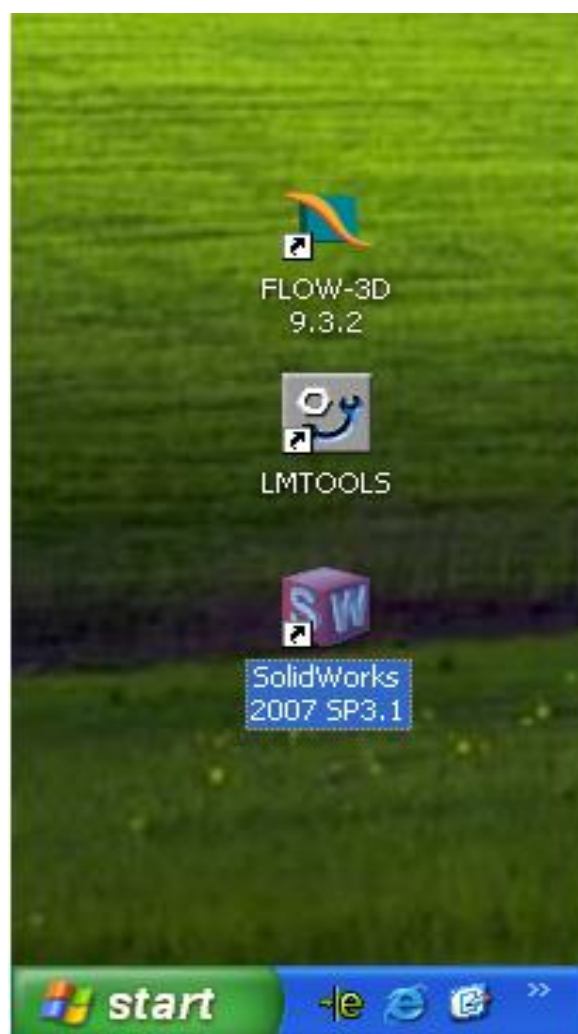
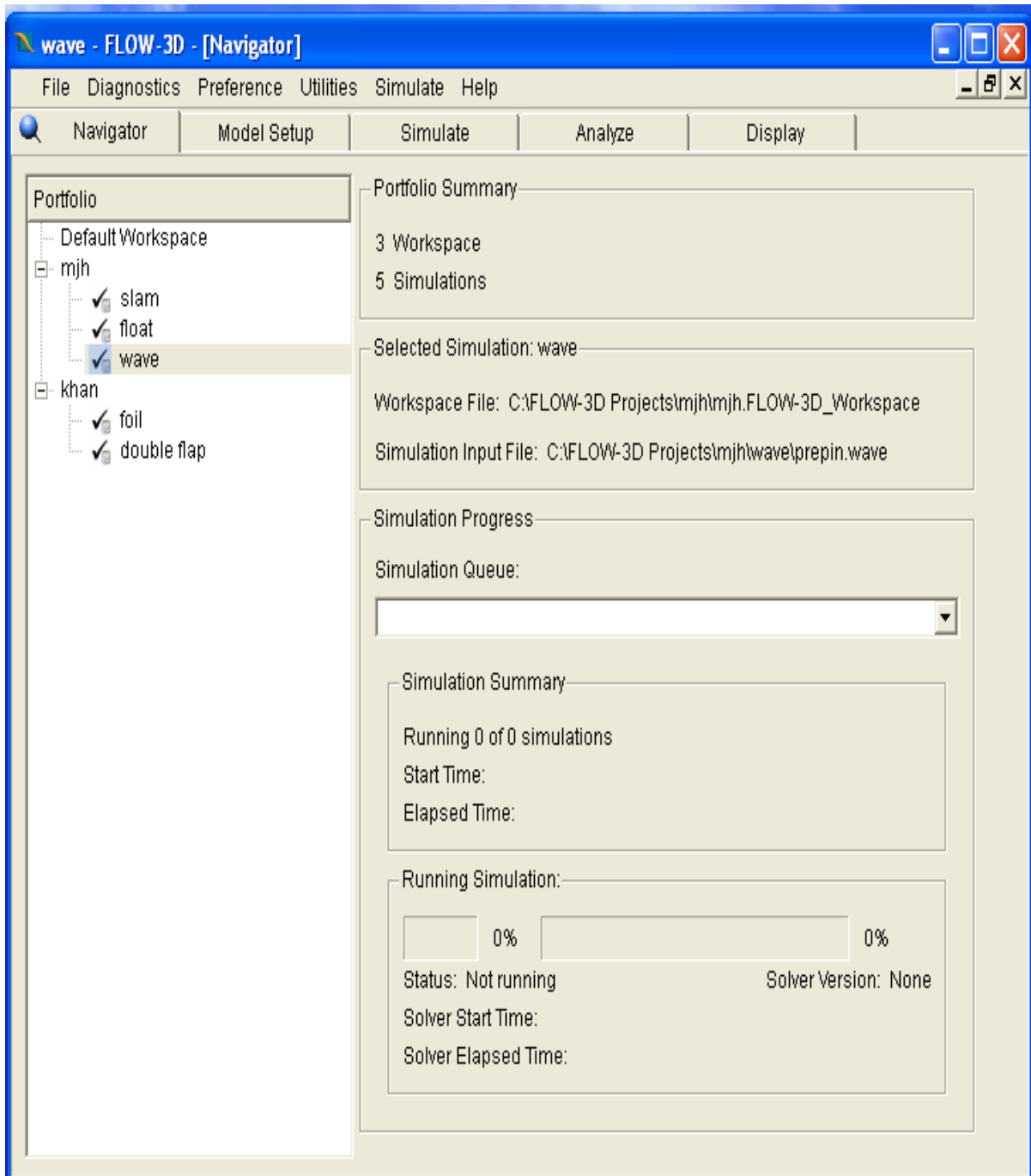
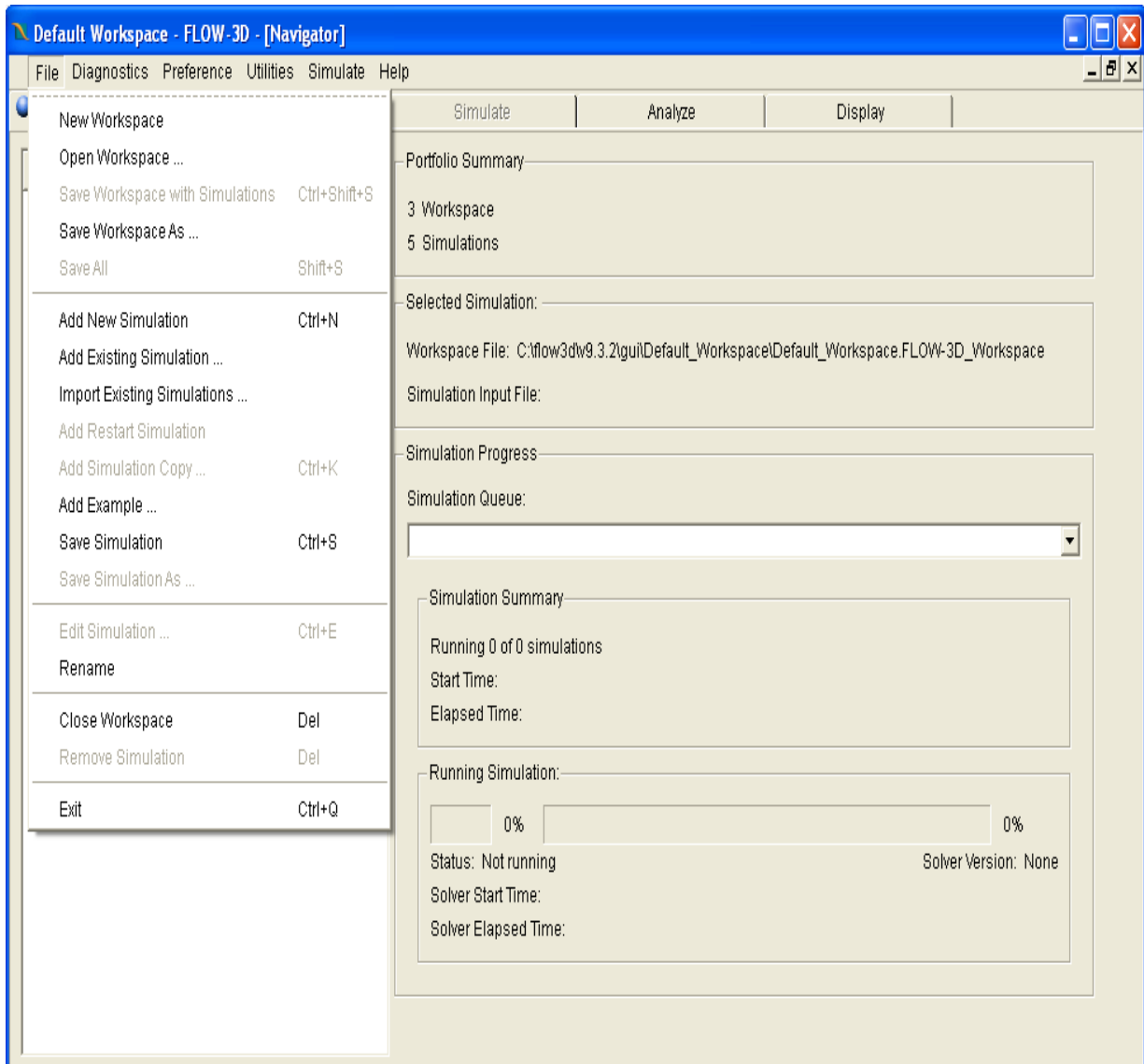








wave - FLOW-3D - [General]

File Diagnostics Preference Utilities Simulate Help

Navigator Model Setup Simulate Analyze Display

General Physics Fluids Meshing Geometry Boundaries Initial Output Numerics

Finish time 25.0

Restart

Interface tracking

☐ Free surface or sharp interface

☒ No sharp interface

Number of fluids

☒ One fluid

☐ Two fluids

Units

Simulation units

SI

Finish condition

☒ Finish time

☐ Fill fraction

☐ Solidified fluid fraction

Finish fraction 1.0

Flow mode

☒ Incompressible

☐ Compressible

☐ Steady-state accelerator

(Non-physical transients)

Mentor options

☐ No mentor he

☐ Offer sugges

☒ Offer sugges

Version options

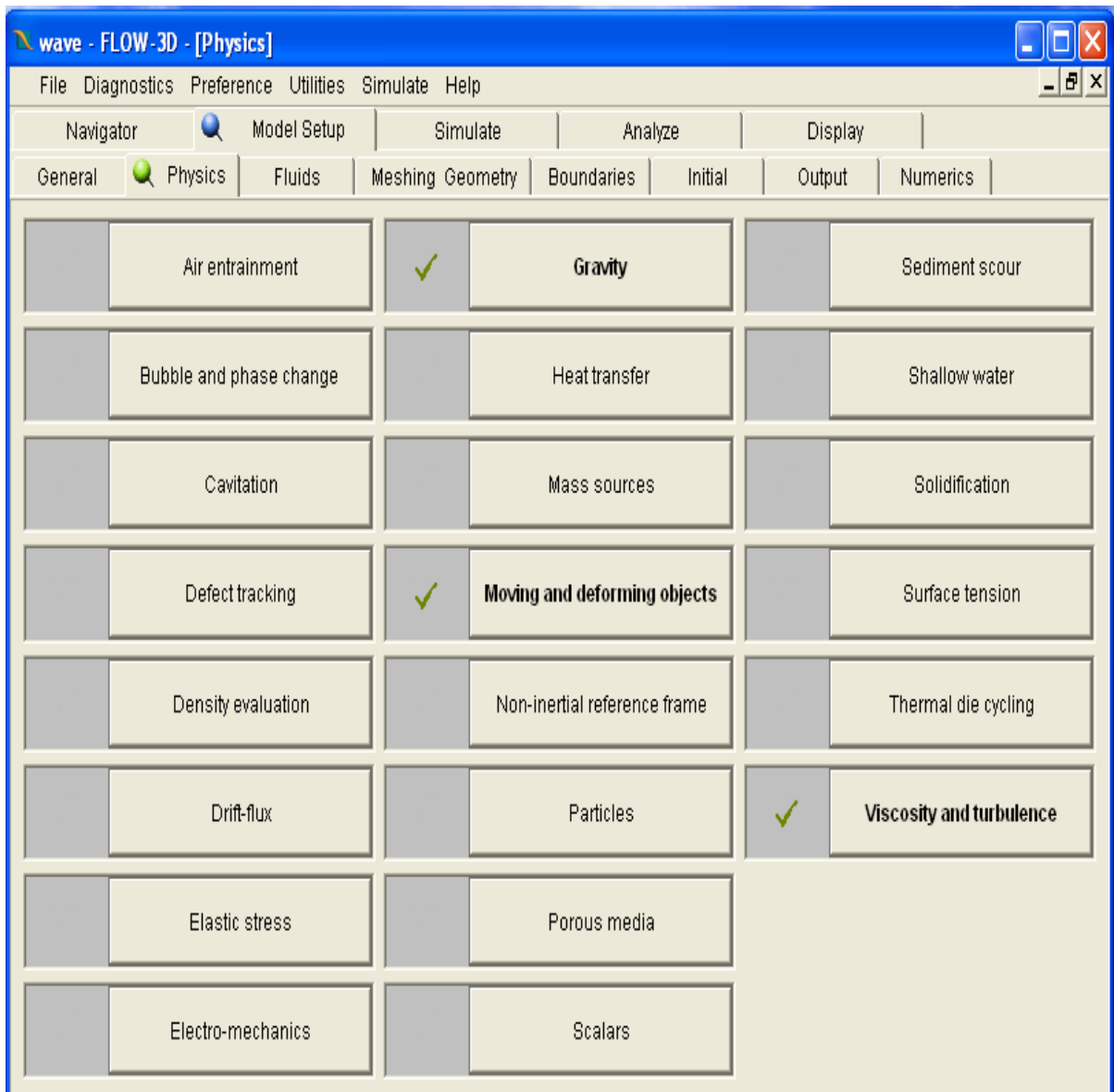
Version Double precision

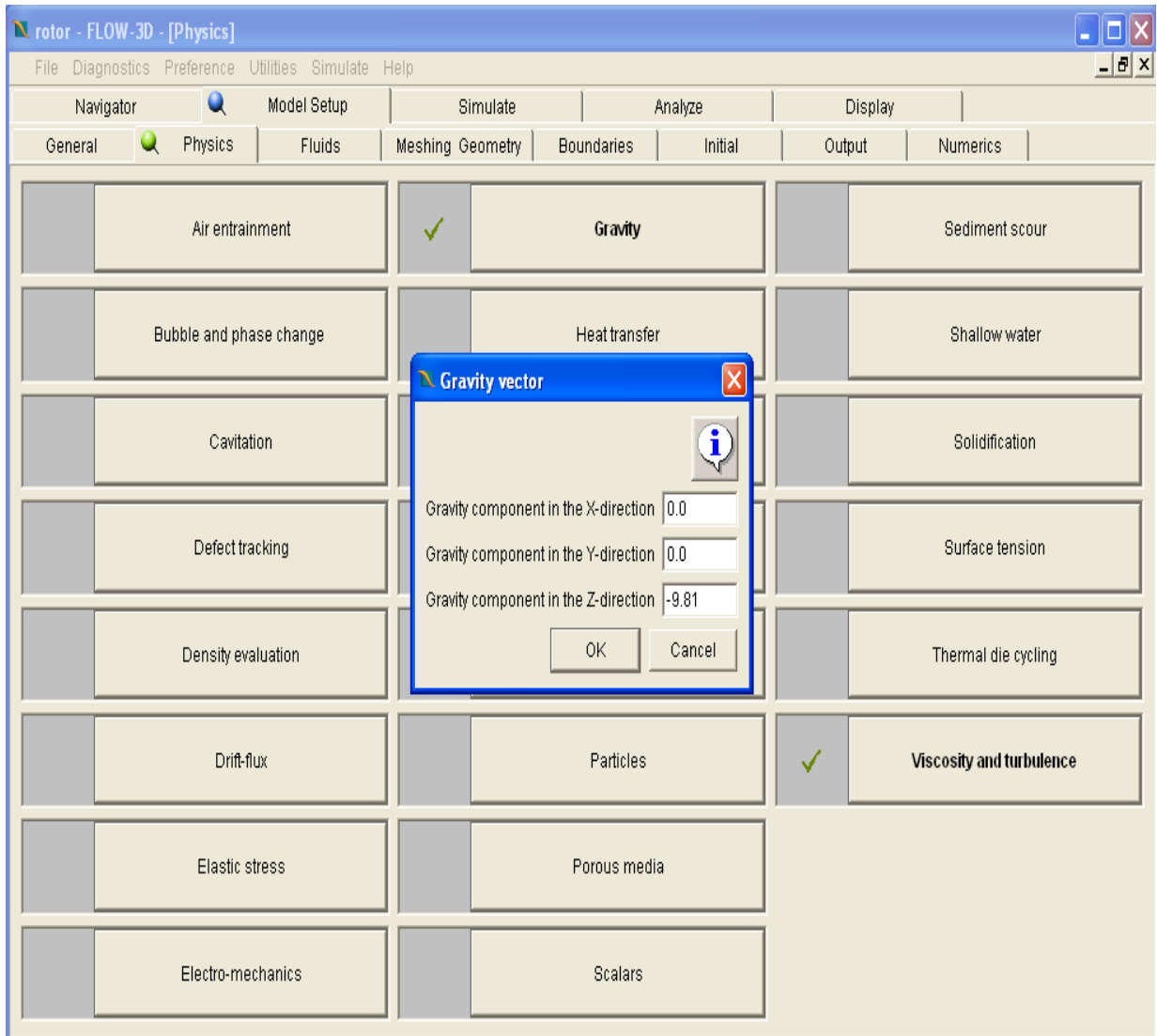
Number of processors All Available

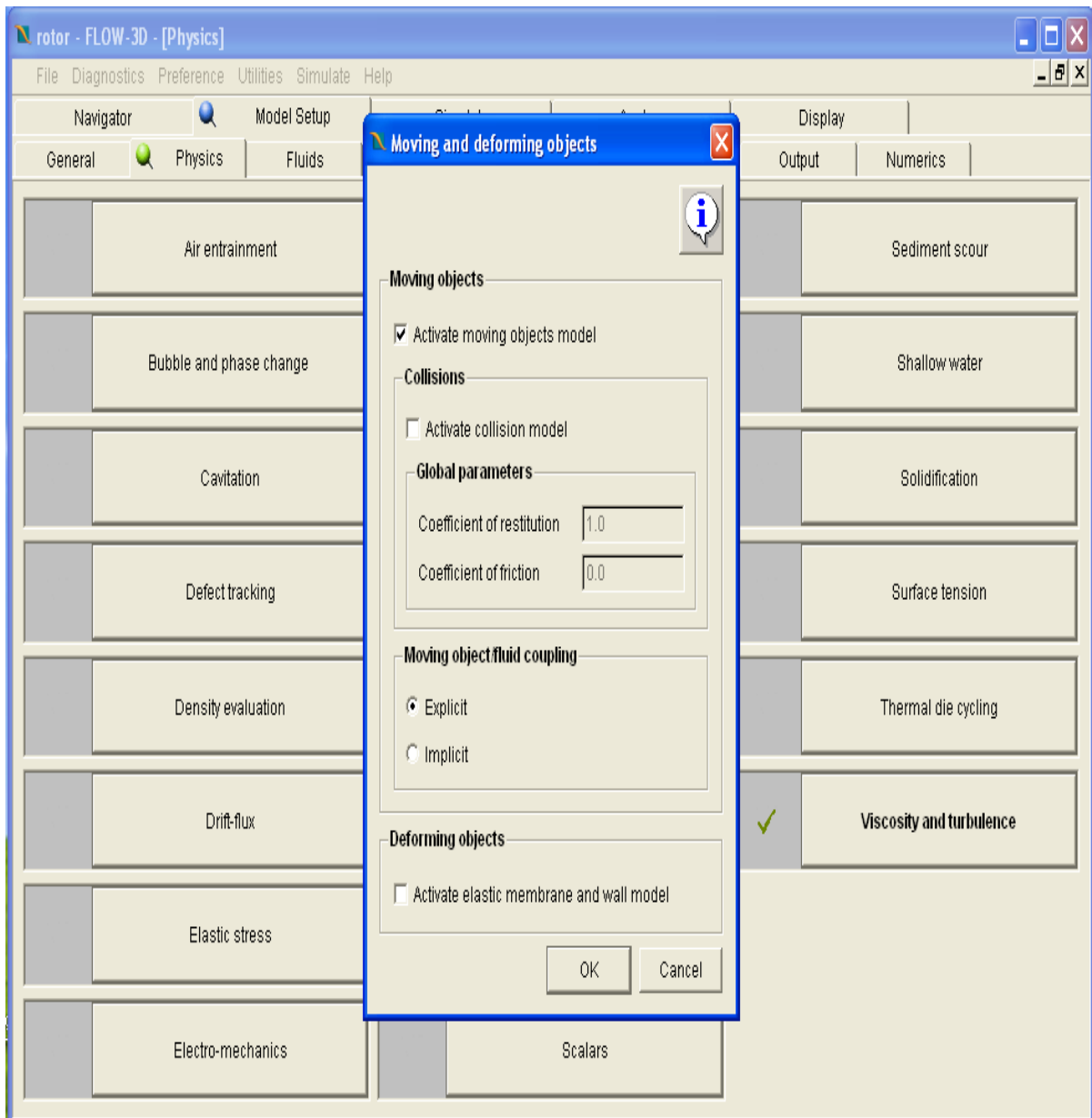
☐ Run serial code if parallel tokens in use

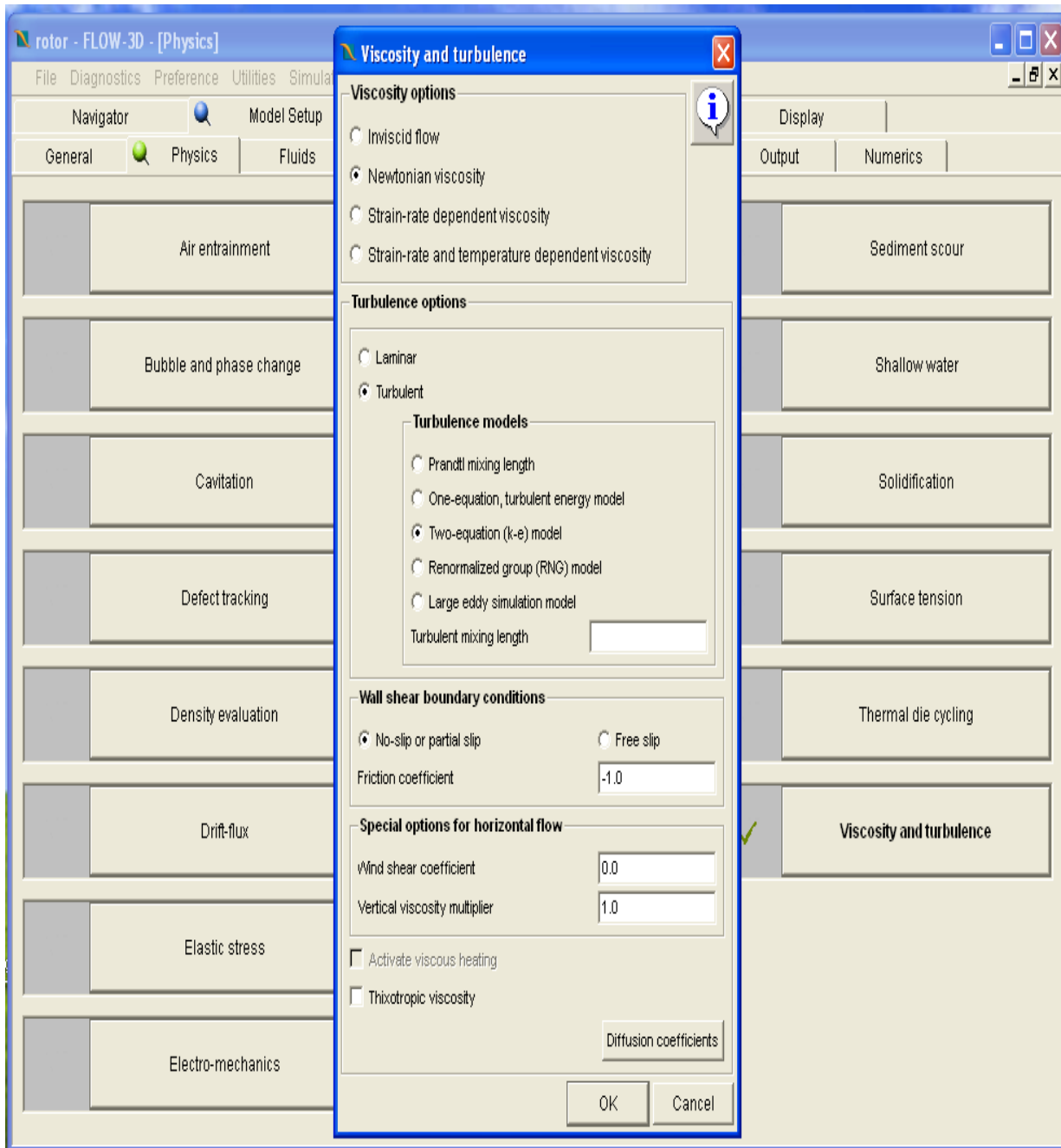
Notes Font...

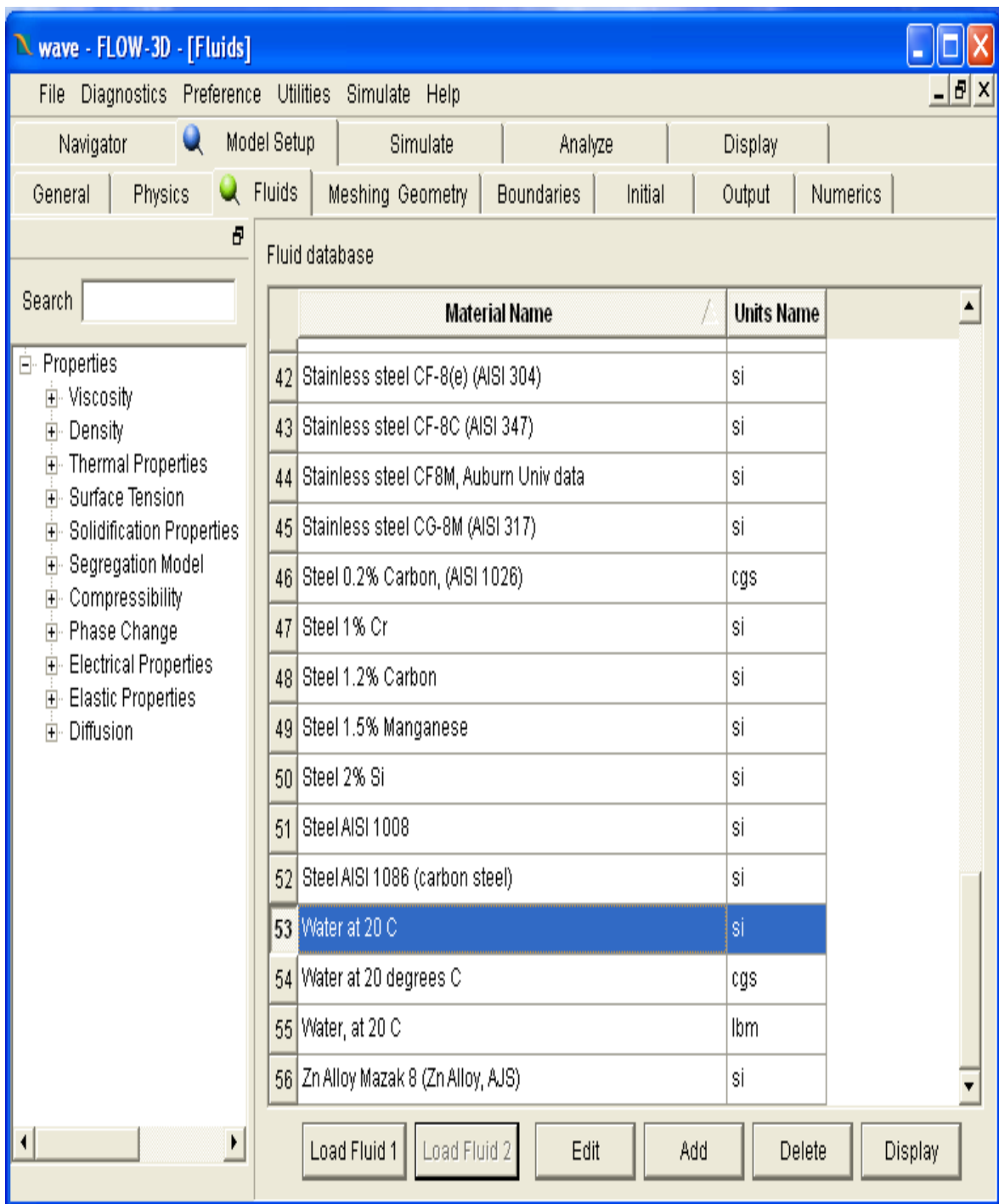
rotor in current

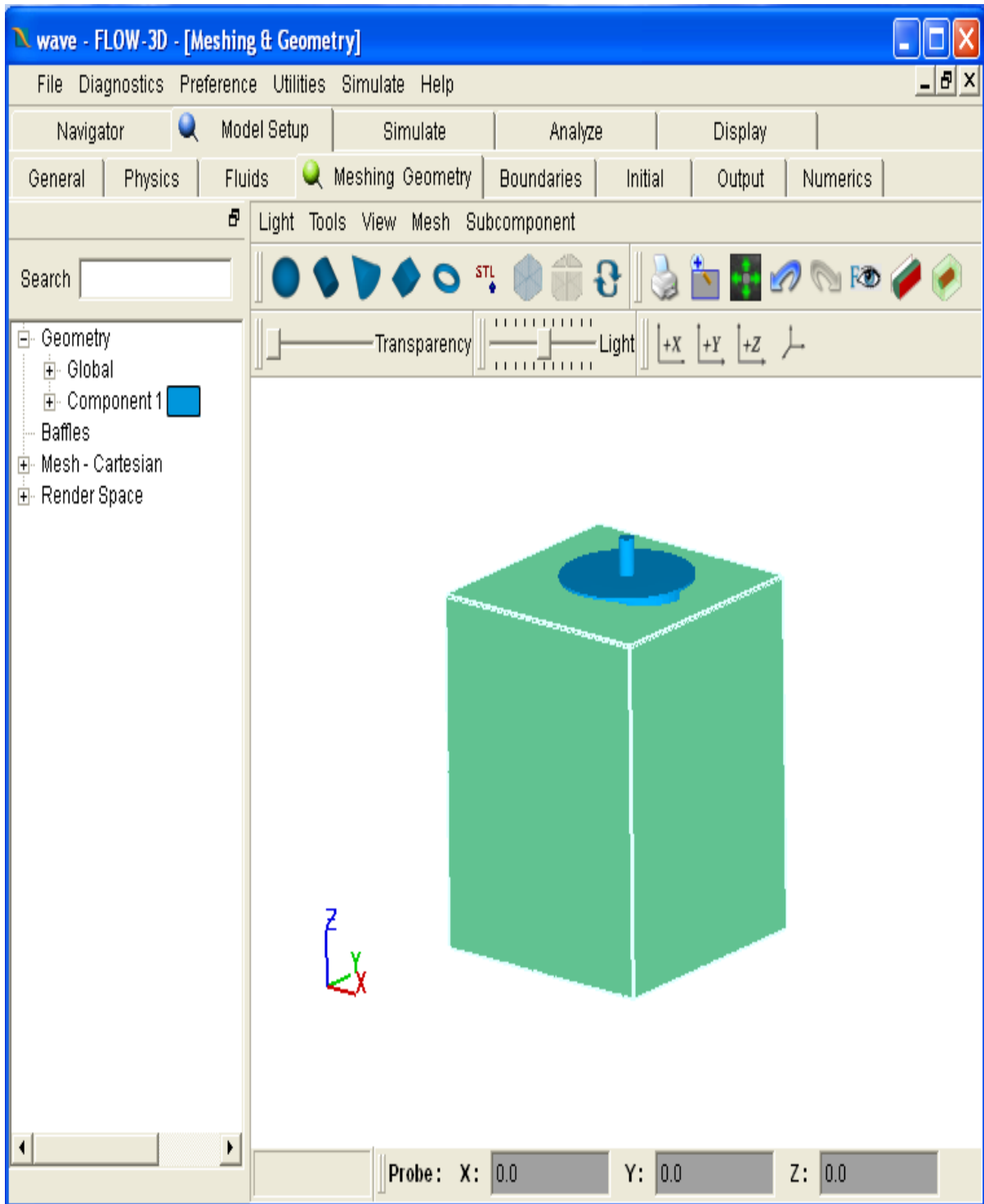












Component 1

Component Type Standard

Subcomponent 2: C:\FLOW-3D Projects\mjh

Geometry File -> ...

Subcomponent Type Solid

Min/Max

Transformations

Magnifications

Global 0.0013

X 1

Y 1

Z 1

Rotations

Translations

X -0.15

Y -0.15

Z -0.32

Limiters

Mass Density

Type of Deforming Object Non-Deforming

Type of Moving Object Coupled Motion

Moving Object Properties Edit

Collision Properties

Solid Properties

Surface Properties

Initial Conditions

Electrical Properties

Lost Foam Properties

Porous Properties

Pressure Force Output No

Baffles

Mesh - Cartesian

Block 1

X Direction

Total Cells 200

Fixed Pt.(1) -0.25

Cell Size 0.0025

of Cells 200

Fixed Pt.(2) +0.25

Y Direction

Total Cells 200

Fixed Pt.(1) -0.25

Cell Size 0.0025

of Cells 200

Fixed Pt.(2) +0.25

Z Direction

Total Cells 4

Fixed Pt.(1) -0.25

Cell Size 0.125

of Cells 4

Fixed Pt.(2) +0.25

Moving object setup

Component 1

Motion Constraints
Mass Properties
Initial/Prescribed Velocities
Control Forces and Torques

6 degrees of freedom
(In space system)

Fixed axis/point X coordinate
0.0

Fixed axis/point Y coordinate
0.0

Fixed axis/point Z coordinate
0.0

Translational and rotational options

(In space system)
(In body system)

X translation
Prescribed motion
X rotation
Prescribed motion

Y translation
Prescribed motion
Y rotation
Prescribed motion

Z translation
Prescribed motion
Z rotation
Coupled motion

Limits for rotation

Maximum angular displacement (degrees)

Negative direction
Positive direction

Limits for translation

Maximum displacement of mass center

X displacement
Y displacement
Z displacement

Negative direction
Positive direction

OK
Cancel

Moving object setup

Component 1

Motion Constraints
Mass Properties
Initial/Prescribed Velocities
Control Forces and Torques

Define density

Mass density
3000.0

Total mass

Moment of inertia about fixed axis

Initial mass center location

X in space system
Y in space system
Z in space system

Moment of inertia tensor about mass center in body system

J₁₁ J₁₂ (J₂₁) J₁₃ J₂₂ J₁₃ (J₃₁) J₂₃ (J₃₂) J₃₃

OK
Cancel

Moving object setup

Component 1

Motion Constraints | **Mass Properties** | **Initial Prescribed Velocities** | **Control Forces and Torques**

Reference Point location X Y Z

(In space system) (In body system)

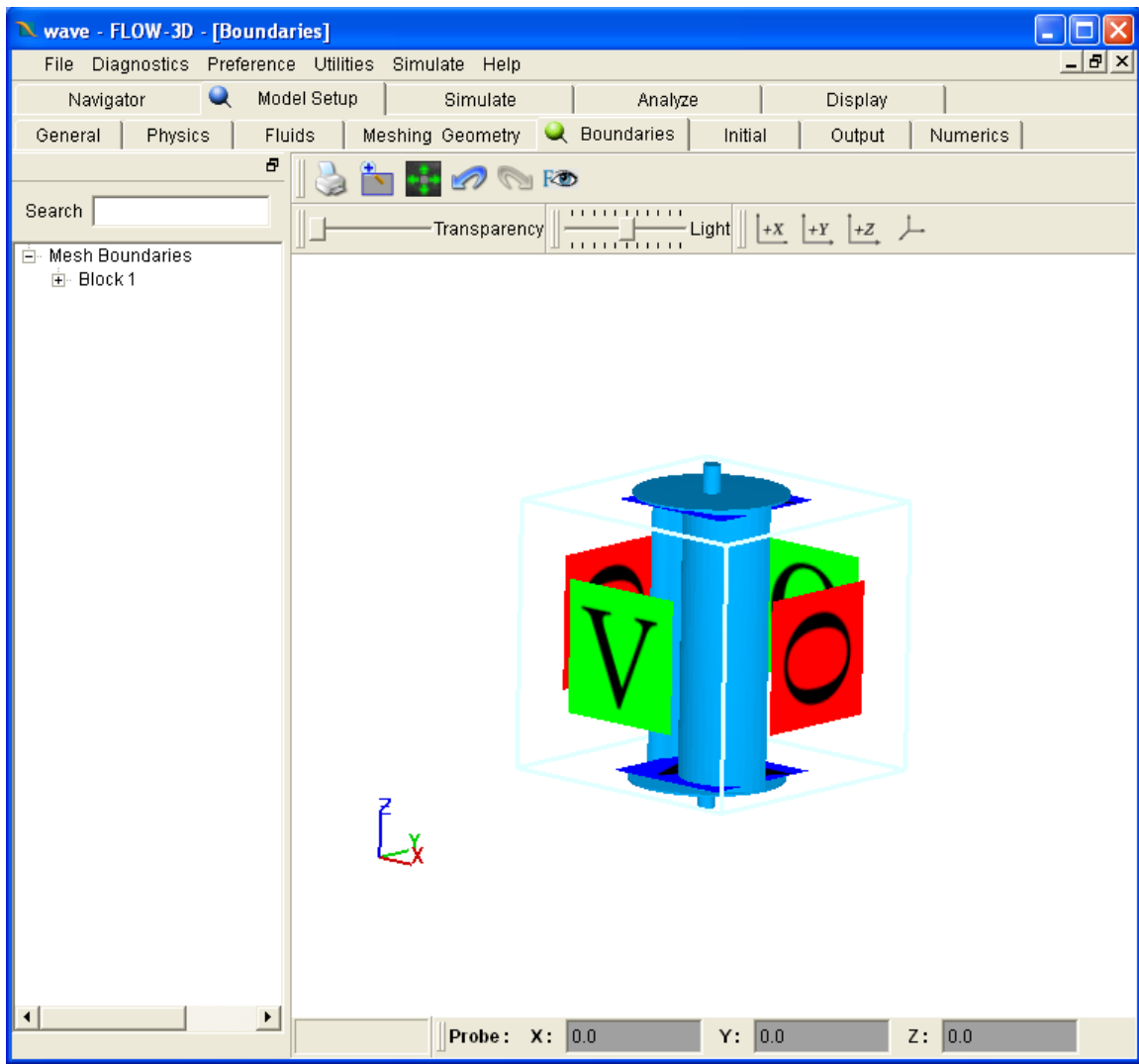
X translational velocity of mass center	0.0	X angular velocity (rad/s)	0.0
Y translational velocity of mass center	0.0	Y angular velocity (rad/s)	0.0
Z translational velocity of mass center	0.0	Z angular velocity (rad/s)	0.0

Moving object setup

Component 1

Motion Constraints | **Mass Properties** | **Initial Prescribed Velocities** | **Control Forces and Torques**

X force	0.0	X torque	0.0
Y force	0.0	Y torque	0.0
Z force	0.0	Z torque	0.0



Mesh Block : #1 [X Max Boundary]

Boundary type

☐ Symmetry

☐ Continuate

☐ Specified pressure

☐ Grid overlay

☐ Wave

☐ Wall

☐ Periodic

☐ Specified velocity

☒ Outflow

☐ Volume flow rate

☒ Allow fluid to enter at outflow boundary

Pressure

☒ Stagnation pressure

F fraction

1.0

Fluid Height

-1.e10

Density

Solute concentration

0.0

Sediment

0.0

Electric charge

0.0

☐ Specified potential boundary

Electric potential

0.0

Thermal information

Turbulence quantities

OK

Cancel

wave - FLOW-3D - [Initial]

FileDiagnosticsPreferenceUtilitiesSimulateHelp

Navigator

Model Setup

Simulate

Analyze

Display

General

Physics

Fluids

Meshing Geometry

Boundaries

Initial

Output

Numerics

Search

Initial

Fluid initial state

U velocity0.0

V velocity0.1

W velocity0.0

Temperature

Turbulent k.e.

Fluid rotation

Electric charge density0.0

Initial solute concentration

Initial pressure field

Uniform

Pressure

Hydrostatic pressure in x-direction

Hydrostatic pressure in y-direction

Hydrostatic pressure in z-direction

Add fluid

Add temperature

Add valve

Add void pointer

Add fluid pointer

Volume options

Height0.25

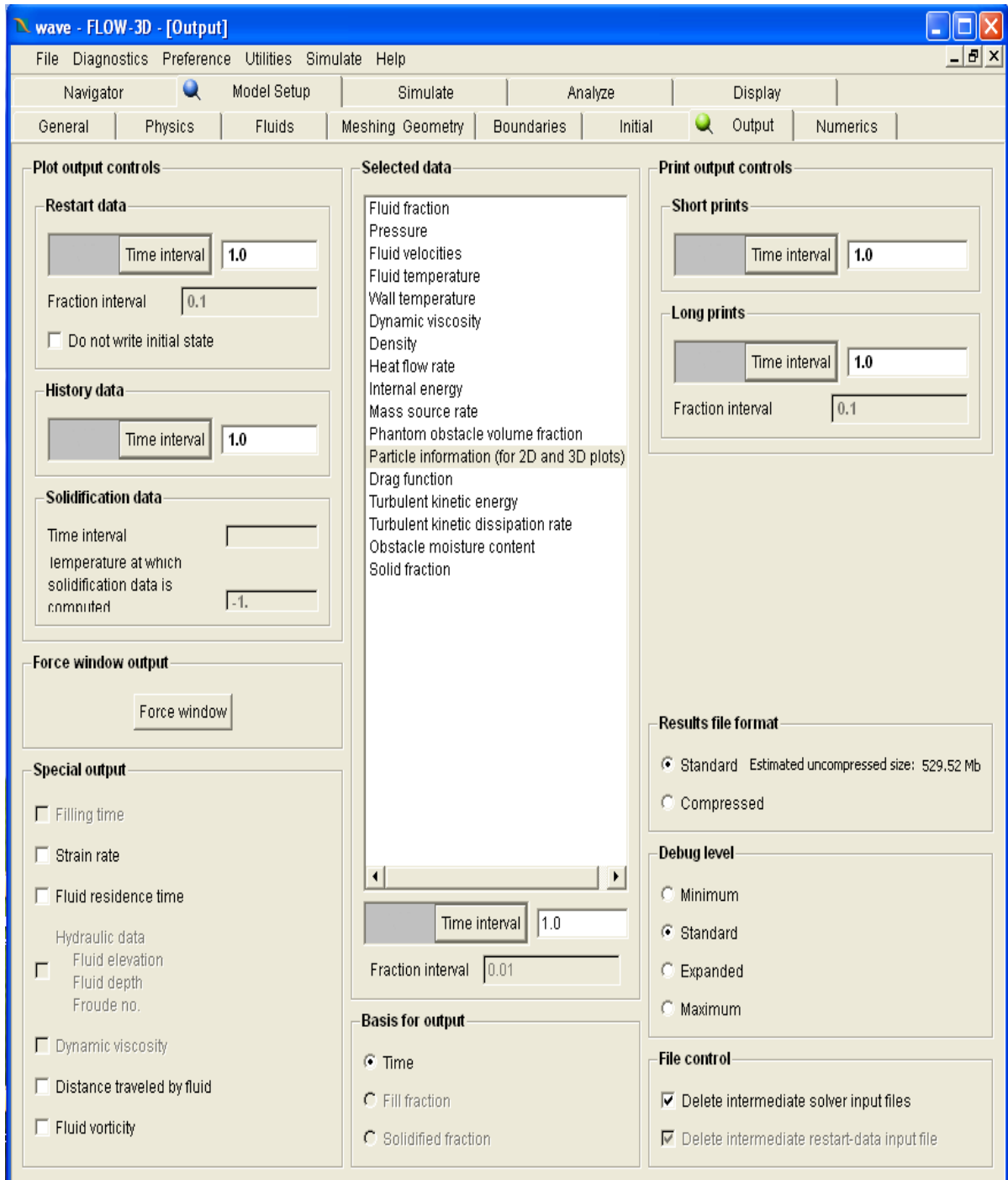
(Z direction is vertical)

Volume0.0

Void initial state

Pressure0.0

Temperature



rotor - FLOW-3D - [Numerics]

File

Diagnostics

Preference

Utilities

Simulate

Help

Navigator

Model Setup

Simulate

Analyze

Display

General

Physics

Fluids

Meshing Geometry

Boundaries

Initial

Output

Numerics

Time-step controls

Initial time step

Minimum time step

Maximum time step

Time-step size controlled by

Stability and convergence

Stability

Constant size

Stability factors

Pressure solver options

Explicit (compressible or shallow water models only)

Implicit

Implicit with automatic limited compressibility

Implicit solver options

SOR

Line implicit

X-direction

Y-direction

Z-direction

GMRES

Convergence controls

Explicit / implicit solver options

Explicit

Implicit

Viscous stress

Successive under-relaxation (compatible with all pressure solver)

Line implicit (requires SOR pressure solver)

GMRES (requires GMRES pressure solver)

Convergence controls

Heat transfer

Convergence controls

Elastic stress

Convergence controls

Surface tension pressure

Bubble pressure

Advection

Moving object Fluid coupling

Coriolis acceleration implicit weighting factor

1.0

Volume-of-fluid advection

Automatic

One fluid, no free surface (confined flow only)

Two fluids with diffuse interface

Two fluids with sharp interface

One fluid, free surface

Unsplit Lagrangian method

Split Lagrangian method

Advanced options

Momentum advection

First order

Second order

Second order monotonicity preserving

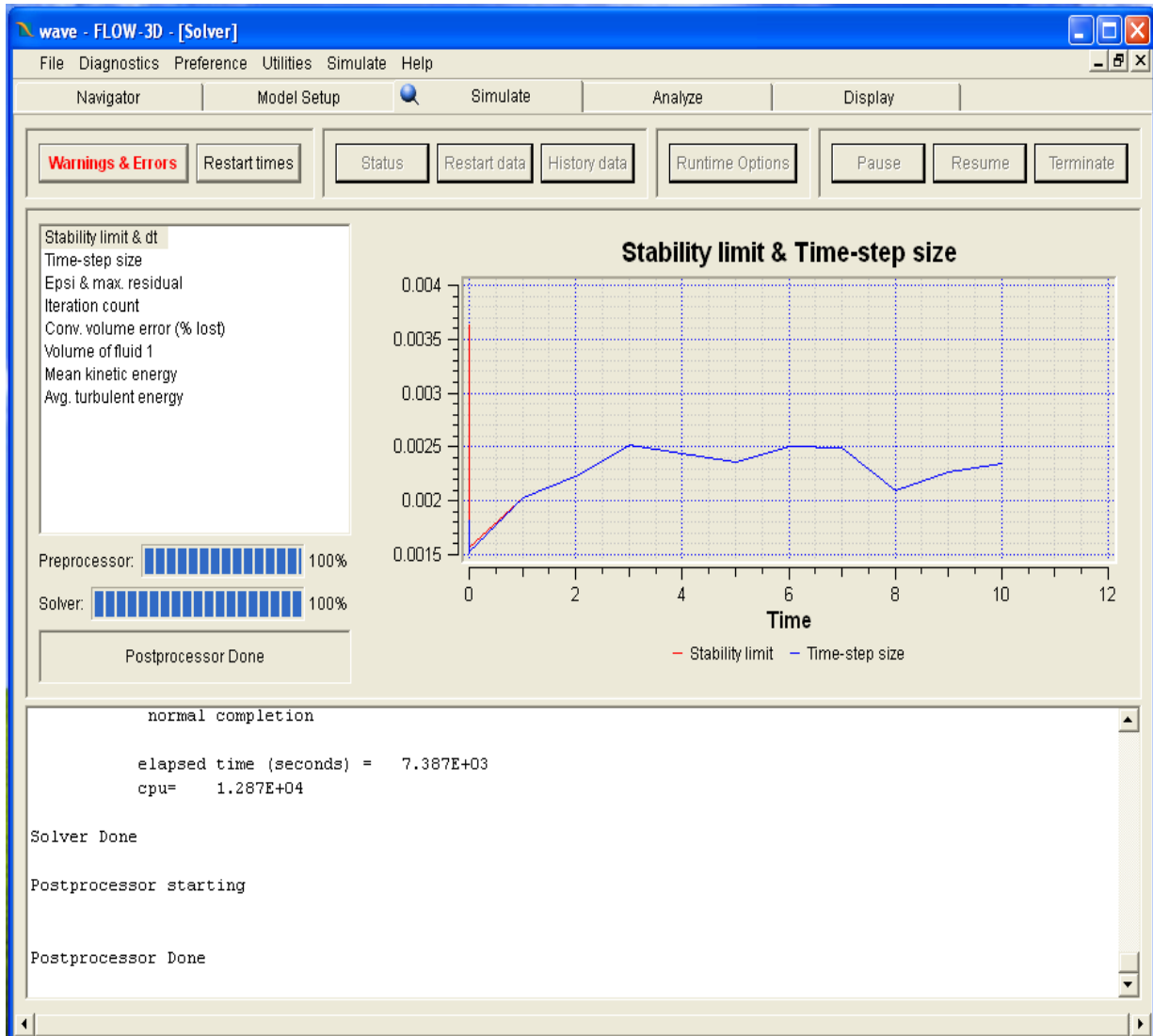
Third order

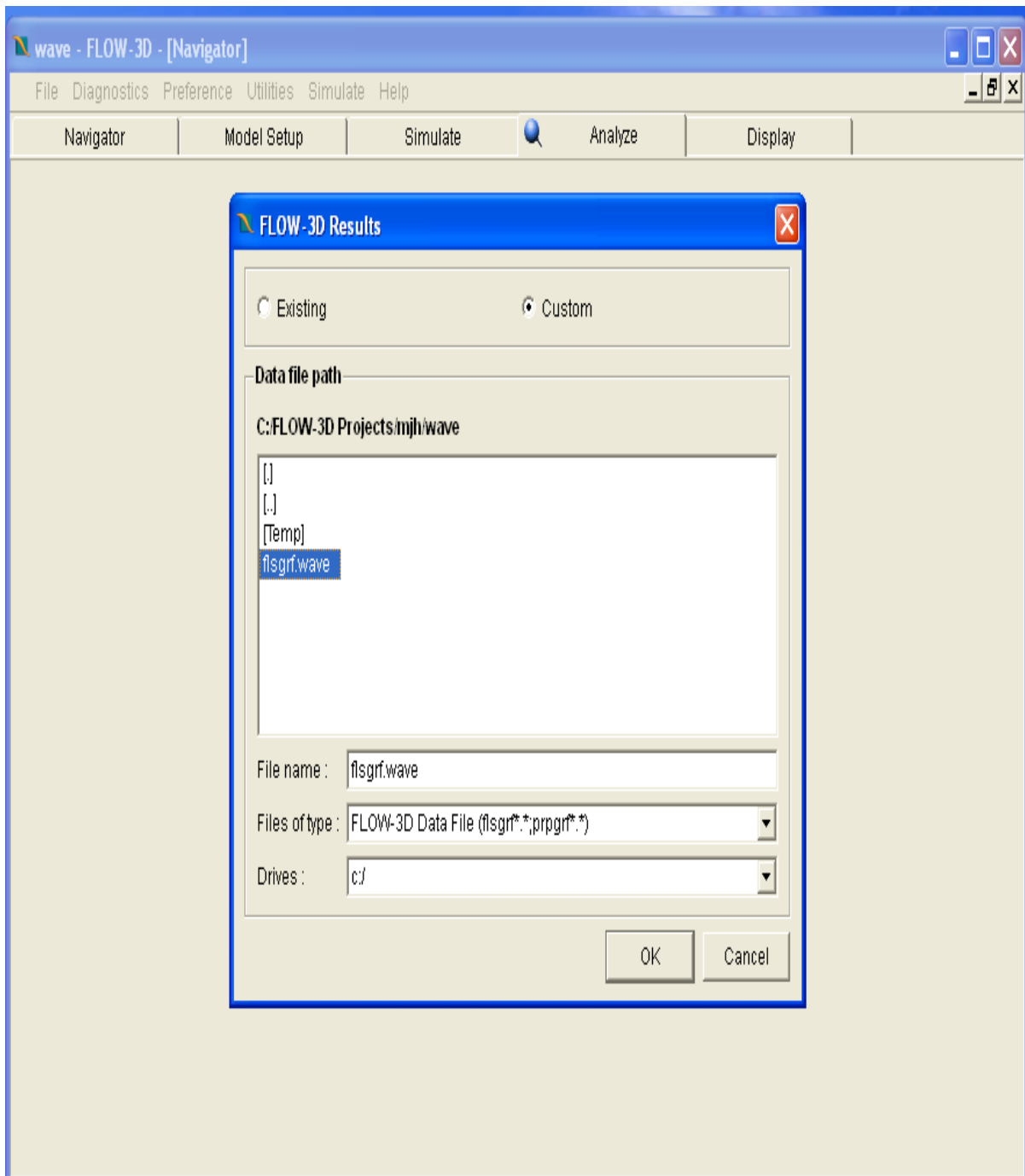
Fluid flow solver options

Solve momentum and continuity equations

Use constant velocity field

Use zero velocity field





wave: flsgrf.wave - Mesh block 1 - FLOW-3D - [3-D]

FileDiagnosticsPreferenceUtilitiesSimulateHelp

Navigator

Model Setup

Simulate

Analyze

Display

CustomProbe1-D2-D3-DText OutputNeutral File

Iso-surface

fraction of fluid

Color variable

pressure

Options

No additional data

Limits

Minimum

I: 2X: -2.48750E-01

J: 2Y: -2.48750E-01

K: 2Z: -1.87500E-01

Maximum

I: 201X: 2.48750E-01

J: 201Y: 2.48750E-01

K: 5Z: 1.87500E-01

Time frame

Min:0.00000E+00

Max:2.50022E+01

Data source

Restart

Selected

Solidification

Iso-surface options

Contour valueAuto

Component iso-surface overlay

NoneOpen volumeSolid volume

Contour valueAuto

STL

Open symmetry boundaries

Render frames to disk

Append to existing output

Contour limits

Minimum value

AutoGlobalUser defined

Maximum value

AutoGlobalUser defined

Vector Options

Streamline Points

Open results file

Reload results file

Save Settings

Load Settings

Reset Settings

Cancel Render

Render

Units

Mesh block

