent Wall Time 0.378000
>>End Solving
Solving 00:00:01 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension =
149386 File size = 1195088 Timing: 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: 2
Progress: 66%
Estimated Time: 0:24:38
Remaining Time: 0:8:18
Available Memory(GB): 22.85
Current CPU Percentage: 50.56
Average cores per hour: 2.02
Write Solution PerPart Timing: 0:0:13
Write Solution PerPart Timing: 12358.000000ms
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: 1
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.62447e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.269244
Multi_Cores Iterative Solver:Total spent Wall Time 0.384000
>>End Solving
Solving 00:00:01 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 1
Progress: 67%
Estimated Time: 0:24:38
Remaining Time: 0:7:58

Available Memory(GB): 22.81
Current CPU Percentage: 50.66
Average cores per hour: 2.03
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12283.000000ms
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: 2
CTransientMagneticStudy::AssembleGlobalForTransientMagneticIterativeMulticore :Memory 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: 167 , true residual: 3.664e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.255673
Multi_Cores Iterative Solver:Total spent Wall Time 0.372000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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: 1
Progress: 69%
Estimated Time: 0:24:38
Remaining Time: 0:7:38
Available Memory(GB): 22.75
Current CPU Percentage: 50.32
Average cores per hour: 2.01
Write Solution PerPart Timing: 0:0:12
Write Solution PerPart Timing: 12375.000000ms

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: 2
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: 167 , true residual: 3.61889e-16
Multi_Cores Iterative Solver:Total spent Cpu Time 0.264763
Multi_Cores Iterative Solver:Total spent Wall Time 0.311000
>>End Solving
Solving 00:00:00 Dimension 149386 Non_Zeroes 1045218
reading file
Main call: Finished scanning the solution file for the multi-core solver: Dimension = 149386 File size = 1195088 Timing: 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