FULL REPORT

System Info

|  |  |
| --- | --- |
| Product | Flow Simulation 2019 SP1.0. Build: 4429 |
| Computer name | DESKTOP-UHNF5GV |
| User name | Bhavy |
| Processors | Intel(R) Core(TM) i5-7200U CPU @ 2.50GHz |
| Memory | 8060 MB / 134217727 MB |
| Operating system | Windows 10 (or higher) (Version 10.0.17134) |
| CAD version | SOLIDWORKS 2019 SP1.0 |
| CPU speed | 2701 MHz |

General Info

|  |  |
| --- | --- |
| Model | chain assembly\_a\_3.SLDASM |
| Project name | Project(1) |
| Project path | D:\eYSIP\Fishbot\model\F\_1\vertical motor alignment\skeletal\skeletal\_cmc\chain subassem\_a\chain\_subassem\_3dpa\2 |
| Units system | SI (m-kg-s) |
| Analysis type | External (not exclude internal spaces) |
| Exclude cavities without flow conditions | Off |
| Coordinate system | Global coordinate system |
| Reference axis | X |

INPUT DATA

Global Mesh Settings

Automatic initial mesh: On

Result resolution level: 3

Advanced narrow channel refinement: Off

Refinement in solid region: Off

Geometry Resolution

Evaluation of minimum gap size: Automatic

Evaluation of minimum wall thickness: Automatic

Computational Domain

Size

|  |  |
| --- | --- |
| X min | -0.344 m |
| X max | 0.482 m |
| Y min | -0.209 m |
| Y max | 0.301 m |
| Z min | -0.189 m |
| Z max | 0.299 m |
| X size | 0.826 m |
| Y size | 0.509 m |
| Z size | 0.488 m |

Boundary Conditions

|  |  |
| --- | --- |
| 2D plane flow | None |
| At X min | Default |
| At X max | Default |
| At Y min | Default |
| At Y max | Default |
| At Z min | Default |
| At Z max | Default |

Physical Features

Heat conduction in solids: Off

Time dependent: On

Gravitational effects: On

Rotation: Off

Flow type: Laminar only

Cavitation: Off

High Mach number flow: Off

Free surface: Off

Default roughness: 0 micrometer

Gravitational Settings

|  |  |
| --- | --- |
| X component | 0 m/s^2 |
| Y component | -9.81 m/s^2 |
| Z component | 0 m/s^2 |

Default wall conditions: Adiabatic wall

Ambient Conditions

|  |  |
| --- | --- |
| Thermodynamic parameters | Static Pressure: 5930.00 Pa  Temperature: 293.20 K |
| Velocity parameters | Velocity vector  Velocity in X direction: 0.300 m/s  Velocity in Y direction: 0 m/s  Velocity in Z direction: 0 m/s |

Material Settings

Fluids

Water

Fluid Subdomains

Fluid Subdomain 1

|  |  |
| --- | --- |
| Fluids | Water |
| Faces | Face<20>@ch\_t\_u-3 Face<3>@ch\_t\_u-3 Face<165>@9g servo\_cmc-3 Face<163>@9g servo\_cmc-3 Face<158>@9g servo\_cmc-3 Face<148>@9g servo\_cmc-3 Face<121>@dual header\_cmc-3 Face<110>@dual header\_cmc-3 Face<298>@ch\_head-1 Face<57>@ch\_h\_u-3 Face<48>@ch\_h\_u-3 Face<48>@ch\_h\_u-2 Face<263>@chain tail\_j2\_cmc\_a-1 Face<261>@chain tail\_j2\_cmc\_a-1 Face<251>@chain tail\_j2\_cmc\_a-1 Face<234>@chain head\_j2\_cmc\_a-1 Face<178>@ch\_h\_m-2 Face<174>@ch\_h\_m-2 Face<170>@ch\_h\_m-2 Face<168>@ch\_h\_m-2 Face<129>@dual header\_cmc-2 Face<128>@dual header\_cmc-2 Face<115>@dual header\_cmc-2 Face<112>@dual header\_cmc-2 Face<109>@dual header\_cmc-2 Face<212>@chain tail\_cmc\_a-1 Face<193>@ch\_h\_l-2 Face<191>@ch\_h\_l-2 Face<13>@ch\_t\_u-1 Face<161>@9g servo\_cmc-1 Face<154>@9g servo\_cmc-1 Face<112>@dual header\_cmc-1 Face<90>@chain head\_cmc\_a-1 Face<72>@chain tail\_j1\_cmc\_a-1 Face<57>@ch\_h\_u-1 Face<43>@chain head\_j1\_cmc\_a-1 Face<38>@chain head\_j1\_cmc\_a-1 Face<20>@ch\_t\_u-2 Face<19>@ch\_t\_u-2 Face<9>@ch\_t\_u-2 Face<8>@ch\_t\_u-2 Face<8>@ch\_t\_u-3 Face<4>@ch\_t\_u-3 Face<135>@9g servo\_cmc-3 Face<128>@dual header\_cmc-3 Face<125>@dual header\_cmc-3 Face<124>@dual header\_cmc-3 Face<365>@nose\_3dpa-1 Face<350>@nose\_3dpa-1 Face<337>@nose\_3dpa-1 Face<318>@skin\_3dpa-1 Face<294>@ch\_head-1 Face<274>@ch\_head-1 Face<273>@ch\_head-1 Face<52>@ch\_h\_u-2 Face<50>@ch\_h\_u-2 Face<256>@chain tail\_j2\_cmc\_a-1 Face<222>@chain head\_j2\_cmc\_a-1 Face<218>@chain head\_j2\_cmc\_a-1 Face<133>@dual header\_cmc-2 Face<130>@dual header\_cmc-2 Face<116>@dual header\_cmc-2 Face<200>@chain tail\_cmc\_a-1 Face<179>@ch\_h\_m-1 Face<3>@ch\_t\_u-1 Face<1>@ch\_t\_u-1 Face<164>@9g servo\_cmc-1 Face<89>@chain head\_cmc\_a-1 Face<78>@chain tail\_j1\_cmc\_a-1 Face<51>@ch\_h\_u-1 Face<41>@chain head\_j1\_cmc\_a-1 Face<10>@ch\_t\_u-3 Face<146>@9g servo\_cmc-3 Face<235>@ch\_t\_l-4 Face<336>@nose\_3dpa-1 Face<314>@MPU6050-1 Face<302>@lipo\_charger\_ckt-3 Face<280>@ch\_head-1 Face<49>@ch\_h\_u-3 Face<56>@ch\_h\_u-2 Face<241>@ch\_t\_l-2 Face<145>@9g servo\_cmc-2 Face<171>@ch\_h\_m-2 Face<119>@dual header\_cmc-2 Face<192>@ch\_h\_l-3 Face<189>@ch\_h\_l-3 Face<183>@ch\_h\_l-3 Face<189>@ch\_h\_l-1 Face<141>@9g servo\_cmc-1 Face<93>@chain head\_cmc\_a-1 Face<35>@chain head\_j1\_cmc\_a-1 Face<18>@ch\_t\_u-2 Face<17>@ch\_t\_u-2 Face<15>@ch\_t\_u-3 Face<13>@ch\_t\_u-3 Face<155>@9g servo\_cmc-3 Face<149>@9g servo\_cmc-3 Face<244>@ch\_t\_l-3 Face<237>@ch\_t\_l-3 Face<342>@nose\_3dpa-1 Face<330>@skin\_3dpa-1 Face<327>@skin\_3dpa-1 Face<308>@MPU6050-1 Face<61>@ch\_h\_u-3 Face<52>@ch\_h\_u-3 Face<47>@ch\_h\_u-2 Face<45>@ch\_h\_u-2 Face<150>@9g servo\_cmc-2 Face<127>@dual header\_cmc-2 Face<126>@dual header\_cmc-2 Face<113>@dual header\_cmc-2 Face<211>@chain tail\_cmc\_a-1 Face<193>@ch\_h\_l-3 Face<186>@ch\_h\_l-3 Face<172>@ch\_h\_m-1 Face<16>@ch\_t\_u-1 Face<167>@9g servo\_cmc-1 Face<150>@9g servo\_cmc-1 Face<138>@9g servo\_cmc-1 Face<133>@dual 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Face<162>@9g servo\_cmc-2 Face<147>@9g servo\_cmc-2 Face<140>@9g servo\_cmc-2 Face<228>@chain head\_j2\_cmc\_a-1 Face<169>@ch\_h\_m-2 Face<204>@chain tail\_cmc\_a-1 Face<203>@chain tail\_cmc\_a-1 Face<198>@chain tail\_cmc\_a-1 Face<194>@ch\_h\_l-3 Face<190>@ch\_h\_l-3 Face<18>@ch\_t\_u-1 Face<10>@ch\_t\_u-1 Face<2>@ch\_t\_u-1 Face<158>@9g servo\_cmc-1 Face<152>@9g servo\_cmc-1 Face<140>@9g servo\_cmc-1 Face<135>@9g servo\_cmc-1 Face<120>@dual header\_cmc-1 Face<115>@dual header\_cmc-1 Face<111>@dual header\_cmc-1 Face<107>@dual header\_cmc-1 Face<80>@chain tail\_j1\_cmc\_a-1 Face<73>@chain tail\_j1\_cmc\_a-1 Face<68>@chain tail\_j1\_cmc\_a-1 Face<60>@ch\_h\_u-1 Face<59>@ch\_h\_u-1 Face<39>@chain head\_j1\_cmc\_a-1 Face<16>@ch\_t\_u-2 Face<3>@ch\_t\_u-2 Face<14>@ch\_t\_u-3 Face<5>@ch\_t\_u-3 Face<147>@9g servo\_cmc-3 Face<145>@9g servo\_cmc-3 Face<242>@ch\_t\_l-3 Face<237>@ch\_t\_l-4 Face<131>@dual header\_cmc-3 Face<119>@dual header\_cmc-3 Face<117>@dual header\_cmc-3 Face<116>@dual 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Face<371>@buck\_cnvrtr-1 Face<363>@nose\_3dpa-1 Face<62>@ch\_h\_u-3 Face<266>@chain tail\_j2\_cmc\_a-1 Face<249>@chain tail\_j2\_cmc\_a-1 Face<237>@ch\_t\_l-2 Face<165>@9g servo\_cmc-2 Face<159>@9g servo\_cmc-2 Face<219>@chain head\_j2\_cmc\_a-1 Face<214>@chain head\_j2\_cmc\_a-1 Face<179>@ch\_h\_m-3 Face<176>@ch\_h\_m-3 Face<175>@ch\_h\_m-3 Face<168>@ch\_h\_m-3 Face<196>@ch\_h\_l-3 Face<187>@ch\_h\_l-3 Face<180>@ch\_h\_m-1 Face<168>@ch\_h\_m-1 Face<17>@ch\_t\_u-1 Face<162>@9g servo\_cmc-1 Face<157>@9g servo\_cmc-1 Face<134>@9g servo\_cmc-1 Face<132>@dual header\_cmc-1 Face<126>@dual header\_cmc-1 Face<108>@dual header\_cmc-1 Face<82>@chain tail\_j1\_cmc\_a-1 Face<76>@chain tail\_j1\_cmc\_a-1 Face<75>@chain tail\_j1\_cmc\_a-1 Face<64>@chain tail\_j1\_cmc\_a-1 Face<63>@ch\_h\_u-1 Face<30>@chain head\_j1\_cmc\_a-1 Face<19>@ch\_t\_u-3 Face<164>@9g servo\_cmc-3 Face<151>@9g servo\_cmc-3 Face<136>@9g servo\_cmc-3 Face<238>@ch\_t\_l-3 Face<367>@buck\_cnvrtr-1 Face<108>@dual header\_cmc-3 Face<347>@nose\_3dpa-1 Face<338>@nose\_3dpa-1 Face<323>@skin\_3dpa-1 Face<267>@lipo-1 Face<307>@MPU6050-1 Face<304>@lipo\_charger\_ckt-3 Face<60>@ch\_h\_u-2 Face<255>@chain tail\_j2\_cmc\_a-1 Face<247>@chain tail\_j2\_cmc\_a-1 Face<245>@ch\_t\_l-2 Face<163>@9g servo\_cmc-2 Face<148>@9g servo\_cmc-2 Face<232>@chain head\_j2\_cmc\_a-1 Face<181>@ch\_h\_m-2 Face<176>@ch\_h\_m-2 Face<118>@dual header\_cmc-2 Face<206>@chain tail\_cmc\_a-1 Face<202>@chain tail\_cmc\_a-1 Face<181>@ch\_h\_m-1 Face<6>@ch\_t\_u-1 Face<5>@ch\_t\_u-1 Face<163>@9g servo\_cmc-1 Face<102>@chain head\_cmc\_a-1 Face<95>@chain head\_cmc\_a-1 Face<56>@ch\_h\_u-1 Face<53>@ch\_h\_u-1 Face<48>@ch\_h\_u-1 Face<17>@ch\_t\_u-3 Face<11>@ch\_t\_u-3 Face<154>@9g servo\_cmc-3 Face<240>@ch\_t\_l-3 Face<130>@dual header\_cmc-3 Face<123>@dual header\_cmc-3 Face<114>@dual header\_cmc-3 Face<357>@nose\_3dpa-1 Face<348>@nose\_3dpa-1 Face<331>@skin\_3dpa-1 Face<321>@skin\_3dpa-1 Face<289>@ch\_head-1 Face<269>@lipo-2 Face<59>@ch\_h\_u-3 Face<260>@chain tail\_j2\_cmc\_a-1 Face<244>@ch\_t\_l-2 Face<239>@ch\_t\_l-2 Face<137>@9g servo\_cmc-2 Face<227>@chain head\_j2\_cmc\_a-1 Face<216>@chain head\_j2\_cmc\_a-1 Face<172>@ch\_h\_m-3 Face<179>@ch\_h\_m-2 Face<124>@dual header\_cmc-2 Face<208>@chain tail\_cmc\_a-1 Face<201>@chain tail\_cmc\_a-1 Face<188>@ch\_h\_l-3 Face<173>@ch\_h\_m-1 Face<11>@ch\_t\_u-1 Face<145>@9g servo\_cmc-1 Face<142>@9g servo\_cmc-1 Face<128>@dual header\_cmc-1 Face<117>@dual header\_cmc-1 Face<110>@dual header\_cmc-1 Face<106>@dual header\_cmc-1 Face<85>@chain head\_cmc\_a-1 Face<69>@chain tail\_j1\_cmc\_a-1 Face<66>@chain tail\_j1\_cmc\_a-1 Face<55>@ch\_h\_u-1 Face<54>@ch\_h\_u-1 Face<44>@ch\_h\_u-1 Face<32>@chain head\_j1\_cmc\_a-1 Face<2>@ch\_t\_u-2 |
| Coordinate system | Global coordinate system |
| Reference axis | X |
| Thermodynamic Parameters | Static Pressure: 5930.00 Pa  Pressure potential: On  Temperature: 293.20 K |
| Velocity Parameters | Velocity in X direction: 0.300 m/s  Velocity in Y direction: 0 m/s  Velocity in Z direction: 0 m/s |
| Flow type | Laminar Only |
| Cavitation | Off |
| Refer to the origin | Off |

Boundary Conditions

Real Wall 1

|  |  |
| --- | --- |
| Type | Real wall |
| Faces |  |
| Coordinate system | Global coordinate system |
| Reference axis | X |

Goals

Global Goals

GG Minimum Static Pressure 1

|  |  |
| --- | --- |
| Type | Global Goal |
| Goal type | Static Pressure |
| Calculate | Minimum value |
| Coordinate system | Global coordinate system |
| Use in convergence | On |

GG Average Total Pressure 1

|  |  |
| --- | --- |
| Type | Global Goal |
| Goal type | Total Pressure |
| Calculate | Average value |
| Coordinate system | Global coordinate system |
| Use in convergence | On |

GG Maximum Dynamic Pressure 1

|  |  |
| --- | --- |
| Type | Global Goal |
| Goal type | Dynamic Pressure |
| Calculate | Maximum value |
| Coordinate system | Global coordinate system |
| Use in convergence | On |

GG Minimum Velocity (X) 1

|  |  |
| --- | --- |
| Type | Global Goal |
| Goal type | Velocity (X) |
| Calculate | Minimum value |
| Coordinate system | Global coordinate system |
| Use in convergence | On |

Calculation Control Options

Finish Conditions

|  |  |
| --- | --- |
| Finish Conditions | If one is satisfied |
| Maximum physical time | 1.000 s |

Solver Refinement

Refinement: Disabled

Results Saving

|  |  |
| --- | --- |
| Save before refinement | On |

Advanced Control Options

Flow Freezing

|  |  |
| --- | --- |
| Flow freezing strategy | Disabled |

Manual time step (Freezing): Off

Manual time step: Off

RESULTS