Summary Report: Standard_CL

Session Summary	
Date	30 août 2020 18:06:55
Simulation	D:\HAVLIKOVA\CL simulation\Standard_CL.sim
File size	8,1e+02 MB
Number of Partitions	1
Number of Restored Partitions	1
Software Summary	
Version	BuildArch: win64 BuildEnv: intel16.3 ReleaseDate: Fri Nov 9 17:40:30 UTC 2018 ReleaseNumber: 13.06.012
Hardware Summary	
Hosts	Number Processes: 1 Rank[0]: CL-CALCUL-USI02.intram.ensam.eu

Simulation Properties

1 **Standard_CL**
+-1 Continua
| +-1 **Drill**

Continua	3
Regions	[Drill]
Interfaces	[Drill/Fluid 1, Drill/Fluid 1 2, Drill/Fluid 2, Drill/Fluid 2 2]
Point Sets	[]
Active	true
Tags	[]

| | +-1 Models
| | | +-1 Cell Quality Remediation
| | | +-2 Constant Density
| | | +-3 Gradients

Gradient Method	Hybrid Gauss-LSQ
Limiter Method	Venkatakrishnan
Custom Accuracy Level Selector	2.0
Verbose	false
Least-Squares Quality Criterion	true
Flat Cells Curvature Criterion	true
Cell Skewness Criterion	true
Chevron-Cell Criterion	true
Least-Squares Tensor Minimum Eigenvalues Ratio	0.1
Normalized Flat Cells Curvature Factor	1.0
Maximum Safe (Positive) Skewness Angle (deg)	75.0
Minimum Unsafe (Positive) Skewness Angle (deg)	88.0
Use TVB Gradient Limiting	false
Acceptable Field Variation (Factor)	0.05
Secondary Gradients	On

+-4 Segregated Solid Energy
| | | +-5 Solid

Database Material	W (Tungsten) [Standard/Solids]

| | | | `-1 **WC-Co 10%**		
| | | | |	Tags	[]
| | | | `-1 Material Properties		
| | | | +-1 Density	Method	Constant
| | | | | `-1 Constant	Value	14500.0 kg/m^3
| | | | +-2 Specific Heat	Method	Constant
| | | | | `-1 Constant	Value	134.0 J/kg-K
| | | | `-3 Thermal Conductivity	Method	Constant
| | | | `-1 Constant	Value	60.0 W/m-K
| | | +-6 Steady	Continuum Iteration	1000
| | | `-7 Three Dimensional		
| | +-2 Reference Values		
| | | +-1 Minimum Allowable Temperature	Value	100.0 K
| | | `-2 Maximum Allowable Temperature	Value	5000.0 K
| | `-3 Initial Conditions		
| | `-1 Static Temperature	Method	Constant
| | `-1 Constant	Value	293.15 K
| +-2 **Fluid**	Regions	[Fluid 1, Fluid 2]
| | |	Interfaces	[Drill/Fluid 1, Drill/Fluid 1 2, Drill/Fluid 2, Drill/Fluid 2 2, Fluid 1/Fluid 2]
| | |	Point Sets	[]
| | |	Active	true
| | |	Tags	[]
| | +-1 Models		
| | | +-1 All y+ Wall Treatment	Iterative Ustar	false
| | | +-2 Cell Quality Remediation		
| | | +-3 Constant Density		
| | | +-4 Exact Wall Distance		
| | | +-5 Gradients	Gradient Method	Hybrid Gauss-LSQ
| | | |	Limiter Method	Venkatakrishnan
| | | |	Custom Accuracy Level Selector	2.0
| | | |	Verbose	false
| | | |	Least-Squares Quality Criterion	true
| | | |	Flat Cells Curvature Criterion	true
| | | |	Cell Skewness Criterion	true
| | | |	Chevron-Cell Criterion	true
| | | |	Least-Squares Tensor Minimum Eigenvalues Ratio	0.1
| | | |	Normalized Flat Cells Curvature Factor	1.0
| | | |	Maximum Safe (Positive) Skewness Angle (deg)	75.0
| | | |		

Minimum Unsafe (Positive) Skewness Angle (deg)	88.0
Use TVB Gradient Limiting	false
Acceptable Field Variation (Factor)	0.05

+-6 Gravity

+-7 K-Omega Turbulence

+-8 Liquid

`-1 **H2O**

Database Material	H2O (Water) [Standard/Liquids]
Tags	[]

`-1 Material Properties

+-1 Density

Method	Constant

`-1 Constant

Value	997.561 kg/m^3

+-2 Dynamic Viscosity

Method	Constant

`-1 Constant

Value	8.8871E-4 Pa-s

+-3 Specific Heat

Method	Constant

`-1 Constant

Value	4181.72 J/kg-K

+-4 Thermal Conductivity

Method	Constant

`-1 Constant

Value	0.620271 W/m-K

`-5 Turbulent Prandtl Number

Method	Constant

`-1 Constant

Value	0.9

+-9 Reynolds-Averaged Navier-Stokes

+-10 Segregated Flow

Gauss Pressure Correction Gradient	false
Minimum Absolute Pressure	1000.0 Pa
Positivity Rate Limit	0.2
Flow Boundary Diffusion	true
Unsteady Flux Dissipation Corrections	false
Limit Acoustic-CFL Option	Per-Model
Secondary Gradients	On
Convection	2nd-order
Delta-V Dissipation	Off

+-11 Segregated Fluid Temperature

Secondary Gradients	On
Convection	2nd-order
Flow Boundary Diffusion	true

+-12 SST (Menter) K-Omega

Curvature Correction Option	Off
Realizability Option	Durbin Scale Limiter
Compressibility Correction	true
Low Re Damping Modification	false
Convection	2nd-order
Normal Stress Term	false
Tke Minimum	1.0E-10
Sdr Minimum	1.0E-10

| | | | |	Secondary Gradients	On
| | | | |	Kappa	0.41
| | | | |	BetaStar	0.09
| | | | |	Beta1	0.075
| | | | |	Sigma_k1	0.85
| | | | |	Sigma_w1	0.5
| | | | |	Beta2	0.0828
| | | | |	Sigma_k2	1.0
| | | | |	Sigma_w2	0.856
| | | | |	Constitutive Option	Linear
| | | | |	a1	0.31
| | | | +-1 Compressibility Parameters	Zeta_Star	1.5
| | | | `-2 Realizability Coefficient	Realizability Coefficient	0.6000000238418579
| | | +-13 Steady	Continuum Iteration	1000
| | | +-14 Three Dimensional		
| | | `-15 Turbulent		
| | +-2 Reference Values		
| | | +-1 Gravity	Value	[0.0, -9.81, 0.0] m/s^2
| | | +-2 Reference Altitude	Value	[0.0, 0.0, 0.0] m
| | | +-3 Minimum Allowable Wall Distance	Value	1.0E-6 m
| | | +-4 Reference Pressure	Value	1.01325 bar
| | | +-5 Minimum Allowable Temperature	Value	100.0 K
| | | `-6 Maximum Allowable Temperature	Value	5000.0 K
| | `-3 Initial Conditions		
| | +-1 Pressure	Method	Constant
| | | `-1 Constant	Value	20.0 bar
| | +-2 Static Temperature	Method	Constant
| | | `-1 Constant	Value	293.15 K
| | +-3 Turbulence Intensity	Method	Constant
| | | `-1 Constant	Value	0.01
| | +-4 Turbulence Specification	Method	Intensity + Length Scale
| | +-5 Turbulent Length Scale	Method	Constant
| | | `-1 Constant	Value	0.01 m
| | +-6 Turbulent Velocity Scale	Method	Constant
| | | `-1 Constant	Value	1.0 m/s
| | `-7 Velocity	Method	Constant
| | |	Coordinate System	Laboratory
	Value	[0.0, -30.0, 0.0] m/s

| | `-1 Constant		
| `-3 **Mesh 1**	Regions	[Drill, Fluid 1, Fluid 2]
| |	Interfaces	[Drill/Fluid 1, Drill/Fluid 1 2, Drill/Fluid 2, Drill/Fluid 2 2, Fluid 1/Fluid 2]
| |	Point Sets	[]
| |	OOC Translation	false
| |	Verbose Output	false
| |	Per-Region Meshing	false
| |	Enable Parallel Meshing	false
| |	Interpolation Option	Nearest neighbor
| |	Tags	[]
| +-1 Models		
| | +-1 Polyhedral Mesher	Enable Mesh Expansion Control	false
| | |	Run Optimizer	true
| | |	Include Refinement	false
| | |	Optimization Cycles	1
| | |	Quality Threshold	0.4
| | +-2 Prism Layer Mesher	Stretching Function	Geometric Progression
| | |	Stretching Mode	Stretch Factor
| | |	Gap Fill Percentage	25.0
| | |	Minimum Thickness Percentage	10.0
| | |	Layer Reduction Percentage	50.0
| | |	Boundary March Angle	50.0
| | |	Concave Angle Limit	0.0
| | |	Convex Angle Limit	360.0
| | |	Near Core Layer Aspect Ratio	0.0
| | |	Generate Standard Cells Only	false
| | |	Improve Subsurface Quality	true
| | `-3 Surface Remesher	Do Curvature Refinement	true
| |	Do Proximity Refinement	true
| |	Do Compatibility Refinement	false
| |	Retain Geometric Features	true
| |	Create Aligned Meshes	true
| |	Minimum Face Quality	0.05
| |	Enable Automatic Surface Repair	true
| +-2 Reference Values		
| | +-1 Base Size	Base Size	error
| | |	Base Size	error
| | +-2 Automatic Surface Repair	Connected Surface Count Limit	None
| | | |	Connected Surface Size Limits	None
| | | +-1 Minimum Proximity	Minimum Proximity	0.05
| | | `-2 Minimum Quality	Minimum Quality	0.01
| | +-3 CAD Projection	Project to CAD	true
| | +-4 Number of Prism Layers	Number of Prism Layers	4
| | +-5 Prism Layer Stretching	Prism Layer Stretching	1.5
| | +-6 Prism Layer Thickness	Size Type	Relative to base
| | |	Percentage of Base	23.0
| | |	Absolute Size	8.05E-5 m
	Enable Curvature Deviation Distance	false

| | +-7 Surface Curvature		
| | |	# Pts/circle	36.0
| | |	Max # Pts/circle	200.0
| | |	Curvature Deviation Distance	0.01 m
| | +-8 Surface Growth Rate	Surface Growth Rate	1.3
| | +-9 Surface Proximity	Search Floor	0.0 m
| | |	# Points in gap	2.0
| | |	Enable Search Ceiling	false
| | |	Search Ceiling	1.0E10 m
| | +-10 Surface Size	Relative/Absolute	Relative to base
| | | |	Size Method	Min and Target
| | | +-1 Relative Minimum Size	Percentage of Base	error
| | | |	Absolute Size	0.08749999999999998 mm
| | | `-2 Relative Target Size	Percentage of Base	error
| | |	Absolute Size	0.3499999999999999 mm
| | +-11 Tet/Poly Density	Density	1.0
| | |	Growth Factor	1.0
| | `-12 Tet/Poly Volume Blending	Blending Factor	1.0
| `-3 Volumetric Controls		
| `-1 **Volumetric Control 1**	Parts	[Block]
| |	Shapes	[]
| |	Tags	[]
| +-1 Mesh Conditions		
| | +-1 Polyhedral Mesher	Customize Polyhedral Mesher	Enabled
| | +-2 Prism Layer Mesher	Customize Prism Layer Mesher	Disabled
| | `-3 Surface Remesher	Customize Surface Remesher	Enabled
| `-2 Mesh Values		
| | `-1 Custom Size	Size Type	Relative to base
| | | `-1 Relative Size	Percentage of Base	error
| |	Absolute Size	0.07 mm
+-2 Interfaces	Verbosity	false
| |	Contact Selection Priority	[Drill/Fluid 1, Drill/Fluid 1 2, Drill/Fluid 2, Drill/Fluid 2 2, Fluid 1/Fluid 2]
| |	Interfaces	5
| | +-1 **Drill/Fluid 1**	Allow Per-Contact Values	false
| | |	Geometry	Boundaries
| | |	Boundary-0	Drill: Interface
| | |	Boundary-1	Fluid 1: Drill Interface
| | |	Contacts	[]
| | |	Type	Contact Interface
| | |	Topology	In-place
| | |	Connectivity	Imprinted
| | |	Tags	[]

| | +-1 Mesh Conditions		
| | | +-1 Custom Surface Curvature	Custom Curvature	Use Continuum Values
| | | +-2 Custom Surface Proximity	Custom Proximity	Use Continuum Values
| | | +-3 Custom Surface Size	Custom Surface Size	Disabled
| | | +-4 Customize Surface Remeshing	Disable Surface Remeshing	Disabled
| | | `-5 Interface Prism Layer Option	Grow Prisms From Interface	true
| | +-2 Physics Conditions		
| | | +-1 Energy Source Option	Energy Source Option	None
| | | `-2 Thermal Specification	Condition	Conjugate Heat Transfer
| | `-3 Physics Values		
| | +-1 Contact Resistance	Method	Constant
| | | `-1 Constant	Value	0.0 m^2-K/W
| | `-2 Intersection	Specify by Part Subgroup	false
| | `-1 Intersection tolerance	Value	0.05
| +-2 **Drill/Fluid 1 2**	Allow Per-Contact Values	false
| | |	Geometry	Boundaries
| | |	Boundary-0	Drill: Heat Source 1
| | |	Boundary-1	Fluid 1: Drill Interface
| | |	Contacts	[]
| | |	Type	Contact Interface
| | |	Topology	In-place
| | |	Connectivity	Imprinted
| | |	Tags	[]
| | +-1 Mesh Conditions		
| | | +-1 Custom Surface Curvature	Custom Curvature	Use Continuum Values
| | | +-2 Custom Surface Proximity	Custom Proximity	Use Continuum Values
| | | +-3 Custom Surface Size	Custom Surface Size	Disabled
| | | +-4 Customize Surface Remeshing	Disable Surface Remeshing	Disabled
| | | `-5 Interface Prism Layer Option	Grow Prisms From Interface	true
| | +-2 Physics Conditions		
| | | +-1 Energy Source Option	Energy Source Option	Heat Flux
| | | `-2 Thermal Specification	Condition	Conjugate Heat Transfer
| | `-3 Physics Values		
| | +-1 Contact Resistance	Method	Constant
| | | `-1 Constant	Value	0.0 m^2-K/W
| | +-2 Heat Flux	Method	Field Function

| | | `-1 Field Function	Scalar Function	MappedHeatFlux2
| | `-3 Intersection	Specify by Part Subgroup	false
| | `-1 Intersection tolerance	Value	0.05
| +-3 **Drill/Fluid 2**	Allow Per-Contact Values	false
| | |	Geometry	Boundaries
| | |	Boundary-0	Drill: Interface
| | |	Boundary-1	Fluid 2: Drill Interface
| | |	Contacts	[]
| | |	Type	Contact Interface
| | |	Topology	In-place
| | |	Connectivity	Imprinted
| | |	Tags	[]
| | +-1 Mesh Conditions		
| | | +-1 Custom Surface Curvature	Custom Curvature	Use Continuum Values
| | | +-2 Custom Surface Proximity	Custom Proximity	Use Continuum Values
| | | +-3 Custom Surface Size	Custom Surface Size	Disabled
| | | +-4 Customize Surface Remeshing	Disable Surface Remeshing	Disabled
| | | `-5 Interface Prism Layer Option	Grow Prisms From Interface	true
| | +-2 Physics Conditions		
| | | +-1 Energy Source Option	Energy Source Option	None
| | | `-2 Thermal Specification	Condition	Conjugate Heat Transfer
| | `-3 Physics Values		
| | +-1 Contact Resistance	Method	Constant
| | | `-1 Constant	Value	0.0 m^2-K/W
| | `-2 Intersection	Specify by Part Subgroup	false
| | `-1 Intersection tolerance	Value	0.05
| +-4 **Drill/Fluid 2 2**	Allow Per-Contact Values	false
| | |	Geometry	Boundaries
| | |	Boundary-0	Drill: Heat Source 2
| | |	Boundary-1	Fluid 2: Drill Interface
| | |	Contacts	[]
| | |	Type	Contact Interface
| | |	Topology	In-place
| | |	Connectivity	Imprinted
| | |	Tags	[]
| | +-1 Mesh Conditions		
| | | +-1 Custom Surface Curvature	Custom Curvature	Use Continuum Values
| | | +-2 Custom Surface Proximity	Custom Proximity	Use Continuum Values
| | | +-3 Custom Surface Size	Custom Surface Size	Disabled
| | | +-4 Customize Surface Remeshing	Disable Surface Remeshing	Disabled

| | | `-5 Interface Prism Layer Option	Grow Prisms From Interface	true
| | +-2 Physics Conditions		
| | | +-1 Energy Source Option	Energy Source Option	Heat Flux
| | | `-2 Thermal Specification	Condition	Conjugate Heat Transfer
| | `-3 Physics Values		
| | +-1 Contact Resistance	Method	Constant
| | | `-1 Constant	Value	0.0 m^2-K/W
| | +-2 Heat Flux	Method	Field Function
| | | `-1 Field Function	Scalar Function	MappedHeatFlux2
| | `-3 Intersection	Specify by Part Subgroup	false
| | `-1 Intersection tolerance	Value	0.05
| `-5 **Fluid 1/Fluid 2**	Allow Per-Contact Values	false
| |	Geometry	Boundaries
| |	Boundary-0	Fluid 1: Fluid Interface
| |	Boundary-1	Fluid 2: Fluid Interface
| |	Contacts	[]
| |	Type	Internal Interface
| |	Topology	In-place
| |	Connectivity	Imprinted
| |	Tags	[]
| +-1 Mesh Conditions		
| | +-1 Custom Surface Curvature	Custom Curvature	Use Continuum Values
| | +-2 Custom Surface Proximity	Custom Proximity	Use Continuum Values
| | +-3 Custom Surface Size	Custom Surface Size	Disabled
| | +-4 Customize Surface Remeshing	Disable Surface Remeshing	Disabled
| | `-5 Interface Prism Layer Option	Grow Prisms From Interface	false
| `-2 Physics Values		
| `-1 Intersection	Specify by Part Subgroup	false
| `-1 Intersection tolerance	Value	0.05
+-3 Regions	Part Selection Priority	[Drill, Fluid 1, Fluid 2]
| |	Regions	3
| +-1 **Drill**	Index	0
| | |	Mesh Continuum	Mesh 1
| | |	Physics Continuum	Drill
| | |	Parts	[Drill]
| | |	Type	Solid Region
| | |	Allow Per-Part Values	false
| | |	Tags	[]
| | +-1 Boundaries	Part Surface Selection Priority	[Drill: Wall, Drill: Interface, Drill: Heat Source 1, Drill: Heat Source 2, Drill: Interface [Drill/Fluid 1], Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Interface

		[Drill/Fluid 2], Drill: Heat Source 2 [Drill/Fluid 2 2]]
| | | |	Boundaries	8
| | | +-1 **Heat Source 1**	Index	3
| | | | |	Interfaces	Drill/Fluid 1 2
| | | | |	Part Surfaces	[Drill.Heat Source 1]
| | | | |	Type	Wall
| | | | |	Allow Per-Surface Values	false
| | | | |	Tags	[]
| | | | +-1 Mesh Conditions		
| | | | | +-1 Custom Surface Curvature	Custom Curvature	Use Continuum Values
| | | | | +-2 Custom Surface Proximity	Custom Proximity	Use Continuum Values
| | | | | +-3 Custom Surface Size	Custom Surface Size	Disabled
| | | | | +-4 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | | | `-5 Customize Surface Remeshing	Disable Surface Remeshing	Disabled
| | | | +-2 Physics Conditions		
| | | | | +-1 Thermal Specification	Condition	Heat Flux
| | | | | `-2 User Wall Heat Flux Coefficient Specification	Method	None
| | | | `-3 Physics Values		
| | | | `-1 Heat Flux	Method	Field Function
| | | | `-1 Field Function	Scalar Function	MappedHeatFlux2
| | | +-2 **Heat Source 1 [Drill/Fluid 1 2]**	Index	17
| | | | |	Interfaces	
| | | | |	Part Surfaces	[]
| | | | |	Type	Contact Interface Boundary
| | | | |	Allow Per-Contact Values	false
| | | | |	Parent Interface	Drill/Fluid 1 2
| | | | |	Tags	[]
| | | | +-1 Mesh Conditions		
| | | | | `-1 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | | `-2 Physics Conditions		
| | | | `-1 User Wall Heat Flux Coefficient Specification	Method	None
| | | +-3 **Heat Source 2**	Index	4

| | | | |	Interfaces	Drill/Fluid 2 2
| | | | |	Part Surfaces	[Drill.Heat Source 2]
| | | | |	Type	Wall
| | | | |	Allow Per-Surface Values	false
| | | | |	Tags	[]
| | | | +-1 Mesh Conditions		
| | | | | +-1 Custom Surface Curvature	Custom Curvature	Use Continuum Values
| | | | | +-2 Custom Surface Proximity	Custom Proximity	Use Continuum Values
| | | | | +-3 Custom Surface Size	Custom Surface Size	Disabled
| | | | | +-4 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | | | `-5 Customize Surface Remeshing	Disable Surface Remeshing	Disabled
| | | | +-2 Physics Conditions		
| | | | | +-1 Thermal Specification	Condition	Heat Flux
| | | | | `-2 User Wall Heat Flux Coefficient Specification	Method	None
| | | | `-3 Physics Values		
| | | | `-1 Heat Flux	Method	Field Function
| | | | `-1 Field Function	Scalar Function	MappedHeatFlux2
| | | +-4 **Heat Source 2 [Drill/Fluid 2 2]**	Index	21
| | | | |	Interfaces	
| | | | |	Part Surfaces	[]
| | | | |	Type	Contact Interface Boundary
| | | | |	Allow Per-Contact Values	false
| | | | |	Parent Interface	Drill/Fluid 2 2
| | | | |	Tags	[]
| | | | +-1 Mesh Conditions		
| | | | | `-1 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | | `-2 Physics Conditions		
| | | | `-1 User Wall Heat Flux Coefficient Specification	Method	None
| | | +-5 **Interface**	Index	2
| | | | |	Interfaces	Drill/Fluid 1, Drill/Fluid 2
| | | | |	Part Surfaces	[Drill.Interface]
| | | | |	Type	Wall
| | | | |	Allow Per-Surface Values	false
| | | | |	Tags	[]

| | | | +-1 Mesh Conditions		
| | | | | +-1 Custom Surface Curvature	Custom Curvature	Use Continuum Values
| | | | | +-2 Custom Surface Proximity	Custom Proximity	Use Continuum Values
| | | | | +-3 Custom Surface Size	Custom Surface Size	Disabled
| | | | | +-4 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | | | `-5 Customize Surface Remeshing	Disable Surface Remeshing	Disabled
| | | | `-2 Physics Conditions		
| | | | +-1 Thermal Specification	Condition	Adiabatic
| | | | `-2 User Wall Heat Flux Coefficient Specification	Method	None
| | | +-6 **Interface [Drill/Fluid 1]**	Index	15
| | | | |	Interfaces	
| | | | |	Part Surfaces	[]
| | | | |	Type	Contact Interface Boundary
| | | | |	Allow Per-Contact Values	false
| | | | |	Parent Interface	Drill/Fluid 1
| | | | |	Tags	[]
| | | | +-1 Mesh Conditions		
| | | | | `-1 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | | `-2 Physics Conditions		
| | | | `-1 User Wall Heat Flux Coefficient Specification	Method	None
| | | +-7 **Interface [Drill/Fluid 2]**	Index	19
| | | | |	Interfaces	
| | | | |	Part Surfaces	[]
| | | | |	Type	Contact Interface Boundary
| | | | |	Allow Per-Contact Values	false
| | | | |	Parent Interface	Drill/Fluid 2
| | | | |	Tags	[]
| | | | +-1 Mesh Conditions		
| | | | | `-1 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | | `-2 Physics Conditions		
| | | | `-1 User Wall Heat Flux Coefficient Specification	Method	None
| | | `-8 **Wall**	Index	1

| | | |	Interfaces	
| | | |	Part Surfaces	[Drill.Wall]
| | | |	Type	Wall
| | | |	Allow Per-Surface Values	false
| | | |	Tags	[]
| | | +-1 Mesh Conditions		
| | | | +-1 Custom Surface Curvature	Custom Curvature	Use Continuum Values
| | | | +-2 Custom Surface Proximity	Custom Proximity	Use Continuum Values
| | | | +-3 Custom Surface Size	Custom Surface Size	Disabled
| | | | +-4 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | | `-5 Customize Surface Remeshing	Disable Surface Remeshing	Disabled
| | | `-2 Physics Conditions		
| | | +-1 Thermal Specification	Condition	Adiabatic
| | | `-2 User Wall Heat Flux Coefficient Specification	Method	None
| | +-2 Feature Curves	Part Curve Selection Priority	[Drill:Default Feature Curve]
| | | |	Feature Curves	1
| | | `-1 **Default Feature Curve**	Part Curves	[Drill.Default]
| | | |	Tags	[]
| | | +-1 Mesh Conditions		
| | | | `-1 Custom Surface Size	Custom Surface Size	Enabled
| | | `-2 Mesh Values		
| | | `-1 Surface Size	Relative/Absolute	Relative to base
| | | |	Size Method	Min and Target
| | | +-1 Relative Minimum Size	Percentage of Base	error
| | | |	Absolute Size	0.08749999999999998 mm
| | | `-2 Relative Target Size	Percentage of Base	error
| | |	Absolute Size	0.3499999999999999 mm
| | +-3 Mesh Conditions		
| | | +-1 Customize Prism Mesh	Customize Prism Mesh	Disable
| | | `-2 Customize Tet/Poly Density	Customize Tet/Poly Density	Disabled
| | +-4 Physics Conditions		
	Option	None

| | | +-1 Convective Velocity Option		
| | | +-2 Energy Source Option	Energy Source Option	None
| | | `-3 Initial Condition Option	Option	Use Continuum Values
| | `-5 Physics Values		
| | `-1 Motion Specification	Motion	Stationary
| |	Reference Frame	Rotating And Translating
| +-2 **Fluid 1**	Index	1
| | |	Mesh Continuum	Mesh 1
| | |	Physics Continuum	Fluid
| | |	Parts	[Fluid 1]
| | |	Type	Fluid Region
| | |	Allow Per-Part Values	false
| | |	Tags	[]
| | +-1 Boundaries	Part Surface Selection Priority	[Fluid 1: Wall, Fluid 1: Drill Interface, Fluid 1: Fluid Interface, Fluid 1: Inlet, Fluid 1: Outlet, Fluid 1: Drill Interface [Drill/Fluid 1], Fluid 1: Drill Interface [Drill/Fluid 1 2], Fluid 1: Fluid Interface [Fluid 1/Fluid 2]]
| | | |	Boundaries	8
| | | +-1 **Drill Interface**	Index	6
| | | | |	Interfaces	Drill/Fluid 1, Drill/Fluid 1 2
| | | | |	Part Surfaces	[Fluid 1.Drill Interface]
| | | | |	Type	Wall
| | | | |	Allow Per-Surface Values	false
| | | | |	Tags	[]
| | | | +-1 Mesh Conditions		
| | | | | +-1 Custom Surface Curvature	Custom Curvature	Use Continuum Values
| | | | | +-2 Custom Surface Proximity	Custom Proximity	Use Continuum Values
| | | | | +-3 Custom Surface Size	Custom Surface Size	Disabled
| | | | | +-4 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | | | `-5 Customize Surface Remeshing	Disable Surface Remeshing	Disabled
| | | | +-2 Physics Conditions		
| | | | | +-1 Reference Frame Specification	Option	Region Reference Frame
| | | | | +-2 Shear Stress Specification	Method	No-Slip
| | | | | +-3 Tangential Velocity Specification	Method	Fixed
	Condition	Adiabatic

| | | | | +-4 Thermal Specification		
| | | | | +-5 User Wall Heat Flux Coefficient Specification	Method	None
| | | | | `-6 Wall Surface Specification	Method	Smooth
| | | | `-3 Physics Values		
| | | | `-1 Blended Wall Function	E	9.0
| | | |	Kappa	0.42
| | | +-2 **Drill Interface [Drill/Fluid 1 2]**	Index	18
| | | | |	Interfaces	
| | | | |	Part Surfaces	[]
| | | | |	Type	Contact Interface Boundary
| | | | |	Allow Per-Contact Values	false
| | | | |	Parent Interface	Drill/Fluid 1 2
| | | | |	Tags	[]
| | | | +-1 Mesh Conditions		
| | | | | `-1 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | | +-2 Physics Conditions		
| | | | | +-1 Reference Frame Specification	Option	Region Reference Frame
| | | | | +-2 Shear Stress Specification	Method	No-Slip
| | | | | +-3 Tangential Velocity Specification	Method	Fixed
| | | | | +-4 User Wall Heat Flux Coefficient Specification	Method	None
| | | | | `-5 Wall Surface Specification	Method	Smooth
| | | | `-3 Physics Values		
| | | | `-1 Blended Wall Function	E	9.0
| | | |	Kappa	0.42
| | | +-3 **Drill Interface [Drill/Fluid 1]**	Index	16
| | | | |	Interfaces	
| | | | |	Part Surfaces	[]
| | | | |	Type	Contact Interface Boundary
| | | | |	Allow Per-Contact Values	false
| | | | |	Parent Interface	Drill/Fluid 1
| | | | |	Tags	[]
| | | | +-1 Mesh Conditions		
| | | | | `-1 Customize Prism Mesh	Customize Prism Mesh	Use Default Values

| | | | +-2 Physics Conditions		
| | | | | +-1 Reference Frame Specification	Option	Region Reference Frame
| | | | | +-2 Shear Stress Specification	Method	No-Slip
| | | | | +-3 Tangential Velocity Specification	Method	Fixed
| | | | | +-4 User Wall Heat Flux Coefficient Specification	Method	None
| | | | | `-5 Wall Surface Specification	Method	Smooth
| | | | `-3 Physics Values		
| | | | `-1 Blended Wall Function	E	9.0
| | | |	Kappa	0.42
| | | +-4 **Fluid Interface**	Index	7
| | | | |	Interfaces	Fluid 1/Fluid 2
| | | | |	Part Surfaces	[Fluid 1.Fluid Interface]
| | | | |	Type	Wall
| | | | |	Allow Per-Surface Values	false
| | | | |	Tags	[]
| | | | +-1 Mesh Conditions		
| | | | | +-1 Custom Surface Curvature	Custom Curvature	Use Continuum Values
| | | | | +-2 Custom Surface Proximity	Custom Proximity	Use Continuum Values
| | | | | +-3 Custom Surface Size	Custom Surface Size	Disabled
| | | | | +-4 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | | | `-5 Customize Surface Remeshing	Disable Surface Remeshing	Disabled
| | | | +-2 Physics Conditions		
| | | | | +-1 Reference Frame Specification	Option	Region Reference Frame
| | | | | +-2 Shear Stress Specification	Method	No-Slip
| | | | | +-3 Tangential Velocity Specification	Method	Fixed
| | | | | +-4 Thermal Specification	Condition	Adiabatic
| | | | | +-5 User Wall Heat Flux Coefficient Specification	Method	None

| | | | | `-6 Wall Surface Specification	Method	Smooth
| | | | `-3 Physics Values		
| | | | `-1 Blended Wall Function	E	9.0
| | | |	Kappa	0.42
| | | +-5 **Fluid Interface [Fluid 1/Fluid 2]**	Index	23
| | | |	Interfaces	
| | | |	Part Surfaces	[]
| | | |	Type	Internal Interface Boundary
| | | |	Allow Per-Contact Values	false
| | | |	Parent Interface	Fluid 1/Fluid 2
| | | |	Tags	[]
| | | +-6 **Inlet**	Index	8
| | | | |	Interfaces	
| | | | |	Part Surfaces	[Fluid 1.Inlet]
| | | | |	Type	Mass Flow Inlet
| | | | |	Allow Per-Surface Values	false
| | | | |	Tags	[]
| | | | +-1 Mesh Conditions		
| | | | | +-1 Custom Surface Curvature	Custom Curvature	Use Continuum Values
| | | | | +-2 Custom Surface Proximity	Custom Proximity	Use Continuum Values
| | | | | +-3 Custom Surface Size	Custom Surface Size	Disabled
| | | | | +-4 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | | | `-5 Customize Surface Remeshing	Disable Surface Remeshing	Disabled
| | | | +-2 Physics Conditions		
| | | | | +-1 Flow Direction Specification	Method	Boundary-Normal
| | | | | +-2 Mass Flow Option	Specification Option	Mass Flow Rate
| | | | | +-3 Reference Frame Specification	Option	Lab Frame
| | | | | `-4 Turbulence Specification	Method	Intensity + Length Scale
| | | | `-3 Physics Values		
| | | | +-1 Mass Flow Rate	Method	Constant
| | | | | `-1 Constant	Value	0.03625 kg/s
| | | | +-2 Total Temperature	Method	Constant
| | | | | `-1 Constant	Value	293.15 K
	Method	Constant

| | | | +-3 Turbulence Intensity		
| | | | | `-1 Constant	Value	0.04
| | | | `-4 Turbulent Length Scale	Method	Constant
| | | | `-1 Constant	Value	0.098 mm
| | | +-7 **Outlet**	Index	9
| | | | |	Interfaces	
| | | | |	Part Surfaces	[Fluid 1.Outlet]
| | | | |	Type	Pressure Outlet
| | | | |	Allow Per-Surface Values	false
| | | | |	Tags	[]
| | | | +-1 Mesh Conditions		
| | | | | +-1 Custom Surface Curvature	Custom Curvature	Use Continuum Values
| | | | | +-2 Custom Surface Proximity	Custom Proximity	Use Continuum Values
| | | | | +-3 Custom Surface Size	Custom Surface Size	Disabled
| | | | | +-4 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | | | `-5 Customize Surface Remeshing	Disable Surface Remeshing	Disabled
| | | | +-2 Physics Conditions		
| | | | | +-1 Backflow Specification	Direction	Boundary-Normal
| | | | | |	Pressure	Environmental
| | | | | +-2 Pressure Outlet Option	Option	None
| | | | | +-3 Reference Frame Specification	Option	Lab Frame
| | | | | `-4 Turbulence Specification	Method	Intensity + Length Scale
| | | | `-3 Physics Values		
| | | | +-1 Pressure	Method	Constant
| | | | | `-1 Constant	Value	0.0 bar
| | | | +-2 Static Temperature	Method	Constant
| | | | | `-1 Constant	Value	293.15 K
| | | | +-3 Turbulence Intensity	Method	Constant
	Value	0.0045

| | | | | `-1 Constant		
| | | | `-4 Turbulent Length Scale	Method	Constant
| | | | `-1 Constant	Value	0.076 mm
| | | `-8 **Wall**	Index	5
| | | |	Interfaces	
| | | |	Part Surfaces	[Fluid 1.Wall]
| | | |	Type	Wall
| | | |	Allow Per-Surface Values	false
| | | |	Tags	[]
| | | +-1 Mesh Conditions		
| | | | +-1 Custom Surface Curvature	Custom Curvature	Use Continuum Values
| | | | +-2 Custom Surface Proximity	Custom Proximity	Use Continuum Values
| | | | +-3 Custom Surface Size	Custom Surface Size	Disabled
| | | | +-4 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | | `-5 Customize Surface Remeshing	Disable Surface Remeshing	Disabled
| | | +-2 Physics Conditions		
| | | | +-1 Reference Frame Specification	Option	Region Reference Frame
| | | | +-2 Shear Stress Specification	Method	No-Slip
| | | | +-3 Tangential Velocity Specification	Method	Fixed
| | | | +-4 Thermal Specification	Condition	Adiabatic
| | | | +-5 User Wall Heat Flux Coefficient Specification	Method	None
| | | | `-6 Wall Surface Specification	Method	Smooth
| | | `-3 Physics Values		
| | | `-1 Blended Wall Function	E	9.0
| | |	Kappa	0.42
| | +-2 Feature Curves	Part Curve Selection Priority	[Fluid 1:Default Feature Curve]
| | | |	Feature Curves	1
| | | `-1 **Default Feature Curve**	Part Curves	[Fluid 1.Default]
| | | |	Tags	[]
| | | +-1 Mesh Conditions		

| | | | `-1 Custom Surface Size	Custom Surface Size	Enabled
| | | `-2 Mesh Values		
| | | `-1 Surface Size	Relative/Absolute	Relative to base
| | | | +-1 Relative Minimum Size	Size Method	Min and Target
	Percentage of Base	error
| | | |	Absolute Size	0.08749999999999998 mm
| | | `-2 Relative Target Size	Percentage of Base	error
| | |	Absolute Size	0.3499999999999999 mm
| | +-3 Mesh Conditions		
| | | +-1 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | `-2 Customize Tet/Poly Density	Customize Tet/Poly Density	Disabled
| | +-4 Physics Conditions		
| | | +-1 Energy Source Option	Energy Source Option	None
| | | +-2 Initial Condition Option	Option	Use Continuum Values
| | | +-3 Mass Source Option	Mass Source Option	Disabled
| | | +-4 Momentum Source Option	Momentum Source Option	None
| | | `-5 Turbulence Source Option	Turbulence Source Option	None
| | `-5 Physics Values		
| | `-1 Motion Specification	Motion	Stationary
| |	Reference Frame	Rotating And Translating
| `-3 **Fluid 2**	Index	2
| |	Mesh Continuum	Mesh 1
| |	Physics Continuum	Fluid
| |	Parts	[Fluid 2]
| |	Type	Fluid Region
| |	Allow Per-Part Values	false
| |	Tags	[]
| +-1 Boundaries	Part Surface Selection Priority	[Fluid 2: Wall, Fluid 2: Drill Interface, Fluid 2: Fluid Interface, Fluid 2: Inlet, Fluid 2: Outlet, Fluid 2: Drill Interface [Drill/Fluid 2], Fluid 2: Drill Interface [Drill/Fluid 2 2], Fluid 2: Fluid Interface [Fluid 1/Fluid 2]]
| | |	Boundaries	8
| | +-1 **Drill Interface**	Index	11
| | | |	Interfaces	Drill/Fluid 2, Drill/Fluid 2 2
| | | |	Part Surfaces	[Fluid 2.Drill Interface]
| | | |	Type	Wall
| | | |	Allow Per-Surface Values	false
| | | |	Tags	[]
| | | +-1 Mesh Conditions		

| | | | +-1 Custom Surface Curvature	Custom Curvature	Use Continuum Values
| | | | +-2 Custom Surface Proximity	Custom Proximity	Use Continuum Values
| | | | +-3 Custom Surface Size	Custom Surface Size	Disabled
| | | | +-4 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | | `-5 Customize Surface Remeshing	Disable Surface Remeshing	Disabled
| | | +-2 Physics Conditions		
| | | | +-1 Reference Frame Specification	Option	Region Reference Frame
| | | | +-2 Shear Stress Specification	Method	No-Slip
| | | | +-3 Tangential Velocity Specification	Method	Fixed
| | | | +-4 Thermal Specification	Condition	Adiabatic
| | | | +-5 User Wall Heat Flux Coefficient Specification	Method	None
| | | | `-6 Wall Surface Specification	Method	Smooth
| | | `-3 Physics Values		
| | | `-1 Blended Wall Function	E	9.0
| | |	Kappa	0.42
| | +-2 **Drill Interface [Drill/Fluid 2 2]**	Index	22
| | | |	Interfaces	
| | | |	Part Surfaces	[]
| | | |	Type	Contact Interface Boundary
| | | |	Allow Per-Contact Values	false
| | | |	Parent Interface	Drill/Fluid 2 2
| | | |	Tags	[]
| | | +-1 Mesh Conditions		
| | | | `-1 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | +-2 Physics Conditions		
| | | | +-1 Reference Frame Specification	Option	Region Reference Frame
| | | | +-2 Shear Stress Specification	Method	No-Slip
	Method	Fixed

| | | | +-3 Tangential Velocity Specification		
| | | | +-4 User Wall Heat Flux Coefficient Specification	Method	None
| | | | `-5 Wall Surface Specification	Method	Smooth
| | | `-3 Physics Values		
| | | `-1 Blended Wall Function	E	9.0
| | |	Kappa	0.42
| | +-3 **Drill Interface [Drill/Fluid 2]**	Index	20
| | | |	Interfaces	
| | | |	Part Surfaces	[]
| | | |	Type	Contact Interface Boundary
| | | |	Allow Per-Contact Values	false
| | | |	Parent Interface	Drill/Fluid 2
| | | |	Tags	[]
| | | +-1 Mesh Conditions		
| | | | `-1 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | +-2 Physics Conditions		
| | | | +-1 Reference Frame Specification	Option	Region Reference Frame
| | | | +-2 Shear Stress Specification	Method	No-Slip
| | | | +-3 Tangential Velocity Specification	Method	Fixed
| | | | +-4 User Wall Heat Flux Coefficient Specification	Method	None
| | | | `-5 Wall Surface Specification	Method	Smooth
| | | `-3 Physics Values		
| | | `-1 Blended Wall Function	E	9.0
| | |	Kappa	0.42
| | +-4 **Fluid Interface**	Index	12
| | | |	Interfaces	Fluid 1/Fluid 2
| | | |	Part Surfaces	[Fluid 2.Fluid Interface]
| | | |	Type	Wall
| | | |	Allow Per-Surface Values	false
| | | |	Tags	[]
| | | +-1 Mesh Conditions		
| | | | +-1 Custom Surface Curvature	Custom Curvature	Use Continuum Values
| | | | +-2 Custom Surface Proximity	Custom Proximity	Use Continuum Values

| | | | +-3 Custom Surface Size	Custom Surface Size	Disabled
| | | | +-4 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | | `-5 Customize Surface Remeshing	Disable Surface Remeshing	Disabled
| | | +-2 Physics Conditions		
| | | | +-1 Reference Frame Specification	Option	Region Reference Frame
| | | | +-2 Shear Stress Specification	Method	No-Slip
| | | | +-3 Tangential Velocity Specification	Method	Fixed
| | | | +-4 Thermal Specification	Condition	Adiabatic
| | | | +-5 User Wall Heat Flux Coefficient Specification	Method	None
| | | | `-6 Wall Surface Specification	Method	Smooth
| | | `-3 Physics Values		
| | | `-1 Blended Wall Function	E	9.0
| | |	Kappa	0.42
| | +-5 **Fluid Interface [Fluid 1/Fluid 2]**	Index	24
| | |	Interfaces	
| | |	Part Surfaces	[]
| | |	Type	Internal Interface Boundary
| | |	Allow Per-Contact Values	false
| | |	Parent Interface	Fluid 1/Fluid 2
| | |	Tags	[]
| | +-6 **Inlet**	Index	13
| | | |	Interfaces	
| | | |	Part Surfaces	[Fluid 2.Inlet]
| | | |	Type	Mass Flow Inlet
| | | |	Allow Per-Surface Values	false
| | | |	Tags	[]
| | | +-1 Mesh Conditions		
| | | | +-1 Custom Surface Curvature	Custom Curvature	Use Continuum Values
| | | | +-2 Custom Surface Proximity	Custom Proximity	Use Continuum Values
| | | | +-3 Custom Surface Size	Custom Surface Size	Disabled
| | | | +-4 Customize Prism Mesh	Customize Prism Mesh	Use Default Values

| | | | `-5 Customize Surface Remeshing	Disable Surface Remeshing	Disabled
| | | +-2 Physics Conditions		
| | | | +-1 Flow Direction Specification	Method	Boundary-Normal
| | | | +-2 Mass Flow Option	Specification Option	Mass Flow Rate
| | | | +-3 Reference Frame Specification	Option	Lab Frame
| | | | `-4 Turbulence Specification	Method	Intensity + Length Scale
| | | `-3 Physics Values		
| | | +-1 Mass Flow Rate	Method	Constant
| | | | `-1 Constant	Value	0.03625 kg/s
| | | +-2 Total Temperature	Method	Constant
| | | | `-1 Constant	Value	293.15 K
| | | +-3 Turbulence Intensity	Method	Constant
| | | | `-1 Constant	Value	0.04
| | | `-4 Turbulent Length Scale	Method	Constant
| | | `-1 Constant	Value	0.098 mm
| | +-7 **Outlet**	Index	14
| | | |	Interfaces	
| | | |	Part Surfaces	[Fluid 2.Outlet]
| | | |	Type	Pressure Outlet
| | | |	Allow Per-Surface Values	false
| | | |	Tags	[]
| | | +-1 Mesh Conditions		
| | | | +-1 Custom Surface Curvature	Custom Curvature	Use Continuum Values
| | | | +-2 Custom Surface Proximity	Custom Proximity	Use Continuum Values
| | | | +-3 Custom Surface Size	Custom Surface Size	Disabled
| | | | +-4 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | | `-5 Customize Surface Remeshing	Disable Surface Remeshing	Disabled
| | | +-2 Physics Conditions		
	Direction	Boundary-Normal

| | | | +-1 Backflow Specification		
| | | | |	Pressure	Environmental
| | | | +-2 Pressure Outlet Option	Option	None
| | | | +-3 Reference Frame Specification	Option	Lab Frame
| | | | `-4 Turbulence Specification	Method	Intensity + Length Scale
| | | `-3 Physics Values		
| | | +-1 Pressure	Method	Constant
| | | | `-1 Constant	Value	0.0 bar
| | | +-2 Static Temperature	Method	Constant
| | | | `-1 Constant	Value	293.15 K
| | | +-3 Turbulence Intensity	Method	Constant
| | | | `-1 Constant	Value	0.0045
| | | `-4 Turbulent Length Scale	Method	Constant
| | | `-1 Constant	Value	0.076 mm
| | `-8 **Wall**	Index	10
| | |	Interfaces	
| | |	Part Surfaces	[Fluid 2.Wall]
| | |	Type	Wall
| | |	Allow Per-Surface Values	false
| | |	Tags	[]
| | +-1 Mesh Conditions		
| | | +-1 Custom Surface Curvature	Custom Curvature	Use Continuum Values
| | | +-2 Custom Surface Proximity	Custom Proximity	Use Continuum Values
| | | +-3 Custom Surface Size	Custom Surface Size	Disabled
| | | +-4 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | | `-5 Customize Surface Remeshing	Disable Surface Remeshing	Disabled
| | +-2 Physics Conditions		
| | | +-1 Reference Frame Specification	Option	Region Reference Frame
	Method	No-Slip

| | | +-2 Shear Stress Specification		
| | | +-3 Tangential Velocity Specification	Method	Fixed
| | | +-4 Thermal Specification	Condition	Adiabatic
| | | +-5 User Wall Heat Flux Coefficient Specification	Method	None
| | | `-6 Wall Surface Specification	Method	Smooth
| | `-3 Physics Values		
| | `-1 Blended Wall Function	E	9.0
| |	Kappa	0.42
| +-2 Feature Curves	Part Curve Selection Priority	[Fluid 2:Default Feature Curve]
| | |	Feature Curves	1
| | `-1 **Default Feature Curve**	Part Curves	[Fluid 2.Default]
| | |	Tags	[]
| | +-1 Mesh Conditions		
| | | `-1 Custom Surface Size	Custom Surface Size	Enabled
| | `-2 Mesh Values		
| | `-1 Surface Size	Relative/Absolute	Relative to base
| | |	Size Method	Min and Target
| | +-1 Relative Minimum Size	Percentage of Base	error
| | |	Absolute Size	0.08749999999999998 mm
| | `-2 Relative Target Size	Percentage of Base	error
| |	Absolute Size	0.3499999999999999 mm
| +-3 Mesh Conditions		
| | +-1 Customize Prism Mesh	Customize Prism Mesh	Use Default Values
| | `-2 Customize Tet/Poly Density	Customize Tet/Poly Density	Disabled
| +-4 Physics Conditions		
| | +-1 Energy Source Option	Energy Source Option	None
| | +-2 Initial Condition Option	Option	Use Continuum Values
| | +-3 Mass Source Option	Mass Source Option	Disabled
| | +-4 Momentum Source Option	Momentum Source Option	None
| | `-5 Turbulence Source Option	Turbulence Source Option	None

| `-5 Physics Values		
| `-1 Motion Specification	Motion	Stationary
|	Reference Frame	Rotating And Translating
+-4 Representations		
| +-1 **Latest Surface/Volume**	Representation	Volume Mesh
| |	Tags	[]
| +-2 **Geometry**	Tags	[]
| | `-1 **Latest Surface**	Tags	[]
| +-3 **Initial Surface**	Faces	682466
| | |	Edges	12291
| | |	Tags	[]
| | `-1 Regions		
| | +-1 Drill	Faces	200428
| | | |	Edges	5603
| | | +-1 Boundaries		
| | | | +-1 Heat Source 1	Faces	437
| | | | +-2 Heat Source 1 [Drill/Fluid 1 2]	Faces	0
| | | | +-3 Heat Source 2	Faces	427
| | | | +-4 Heat Source 2 [Drill/Fluid 2 2]	Faces	0
| | | | +-5 Interface	Faces	196477
| | | | +-6 Interface [Drill/Fluid 1]	Faces	0
| | | | +-7 Interface [Drill/Fluid 2]	Faces	0
| | | | `-8 Wall	Faces	3087
| | | `-2 Feature Curves		
| | | `-1 Default Feature Curve	Edges	5603
| | +-2 Fluid 1	Faces	237228
| | | |	Edges	3412
| | | +-1 Boundaries		
| | | | +-1 Drill Interface	Faces	99261
| | | | +-2 Drill Interface [Drill/Fluid 1 2]	Faces	0
| | | | +-3 Drill Interface [Drill/Fluid 1]	Faces	0
| | | | +-4 Fluid Interface	Faces	2
| | | | +-5 Fluid Interface [Fluid 1/Fluid 2]	Faces	0
| | | | +-6 Inlet	Faces	9
| | | | +-7 Outlet	Faces	160
| | | | `-8 Wall	Faces	137796
| | | `-2 Feature Curves		
	Edges	3412

| | | `-1 Default Feature Curve		
| | `-3 Fluid 2	Faces	244810
| | |	Edges	3276
| | +-1 Boundaries		
| | | +-1 Drill Interface	Faces	98080
| | | +-2 Drill Interface [Drill/Fluid 2 2]	Faces	0
| | | +-3 Drill Interface [Drill/Fluid 2]	Faces	0
| | | +-4 Fluid Interface	Faces	2
| | | +-5 Fluid Interface [Fluid 1/Fluid 2]	Faces	0
| | | +-6 Inlet	Faces	9
| | | +-7 Outlet	Faces	159
| | | `-8 Wall	Faces	146560
| | `-2 Feature Curves		
| | `-1 Default Feature Curve	Edges	3276
| +-4 **Remeshed Surface**	Faces	583310
| | |	Edges	6597
| | |	Tags	[]
| | `-1 Regions		
| | +-1 Drill	Faces	187394
| | | |	Edges	2801
| | | +-1 Boundaries		
| | | | +-1 Heat Source 1	Faces	0
| | | | +-2 Heat Source 1 [Drill/Fluid 1 2]	Faces	563
| | | | +-3 Heat Source 2	Faces	0
| | | | +-4 Heat Source 2 [Drill/Fluid 2 2]	Faces	608
| | | | +-5 Interface	Faces	0
| | | | +-6 Interface [Drill/Fluid 1]	Faces	87430
| | | | +-7 Interface [Drill/Fluid 2]	Faces	87701
| | | | `-8 Wall	Faces	11092
| | | `-2 Feature Curves		
| | | `-1 Default Feature Curve	Edges	2801
| | +-2 Fluid 1	Faces	197414
| | | |	Edges	1894
| | | +-1 Boundaries		
| | | | +-1 Drill Interface	Faces	0
| | | | +-2 Drill Interface [Drill/Fluid 1 2]	Faces	563

| | | | +-3 Drill Interface [Drill/Fluid 1]	Faces	87430
| | | | +-4 Fluid Interface	Faces	0
| | | | +-5 Fluid Interface [Fluid 1/Fluid 2]	Faces	58
| | | | +-6 Inlet	Faces	138
| | | | +-7 Outlet	Faces	264
| | | | `-8 Wall	Faces	108961
| | | `-2 Feature Curves		
| | | `-1 Default Feature Curve	Edges	1894
| | `-3 Fluid 2	Faces	198502
| | | | | +-1 Boundaries	Edges	1902
| | | | +-1 Drill Interface	Faces	0
| | | | +-2 Drill Interface [Drill/Fluid 2 2]	Faces	608
| | | | +-3 Drill Interface [Drill/Fluid 2]	Faces	87701
| | | | +-4 Fluid Interface	Faces	0
| | | | +-5 Fluid Interface [Fluid 1/Fluid 2]	Faces	58
| | | | +-6 Inlet	Faces	138
| | | | +-7 Outlet	Faces	275
| | | | `-8 Wall	Faces	109722
| | | `-2 Feature Curves		
| | | `-1 Default Feature Curve	Edges	1902
| `-5 **Volume Mesh**	Cells	1890890
| |	Interior Faces	10418927
| |	Vertices	8036482
| |	Tags	[]
| | +-1 Finite Volume Regions		
| | | +-1 Drill	Cells	513350
| | | | |	Interior Faces	3499344
| | | | |	Vertices	3082983
| | | | |	Edges	0
| | | | `-1 Finite Volume Boundaries		
| | | | | +-1 Heat Source 1	Faces	0
| | | | | +-2 Heat Source 1 [Drill/Fluid 1 2]	Faces	431
| | | | | +-3 Heat Source 2	Faces	0
| | | | | +-4 Heat Source 2 [Drill/Fluid 2 2]	Faces	461
| | | | | +-5 Interface	Faces	0
| | | | | +-6 Interface [Drill/Fluid 1]	Faces	44767
	Faces	44906

| | | +-7 Interface [Drill/Fluid 2]		
| | | `-8 Wall	Faces	6385
| | +-2 Fluid 1	Cells	687030
| | | |	Interior Faces	3450717
| | | |	Vertices	2469963
| | | |	Edges	0
| | | `-1 Finite Volume Boundaries		
| | | +-1 Drill Interface	Faces	0
| | | +-2 Drill Interface [Drill/Fluid 1 2]	Faces	431
| | | +-3 Drill Interface [Drill/Fluid 1]	Faces	44767
| | | +-4 Fluid Interface	Faces	0
| | | +-5 Fluid Interface [Fluid 1/Fluid 2]	Faces	97
| | | +-6 Inlet	Faces	224
| | | +-7 Outlet	Faces	396
| | | `-8 Wall	Faces	55402
| | `-3 Fluid 2	Cells	690510
| | |	Interior Faces	3468866
| | |	Vertices	2483536
| | |	Edges	0
| | `-1 Finite Volume Boundaries		
| | +-1 Drill Interface	Faces	0
| | +-2 Drill Interface [Drill/Fluid 2 2]	Faces	461
| | +-3 Drill Interface [Drill/Fluid 2]	Faces	44906
| | +-4 Fluid Interface	Faces	0
| | +-5 Fluid Interface [Fluid 1/Fluid 2]	Faces	97
| | +-6 Inlet	Faces	225
| | +-7 Outlet	Faces	405
| | `-8 Wall	Faces	55792
| `-2 Cell Sets		
+-5 Contacts		
| +-1 Drill/Fluid 1	Part 1	[Drill]
| | |	Part 2	[Fluid 1]
| | +-1 Interface/Drill Interface	Part Surface 1	Drill.Interface
| | |	Part Surface 2	Fluid 1.Drill Interface
| | |	Conformality	STRONG_CONTACT
| | |	Metadata	{}
| | |	Index	8
| | |	Interface	[]
| | |	Tags	[]
| | `-2 Heat Source 1/Drill Interface	Part Surface 1	Drill.Heat Source 1
| |	Part Surface 2	Fluid 1.Drill Interface
| |	Conformality	STRONG_CONTACT

│ │	Metadata	{}
│ │	Index	9
│ │	Interface	[]
│ │	Tags	[]
│ +-2 Drill/Fluid 2	Part 1	[Drill]
│ │ │	Part 2	[Fluid 2]
│ │	Part Surface 1	Drill.Interface
+-1 Interface/Drill Interface		
│ │ │	Part Surface 2	Fluid 2.Drill Interface
│ │ │	Conformality	STRONG_CONTACT
│ │ │	Metadata	{}
│ │ │	Index	11
│ │ │	Interface	[]
│ │ │	Tags	[]
│ │ `-2 Heat Source 2/Drill Interface	Part Surface 1	Drill.Heat Source 2
│ │	Part Surface 2	Fluid 2.Drill Interface
│ │	Conformality	STRONG_CONTACT
│ │	Metadata	{}
│ │	Index	12
│ │	Interface	[]
│ │	Tags	[]
│ `-3 Fluid 1/Fluid 2	Part 1	[Fluid 1]
│ │	Part 2	[Fluid 2]
│ `-1 Fluid Interface/Fluid Interface	Part Surface 1	Fluid 1.Fluid Interface
│	Part Surface 2	Fluid 2.Fluid Interface
│	Conformality	STRONG_CONTACT
│	Metadata	{}
│	Index	13
│	Interface	[]
│	Tags	[]
+-6 Parts		
│ +-1 **Block**	Metadata	{}
│ │ │	Index	4
│ │ │	Region	[]
│ │ │	Contacts	[]
│ │ │	Descriptions	[Root]
│ │ │	Face Count	12
│ │ │	Coordinate System	Laboratory
│ │ │	Corner 1	[-0.004253, -0.06273105819180821, -0.004253] m,m,m
│ │ │	Corner 2	[0.004253, -0.0605, 0.004253] m,m,m
│ │ │	Tags	[]
│ │ +-1 Surfaces		
│ │ │ `-1 **Block Surface**	Metadata	{}
│ │ │	Index	16
│ │ │	Boundary	[]
│ │ │	Tags	[]
│ │ `-2 Curves		
│ │ `-1 **Block Curve**	Feature Curve	[]
│ │	Index	4
│ │	Tags	[]
│ +-2 **Drill**	Metadata	{}
│ │ │	Index	1
│ │ │	Region	[Drill]
│ │ │	Contacts	[Fluid 1, Fluid 2]

```
| | |
| | |
| | |
| | +-1 Surfaces
| | | +-1 Heat Source 1
| | | |
| | | |
| | | |
| | | +-2 Heat Source 2
| | | |
| | | |
| | | |
| | | +-3 Interface
| | | |
| | | |
| | | |
| | | `-4 Wall
| | |
| | |
| | |
| | `-2 Curves
| |   `-1 Default
| |
| |
| +-3 Fluid 1
| | |
| | |
| | |
| | |
| | |
| | |
| | +-1 Surfaces
| | | +-1 Drill Interface
| | | |
| | | |
| | | |
| | | +-2 Fluid Interface
| | | |
| | | |
| | | |
| | | +-3 Inlet
| | | |
| | | |
| | | |
| | | +-4 Outlet
| | | |
| | | |
| | | |
| | | `-5 Wall
| | |
| | |
| | |
| | `-2 Curves
| |   `-1 Default
| |
| |
```

Descriptions	[Root]
Face Count	200428
Tags	[]
Metadata	{}
Index	6
Boundary	[Drill: Heat Source 1]
Tags	[]
Metadata	{}
Index	7
Boundary	[Drill: Heat Source 2]
Tags	[]
Metadata	{}
Index	4
Boundary	[Drill: Interface]
Tags	[]
Metadata	{}
Index	1
Boundary	[Drill: Wall]
Tags	[]
Feature Curve	[Drill:Default Feature Curve]
Index	1
Tags	[]
Metadata	{}
Index	2
Region	[Fluid 1]
Contacts	[Drill, Fluid 2]
Descriptions	[Root]
Face Count	237228
Tags	[]
Metadata	{}
Index	8
Boundary	[Fluid 1: Drill Interface]
Tags	[]
Metadata	{}
Index	9
Boundary	[Fluid 1: Fluid Interface]
Tags	[]
Metadata	{}
Index	10
Boundary	[Fluid 1: Inlet]
Tags	[]
Metadata	{}
Index	11
Boundary	[Fluid 1: Outlet]
Tags	[]
Metadata	{}
Index	2
Boundary	[Fluid 1: Wall]
Tags	[]
Feature Curve	[Fluid 1:Default Feature Curve]
Index	2
Tags	[]

`-4 **Fluid 2**	Metadata	{}
	Index	3
	Region	[Fluid 2]
	Contacts	[Drill, Fluid 1]
	Descriptions	[Root]
	Face Count	244810
	Tags	[]
+-1 Surfaces		
+-1 **Drill Interface**	Metadata	{}
	Index	12
	Boundary	[Fluid 2: Drill Interface]
	Tags	[]
+-2 **Fluid Interface**	Metadata	{}
	Index	13
	Boundary	[Fluid 2: Fluid Interface]
	Tags	[]
+-3 **Inlet**	Metadata	{}
	Index	14
	Boundary	[Fluid 2: Inlet]
	Tags	[]
+-4 **Outlet**	Metadata	{}
	Index	15
	Boundary	[Fluid 2: Outlet]
	Tags	[]
`-5 **Wall**	Metadata	{}
	Index	3
	Boundary	[Fluid 2: Wall]
	Tags	[]
`-2 Curves		
`-1 **Default**	Feature Curve	[Fluid 2:Default Feature Curve]
	Index	3
	Tags	[]
+-7 3D-CAD Models		
`-1 **3D-CAD Model 1**	Part Update Method	UPDATE_GEOMETRY
	Tags	[]
+-1 Body Groups		
+-1 **Body 5**	Tags	[]
+-2 **Drill**	Tags	[]
+-3 **Fluid 1**	Tags	[]
`-4 **Fluid 2**	Tags	[]
+-2 Features		
+-1 **XY**	Error Message	
	Origin	[0.0, 0.0, 0.0] m
	X-Axis	[1.0, 0.0, 0.0]
	Y-Axis	[0.0, 1.0, 0.0]
	Tags	[]
+-2 **YZ**	Error Message	
	Origin	[0.0, 0.0, 0.0] m
	X-Axis	[0.0, 1.0, 0.0]
	Y-Axis	[0.0, 0.0, 1.0]
	Tags	[]
+-3 **ZX**	Error Message	
	Origin	[0.0, 0.0, 0.0] m
	X-Axis	[0.0, 0.0, 1.0]
	Y-Axis	[1.0, 0.0, 0.0]
	Tags	[]
	Error Message	

| | +-4 **Global Origin**		
| | |	Position	[0.0, 0.0, 0.0]
| | |	Tags	[]
| | +-5 **Lab Coordinate System**	Error Message	
| | |	Origin	[0.0, 0.0, 0.0]
| | |	X-axis Direction	[1.0, 0.0, 0.0]
| | |	Y-axis Direction	[0.0, 1.0, 0.0]
| | |	Tags	[]
| | +-6 **ImportCad 1**	Error Message	
| | |	Tags	[]
| | +-7 **Extract Internal 1**	Error Message	
| | |	Inner Bodies to Subtract	All
| | |	Transfer Face Names	false
| | |	Transfer Body Names	false
| | |	Body Group	false
| | |	Tags	[]
| | +-8 **Sketch3D 1**	Error Message	
| | |	Coordinate System	Laboratory
| | |	Tags	[]
| | +-9 **Revolve 1**	Error Message	
| | |	Sketch	Sketch3D 1
| | |	Direction	Normal
| | |	Revolve Options	OneWay
| | |	Angle	360.0 deg
| | |	Asymmetric Angle	90.0 deg
| | |	Axis Type	Specified
| | |	Body Type	Sheet
| | |	Body Interaction	Merge
| | |	Bodies to Interact	All
| | |	Tags	[]
| | +-10 **Fill Surface 1**	Error Message	
| | |	Set Tangency at all Edges	false
| | |	Tolerance	1.0E-6 m
| | |	Tags	[]
| | +-11 **Sketch3D 2**	Error Message	
| | |	Coordinate System	Laboratory
| | |	Tags	[]
| | +-12 **Extrude 1**	Error Message	
| | |	Sketch	Sketch3D 2
| | |	Method	Blind
| | |	Direction Type	Specified
| | |	Extrusion Options	OneWay
| | |	Distance	35.0 mm
| | |	Asym. Distance	0.1 m
| | |	Draft	None
| | |	Draft Angle	10.0 deg
| | |	Offset Distance	0.1 m
| | |	Body Type	Solid
| | |	Body Interaction	Merge
| | |	Bodies To Interact	Selected
| | |	Tags	[]
	Error Message	

| | +-13 **Extract External 1**		
| | |	Merge Type	TolerantEdges
| | |	Tolerance	1.0E-5 m
| | |	Allow Non-manifold Condition	false
| | |	Inner Bodies to Subtract	All
| | |	Transfer Face Names	false
| | |	Transfer Body Names	false
| | |	Body Group	false
| | |	Tags	[]
| | +-14 **Sketch 1**	Error Message	
| | |	Tags	[]
| | +-15 **Sketch 2**	Error Message	
| | |	Tags	[]
| | +-16 **Extrude 2**	Error Message	
| | |	Sketch	Sketch 2
| | |	Method	Blind
| | |	Direction Type	Normal
| | |	Extrusion Options	OneWay
| | |	Distance	1.0 mm
| | |	Asym. Distance	0.1 m
| | |	Draft	None
| | |	Draft Angle	10.0 deg
| | |	Offset Distance	0.1 m
| | |	Body Type	Solid
| | |	Body Interaction	Merge
| | |	Bodies To Interact	Selected
| | |	Tags	[]
| | +-17 **Extrude 3**	Error Message	
| | |	Sketch	Sketch 1
| | |	Method	Blind
| | |	Direction Type	Normal
| | |	Extrusion Options	OneWay
| | |	Distance	1.0 mm
| | |	Asym. Distance	0.1 m
| | |	Draft	None
| | |	Draft Angle	10.0 deg
| | |	Offset Distance	0.1 m
| | |	Body Type	Solid
| | |	Body Interaction	Merge
| | |	Bodies To Interact	Selected
| | |	Tags	[]
| | +-18 **Plane 1**	Error Message	
| | |	Origin	[3.0672016208898754E-31, -0.026261358185124532, 1.0906424122032568E-16] m
| | |	X-Axis	[1.0, 1.1679523957855536E-29, -4.850542798657192E-44]
| | |	Y-Axis	[0.0, -4.1530312503830805E-15, -1.0]
| | |	Translation Vector	[0.0, 0.0, 0.0] m
| | |	Rotation Angle	[0.0, 0.0, 0.0] deg
| | |	Origin and X,Y Axes	GlobalOriginAndAxes
| | |	Tags	[]
| | `- 19 **SliceBodies 1**	Error Message	
| |	Keep Side	BackSide
| |	Slice by	Sketch Plane
| |	Sketch Plane	Plane 1

```
|     |
|     |
|     `-3 Design Parameters
+-8 Operations
+-9 Descriptions
| +-1 Root
| +-2 Latest Surface
| |
| |
| |
| `-3 Latest Surface/Volume
+-10 Coordinate Systems
| `-1 Laboratory
|     `-1 Local Coordinate Systems
+-11 Tables
|
+-1 Heat_CL_imp_250
| |
| |
|
+-2 HeatFlux_CL_imp
| |
| |
| `-3 HeatFlux_CL_imp 2
|
|
+-12 Tags
+-13 Units
| +-1 MW/m^2
| |
| |
| |
| |
| |
| |
+-14 Filters
+-15 Custom Trees
+-16 Field Functions
+-17 Parameters
+-18 Volume Shapes
+-19 Data Set Functions
+-20 Update Events
|
+-21 User Code
+-22 Data Focus
+-23 Layouts
| `-1 default
+-24 Data Mappers
| +-1 Tabular Data Mapper 1
| | |
| | |
| | |
| | |
```

Body Group	false
Tags	[]
Number of Children	3
Described Parts	[Drill, Fluid 1, Fluid 2, Block]
Described Parts	[Drill, Fluid 1, Fluid 2, Block]
Faces	682478
Vertices	341243
Preview Mesh Operation Parts	false
Described Parts	[Drill, Fluid 1, Fluid 2, Block]
Tags	[]
Tables	3
Extracted	[HeatFlux, X, Y, Z]
Path	Heat_CL_imp_250.csv
Tags	[]
Extracted	[HeatFlux, X, Y, Z]
Path	HeatFlux_CL_imp.csv
Tags	[]
Extracted	[HeatFlux, X, Y, Z]
Path	HeatFlux_CL_imp.csv
Tags	[]
Preferred System	Systeme Internationale
Conversion	1000000.0
Offset	0.0
Preferred	false
System	Other
Description	
Dimensions	Power/Length^2
Tags	[]
Data Directory	function_data
Event Count	0
Event Names	
Mapped Names	{'Surface 1': {'HeatFlux': 'MappedHeatFlux'}}
Source Table	HeatFlux_CL_imp 2
Source: X-Coordinate	X
Source: Y-Coordinate	Y
Source: Z-Coordinate	Z

| | |	Source: Data	[HeatFlux]
| | |	Verbosity	true
| | |	Tags	[]
| | +-1 Target Specifications		
| | | `-1 **Surface 1**	Compute Nodal Forces Target	false
| | | |	HTC Target	false
| | | |	Target Source Transform	Identity Transform
| | | |	Interpolation Method	Least Squares
| | | |	Limiter	STENCIL
| | | |	Target Entities	[Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Fluid 1: Drill Interface [Drill/Fluid 1 2], Fluid 2: Drill Interface [Drill/Fluid 2 2]]
| | | |	Use Original Mesh	false
| | | |	Target Stencil	FACE
| | | |	Target Grouping Threshold	500000
| | | |	Tags	[]
| | | `-1 Proximity Constraint	Enable	false
| | |	Use Absolute Tolerance	false
| | |	Relative Proximity Tolerance	1.0
| | |	Absolute Proximity Tolerance	0.0 m
| | `-2 Update	Enabled	false
| | |	Trigger	Iteration
| | `-1 Iteration Frequency	Iteration Frequency	1
| |	Start Iteration	0
| |	Enable Stop	false
| |	Stop Iteration	0
| `-2 **Tabular Data Mapper 2**	Mapped Names	{'Surface 1': {'HeatFlux': 'MappedHeatFlux2'}}
| |	Source Table	Heat_CL_imp_250
| |	Source: X-Coordinate	X
| |	Source: Y-Coordinate	Y
| |	Source: Z-Coordinate	Z
| |	Source: Data	[HeatFlux]
| |	Verbosity	true
| |	Tags	[]
| +-1 Target Specifications		
| | `-1 **Surface 1**	Compute Nodal Forces Target	false
| | |	HTC Target	false
| | |	Target Source Transform	Identity Transform
| | |	Interpolation Method	Least Squares
| | |	Limiter	STENCIL
| | |	Target Entities	[Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Fluid 1: Drill Interface [Drill/Fluid 1 2], Fluid 2: Drill Interface [Drill/Fluid 2 2]]
| | |	Use Original Mesh	false
| | |	Target Stencil	FACE
| | |	Target Grouping Threshold	500000
| | |	Tags	[]
| | `-1 Proximity Constraint	Enable	false
| |	Use Absolute Tolerance	false
| |	Relative Proximity Tolerance	1.0

| |	Absolute Proximity Tolerance	0.0 m
| `-2 Update	Enabled	false
| |	Trigger	Iteration
| `-1 Iteration Frequency	Iteration Frequency	1
|	Start Iteration	0
|	Enable Stop	false
|	Stop Iteration	0
+-25 Motions		
| `-1 **Stationary**	Tags	[]
+-26 Reference Frames		
| +-1 **Lab Reference Frame**	Tags	[]
| `-2 **Rotating And Translating**	Axis Direction	[0.0, 1.0, 0.0]
| |	Axis Origin	[0.0, 0.0, 0.0] m
| |	Rotation Rate	1872.0 rpm
| |	Translation Velocity	[0.0, -0.0044, 0.0] m/s
| |	Coordinate System	Laboratory
| |	Tags	[]
| `-1 Relative Reference Frames		
+-27 Derived Parts	Derived Parts	25
| +-1 **Beginning**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[0.22757755, -62.72407496, -0.04393217] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-2 **Beginning 2**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[-0.22757755, -62.72407496, 0.04393217] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-3 **ECT1**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[0.41935965, -62.66535174, -0.22040953] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-4 **ECT1 2**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill:

		Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[-0.41935965, -62.66535174, 0.22040953] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-5 **ECT2**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[0.8334209, -62.56008817, -0.54462766] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-6 **ECT2 2**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[-0.8334209, -62.56008817, 0.54462766] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-7 **ECT3**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[1.2155825, -62.44616567, -0.88793241] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-8 **ECT3 2**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[-1.19153175, -62.43452529, 0.91614543] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-9 **ECT4**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[1.37959579, -62.27998912, -1.34509157] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false

| |	Tags	[]
| +-10 **ECT4 2**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[-1.37180415, -62.27691651, 1.35193007] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-11 **ECT5**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[1.44559489, -62.07453902, -1.89557667] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-12 **ECT5 2**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[-1.44555143, -62.07441569, 1.89553936] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-13 **ECT6**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[1.61532188, -61.85372995, -2.49651867] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-14 **ECT6 2**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[-1.61532184, -61.85373089, 2.49651903] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-15 **ECT7**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]

| |	Point	[1.77695773, -61.6320335, -3.09974449] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-16 **ECT7 2**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[-1.77695761, -61.63203625, 3.09974553] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-17 **ECT8**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[1.81851152, -61.44845307, -3.58870748] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-18 **ECT8 2**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[-1.81851152, -61.44845307, 3.58870748] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-19 **ECT9**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[1.77445405, -61.31983948, -3.82212388] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-20 **ECT9 2**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[-1.77446156, -61.31985769, 3.8221484] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-21 **Periphery**	Parts	

		[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[1.75022251, -61.26133787, -3.87282793] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-22 **Periphery 2**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[-1.75014712, -61.26126082, 3.8728473] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| +-23 **Streamline**	Parts	[Fluid 1, Fluid 2]
| | |	Seed Type	PART
| | |	Rotation Scale	1.0
| | |	Vector Field	Velocity in Rotating And Translating
| | |	Integration Solver	RK2
| | |	Tags	[]
| | +-1 Source Seed	Seed Parts	[Fluid 1: Inlet, Fluid 2: Inlet]
| | |	On Ratio	2
| | |	Randomize	false
| | |	N Grid Points	[30, 30]
| | `-2 2nd Order Integrator	Initial Integration Step	0.5
| |	Maximum Propagation	0.20446211638361647
| |	Max Steps	2000
| |	Integration Direction	FORWARD
| +-24 **Temperature point**	Parts	[Drill, Drill: Heat Source 1, Drill: Heat Source 1 [Drill/Fluid 1 2], Drill: Heat Source 2, Drill: Heat Source 2 [Drill/Fluid 2 2], Drill: Interface, Drill: Interface [Drill/Fluid 1], Drill: Interface [Drill/Fluid 2], Drill: Wall]
| |	Point	[1.81851152, -61.44845307, -3.58870748] mm,mm,mm
| |	Coordinate System	Laboratory
| |	Follow Motion	false
| |	Tags	[]
| `-25 **Threshold**	Parts	[Drill]
|	Scalar Field	Temperature
|	Range	[100.0, 1200.0] C
|	Mode	BETWEEN_TAG
|	Tags	[]
+-28 Summaries		
+-29 Monitors	Monitors	33
| |	Monitors To Print	[Energy, Continuity, X-momentum, Y-momentum, Z-momentum, Tke, Sdr, Inlet Pressure Monitor, Point Temperature Monitor, Temperature Beginning Monitor, Temperature Beginning 2 Monitor, Temperature

		ECT9 Monitor, Temperature ECT3 2 Monitor, Temperature ECT5 Monitor, Temperature ECT8 2 Monitor, Temperature ECT2 2 Monitor, Temperature ECT9 2 Monitor, Temperature ECT6 2 Monitor, Temperature Periphery 2 Monitor, Temperature ECT8 Monitor, Temperature ECT1 2 Monitor, Temperature ECT4 2 Monitor, Temperature ECT2 Monitor, Temperature Periphery Monitor, Temperature ECT7 Monitor, Temperature ECT5 2 Monitor, Temperature ECT4 Monitor, Temperature ECT7 2 Monitor, Temperature ECT6 Monitor, Temperature ECT3 Monitor, Temperature ECT1 Monitor]
│ │	Output Direction	Horizontal
│ │	Heading Print Frequency	10
│ +-1 **Inlet Pressure Monitor**	Report	[Inlet Pressure]
│ │ │	Enabled	true
│ │ │	Value Type	Total Value
│ │ │	Trigger	Iteration
│ │ │	Normalization Option	Off
│ │ │	Maximum Plot Samples	5000
│ │ │	Tags	[]
│ │ `-1 Iteration Frequency	Iteration Frequency	1
│ │	Start Iteration	0
│ │	Enable Stop	false
│ │	Stop Iteration	0
│ +-2 **Iteration**	Maximum Plot Samples	5000
│ │	Tags	[]
│ +-3 **Physical Time**	Maximum Plot Samples	5000
│ │	Tags	[]
│ +-4 **Point Temperature Monitor**	Report	[Point Temperature]
│ │ │	Enabled	true
│ │ │	Value Type	Total Value
│ │ │	Trigger	Iteration
│ │ │	Normalization Option	Off
│ │ │	Maximum Plot Samples	5000
│ │ │	Tags	[]
│ │ `-1 Iteration Frequency	Iteration Frequency	1
│ │	Start Iteration	0
│ │	Enable Stop	false
│ │	Stop Iteration	0
│ +-5 **Temperature Beginning 2 Monitor**	Report	[Temperature Beginning 2]
│ │ │	Enabled	true
│ │ │	Value Type	Total Value
│ │ │	Trigger	Iteration
│ │ │	Normalization Option	Off
│ │ │	Maximum Plot Samples	5000
│ │ │	Tags	[]
│ │ `-1 Iteration Frequency	Iteration Frequency	1

| |	Start Iteration	0
| |	Enable Stop	false
| |	Stop Iteration	0
| +-6 **Temperature Beginning Monitor**	Report	[Temperature Beginning]
| | |	Enabled	true
| | |	Value Type	Total Value
| | |	Trigger	Iteration
| | |	Normalization Option	Off
| | |	Maximum Plot Samples	5000
| | |	Tags	[]
| | `-1 Iteration Frequency	Iteration Frequency	1
| |	Start Iteration	0
| |	Enable Stop	false
| |	Stop Iteration	0
| +-7 **Temperature ECT1 2 Monitor**	Report	[Temperature ECT1 2]
| | |	Enabled	true
| | |	Value Type	Total Value
| | |	Trigger	Iteration
| | |	Normalization Option	Off
| | |	Maximum Plot Samples	5000
| | |	Tags	[]
| | `-1 Iteration Frequency	Iteration Frequency	1
| |	Start Iteration	0
| |	Enable Stop	false
| |	Stop Iteration	0
| +-8 **Temperature ECT1 Monitor**	Report	[Temperature ECT1]
| | |	Enabled	true
| | |	Value Type	Total Value
| | |	Trigger	Iteration
| | |	Normalization Option	Off
| | |	Maximum Plot Samples	5000
| | |	Tags	[]
| | `-1 Iteration Frequency	Iteration Frequency	1
| |	Start Iteration	0
| |	Enable Stop	false
| |	Stop Iteration	0
| +-9 **Temperature ECT2 2 Monitor**	Report	[Temperature ECT2 2]
| | |	Enabled	true
| | |	Value Type	Total Value
| | |	Trigger	Iteration
| | |	Normalization Option	Off
| | |	Maximum Plot Samples	5000
| | |	Tags	[]
| | `-1 Iteration Frequency	Iteration Frequency	1
| |	Start Iteration	0
| |	Enable Stop	false
| |	Stop Iteration	0
| +-10 **Temperature ECT2 Monitor**	Report	[Temperature ECT2]
| | |	Enabled	true
| | |	Value Type	Total Value
| | |	Trigger	Iteration

| | |	Normalization Option	Off
| | |	Maximum Plot Samples	5000
| | |	Tags	[]
| | `-1 Iteration Frequency	Iteration Frequency	1
| |	Start Iteration	0
| |	Enable Stop	false
| |	Stop Iteration	0
| +-11 **Temperature ECT3 2 Monitor**	Report	[Temperature ECT3 2]
| | |	Enabled	true
| | |	Value Type	Total Value
| | |	Trigger	Iteration
| | |	Normalization Option	Off
| | |	Maximum Plot Samples	5000
| | |	Tags	[]
| | `-1 Iteration Frequency	Iteration Frequency	1
| |	Start Iteration	0
| |	Enable Stop	false
| |	Stop Iteration	0
| +-12 **Temperature ECT3 Monitor**	Report	[Temperature ECT3]
| | |	Enabled	true
| | |	Value Type	Total Value
| | |	Trigger	Iteration
| | |	Normalization Option	Off
| | |	Maximum Plot Samples	5000
| | |	Tags	[]
| | `-1 Iteration Frequency	Iteration Frequency	1
| |	Start Iteration	0
| |	Enable Stop	false
| |	Stop Iteration	0
| +-13 **Temperature ECT4 2 Monitor**	Report	[Temperature ECT4 2]
| | |	Enabled	true
| | |	Value Type	Total Value
| | |	Trigger	Iteration
| | |	Normalization Option	Off
| | |	Maximum Plot Samples	5000
| | |	Tags	[]
| | `-1 Iteration Frequency	Iteration Frequency	1
| |	Start Iteration	0
| |	Enable Stop	false
| |	Stop Iteration	0
| +-14 **Temperature ECT4 Monitor**	Report	[Temperature ECT4]
| | |	Enabled	true
| | |	Value Type	Total Value
| | |	Trigger	Iteration
| | |	Normalization Option	Off
| | |	Maximum Plot Samples	5000
| | |	Tags	[]
| | `-1 Iteration Frequency	Iteration Frequency	1
| |	Start Iteration	0
| |	Enable Stop	false
| |	Stop Iteration	0

| +-15 **Temperature ECT5 2 Monitor**	Report	[Temperature ECT5 2]
| | |	Enabled	true
| | |	Value Type	Total Value
| | |	Trigger	Iteration
| | |	Normalization Option	Off
| | |	Maximum Plot Samples	5000
| | |	Tags	[]
| | `-1 Iteration Frequency	Iteration Frequency	1
| |	Start Iteration	0
| |	Enable Stop	false
| |	Stop Iteration	0
| +-16 **Temperature ECT5 Monitor**	Report	[Temperature ECT5]
| | |	Enabled	true
| | |	Value Type	Total Value
| | |	Trigger	Iteration
| | |	Normalization Option	Off
| | |	Maximum Plot Samples	5000
| | |	Tags	[]
| | `-1 Iteration Frequency	Iteration Frequency	1
| |	Start Iteration	0
| |	Enable Stop	false
| |	Stop Iteration	0
| +-17 **Temperature ECT6 2 Monitor**	Report	[Temperature ECT6 2]
| | |	Enabled	true
| | |	Value Type	Total Value
| | |	Trigger	Iteration
| | |	Normalization Option	Off
| | |	Maximum Plot Samples	5000
| | |	Tags	[]
| | `-1 Iteration Frequency	Iteration Frequency	1
| |	Start Iteration	0
| |	Enable Stop	false
| |	Stop Iteration	0
| +-18 **Temperature ECT6 Monitor**	Report	[Temperature ECT6]
| | |	Enabled	true
| | |	Value Type	Total Value
| | |	Trigger	Iteration
| | |	Normalization Option	Off
| | |	Maximum Plot Samples	5000
| | |	Tags	[]
| | `-1 Iteration Frequency	Iteration Frequency	1
| |	Start Iteration	0
| |	Enable Stop	false
| |	Stop Iteration	0
| +-19 **Temperature ECT7 2 Monitor**	Report	[Temperature ECT7 2]
| | |	Enabled	true
| | |	Value Type	Total Value
| | |	Trigger	Iteration
| | |	Normalization Option	Off
| | |	Maximum Plot Samples	5000
| | |	Tags	[]

| | `-1 Iteration Frequency	Iteration Frequency	1
| |	Start Iteration	0
| |	Enable Stop	false
| |	Stop Iteration	0
| +-20 **Temperature ECT7 Monitor**	Report	[Temperature ECT7]
| | |	Enabled	true
| | |	Value Type	Total Value
| | |	Trigger	Iteration
| | |	Normalization Option	Off
| | |	Maximum Plot Samples	5000
| | |	Tags	[]
| | `-1 Iteration Frequency	Iteration Frequency	1
| |	Start Iteration	0
| |	Enable Stop	false
| |	Stop Iteration	0
| +-21 **Temperature ECT8 2 Monitor**	Report	[Temperature ECT8 2]
| | |	Enabled	true
| | |	Value Type	Total Value
| | |	Trigger	Iteration
| | |	Normalization Option	Off
| | |	Maximum Plot Samples	5000
| | |	Tags	[]
| | `-1 Iteration Frequency	Iteration Frequency	1
| |	Start Iteration	0
| |	Enable Stop	false
| |	Stop Iteration	0
| +-22 **Temperature ECT8 Monitor**	Report	[Temperature ECT8]
| | |	Enabled	true
| | |	Value Type	Total Value
| | |	Trigger	Iteration
| | |	Normalization Option	Off
| | |	Maximum Plot Samples	5000
| | |	Tags	[]
| | `-1 Iteration Frequency	Iteration Frequency	1
| |	Start Iteration	0
| |	Enable Stop	false
| |	Stop Iteration	0
| +-23 **Temperature ECT9 2 Monitor**	Report	[Temperature ECT9 2]
| | |	Enabled	true
| | |	Value Type	Total Value
| | |	Trigger	Iteration
| | |	Normalization Option	Off
| | |	Maximum Plot Samples	5000
| | |	Tags	[]
| | `-1 Iteration Frequency	Iteration Frequency	1
| |	Start Iteration	0
| |	Enable Stop	false
| |	Stop Iteration	0
| +-24 **Temperature ECT9 Monitor**	Report	[Temperature ECT9]
| | |	Enabled	true

│ │ │	Value Type	Total Value
│ │ │	Trigger	Iteration
│ │ │	Normalization Option	Off
│ │ │	Maximum Plot Samples	5000
│ │ │	Tags	[]
│ │ `-1 Iteration Frequency	Iteration Frequency	1
│ │	Start Iteration	0
│ │	Enable Stop	false
│ │	Stop Iteration	0
│ +-25 **Temperature Periphery 2 Monitor**	Report	[Temperature Periphery 2]
│ │ │	Enabled	true
│ │ │	Value Type	Total Value
│ │ │	Trigger	Iteration
│ │ │	Normalization Option	Off
│ │ │	Maximum Plot Samples	5000
│ │ │	Tags	[]
│ │ `-1 Iteration Frequency	Iteration Frequency	1
│ │	Start Iteration	0
│ │	Enable Stop	false
│ │	Stop Iteration	0
│ +-26 **Temperature Periphery Monitor**	Report	[Temperature Periphery]
│ │ │	Enabled	true
│ │ │	Value Type	Total Value
│ │ │	Trigger	Iteration
│ │ │	Normalization Option	Off
│ │ │	Maximum Plot Samples	5000
│ │ │	Tags	[]
│ │ `-1 Iteration Frequency	Iteration Frequency	1
│ │	Start Iteration	0
│ │	Enable Stop	false
│ │	Stop Iteration	0
+-30 Reports	Reports	31
│ +-1 **Boundary Heat Flux**	Units	W/m^2
│ │	Field Function	Boundary Heat Flux
│ │	Parts	[Fluid 1: Inlet, Fluid 1: Outlet]
│ │	Representation	Volume Mesh
│ │	Smooth Values	false
│ │	Tags	[]
│ +-2 **Boundary Heat Flux 2**	Units	W/m^2
│ │	Field Function	Boundary Heat Flux
│ │	Parts	[]
│ │	Representation	Volume Mesh
│ │	Smooth Values	false
│ │	Tags	[]
│ +-3 **Heat Transfer**	Units	W
│ │	Representation	Volume Mesh
│ │	Parts	[Fluid 1: Inlet, Fluid 1: Outlet, Fluid 2: Inlet, Fluid 2: Outlet]
│ │	Tags	[]
│ +-4 **Heat Transfer 1**	Units	W
│ │	Representation	Volume Mesh
│ │	Parts	

		[Fluid 1: Inlet, Fluid 1: Outlet, Fluid 2: Inlet, Fluid 2: Outlet]
| |	Tags	[]
| +-5 **Inlet Pressure**	Units	bar
| |	Field Function	Pressure
| |	Parts	[Fluid 1: Inlet, Fluid 2: Inlet]
| |	Representation	Volume Mesh
| |	Smooth Values	false
| |	Tags	[]
| +-6 **Inlet Velocity**	Units	m/s
| |	Field Function	Velocity in Rotating And Translating: Magnitude
| |	Parts	[Fluid 1: Inlet, Fluid 2: Inlet]
| |	Representation	Volume Mesh
| |	Smooth Values	false
| |	Tags	[]
| +-7 **Outlet velocity**	Units	m/s
| |	Field Function	Velocity in Rotating And Translating: Magnitude
| |	Parts	[Fluid 1: Outlet, Fluid 2: Outlet]
| |	Representation	Volume Mesh
| |	Smooth Values	false
| |	Tags	[]
| +-8 **Point Temperature**	Units	C
| |	Field Function	Temperature
| |	Collocated Field Functions	[]
| |	Parts	[Temperature point]
| |	Representation	Volume Mesh
| |	Smooth Values	false
| |	Tags	[]
| +-9 **Temperature Beginning**	Units	C
| |	Field Function	Temperature
| |	Collocated Field Functions	[]
| |	Parts	[Beginning]
| |	Representation	Volume Mesh
| |	Smooth Values	false
| |	Tags	[]
| +-10 **Temperature Beginning 2**	Units	C
| |	Field Function	Temperature
| |	Collocated Field Functions	[]
| |	Parts	[Beginning 2]
| |	Representation	Volume Mesh
| |	Smooth Values	false
| |	Tags	[]
| +-11 **Temperature ECT1**	Units	C
| |	Field Function	Temperature
| |	Collocated Field Functions	[]
| |	Parts	[ECT1]
| |	Representation	Volume Mesh
| |	Smooth Values	false
| |	Tags	[]
| +-12 **Temperature ECT1 2**	Units	C
| |	Field Function	Temperature
| |	Collocated Field Functions	[]
| |	Parts	[ECT1 2]

| |	Representation	Volume Mesh
| |	Smooth Values	false
| |	Tags	[]
| +-13 **Temperature ECT2**	Units	C
| |	Field Function	Temperature
| |	Collocated Field Functions	[]
| |	Parts	[ECT2]
| |	Representation	Volume Mesh
| |	Smooth Values	false
| |	Tags	[]
| +-14 **Temperature ECT2 2**	Units	C
| |	Field Function	Temperature
| |	Collocated Field Functions	[]
| |	Parts	[ECT2 2]
| |	Representation	Volume Mesh
| |	Smooth Values	false
| |	Tags	[]
| +-15 **Temperature ECT3**	Units	C
| |	Field Function	Temperature
| |	Collocated Field Functions	[]
| |	Parts	[ECT3]
| |	Representation	Volume Mesh
| |	Smooth Values	false
| |	Tags	[]
| +-16 **Temperature ECT3 2**	Units	C
| |	Field Function	Temperature
| |	Collocated Field Functions	[]
| |	Parts	[ECT3 2]
| |	Representation	Volume Mesh
| |	Smooth Values	false
| |	Tags	[]
| +-17 **Temperature ECT4**	Units	C
| |	Field Function	Temperature
| |	Collocated Field Functions	[]
| |	Parts	[ECT4]
| |	Representation	Volume Mesh
| |	Smooth Values	false
| |	Tags	[]
| +-18 **Temperature ECT4 2**	Units	C
| |	Field Function	Temperature
| |	Collocated Field Functions	[]
| |	Parts	[ECT4 2]
| |	Representation	Volume Mesh
| |	Smooth Values	false
| |	Tags	[]
| +-19 **Temperature ECT5**	Units	C
| |	Field Function	Temperature
| |	Collocated Field Functions	[]
| |	Parts	[ECT5]
| |	Representation	Volume Mesh
| |	Smooth Values	false
| |	Tags	[]
	Units	C

+-20 **Temperature ECT5 2**		
	Field Function	Temperature
	Collocated Field Functions	[]
	Parts	[ECT5 2]
	Representation	Volume Mesh
	Smooth Values	false
	Tags	[]
+-21 **Temperature ECT6**	Units	C
	Field Function	Temperature
	Collocated Field Functions	[]
	Parts	[ECT6]
	Representation	Volume Mesh
	Smooth Values	false
	Tags	[]
+-22 **Temperature ECT6 2**	Units	C
	Field Function	Temperature
	Collocated Field Functions	[]
	Parts	[ECT6 2]
	Representation	Volume Mesh
	Smooth Values	false
	Tags	[]
+-23 **Temperature ECT7**	Units	C
	Field Function	Temperature
	Collocated Field Functions	[]
	Parts	[ECT7]
	Representation	Volume Mesh
	Smooth Values	false
	Tags	[]
+-24 **Temperature ECT7 2**	Units	C
	Field Function	Temperature
	Collocated Field Functions	[]
	Parts	[ECT7 2]
	Representation	Volume Mesh
	Smooth Values	false
	Tags	[]
+-25 **Temperature ECT8**	Units	C
	Field Function	Temperature
	Collocated Field Functions	[]
	Parts	[ECT8]
	Representation	Volume Mesh
	Smooth Values	false
	Tags	[]
+-26 **Temperature ECT8 2**	Units	C
	Field Function	Temperature
	Collocated Field Functions	[]
	Parts	[ECT8 2]
	Representation	Volume Mesh
	Smooth Values	false
	Tags	[]
+-27 **Temperature ECT9**	Units	C
	Field Function	Temperature
	Collocated Field Functions	[]

| |	Parts	[ECT9]
| |	Representation	Volume Mesh
| |	Smooth Values	false
| |	Tags	[]
| +-28 **Temperature ECT9 2**	Units	C
| |	Field Function	Temperature
| |	Collocated Field Functions	[]
| |	Parts	[ECT9 2]
| |	Representation	Volume Mesh
| |	Smooth Values	false
| |	Tags	[]
| +-29 **Temperature Maximum**	Units	C
| |	Field Function	Temperature
| |	Collocated Field Functions	[]
| |	Parts	[Drill]
| |	Representation	Volume Mesh
| |	Smooth Values	false
| |	Tags	[]
| +-30 **Temperature Periphery**	Units	C
| |	Field Function	Temperature
| |	Collocated Field Functions	[]
| |	Parts	[Periphery]
| |	Representation	Volume Mesh
| |	Smooth Values	false
| |	Tags	[]
| `-31 **Temperature Periphery 2**	Units	C
|	Field Function	Temperature
|	Collocated Field Functions	[]
|	Parts	[Periphery 2]
|	Representation	Volume Mesh
|	Smooth Values	false
|	Tags	[]
+-31 Solvers		
| +-1 Steady		
| | `-1 Stopping Criteria		
| +-2 Partitioning	Solver Frozen	false
| |	Partitioning Method	Per-Continuum
| +-3 Wall Distance	Solver Frozen	false
| |	Wall Distance Solver Option	Implicit Tree
| |	Verbosity	0
| |	Minimum Tree Size Threshold	500000
| +-4 Segregated Flow	Freeze Flow	false
| | |	Reconstruction Frozen	false
| | |	Reconstruction Zeroed	false
| | |	Enable Enhanced Stability Treatment	false
| | |	Temporary Storage Retained	false
| | |	Pressure Corrections: Bad Cell Minimum Scaling	0.8
| | |	Pressure Corrections: Acceptable Cell Volume Change	0.001
| | |	Velocity Corrections: Maximum Unlimited Velocity	20.0 m/s
| | |	Velocity Corrections: Acceptable Velocity Increase Rate [<1]	0.15

│ │ │	Continuity Initialization	false
│ │ +-1 Velocity	Under-Relaxation Factor	0.7
│ │ │ │	Dynamic Local Under-Relaxation	false
│ │ │ +-1 Under-Relaxation Factor Ramp	Ramp Method	No Ramp
│ │ │ `-2 AMG Linear Solver	Max Cycles	30
│ │ │ │	Verbosity	NONE
│ │ │ │	Enable Direct Solver	false
│ │ │ │	Maximum Direct Solver Equations	32
│ │ │ │	Convergence Tolerance	0.1
│ │ │ │	Epsilon	0.0
│ │ │ │	Cycle Type	Flex Cycle
│ │ │ │	Group Size Control	Auto
│ │ │ │	Group Size	4
│ │ │ │	Relaxation Scheme	Gauss-Seidel
│ │ │ │	Acceleration Method	None
│ │ │ │	Scaling	Disabled
│ │ │ `-1 Flex Cycle	Restriction Tolerance	0.9
│ │ │	Prolongation Tolerance	0.5
│ │ │	Sweeps	1
│ │ `-2 Pressure	Number of Non-Orthogonality Correctors	0
│ │ │	Under-Relaxation Factor	0.3
│ │ │	Pressure Reference Location	Automatic Selection
│ │ +-1 Under-Relaxation Factor Ramp	Ramp Method	No Ramp
│ │ `-2 AMG Linear Solver	Max Cycles	30
│ │ │	Verbosity	NONE
│ │ │	Enable Direct Solver	false
│ │ │	Maximum Direct Solver Equations	32
│ │ │	Convergence Tolerance	0.1
│ │ │	Epsilon	0.0
│ │ │	Cycle Type	V Cycle
│ │ │	Group Size Control	Auto
│ │ │	Group Size	4
│ │ │	Relaxation Scheme	Gauss-Seidel
│ │ │	Acceleration Method	Conjugate Gradient
│ │ │	Scaling	Auto
│ │ `-1 V Cycle	Pre-Sweeps	1
│ │	Post-Sweeps	1
│ │	Max Levels	50
│ +-5 Segregated Energy	Solver Frozen	false
│ │ │	Reconstruction Frozen	false
│ │ │	Reconstruction Zeroed	false
│ │ │	Temporary Storage Retained	false
│ │ │	Fluid Under-Relaxation Factor	0.9
│ │ │	Solid Under-Relaxation Factor	0.99
│ │ │	Enable High-Accuracy Temporal Discretization	false
│ │ +-1 Fluid Under-Relaxation Factor Ramp	Ramp Method	No Ramp
│ │ +-2 Solid Under-Relaxation Factor Ramp	Ramp Method	No Ramp
│ │ `-3 AMG Linear Solver	Max Cycles	30
│ │ │	Verbosity	NONE
│ │ │	Enable Direct Solver	false

| | |	Maximum Direct Solver Equations	32
| | |	Convergence Tolerance	0.1
| | |	Epsilon	0.0
| | |	Cycle Type	V Cycle
| | |	Group Size Control	Auto
| | |	Group Size	4
| | |	Relaxation Scheme	Gauss-Seidel
| | |	Acceleration Method	None
| | |	Scaling	Disabled
| | `-1 V Cycle	Pre-Sweeps	1
| |	Post-Sweeps	1
| |	Max Levels	50
| +-6 K-Omega Turbulence	Solver Frozen	false
| | |	Reconstruction Frozen	false
| | |	Reconstruction Zeroed	false
| | |	Temporary Storage Retained	false
| | |	Under-Relaxation Factor	0.8
| | |	Boundary Layer Initialization	false
| | +-1 Under-Relaxation Factor Ramp	Ramp Method	No Ramp
| | `-2 AMG Linear Solver	Max Cycles	30
| | |	Verbosity	NONE
| | |	Enable Direct Solver	false
| | |	Maximum Direct Solver Equations	32
| | |	Convergence Tolerance	0.1
| | |	Epsilon	0.0
| | |	Cycle Type	Flex Cycle
| | |	Group Size Control	Auto
| | |	Group Size	4
| | |	Relaxation Scheme	Gauss-Seidel
| | |	Acceleration Method	None
| | |	Scaling	Disabled
| | `-1 Flex Cycle	Restriction Tolerance	0.9
| |	Prolongation Tolerance	0.5
| |	Sweeps	1
| `-7 K-Omega Turbulent Viscosity	Solver Frozen	false
|	Under-Relaxation Factor	1.0
|	Maximum Ratio	100000.0
+-32 Stopping Criteria		
| +-1 **Maximum Steps**	Enabled	true
| |	Maximum Steps	1000
| |	Logical Rule	Or
| |	Criterion Satisfied	true
| |	Tags	[]
| `-2 **Stop File**	Enabled	true
|	Stop Inner Iterations	true
|	Path	ABORT
|	Logical Rule	Or
|	Criterion Satisfied	false
|	Tags	[]
+-33 Solution Histories		
+-34 Solution Views		
| `-1 **Current Solution**	Iteration	1000
|	Time Step	0

Solution Time	0.0
Tags	[]

Solution

Accumulated CPU Time over all processes (s)	41771.15400000006
Elapsed Time (s)	41771.15000000007
Iterations	1000