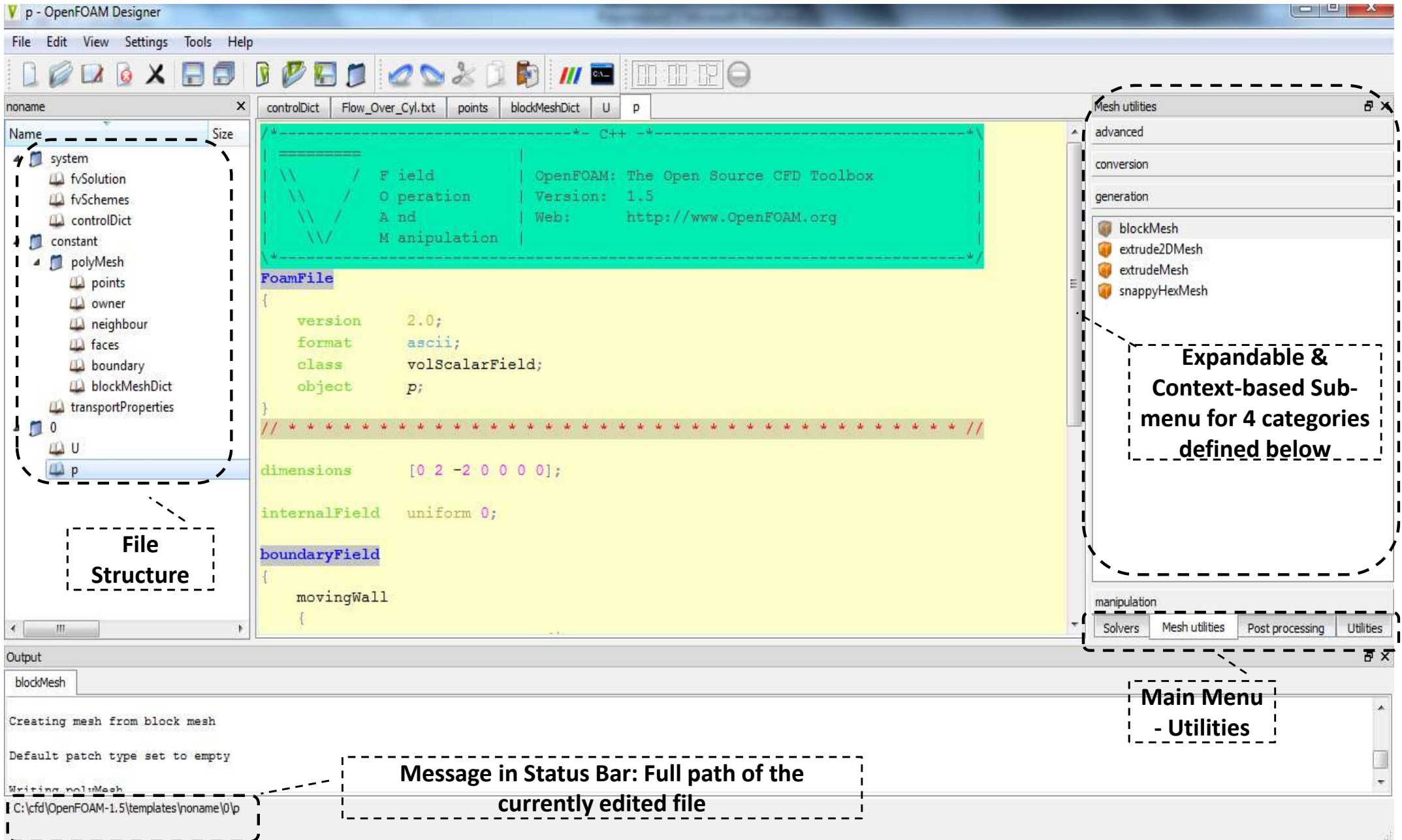


GUI & File Structure in OpenFOAM Designer Version 1



blockMeshDict - OpenFOAM Designer

File Edit View Settings Tools Help

noname x blockMeshDict

Name Size
 system
 fvSolution
 fvSchemes
 controlDict
 constant
 polyMesh
 points
 owner
 neighbour
 faces
 boundary
 blockMeshDict
 transportProperties
 0
 U
 p
 -p
 SFOAM_RUN

```

Operation | Version: 2.3.1
And | Web: www.OpenFOAM.org
Manipulation |

FoamFile
{
  version 2.0;
  format ascii;
  class dictionary;
  object blockMeshDict;
}

// *****

convertToMeters 1;

vertices #codeStream
{
  codeInclude
  #{
  #include "pointField.H"
  #};

  code
  #{
  pointField points(19);
  points[0] = point(0.5, 0, -0.5);
  points[1] = point(1, 0, -0.5);
  points[2] = point(2, 0, -0.5);
  points[3] = point(2, 0.707107, -0.5);
  points[4] = point(0.707107, 0.707107, -0.5);
  points[5] = point(0.353553, 0.353553, -0.5);
  points[6] = point(2, 2, -0.5);
  }
}
  
```

Solver Control
Discretization schemes
Solver tolerance and algorithm

Mesh Parameter
Material (Transport) Properties

Initialization
Boundary conditions

Utilities

errorEstimation

- estimateScalarError
- icoErrorEstimate
- icoMomentError
- momentScalarError

miscellaneous

parallelProcessing

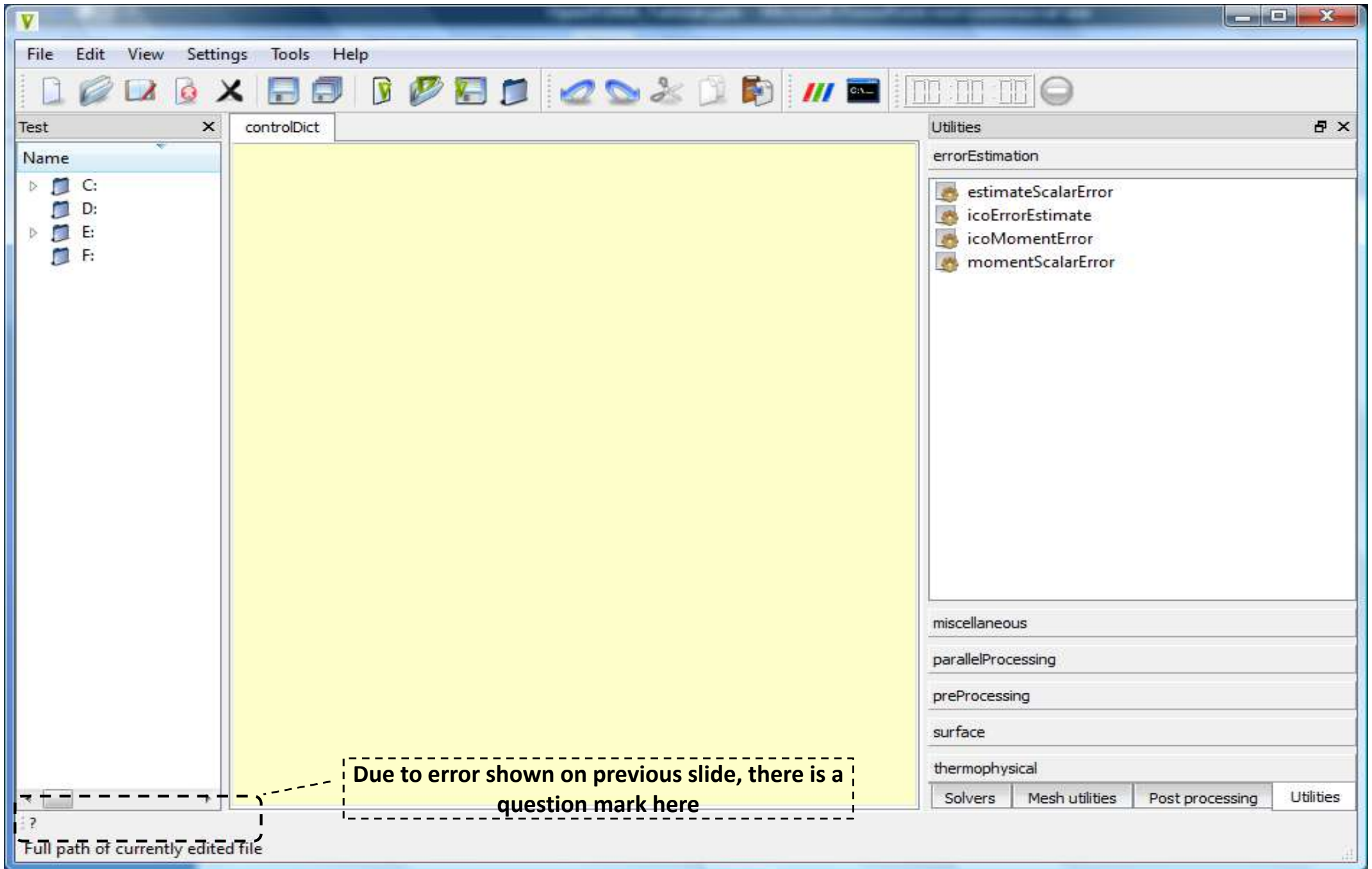
preProcessing

surface

thermophysical

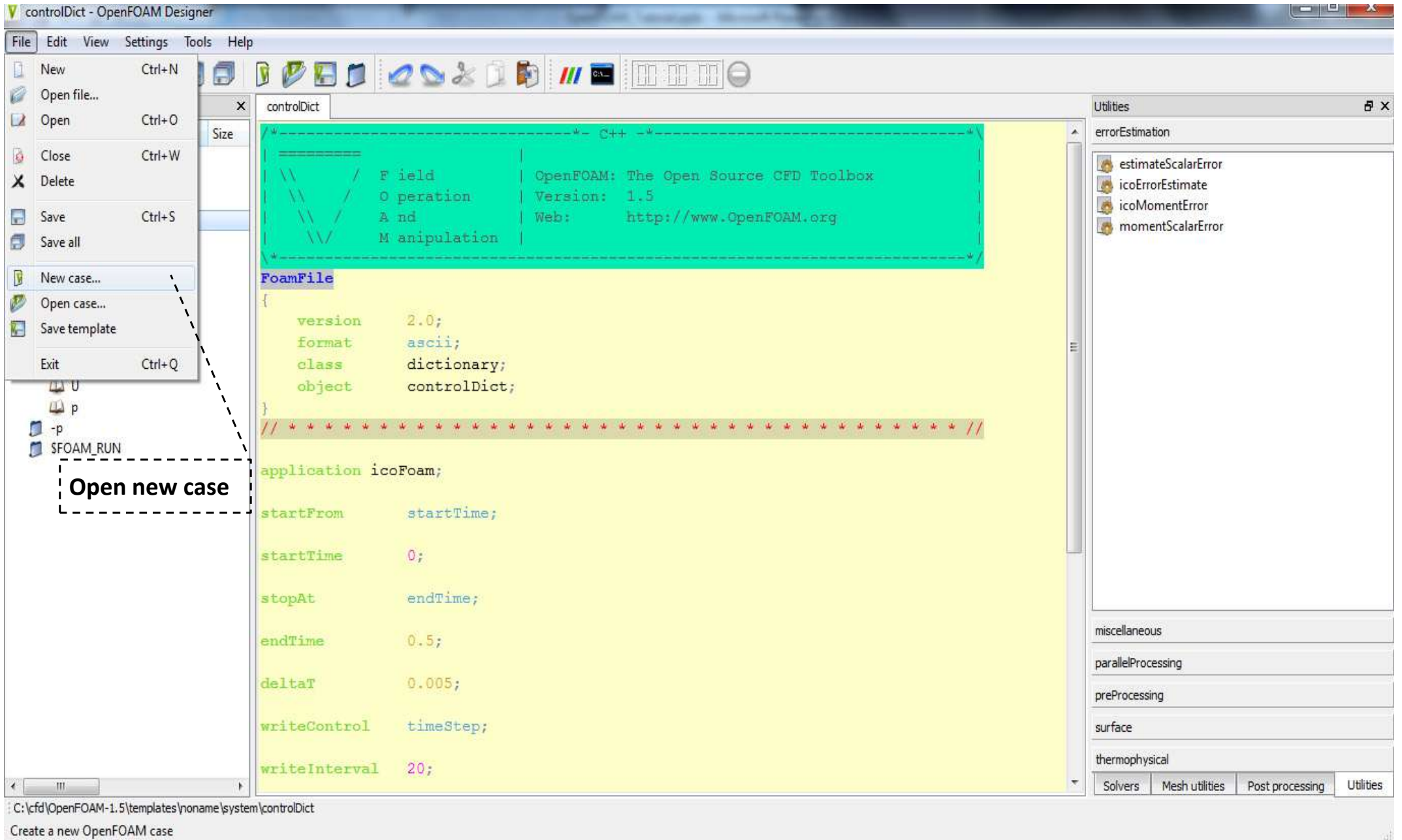
Solvers Mesh utilities Post processing Utilities

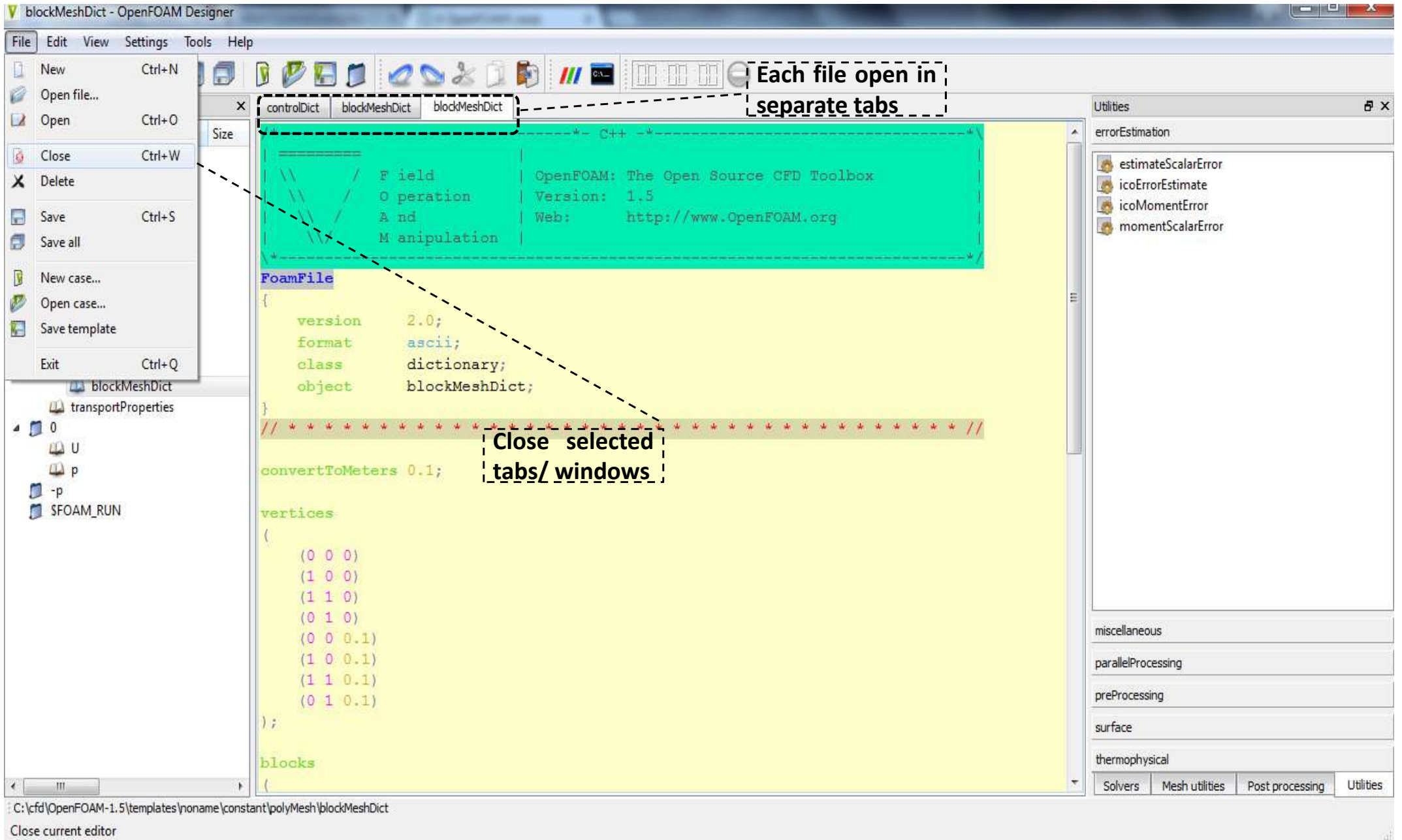
C:\OpenFOAM\Test\blockMeshDict

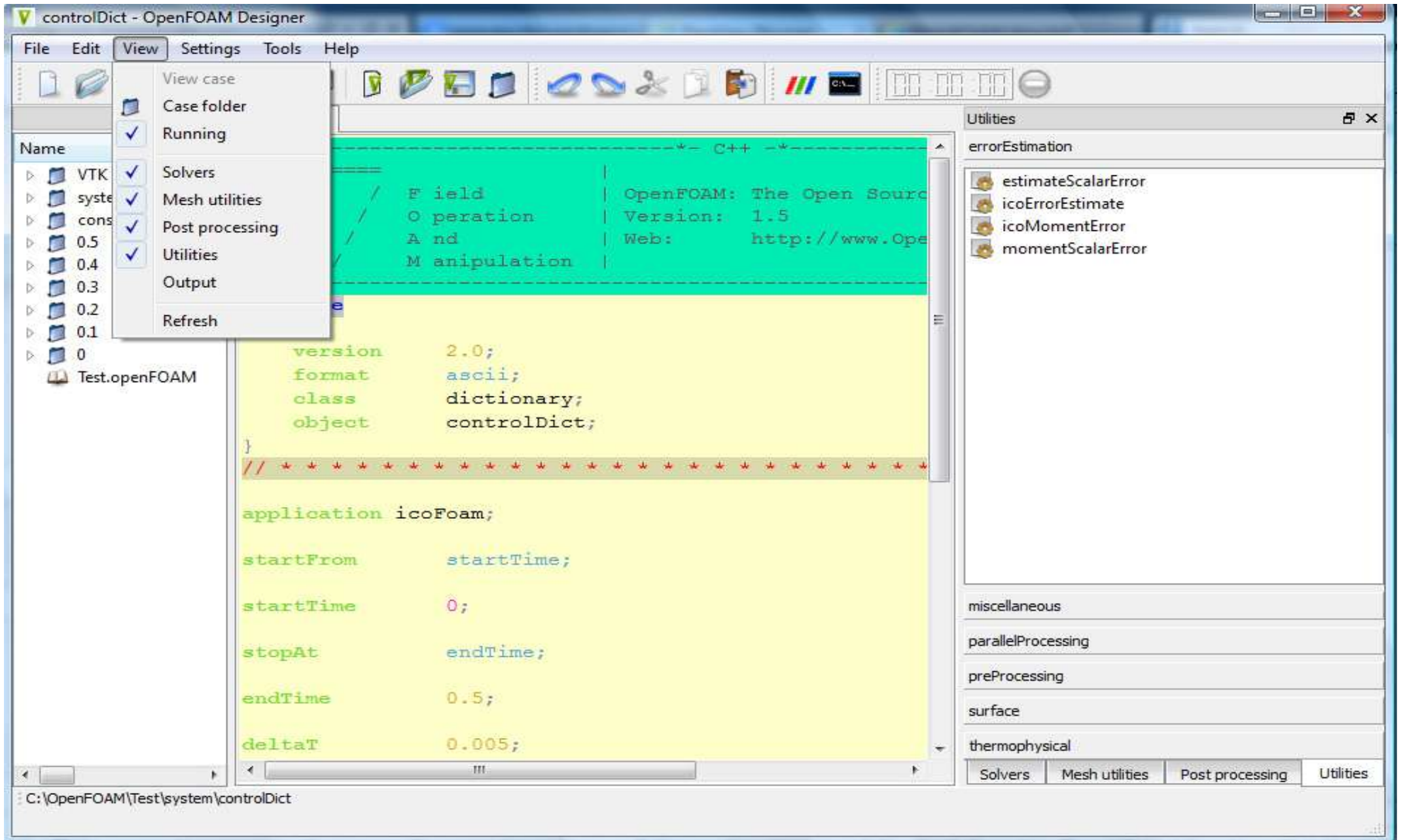


Due to error shown on previous slide, there is a question mark here

Full path of currently edited file







Mapping of content in OpenFOAM dictionaries and ANSYS CFX/Fluent

System/controlDict file

```
application potentialFoam;

startFrom      startTime;
startTime      0;
stopAt         endTime;
endTime        1;
deltaT         1;
writeControl   timeStep;
writeInterval  1;
purgeWrite     0;
writeFormat    ascii;
writePrecision 6;

writeCompression uncompressed;

timeFormat     general;
timePrecision  6;

runTimeModifiable yes;
```

CFX Transient Analysis Setting Tab

CFX Transient Analysis Setting Tab

Outline | Analysis Type

Details of **Analysis Type** in **Flow Analysis 1**

Basic Settings

External Solver Coupling

Option: None

Analysis Type

Option: Transient

Time Duration

Option: Total Time

Total Time: 10 [s]

Time Steps

Option: Timesteps

Timesteps: 0.1 [s]

Initial Time

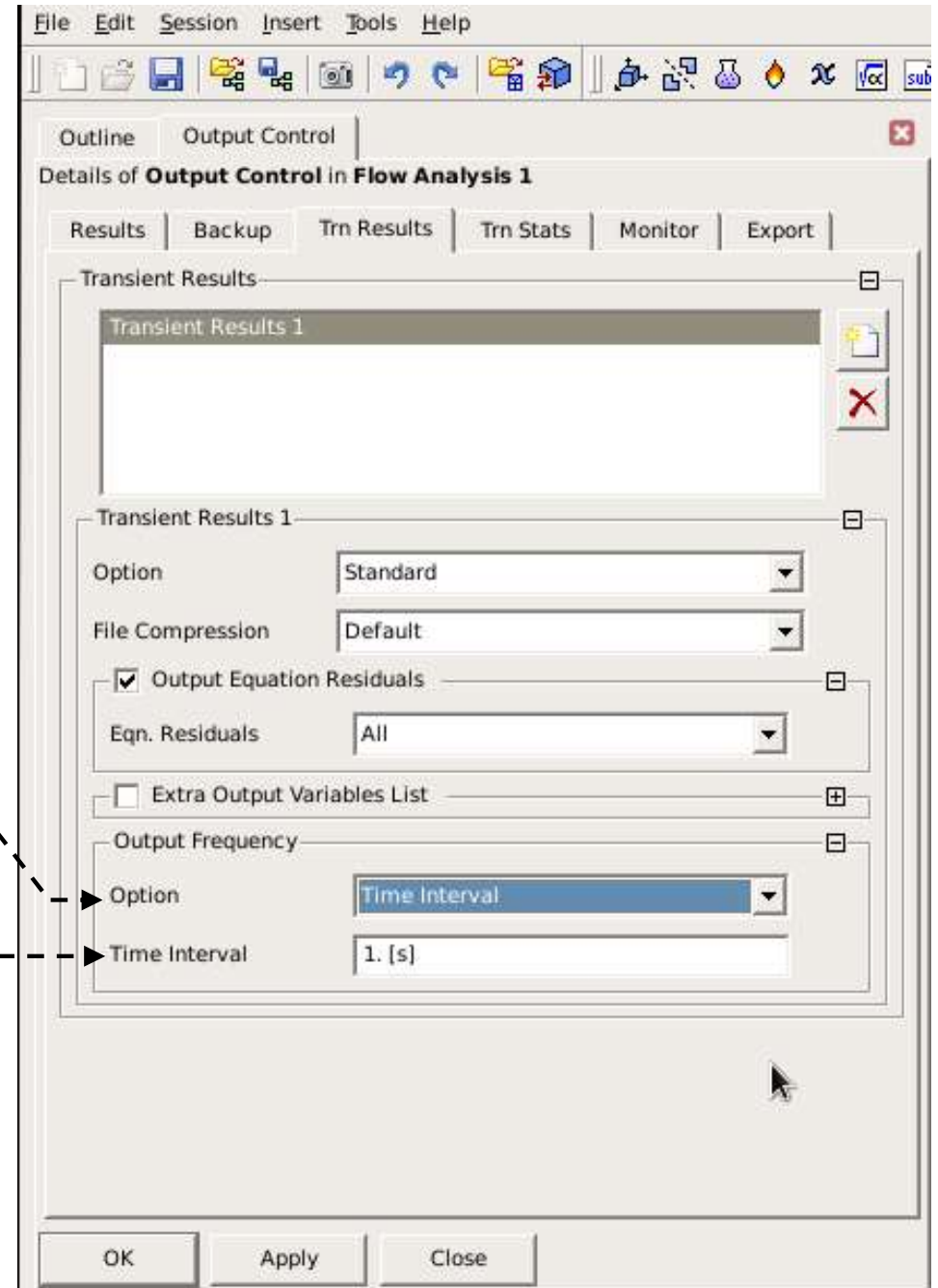
Option: Automatic with Value

Time: 0 [s]

OK | Apply | Close

System/controlDict file

```
application potentialFoam;  
  
startFrom      startTime;  
  
startTime      0;  
  
stopAt         endTime;  
  
endTime        1;  
  
deltaT         1;  
  
writeControl   timeStep; ---  
  
writeInterval  1; ---  
  
purgeWrite     0;  
  
writeFormat    ascii;  
  
writePrecision 6;  
  
writeCompression uncompressed;  
  
timeFormat     general;  
  
timePrecision  6;  
  
runTimeModifiable yes;
```



'Time': 0/U file

```
FoamFile
{
  version      2.0;
  format       ascii;
  class        volVectorField;
  object       U;
}
// *****

dimensions    [0 1 -1 0 0 0];

internalField uniform (0 0 0);

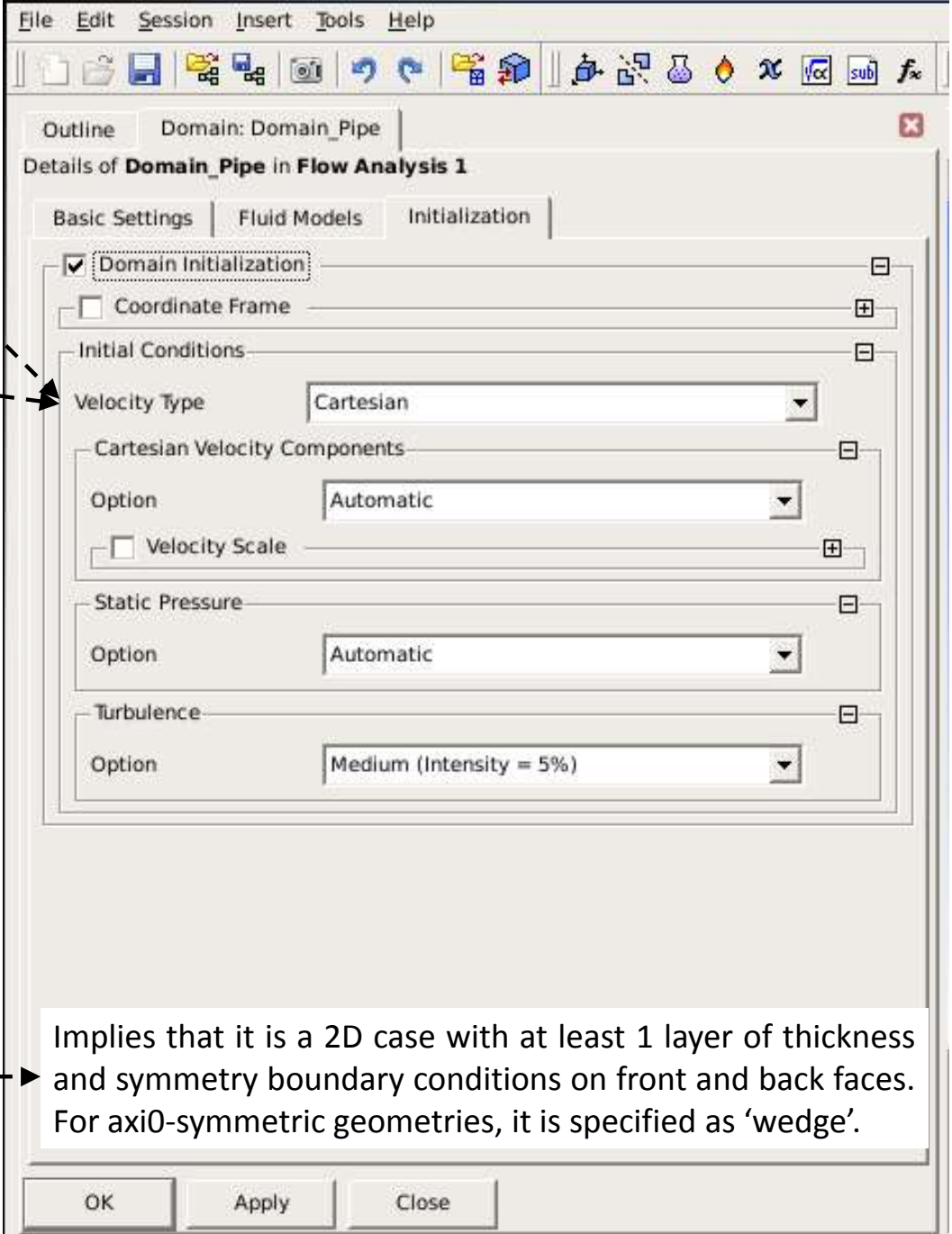
boundaryField
{
  inlet
  {
    type      fixedValue;
    value     uniform (10 0 0);
  }

  outlet
  {
    type      zeroGradient;
  }

  upperWall
  {
    type      fixedValue;
    value     uniform (0 0 0);
  }

  lowerWall
  {
    type      fixedValue;
    value     uniform (0 0 0);
  }

  frontAndBack
  {
    type      empty;
  }
}
```



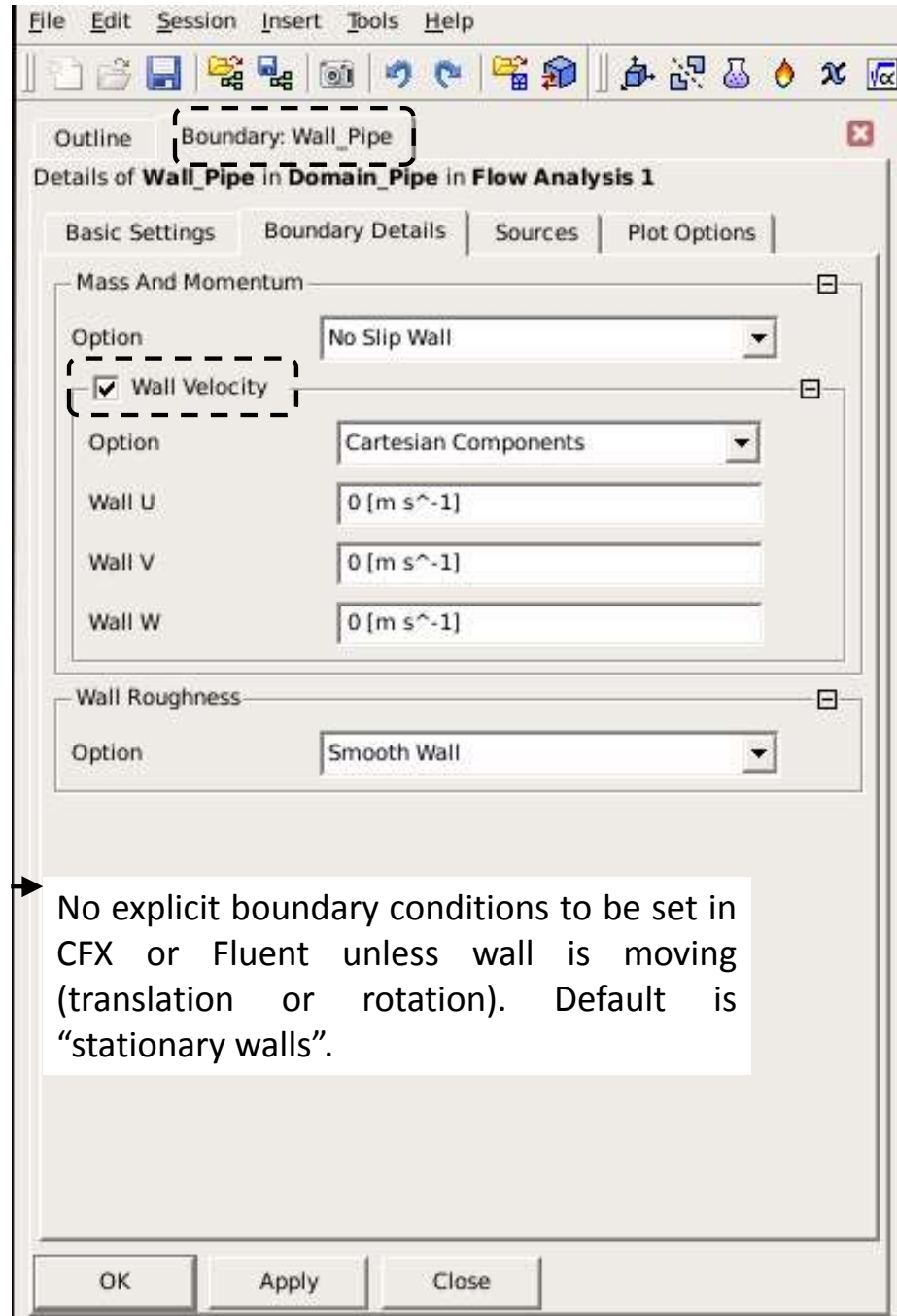
'Time': 0/U file

```
FoamFile
{
  version      2.0;
  format       ascii;
  class        volVectorField;
  object       U;
}
// *****

dimensions     [0 1 -1 0 0 0];

internalField  uniform (0 0 0);

boundaryField
{
  inlet
  {
    type        fixedValue;
    value       uniform (10 0 0);
  }
  outlet
  {
    type        zeroGradient;
  }
  upperWall
  {
    type        fixedValue;
    value       uniform (0 0 0);
  }
  lowerWall
  {
    type        fixedValue;
    value       uniform (0 0 0);
  }
  frontAndBack
  {
    type        empty;
  }
}
```



No explicit boundary conditions to be set in CFX or Fluent unless wall is moving (translation or rotation). Default is "stationary walls".

```

FoamFile
{
  version      2.0;
  format       ascii;
  class        volScalarField;
  object       p;
}
// *****

dimensions    [0 2 -2 0 0 0];

internalField uniform 0;

boundaryField
{
  inlet
  {
    type      zeroGradient;
  }

  outlet
  {
    type      fixedValue;
    value     uniform 0;
  }

  upperWall
  {
    type      zeroGradient;
  }

  lowerWall
  {
    type      zeroGradient;
  }

  frontAndBack
  {
    type      empty;
  }
}

```

'Time': 0/p file

File Edit Session Insert Tools Help

Outline Domain: Domain_Pipe

Details of **Domain_Pipe** in **Flow Analysis 1**

Basic Settings | Fluid Models | Initialization

Domain Initialization

Coordinate Frame

Initial Conditions

Velocity Type Cartesian

Cartesian Velocity Components

Option Automatic

Velocity Scale

Static Pressure

Option Automatic

Turbulence

Option Medium (Intensity = 5%)

OK Apply Close

No explicit boundary conditions to be set in CFX or Fluent unless wall is moving (translation or rotation)

Implies that it is a 2D case with at least 1 layer of thickness and symmetry boundary conditions on front and back faces

'Time': 0/U file

```
FoamFile
{
  version      2.0;
  format       ascii;
  class        volVectorField;
  object       U;
}
// *****

dimensions    [0 1 -1 0 0 0 0];

internalField uniform (0 0 0);

boundaryField
{
  inlet
  {
    type      fixedValue;
    value     uniform (10 0 0);
  }

  outlet
  {
    type      zeroGradient;
  }

  upperWall
  {
    type      fixedValue;
    value     uniform (0 0 0);
  }

  lowerWall
  {
    type      fixedValue;
    value     uniform (0 0 0);
  }

  frontAndBack
  {
    type      empty;
  }
}
```

File Edit Session Insert Tools Help

Outline | Output Control | Boundary: Inlet

Details of **Inlet** in **Domain_Pipe** in **Flow Analysis 1**

Basic Settings | **Boundary Details** | Sources | Plot Options

Flow Regime

Option

Mass And Momentum

Option

Normal Speed

Turbulence

Option

OK Apply Close

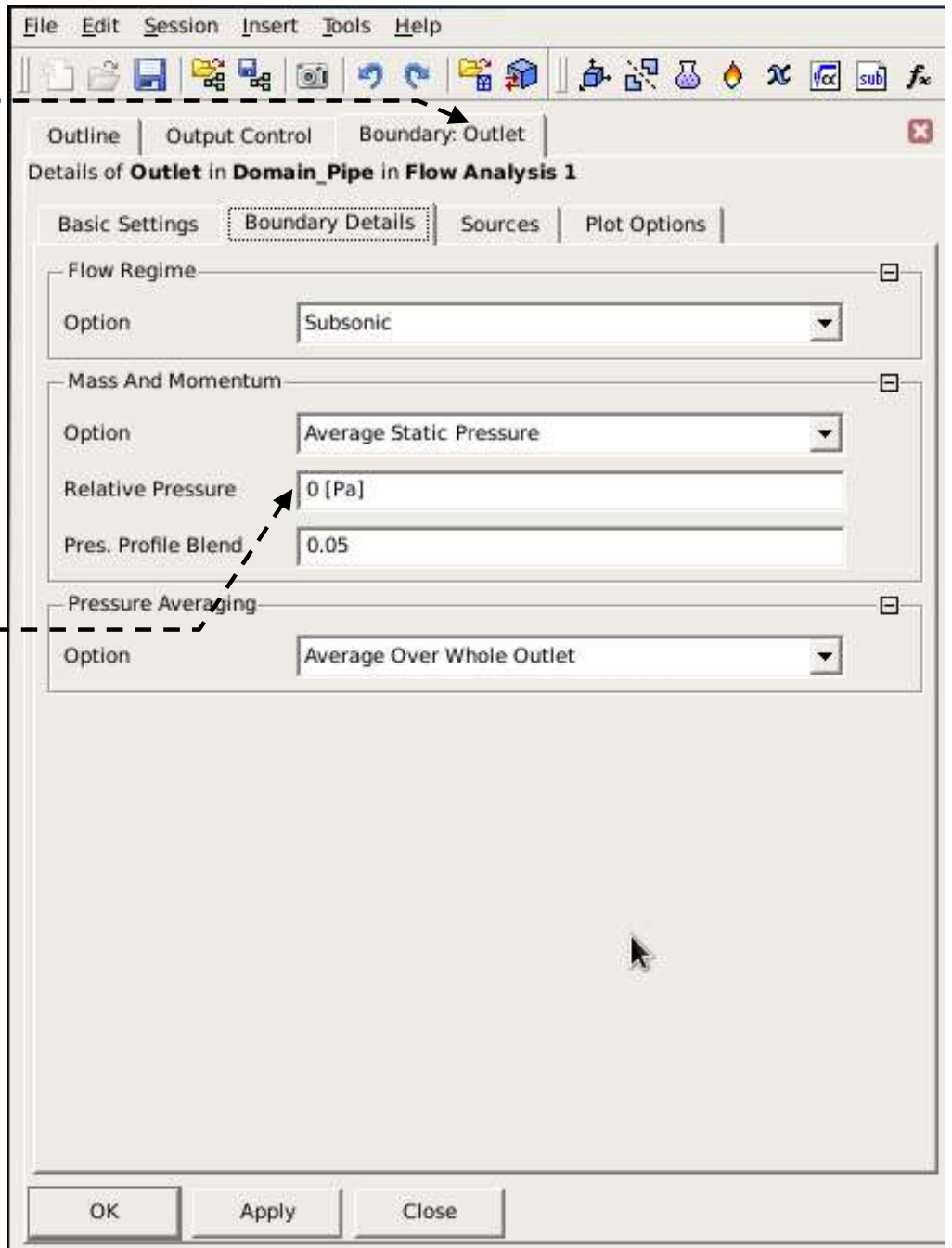
Implies that it is a 2D case with at least 1 layer of thickness and symmetry boundary conditions on front and back faces

'Time': 0/U file

```
FoamFile
{
  version      2.0;
  format       ascii;
  class        volVectorField;
  object       U;
}
// *****

dimensions    [0 1 -1 0 0 0];
internalField uniform (0 0 0);

boundaryField
{
  inlet
  {
    type      fixedValue;
    value     uniform (10 0 0);
  }
  outlet
  {
    type      zeroGradient;
  }
  upperWall
  {
    type      fixedValue;
    value     uniform (0 0 0);
  }
  lowerWall
  {
    type      fixedValue;
    value     uniform (0 0 0);
  }
  frontAndBack
  {
    type      empty;
  }
}
}
```



```
FoamFile 'Time': 0/k file
{
  version      2.0;
  format       ascii;
  class        volScalarField;
  object       k;
}
// *****

dimensions     [0 2 -2 0 0 0 0];

internalField  uniform 0.375;

boundaryField
{
  inlet
  {
    type        fixedValue;
    value       uniform 0.375;
  }

  outlet
  {
    type        zeroGradient;
  }

  upperWall
  {
    type        zeroGradient;
  }

  lowerWall
  {
    type        zeroGradient;
  }

  frontAndBack
  {
    type        empty;
  }
}
```

File Edit Session Insert Tools Help

Outline Boundary: Inlet

Details of Inlet in Domain_Pipe in Flow Analysis 1

Basic Settings Boundary Details Sources Plot Options

Flow Regime

Option Subsonic

Mass And Momentum

Option Normal Speed

Normal Speed 5 [m s⁻¹]

Turbulence

Option k and Epsilon

Turb. Kinetic Energy 0.05 [m² s⁻²]

Turb. Eddy Dissipation 0.10 [m² s⁻³]

Implies that it is a 2D case with at least 1 layer of thickness and symmetry boundary conditions on front and back faces


```

FoamFile      'Time': 0/k file
{
  version     2.0;
  format      ascii;
  class       volScalarField;
  object      k;
}
// *****

dimensions    [0 2 -2 0 0 0 0];

internalField uniform 0.375;

boundaryField
{
  inlet
  {
    type      fixedValue;
    value     uniform 0.375;
  }

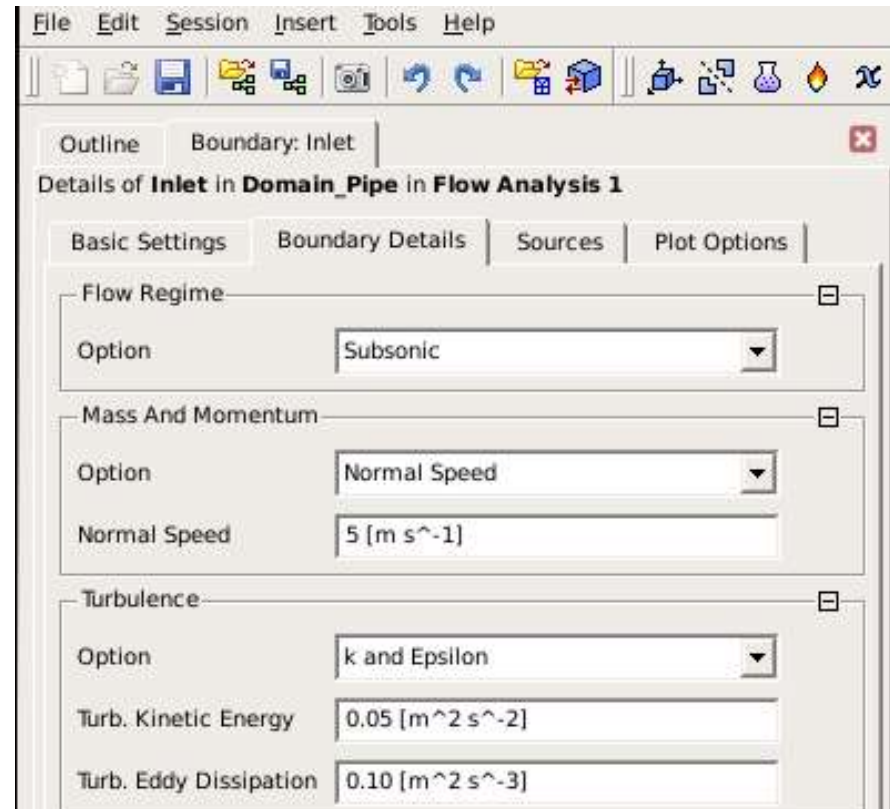
  outlet
  {
    type      zeroGradient;
  }

  upperWall
  {
    type      zeroGradient;
  }

  lowerWall
  {
    type      zeroGradient;
  }

  frontAndBack
  {
    type      empty;
  }
}

```



Default setting in CFX and Fluent: Excerpts from Fluent User Manual:

In the k - ϵ models and in the RSM (if the option to obtain wall boundary conditions from the k equation is enabled), the k equation is solved in the whole domain including the wall-adjacent cells. The boundary condition for k imposed at the wall is $\frac{\partial k}{\partial n} = 0$

where n is the local coordinate normal to the wall.



```
FoamFile 'Time': 0/k file
{
  version      2.0;
  format       ascii;
  class        volScalarField;
  object       k;
}
// *****

dimensions    [0 2 -2 0 0 0 0];

internalField uniform 0.375;

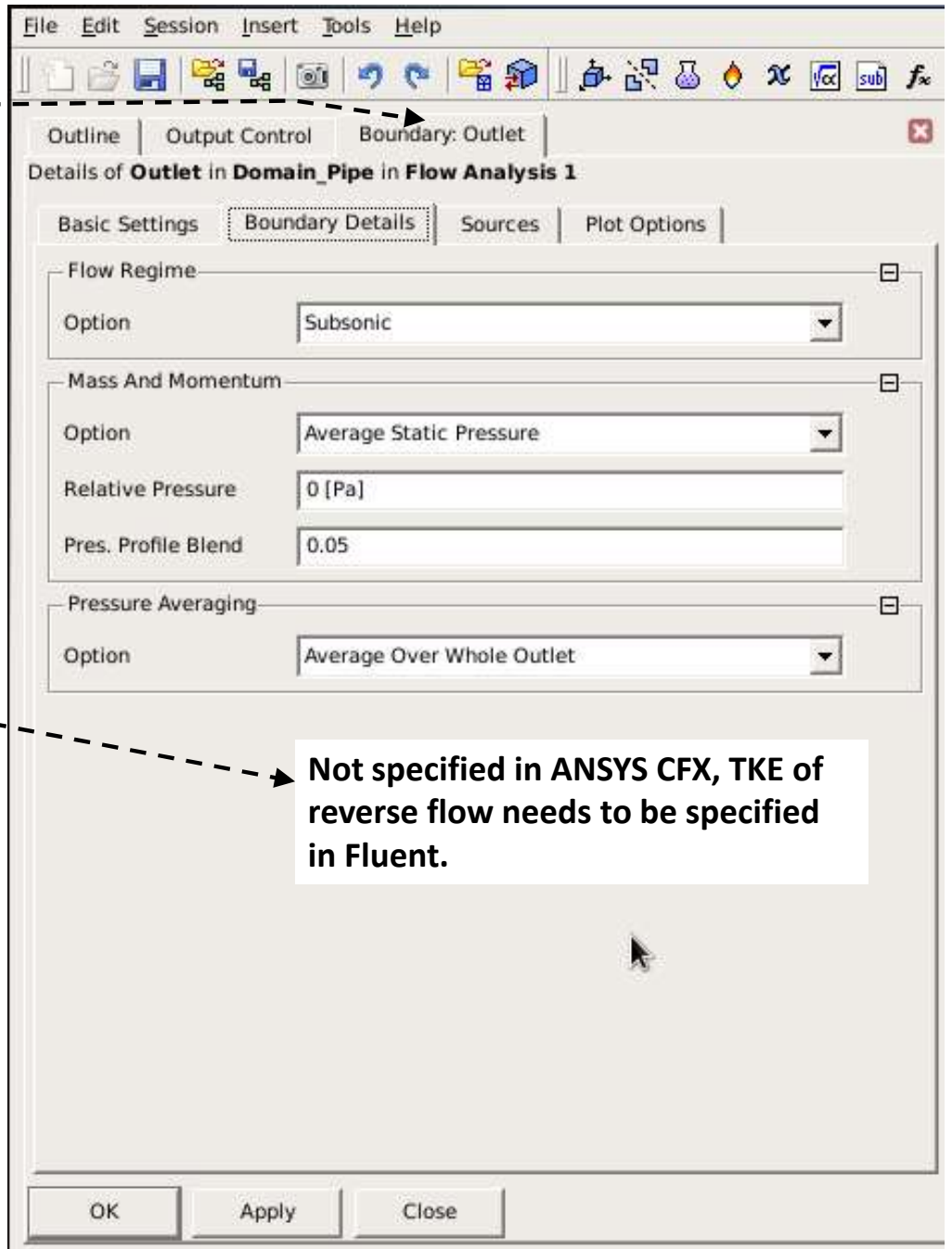
boundaryField
{
  inlet
  {
    type        fixedValue;
    value       uniform 0.375;
  }

  outlet
  {
    type        zeroGradient;
  }

  upperWall
  {
    type        zeroGradient;
  }

  lowerWall
  {
    type        zeroGradient;
  }

  frontAndBack
  {
    type        empty;
  }
}
```



'Time': 0/epsilon file

```
FoamFile
{
  version      2.0;
  format       ascii;
  class        volScalarField;
  object       epsilon;
}
// * * * * *

dimensions     [0 2 -3 0 0 0 0];

internalField  uniform 14.855;

boundaryField
{
  inlet
  {
    type        fixedValue;
    value       uniform 14.855;
  }
  outlet
  {
    type        zeroGradient;
  }
  upperWall
  {
    type        zeroGradient;
  }
  lowerWall
  {
    type        zeroGradient;
  }
  frontAndBack
  {
    type        empty;
  }
}
```

File Edit Session Insert Tools Help

Outline Boundary: Inlet

Details of Inlet in Domain_Pipe in Flow Analysis 1

Basic Settings Boundary Details Sources Plot Options

Flow Regime

Option Subsonic

Mass And Momentum

Option Normal Speed

Normal Speed 5 [m s⁻¹]

Turbulence

Option k and Epsilon

Turb. Kinetic Energy 0.05 [m² s⁻²]

Turb. Eddy Dissipation 0.10 [m² s⁻³]

OK Apply Close

Implies that it is a 2D case with at least 1 layer of thickness and symmetry boundary conditions on front and back faces

'Time': 0/epsilon file

```
FoamFile
{
  version      2.0;
  format       ascii;
  class        volScalarField;
  object       epsilon;
}
// *****

dimensions     [0 2 -3 0 0 0 0];

internalField  uniform 14.855;

boundaryField
{
  inlet
  {
    type        fixedValue;
    value       uniform 14.855;
  }
  outlet
  {
    type        zeroGradient;
  }
  upperWall
  {
    type        zeroGradient;
  }
  lowerWall
  {
    type        zeroGradient;
  }
  frontAndBack
  {
    type        empty;
  }
}
```

File Edit Session Insert Tools Help

Outline | Output Control | Boundary: Outlet

Details of **Outlet** in **Domain_Pipe** in **Flow Analysis 1**

Basic Settings | **Boundary Details** | Sources | Plot Options

Flow Regime

Option: Subsonic

Mass And Momentum

Option: Average Static Pressure

Relative Pressure: 0 [Pa]

Pres. Profile Blend: 0.05

Pressure Averaging

Option: Average Over Whole Outlet

OK Apply Close

Not specified in ANSYS CFX, TED of reverse flow needs to be specified in Fluent.

'Time': 0/epsilon file

```
FoamFile
{
  version      2.0;
  format       ascii;
  class        volScalarField;
  object       epsilon;
}
// * * * * *

dimensions     [0 2 -3 0 0 0 0];

internalField  uniform 14.855;

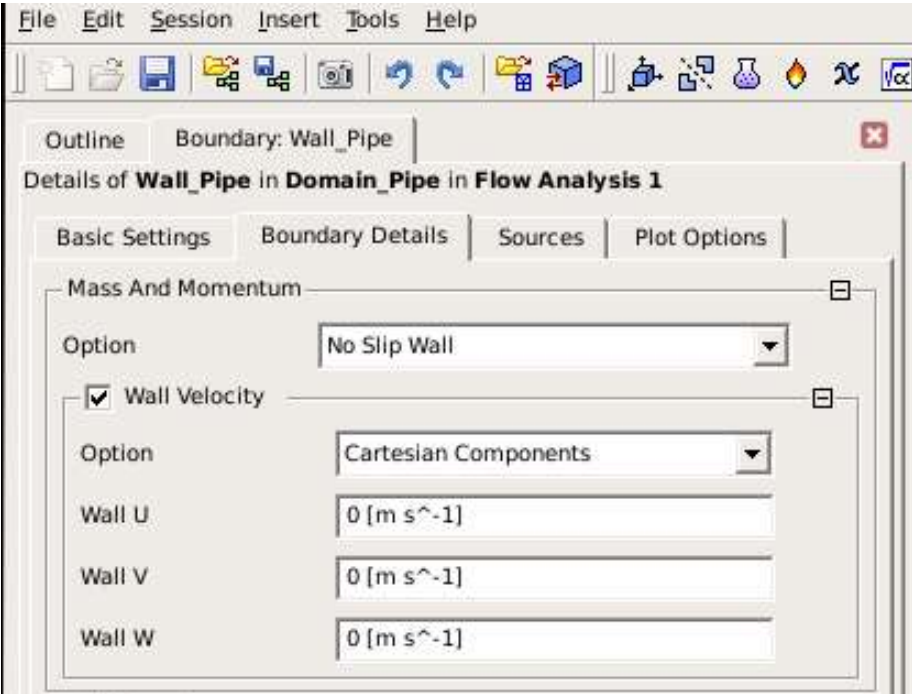
boundaryField
{
  inlet
  {
    type        fixedValue;
    value       uniform 14.855;
  }

  outlet
  {
    type        zeroGradient;
  }

  upperWall
  {
    type        zeroGradient;
  }

  lowerWall
  {
    type        zeroGradient;
  }

  frontAndBack
  {
    type        empty;
  }
}
```



Default setting in CFX and Fluent: Excerpts from Fluent User Manual:

The ϵ equation is not solved at the wall-adjacent cells, but instead is computed using

$$\epsilon_p = \frac{C_\mu^{3/4} k_p^{3/2}}{\kappa y_p}$$

Note that, as shown here, the wall boundary conditions for the solution variables, including mean velocity, temperature, species concentration, k , and ϵ , are all taken care of by the wall functions. Therefore, you do not need to be concerned about the boundary conditions at the walls.



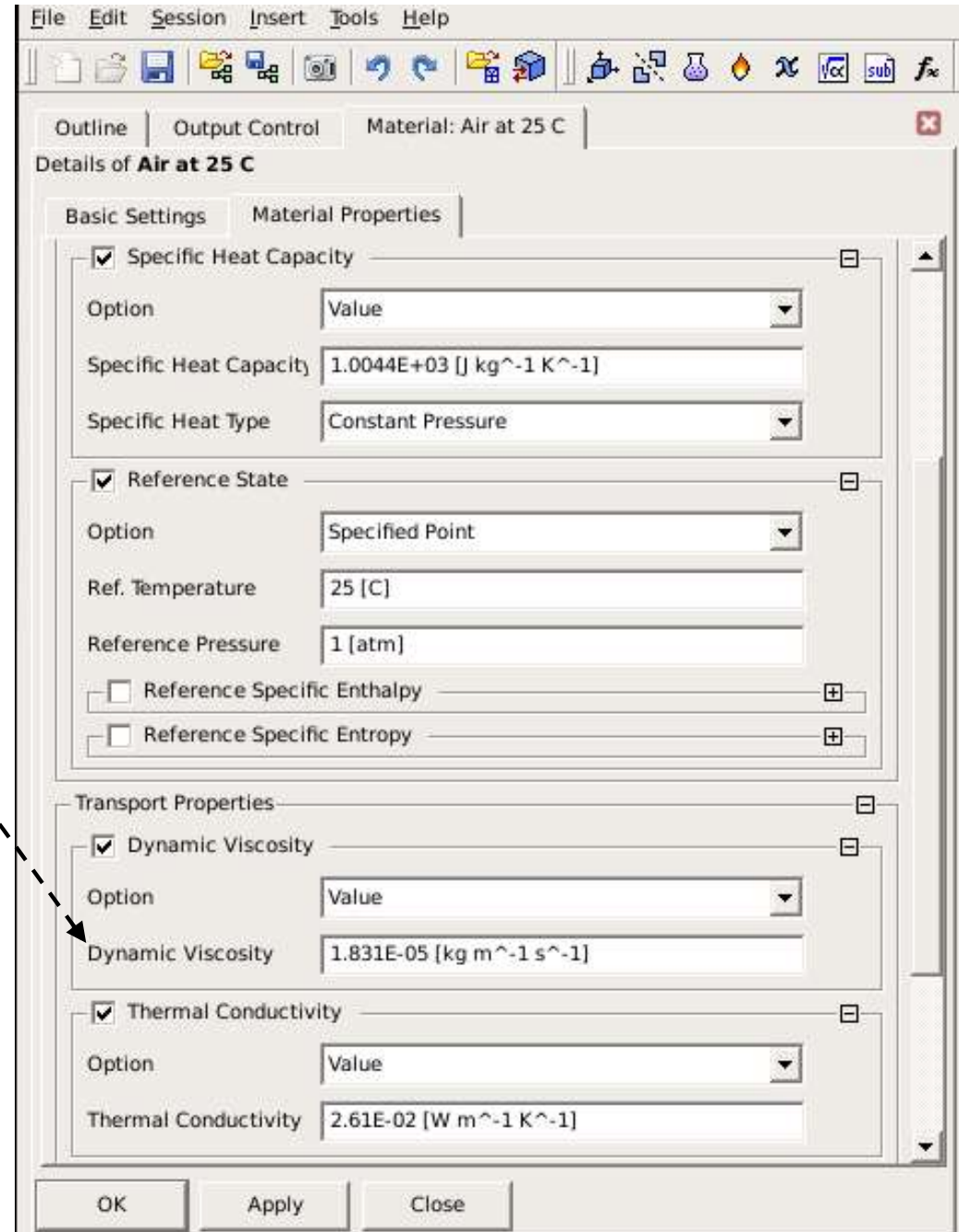
Constant/transportProperties file

```
FoamFile
{
  version      2.0;
  format       ascii;
  class        dictionary;
  object        transportProperties;
}
// *****

transportModel  Newtonian;

[ nu                nu [0 2 -1 0 0 0 0] 1e-05; ]
CrossPowerLawCoeffs
{
  nu0                nu0 [0 2 -1 0 0 0 0] 1e-06;
  nuInf              nuInf [0 2 -1 0 0 0 0] 1e-06;
  m                  m [0 0 1 0 0 0 0] 1;
  n                  n [0 0 0 0 0 0 0] 1;
}

BirdCarreauCoeffs
{
  nu0                nu0 [0 2 -1 0 0 0 0] 1e-06;
  nuInf              nuInf [0 2 -1 0 0 0 0] 1e-06;
  k                  k [0 0 1 0 0 0 0] 0;
  n                  n [0 0 0 0 0 0 0] 1;
}
```



FoamFile **system/fvScheme file**

```
{
  version      2.0;
  format       ascii;
  class        dictionary;
  object       fvSchemes;
}
// *****
```

ddtSchemes **First and second time derivatives $\partial/\partial t, \partial^2/\partial t^2$**

```
{
  default steadyState;
}
```

gradSchemes **Sub-dictionary of 'fvScheme': Gradient ∇**

```
{
  default      Gauss linear;
  grad(p)      Gauss linear;
  grad(U)      Gauss linear;
}
```

Gauss <interpolationScheme>

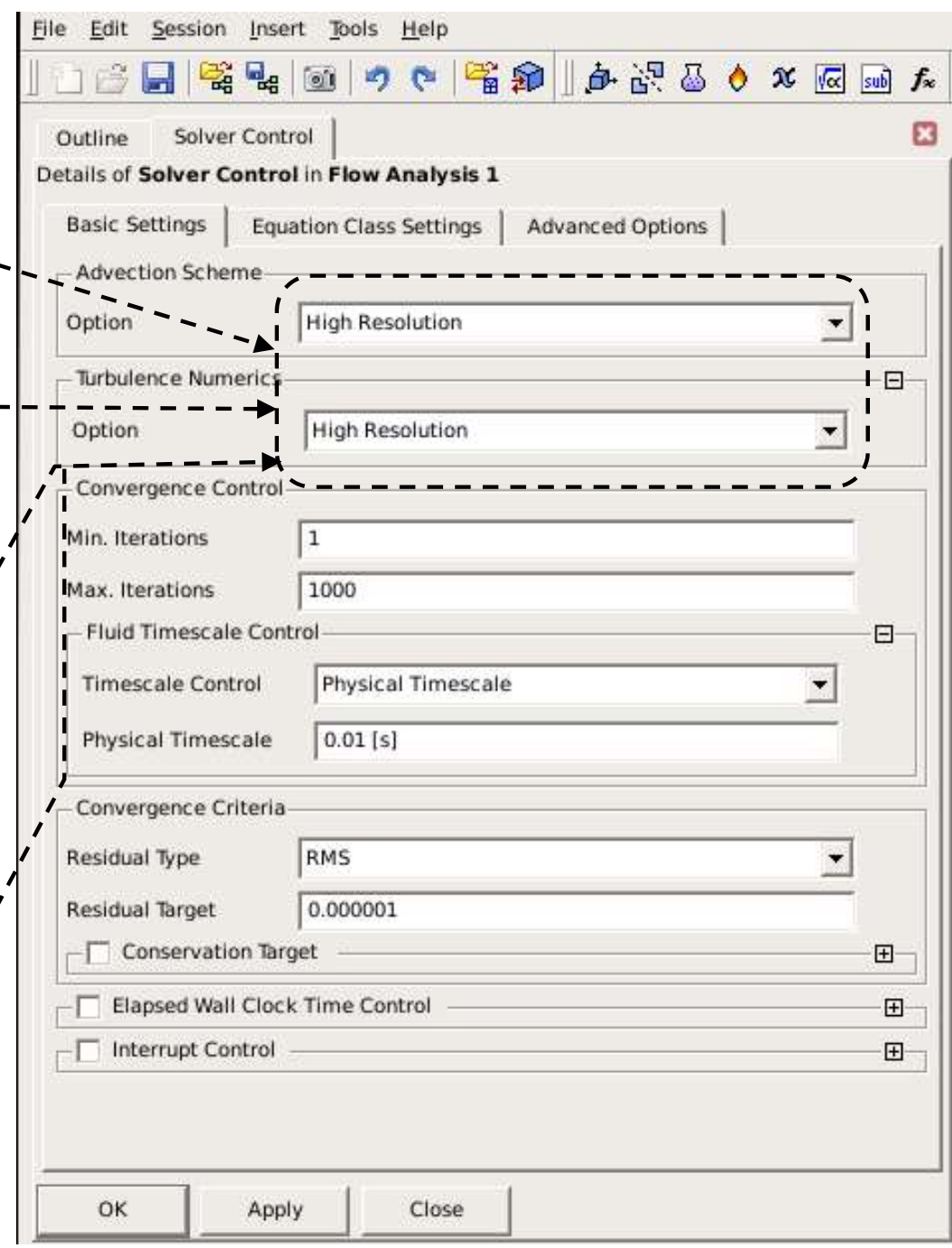
divSchemes **Divergence operator: $\nabla \bullet$**

```
{
  default      none;
  div(phi,U)   Gauss upwind;
  div(phi,k)   Gauss upwind;
  div(phi,epsilon) Gauss upwind;
  div(phi,R)   Gauss upwind;
  div(R)       Gauss linear;
  div(phi,nuTilda) Gauss upwind;
  div((nuEff*dev(grad(U).T()))) Gauss linear;
}
```

Gauss <interpolationScheme>

laplacianSchemes **Laplacian operator: $\nabla^2 \phi$**

```
{
  default      none;
  laplacian(nuEff,U) Gauss linear corrected;
  laplacian((1|A(U)),p) Gauss linear corrected;
  laplacian(DkEff,k) Gauss linear corrected;
  laplacian(DepsilonEff,epsilon) Gauss linear corrected;
  laplacian(DREff,R) Gauss linear corrected;
  laplacian(DnuTildaEff,nuTilda) Gauss linear corrected;
}
```



system/fvScheme file

```
interpolationSchemes {
  default linear;
  interpolate(U) linear;
}

snGradSchemes {
  default corrected;
}

fluxRequired {
  default no;
  p;
}
```

The interpolationSchemes sub-dictionary contains terms that are interpolations of values typically from cell centers to face centers.

Component of gradient normal to a cell face: surface normal gradient terms

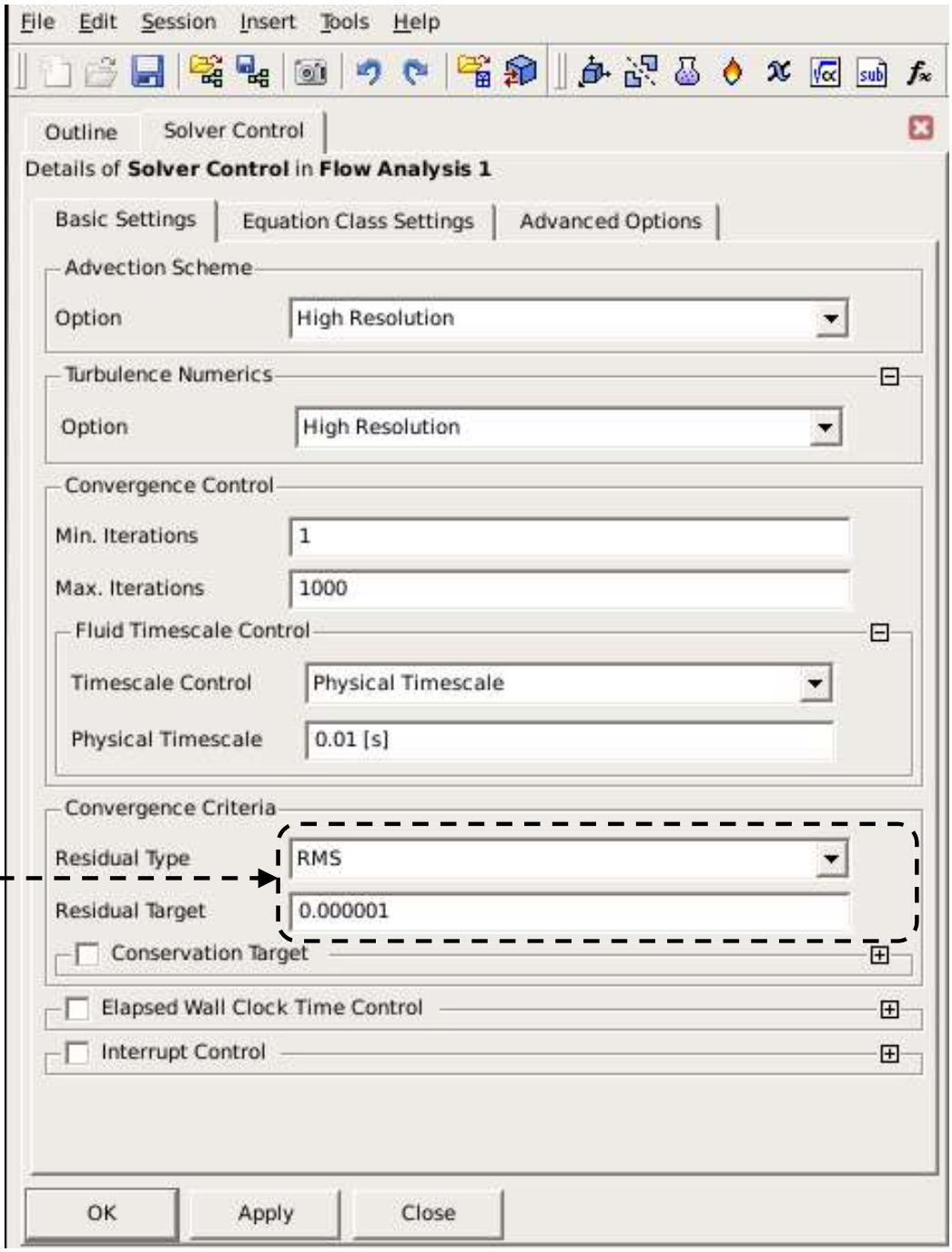
Explicit non-orthogonal correction

Fields which require the generation of a flux

system/fvSolution file

```
FoamFile
{
  version      2.0;
  format       ascii;
  class        dictionary;
  object       fvSolution;
}
// *****
```

```
solvers
{
  p PCG
  {
    preconditioner  DIC;           Diagonal Incomplete -
    tolerance        1e-06;       Cholesky (symmetric)
    relTol           0.01;
  };
  U PBiCG           Preconditioned (bi-) conjugate gradient
  {
    preconditioner  DILU;
    tolerance        1e-05;
    relTol           0.1;
  };
  k PBiCG
  {
    preconditioner  DILU;
    tolerance        1e-05;
    relTol           0.1;
  };
  epsilon PBiCG
  {
    preconditioner  DILU;           Diagonal Incomplete
    tolerance        1e-05;       -LU (asymmetric)
    relTol           0.1;
  };
};
```



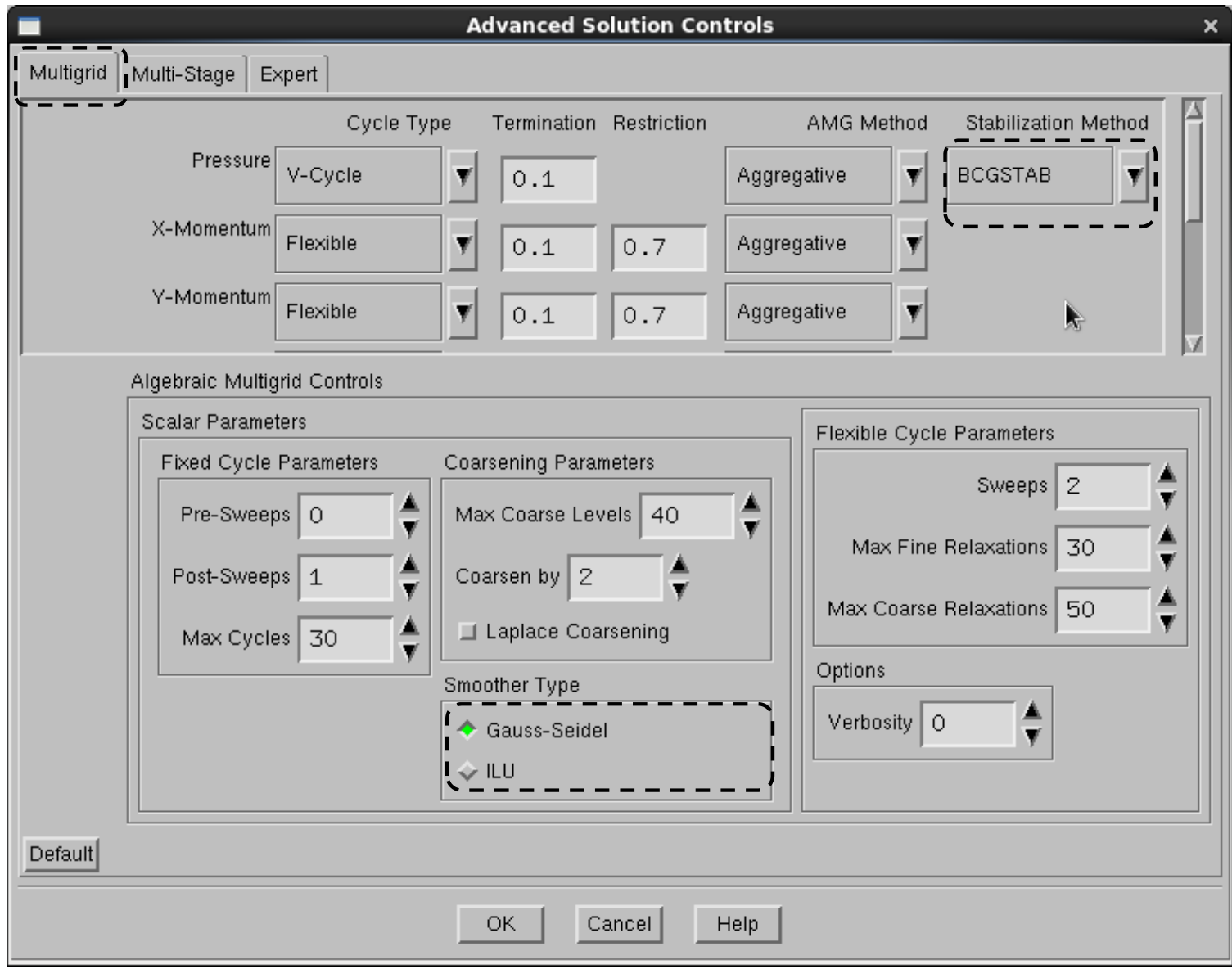
system/fvSolution file

```

FoamFile
{
  version      2.0;
  format       ascii;
  class        dictionary;
  object       fvSolution;
}
// *****

solvers
{
  p PCG
  {
    preconditioner  DIC;
    tolerance       1e-06;
    relTol          0.01;
  };
  U PBiCG
  {
    preconditioner  DILU;
    tolerance       1e-05;
    relTol          0.1;
  };
  k PBiCG
  {
    preconditioner  DILU;
    tolerance       1e-05;
    relTol          0.1;
  };
  epsilon PBiCG
  {
    preconditioner  DILU;
    tolerance       1e-05;
    relTol          0.1;
  };
}

```



system/fvSolution file

```
R PBiCG
{
    preconditioner    DILU;
    tolerance         1e-05;
    relTol            0.1;
};
nuTilda PBiCG
{
    preconditioner    DILU;
    tolerance         1e-05;
    relTol            0.1;
};
}

SIMPLE
{
    nNonOrthogonalCorrectors 0;
}

relaxationFactors
{
    p            0.3;
    U            0.7;
    k            0.7;
    epsilon      0.7;
    R            0.7;
    nuTilda      0.7;
}
}
```

Solution Controls

Under-Relaxation Factors

Pressure	0.3
Density	1
Body Forces	1
Momentum	0.7
Species	1

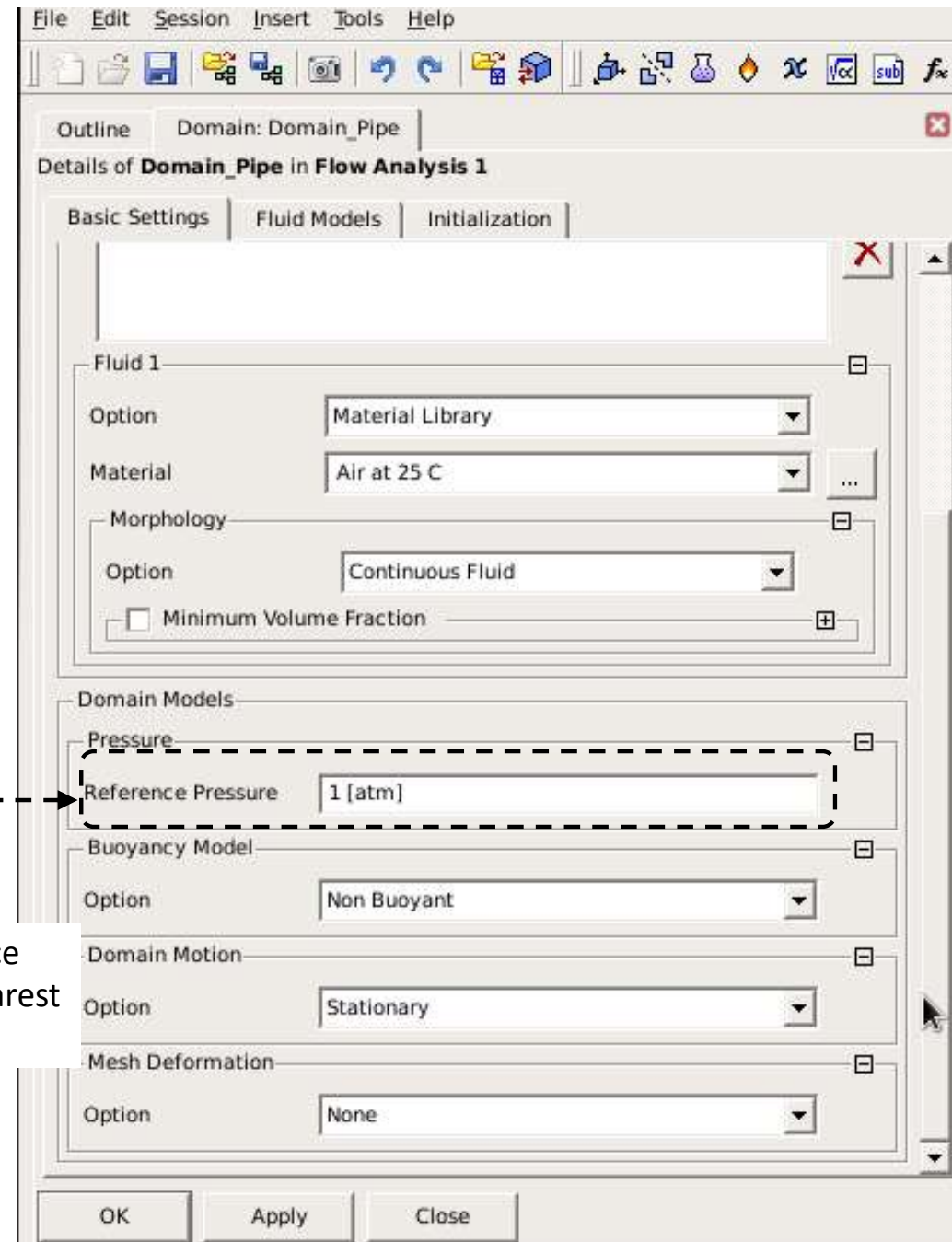
Default Equations... Limits... Advanced...

Set All Species URFs Together

Help

pRefValue
pRefCell

Fluent: Default location of reference pressure in Fluent is cell center nearest to origin (0, 0, 0)



```

FoamFile
{
  constant/ RASProperties file
  version      2.0;
  format       ascii;
  class        dictionary;
  object       RASProperties;
}
// * * * * *

RASModel      kEpsilon;

turbulence    on;

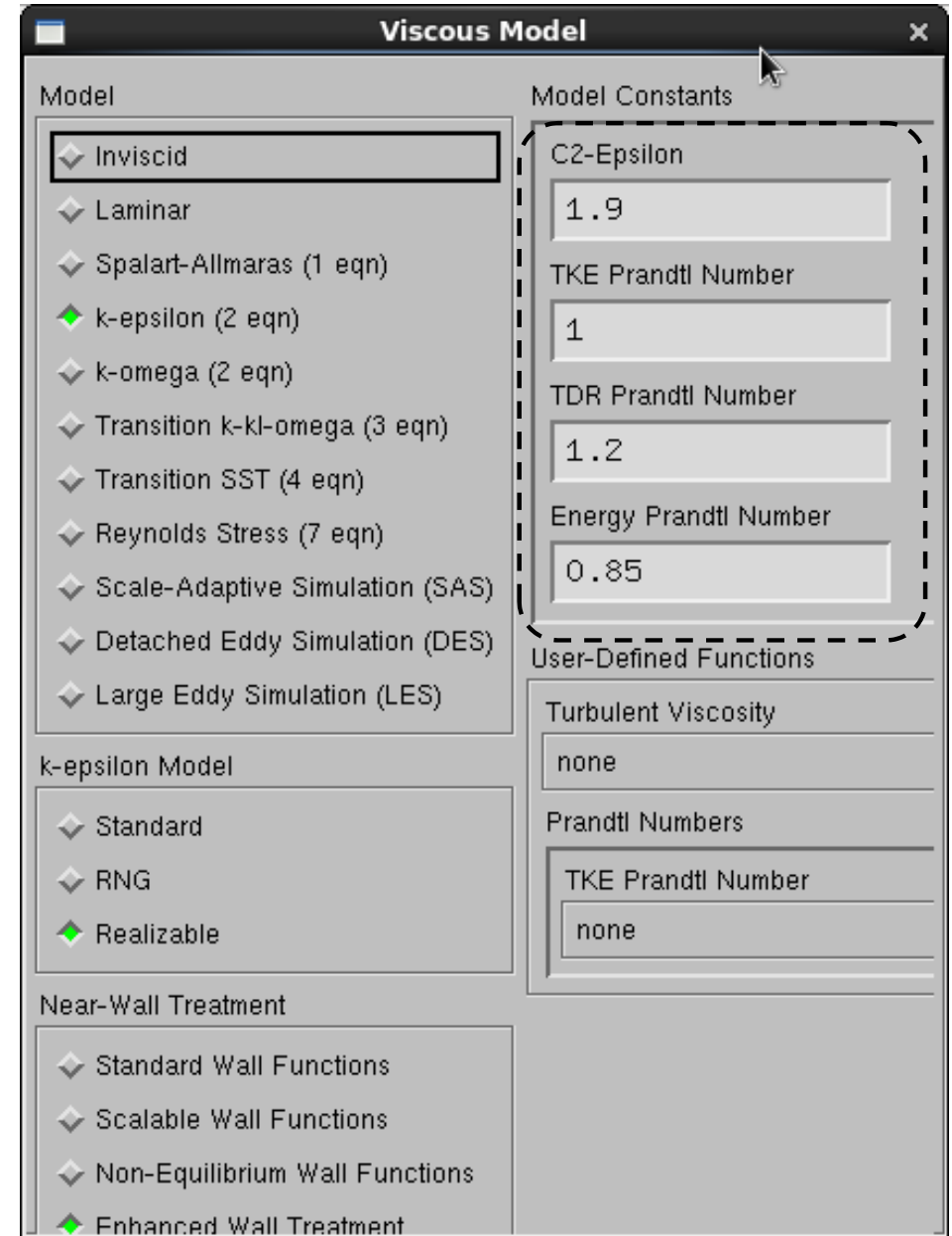
printCoeffs   on;

laminarCoeffs
{
}

kEpsilonCoeffs
{
  Cmu          0.09;
  C1           1.44;
  C2           1.92;
  alphaEps     0.76923;
}

RNGkEpsilonCoeffs
{
  Cmu          0.0845;
  C1           1.42;
  C2           1.68;
  alphak       1.39;
  alphaEps     1.39;
  eta0         4.38;
  beta         0.012;
}

```

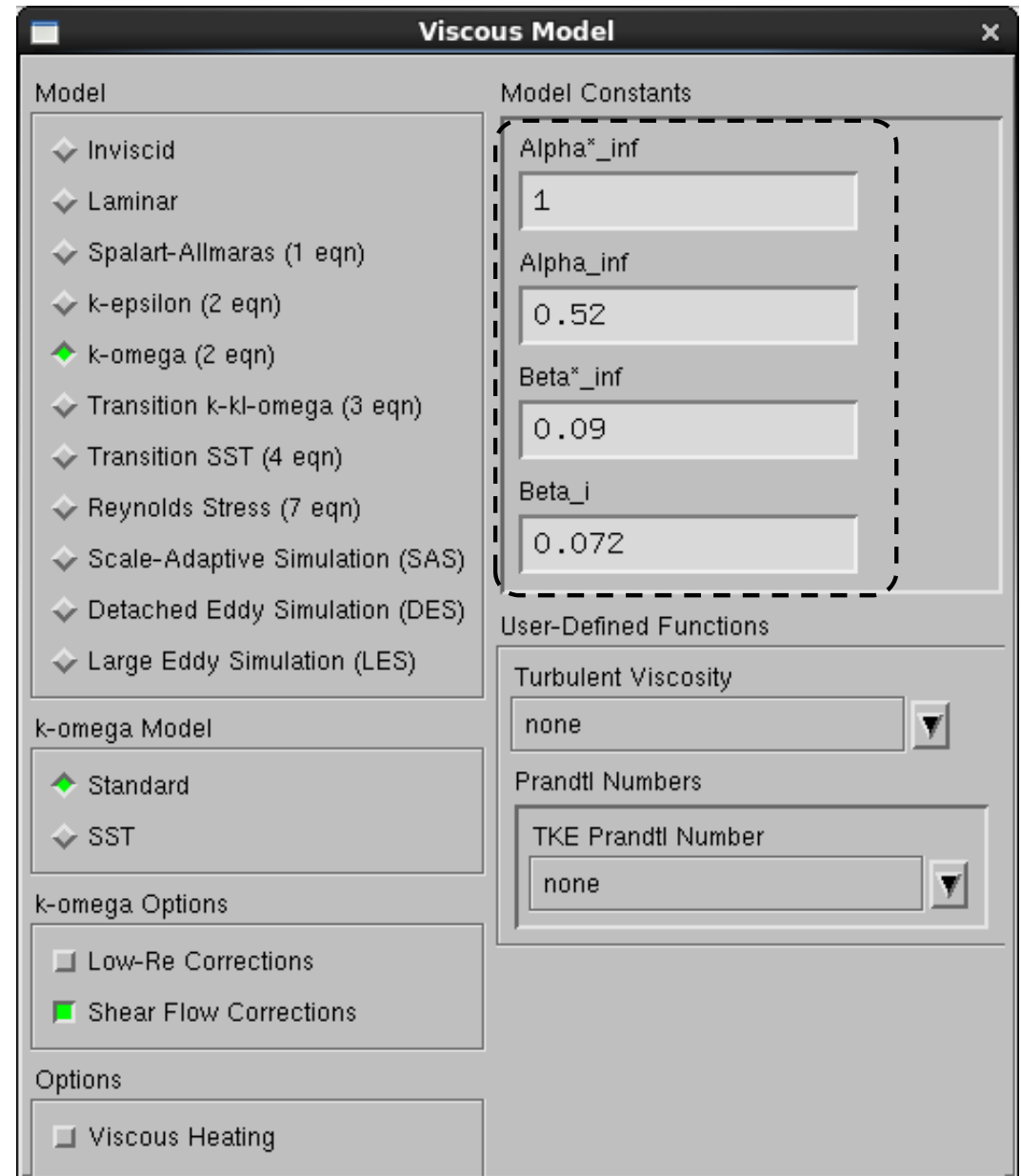


constant/ RASProperties file

```
realizableKECoeffs
{
    Cmu          0.09;
    A0           4.0;
    C2           1.9;
    alphak       1;
    alphaEps     0.833333;
}
```

```
kOmegaSSTCoeffs
{
    alphaK1      0.85034;
    alphaK2      1.0;
    alphaOmega1  0.5;
    alphaOmega2  0.85616;
    gamma1       0.5532;
    gamma2       0.4403;
    beta1        0.0750;
    beta2        0.0828;
    betaStar     0.09;
    a1           0.31;
    c1           10;

    Cmu          0.09;
}
```



Constant/RASProperties file

NonlinearKEShihCoeffs

```
{  
  Cmu          0.09;  
  C1           1.44;  
  C2           1.92;  
  alphak       1;  
  alphaEps     0.76932;  
  A1           1.25;  
  A2           1000;  
  Ctau1        -4;  
  Ctau2        13;  
  Ctau3        -2;  
  alphaKsi     0.9;  
}
```

LienCubicKECoeffs

```
{  
  C1           1.44;  
  C2           1.92;  
  alphak       1;  
  alphaEps     0.76923;  
  A1           1.25;  
  A2           1000;  
  Ctau1        -4;  
  Ctau2        13;  
  Ctau3        -2;  
  alphaKsi     0.9;  
}
```

constant/ RASProperties file

QZetaCoeffs

```
{  
    Cmu          0.09;  
    C1           1.44;  
    C2           1.92;  
    alphaZeta   0.76923;  
    anisotropic no;  
}
```

LaunderSharmaKECoeffs

```
{  
    Cmu          0.09;  
    C1           1.44;  
    C2           1.92;  
    alphaEps    0.76923;  
}
```

LamBremhorstKECoeffs

```
{  
    Cmu          0.09;  
    C1           1.44;  
    C2           1.92;  
    alphaEps    0.76923;  
}
```


constant/ RASProperties file

LienCubicKELowReCoeffs

```
{  
  Cmu          0.09;  
  C1           1.44;  
  C2           1.92;  
  alphak       1;  
  alphaEps     0.76923;  
  A1           1.25;  
  A2           1000;  
  Ctau1        -4;  
  Ctau2        13;  
  Ctau3        -2;  
  alphaKsi     0.9;  
  Am           0.016;  
  Aepsilon     0.263;  
  Amu          0.00222;  
}
```

LienLeschzinerLowReCoeffs

```
{  
  Cmu          0.09;  
  C1           1.44;  
  C2           1.92;  
  alphak       1;  
  alphaEps     0.76923;  
  Am           0.016;  
  Aepsilon     0.263;  
  Amu          0.00222;  
}
```

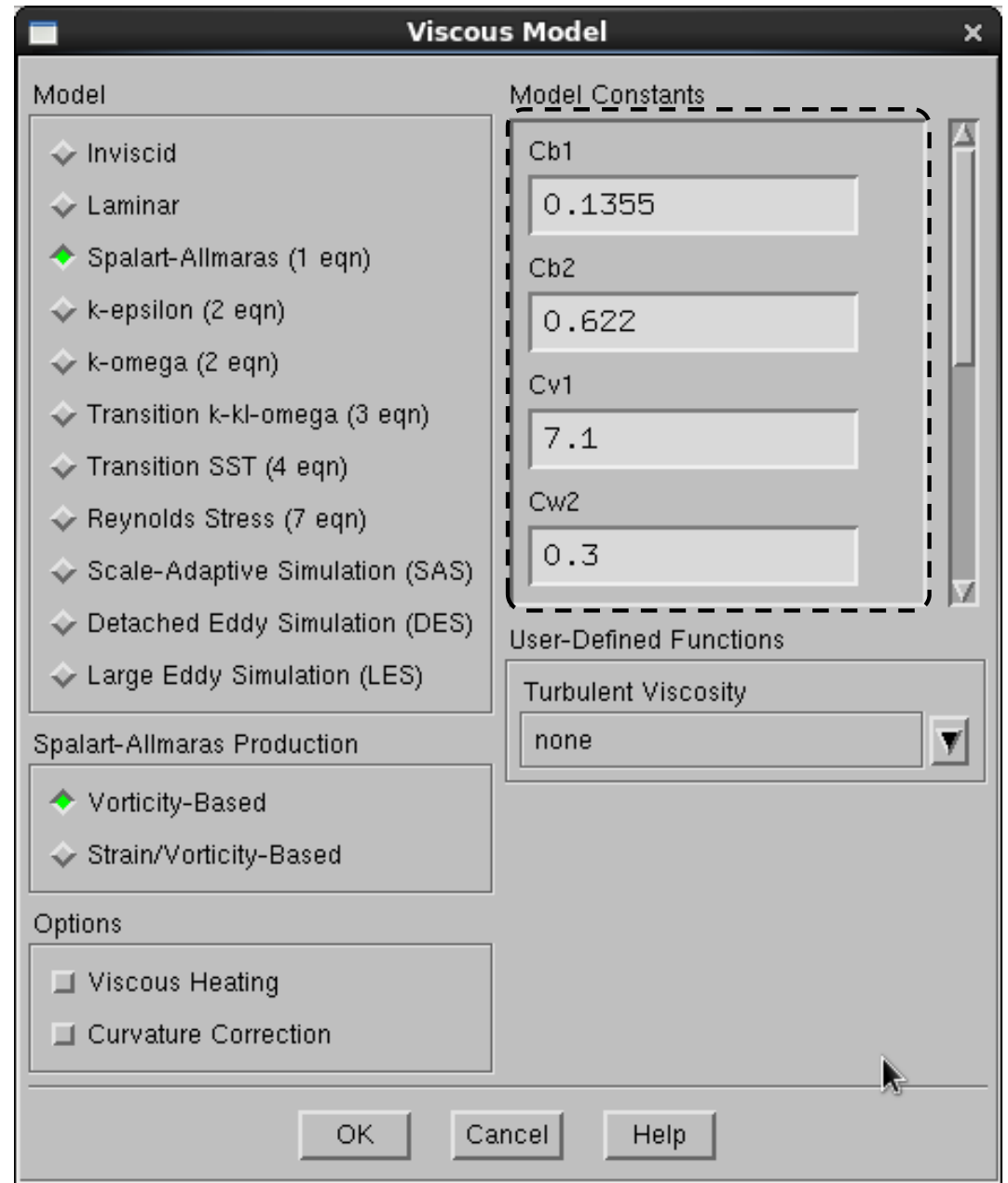
constant/ RASProperties file

```
LRRCoeffs
{
  Cmu          0.09;
  Clrr1        1.8;
  Clrr2        0.6;
  C1           1.44;
  C2           1.92;
  Cs           0.25;
  Ceps         0.15;
  alphaEps     0.76923;
}
```

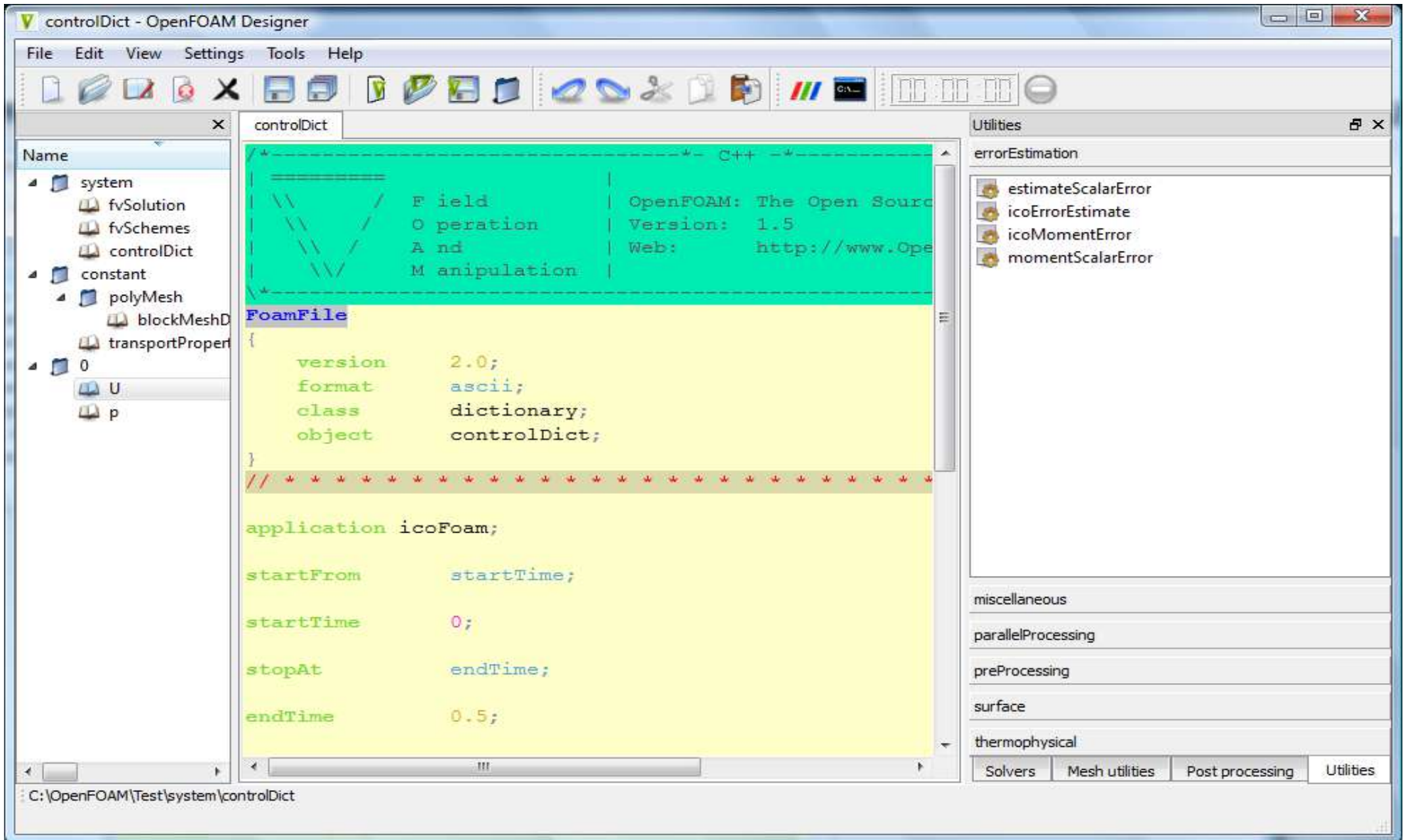
```
LaunderGibsonRSTMCoeffs
{
  Cmu          0.09;
  Clg1         1.8;
  Clg2         0.6;
  C1           1.44;
  C2           1.92;
  C1Ref        0.5;
  C2Ref        0.3;
  Cs           0.25;
  Ceps         0.15;
  alphaEps     0.76923;
  alphaR       1.22;
}
```

```
SpalartAllmarasCoeffs
{
  alphaNut     1.5;
  cb1          0.1355;
  cb2          0.622;
  Cw2          0.3;
  Cw3          2;
  Cv1          7.1;
  Cv2          5.0;
}
```

```
wallFunctionCoeffs
{
  kappa        0.4187;
  E            9;
}
```



Running cavity template in
icoFoam OpenFOAM designer
version 1.0 on Windows Vista



```
----- C++ -----  
//      F i e l d      | OpenFOAM: The Open Source  
//      O p e r a t i o n | Version: 1.5  
//      A n d           | Web:      http://www.OpenFOAM.org  
//      M a n i p u l a t i o n
```

```
FoamFile  
{  
    version      2.0;  
    format       ascii;  
    class        dictionary;  
    object       controlDict;  
}  
// * * * * *  
  
application icoFoam;  
  
startFrom      startTime;  
  
startTime      0;  
  
stopAt         endTime;  
  
endTime        0.5;
```

Utilities

errorEstimation

- estimateScalarError
- icoErrorEstimate
- icoMomentError
- momentScalarError

miscellaneous

parallelProcessing

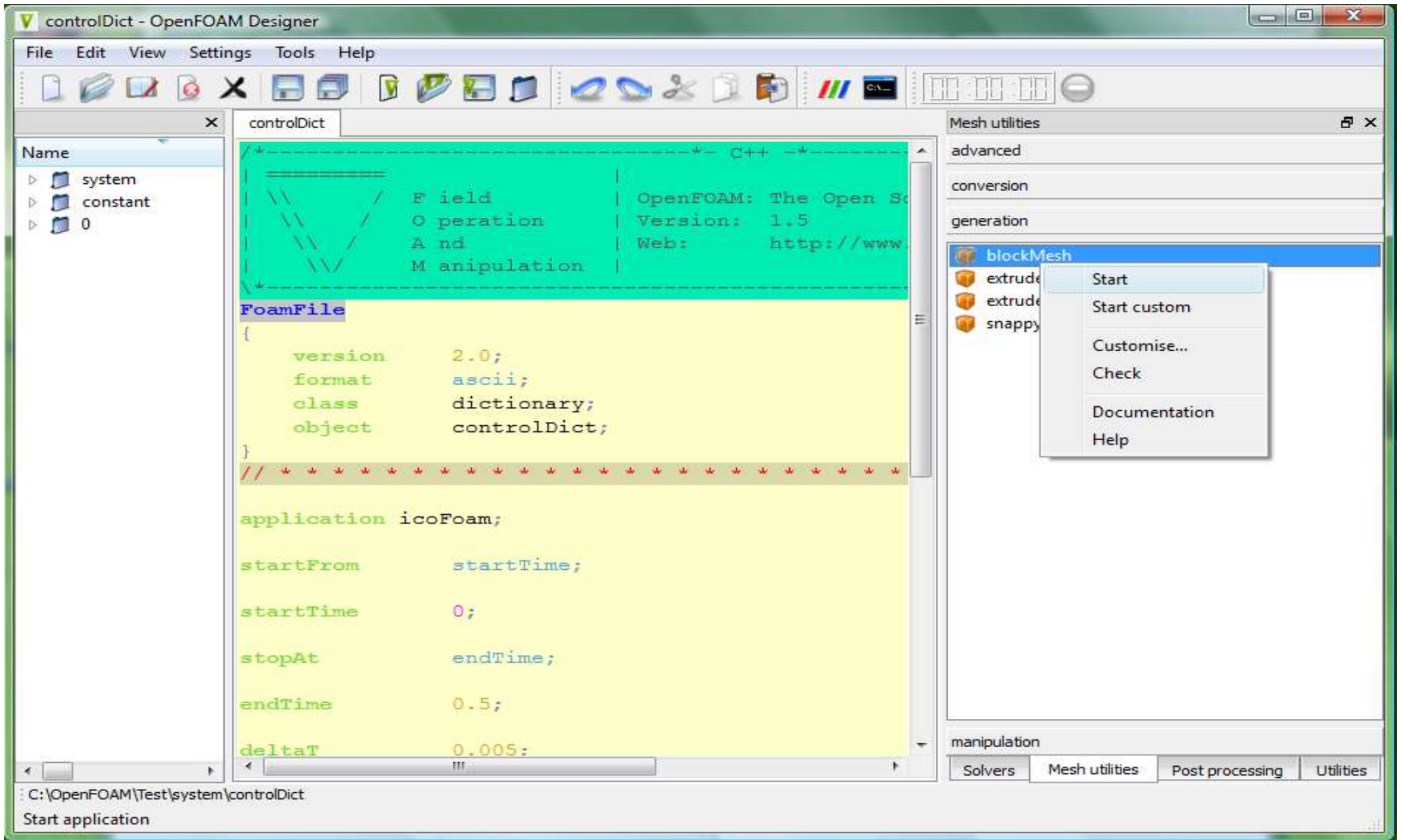
preProcessing

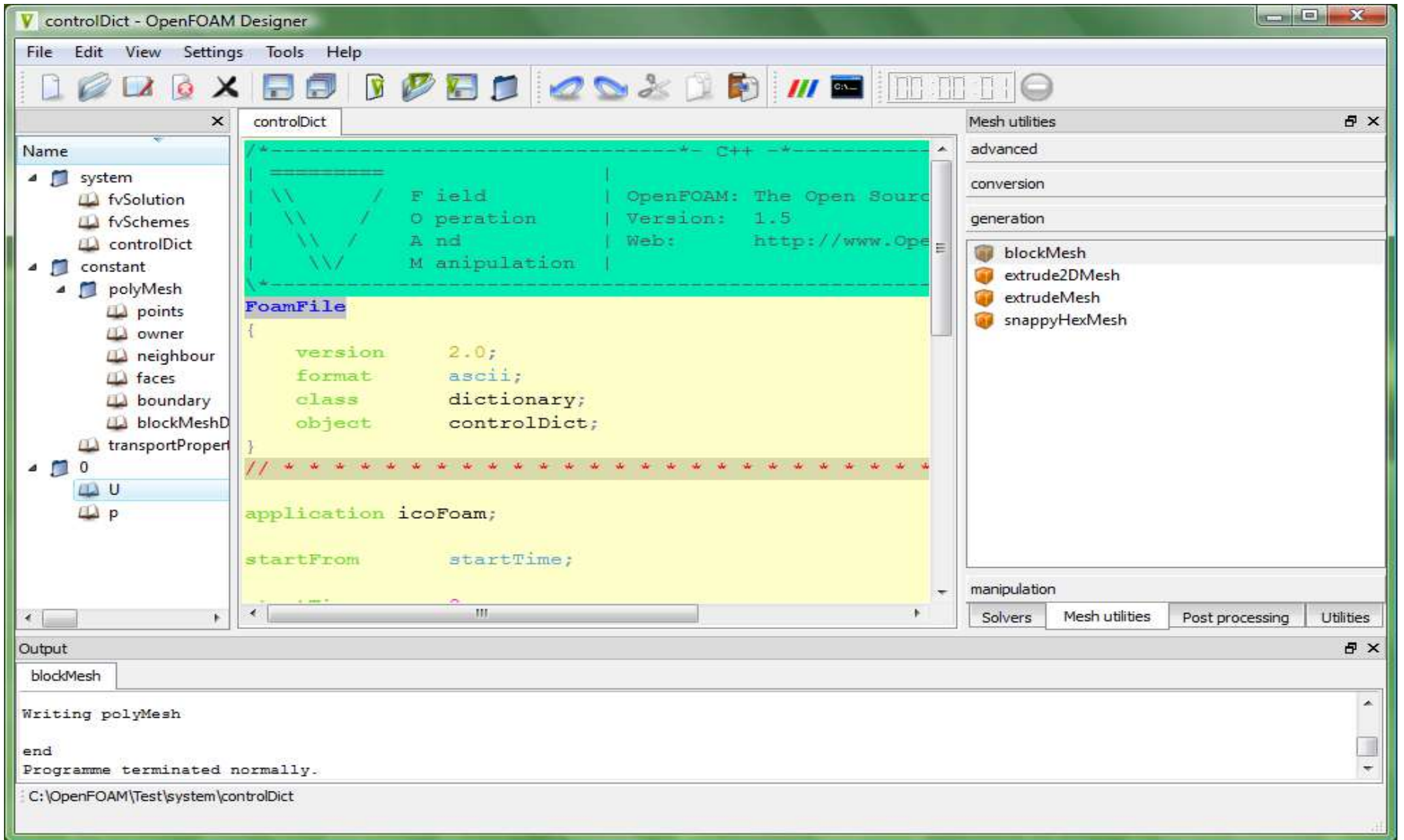
surface

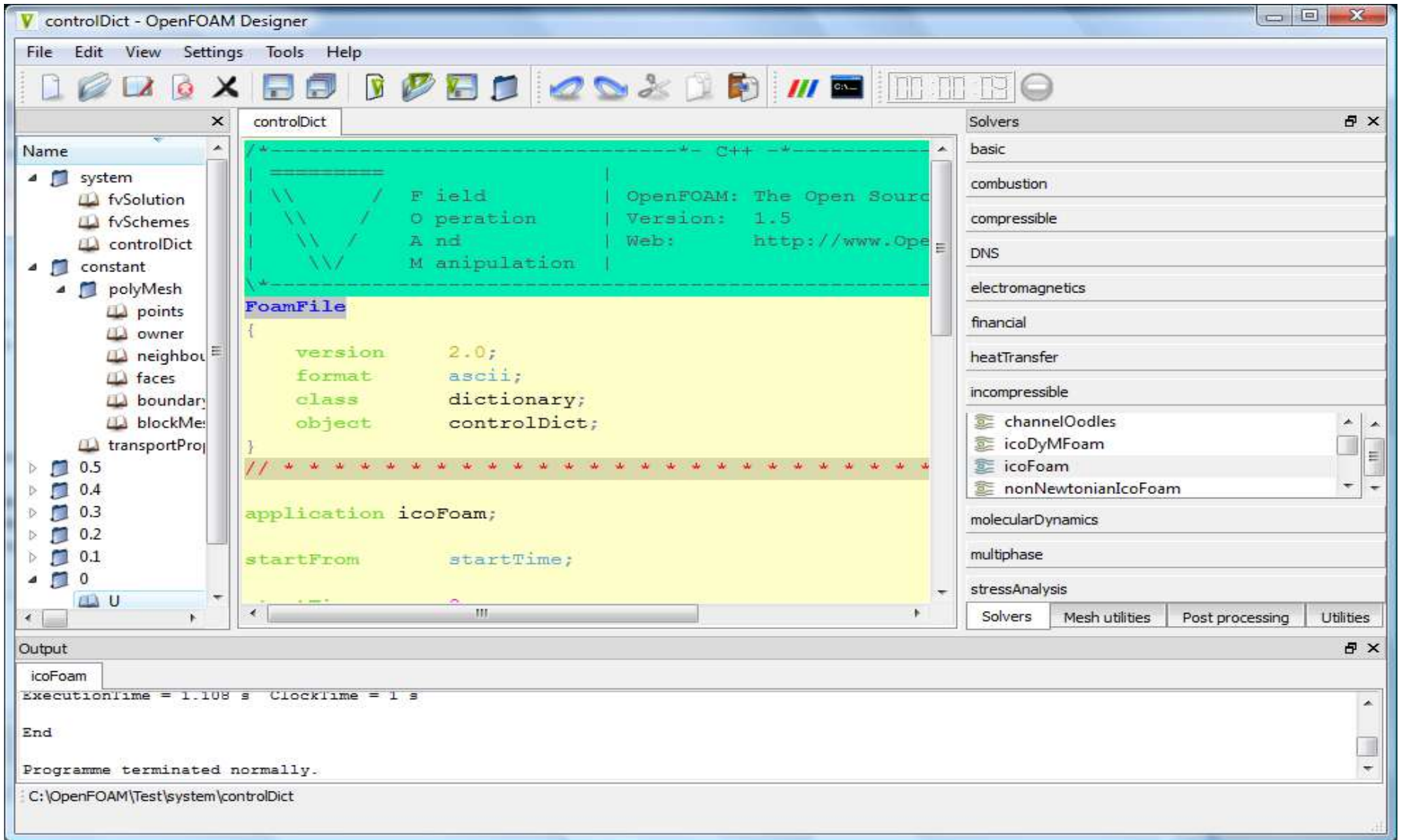
thermophysical

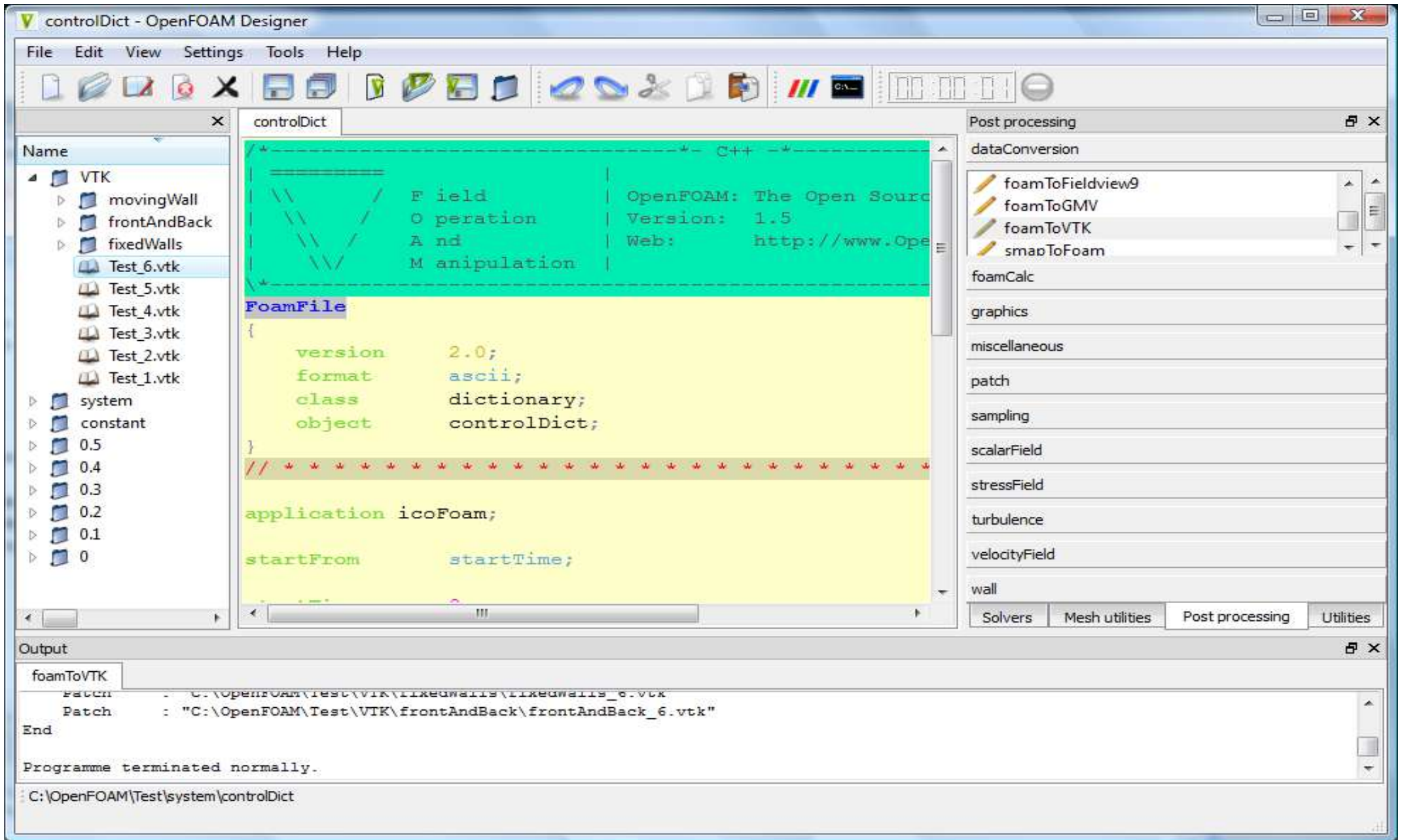
Solvers | Mesh utilities | Post processing | Utilities

C:\OpenFOAM\Test\system\controlDict

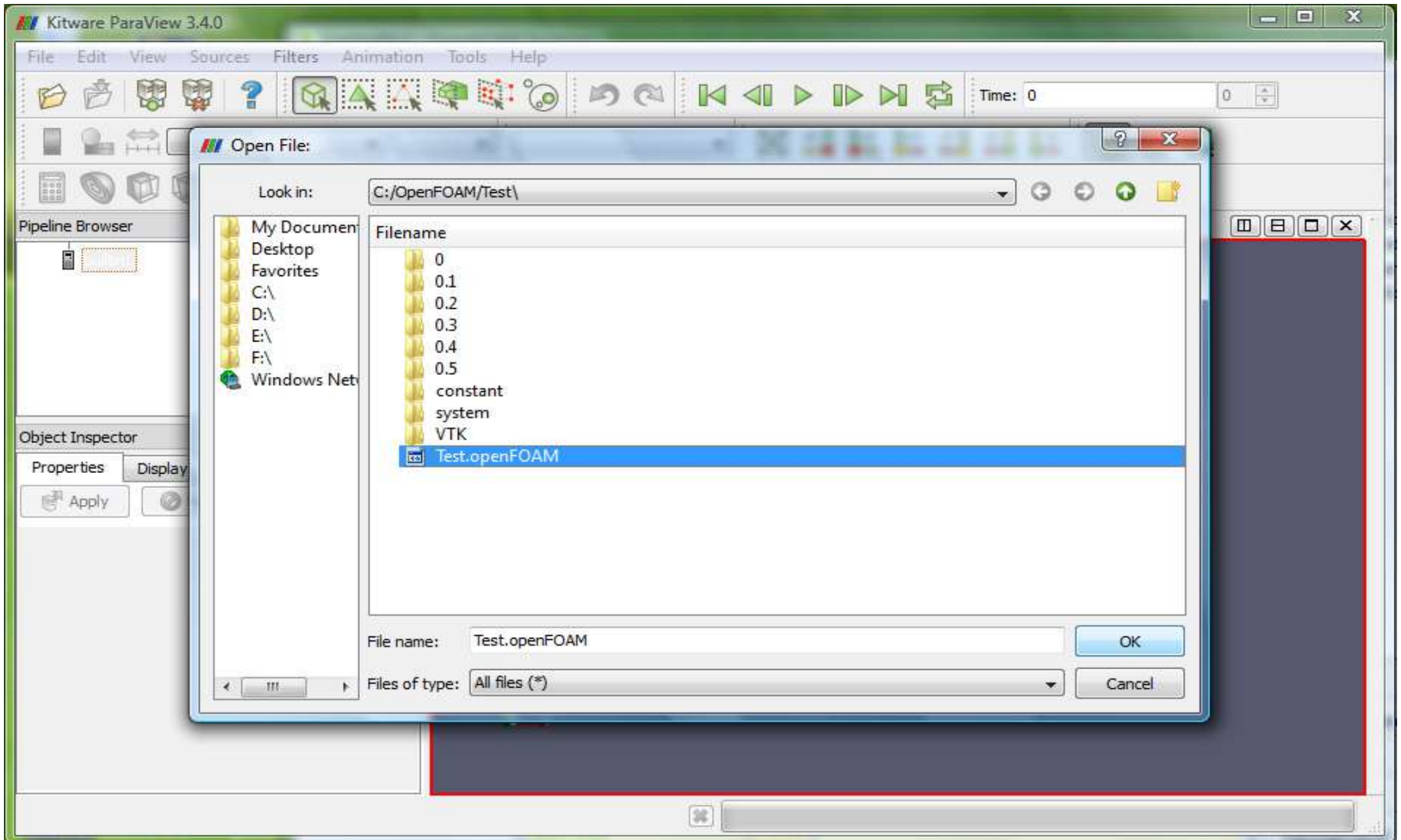


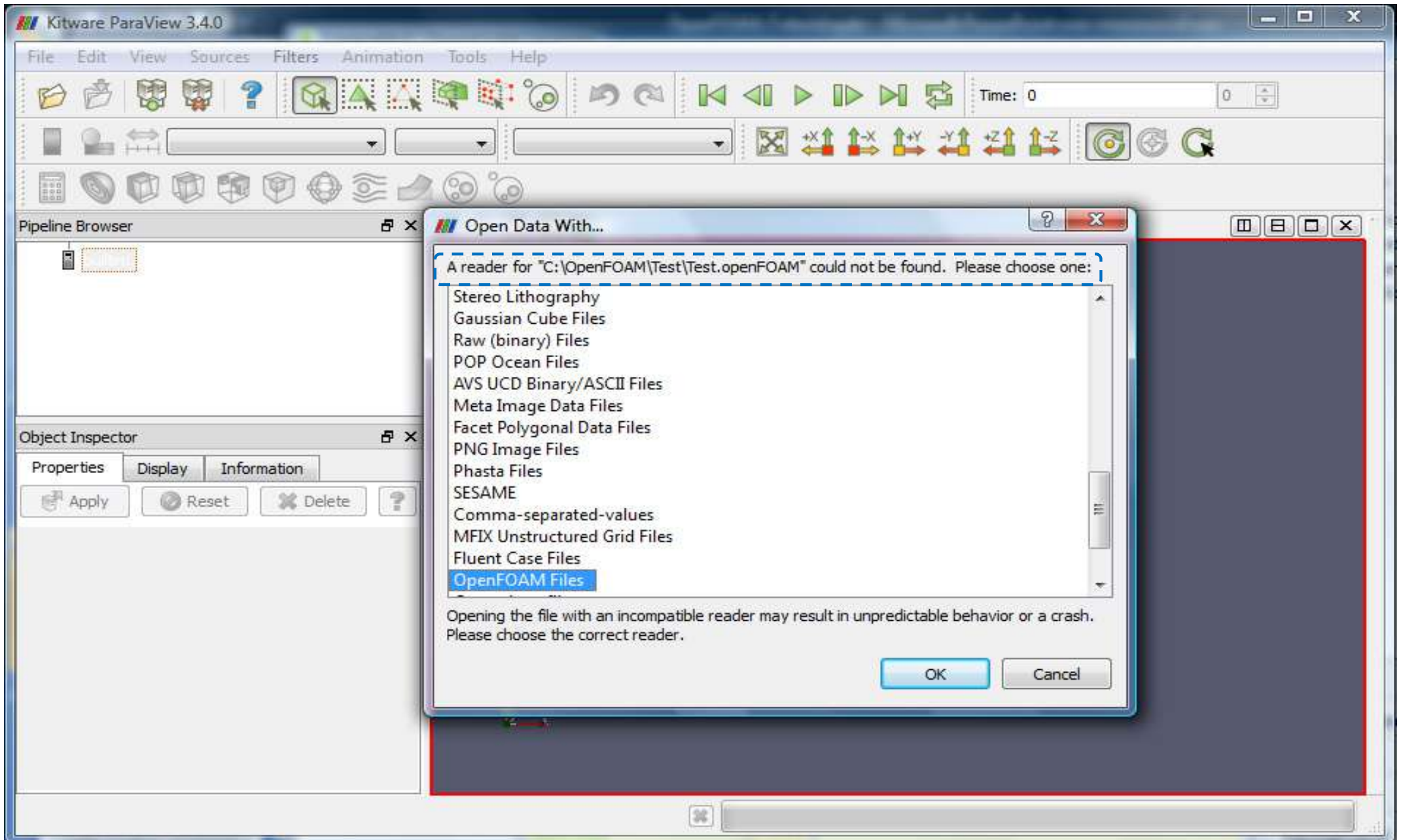






Post-processing in ParaView 3.4.0
available in OpenFOAM designer
version 1.0 in Windows Vista





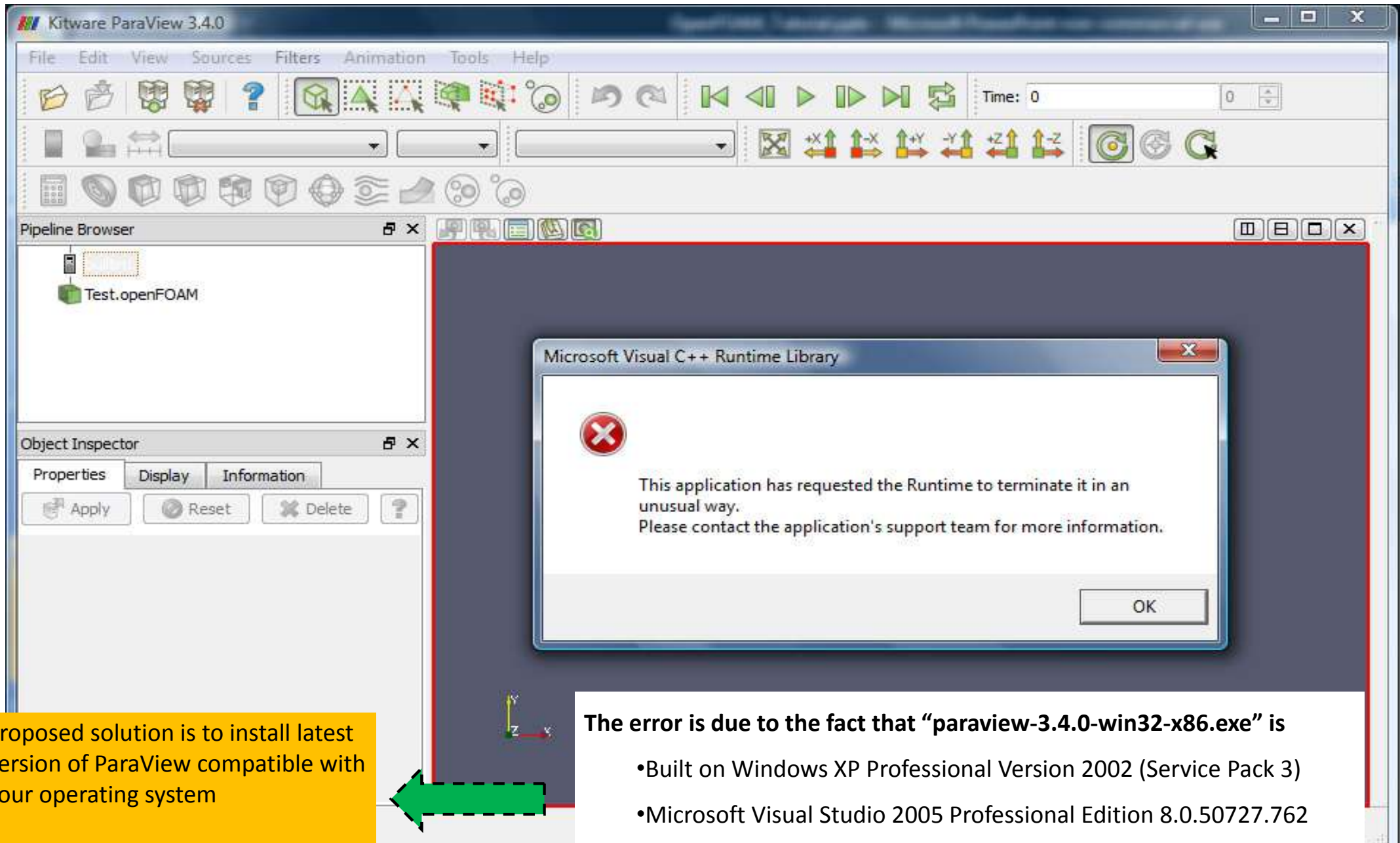
A reader for "C:\OpenFOAM\Test\Test.openFOAM" could not be found. Please choose one:

- Stereo Lithography
- Gaussian Cube Files
- Raw (binary) Files
- POP Ocean Files
- AVS UCD Binary/ASCII Files
- Meta Image Data Files
- Facet Polygonal Data Files
- PNG Image Files
- Phasta Files
- SESAME
- Comma-separated-values
- MFIX Unstructured Grid Files
- Fluent Case Files
- OpenFOAM Files**

Opening the file with an incompatible reader may result in unpredictable behavior or a crash. Please choose the correct reader.

OK Cancel

Issues observed in OpenFOAM
designer version 1.0 and proposed
solution for Windows Vista



Proposed solution is to install latest version of ParaView compatible with your operating system

The error is due to the fact that “paraview-3.4.0-win32-x86.exe” is

- Built on Windows XP Professional Version 2002 (Service Pack 3)
- Microsoft Visual Studio 2005 Professional Edition 8.0.50727.762

And hence will not have forward compatibility with Windows Vista.

Open File: (open multiple files with <ctrl> key.)

Look in: C:/OpenFOAM/Test/VTK/

- My Documents
- Desktop
- Favorites
- C:\
- D:\
- E:\
- F:\
- Windows Network
- Test
- VTK

Filename

- fixedWalls
- frontAndBack
- movingWall
- Test_...vtk
 - Test_1.vtk
 - Test_2.vtk
 - Test_3.vtk
 - Test_4.vtk
 - Test_5.vtk
 - Test_6.vtk

File name: Test_6.vtk

Files of type: Supported Files (*.inp *.cml *.csv *.txt *.CSV *.TXT *.dem *.dcm *.d)

OK Cancel

RenderView1

Output Messages

```
ERROR: In C:\DBD\pvs-x32\paraview\src\paraview\VTK\IO\Legacy\vtkUnstructuredGridReader.cxx, line 349  
vtkUnstructuredGridReader (0C2D5F70): Unrecognized keyword: =\={<#*
```

Clear Close

View (Render View)

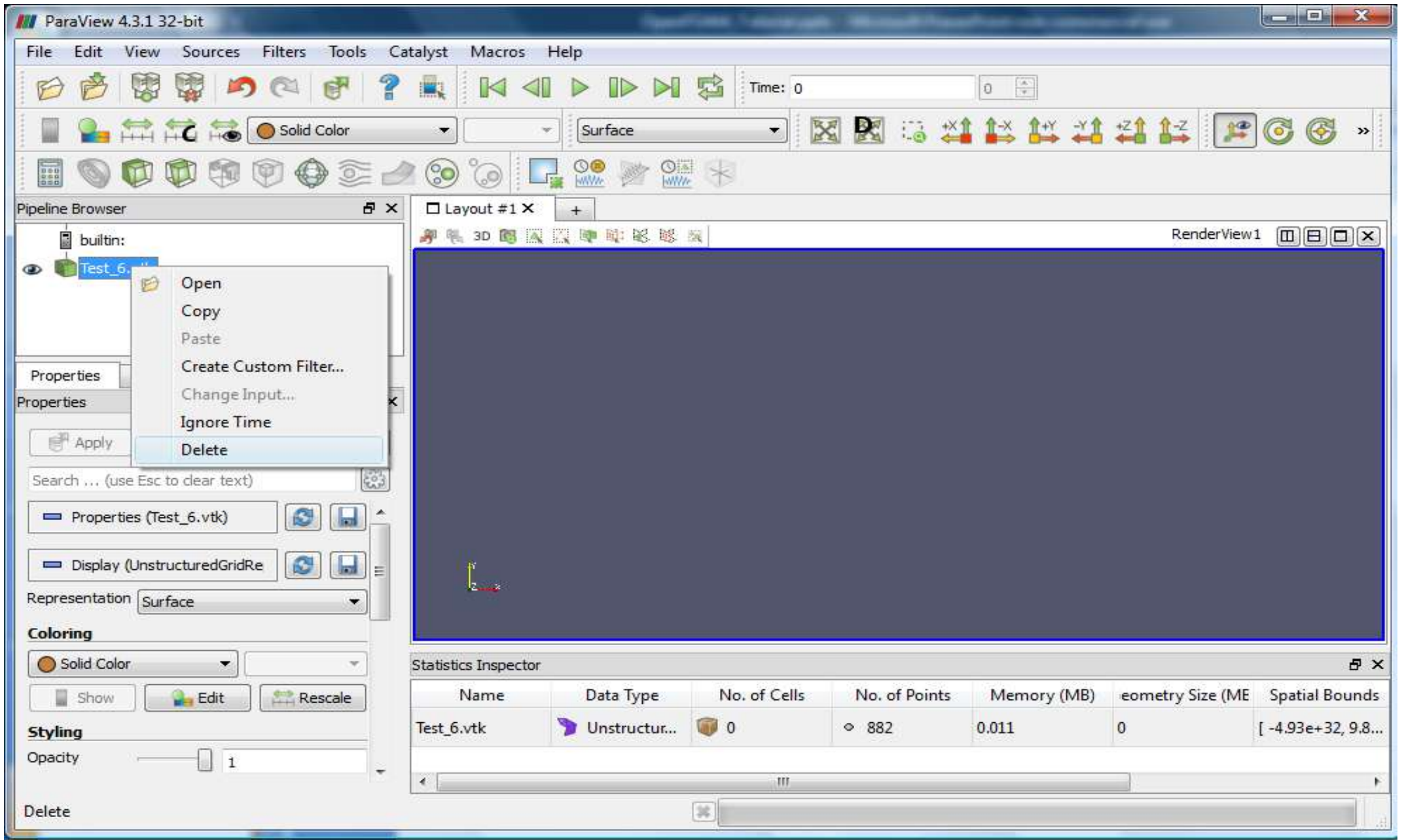
Center Axes Visibility

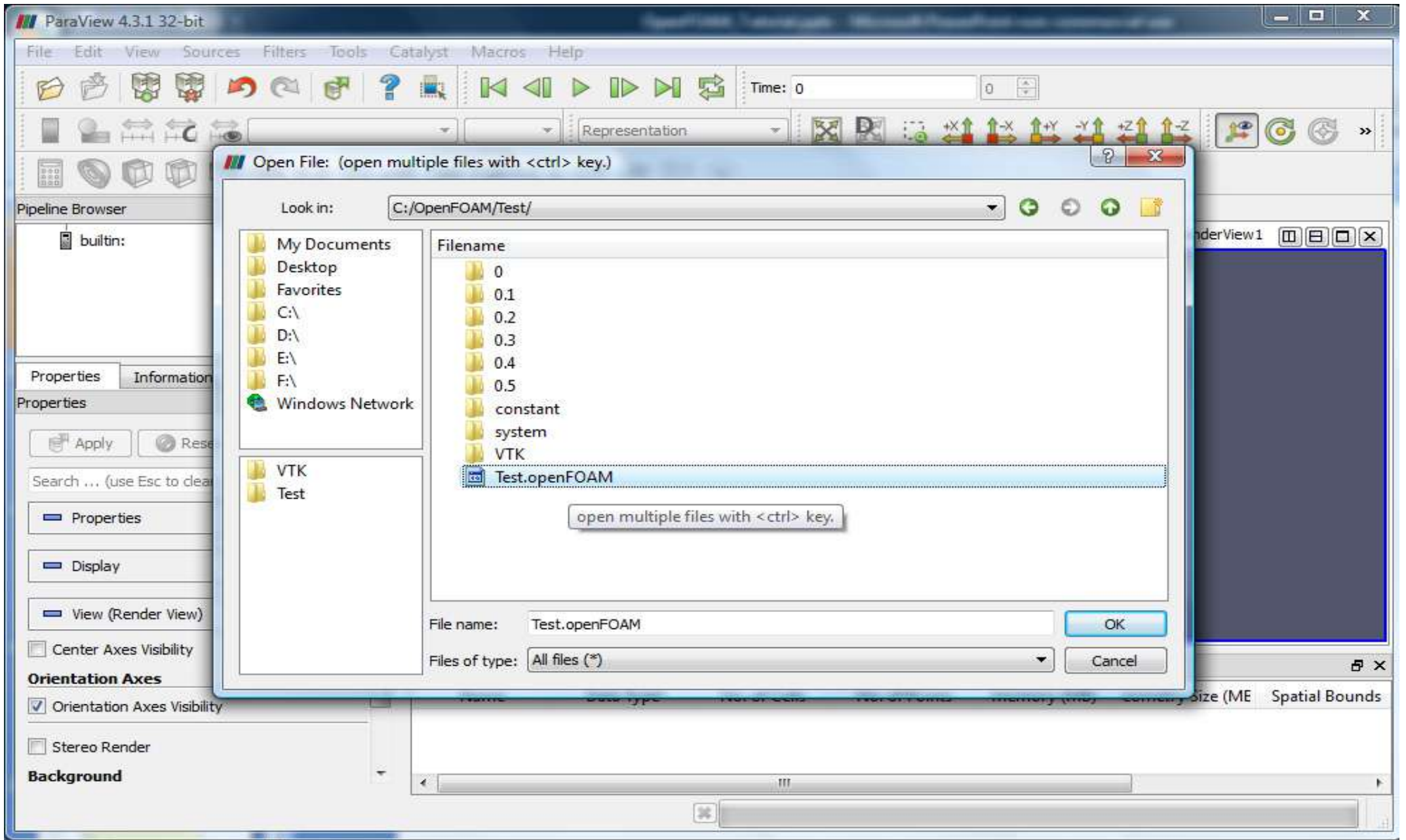
Orientation Axes

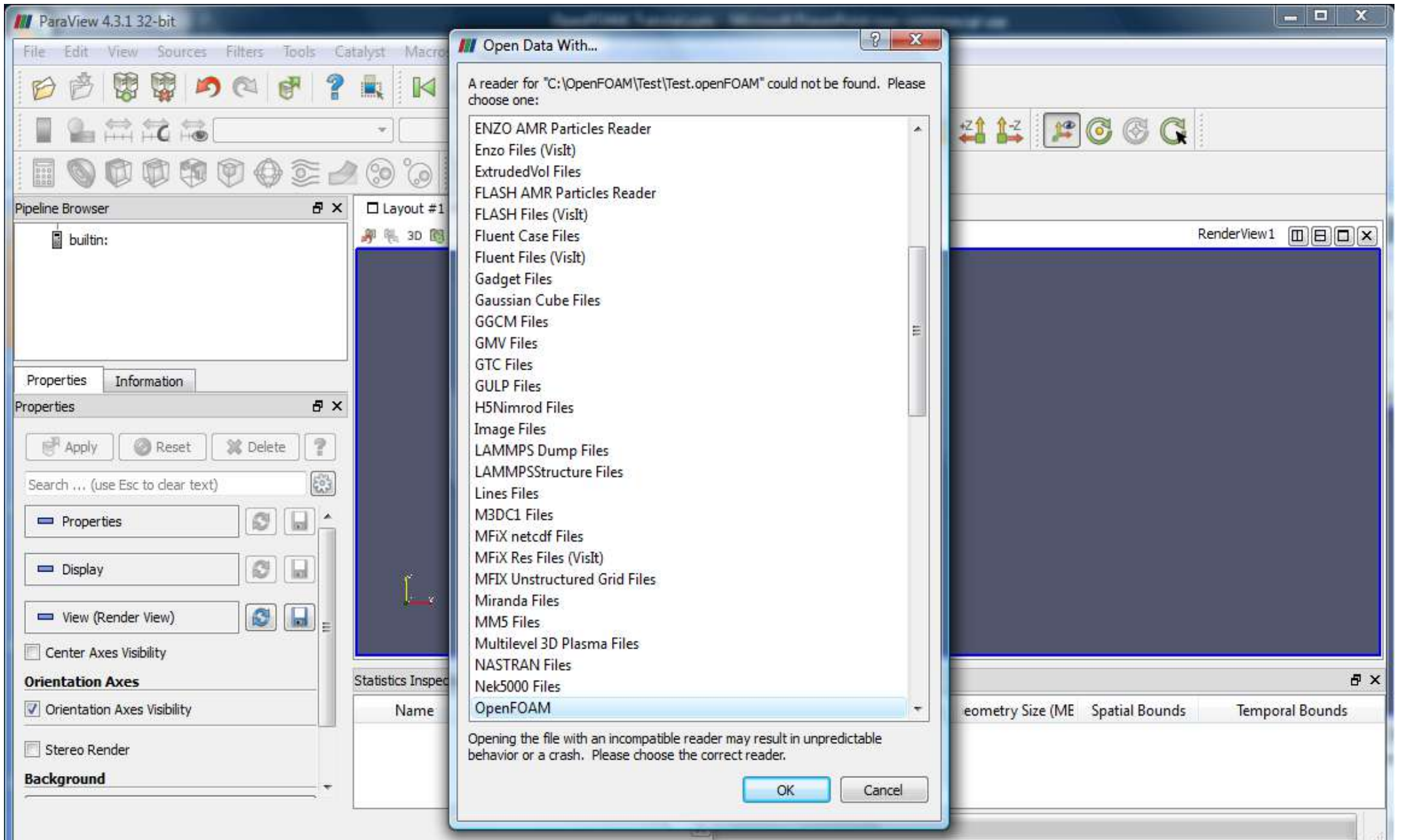
Orientation Axes Visibility

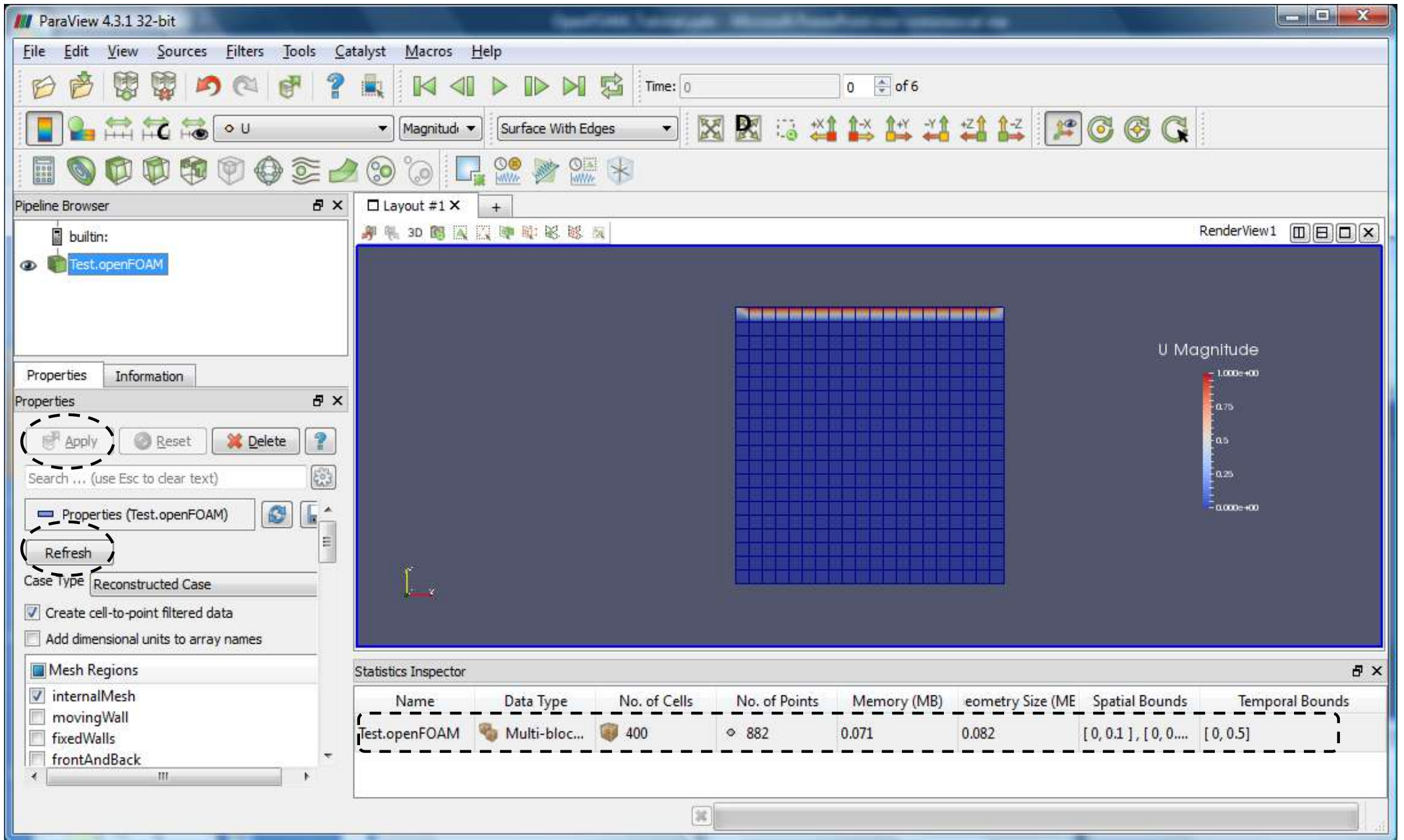
Stereo Render

Background

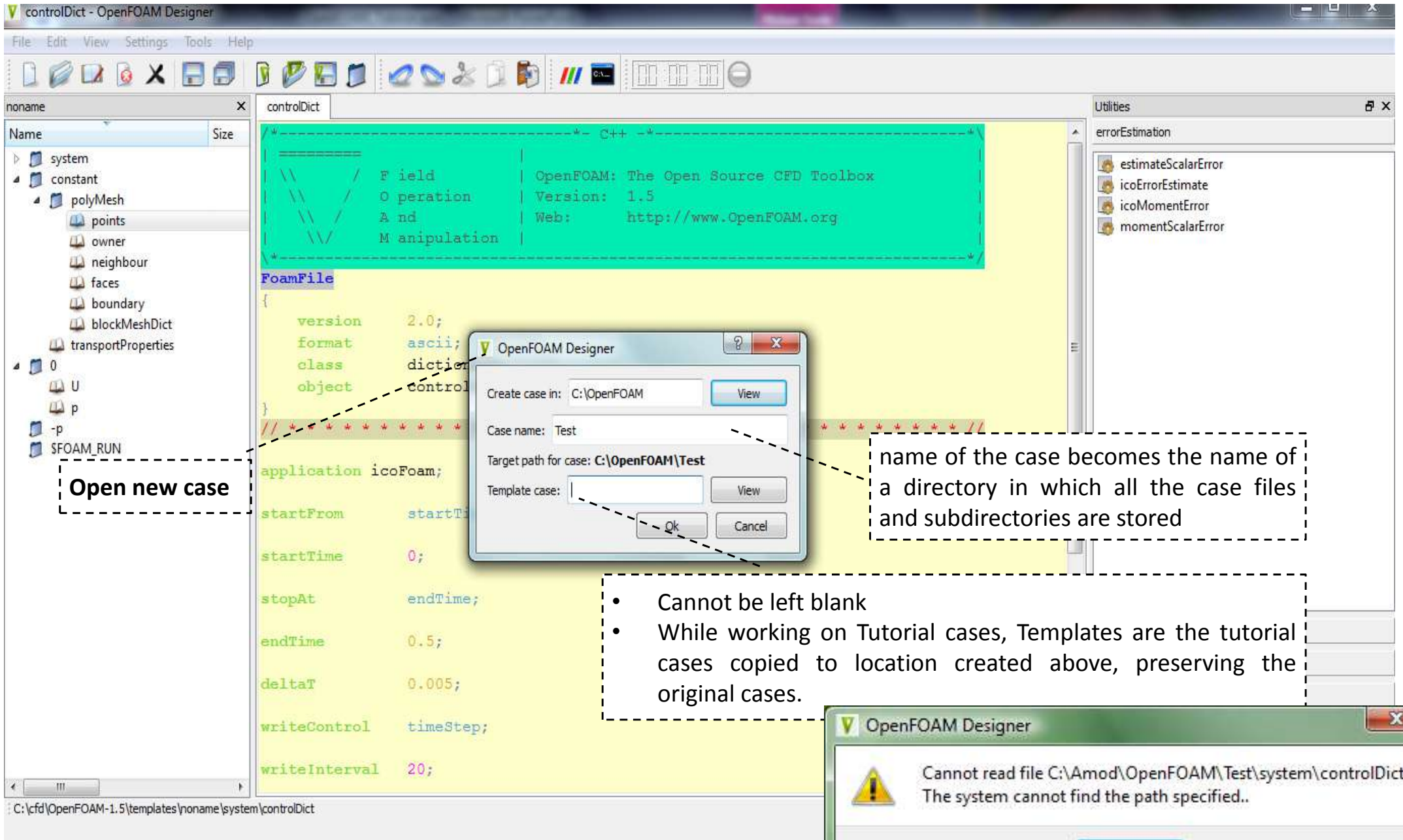








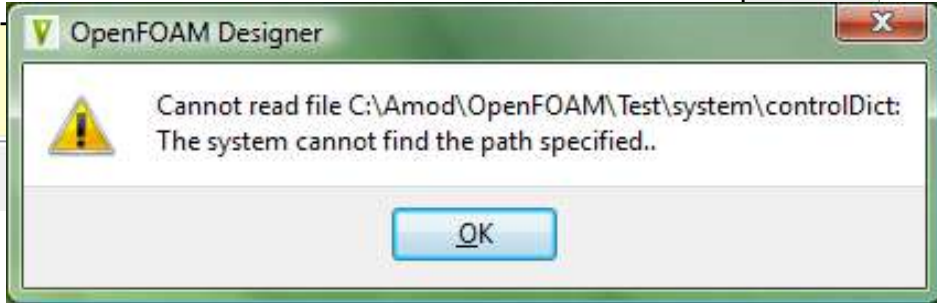
Issues observed in OpenFOAM
designer version 1.0 but no
solutions yet for Windows Vista

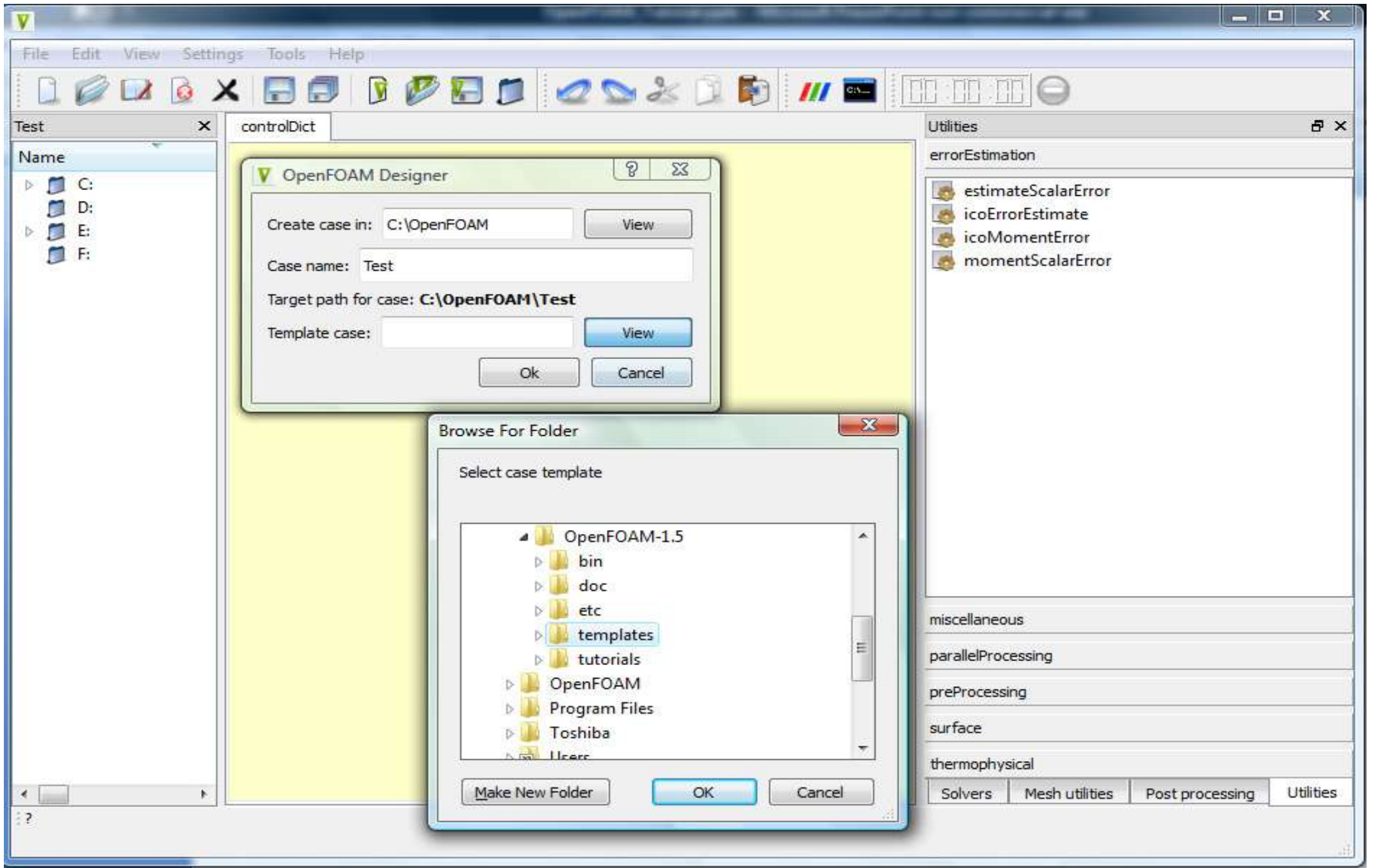


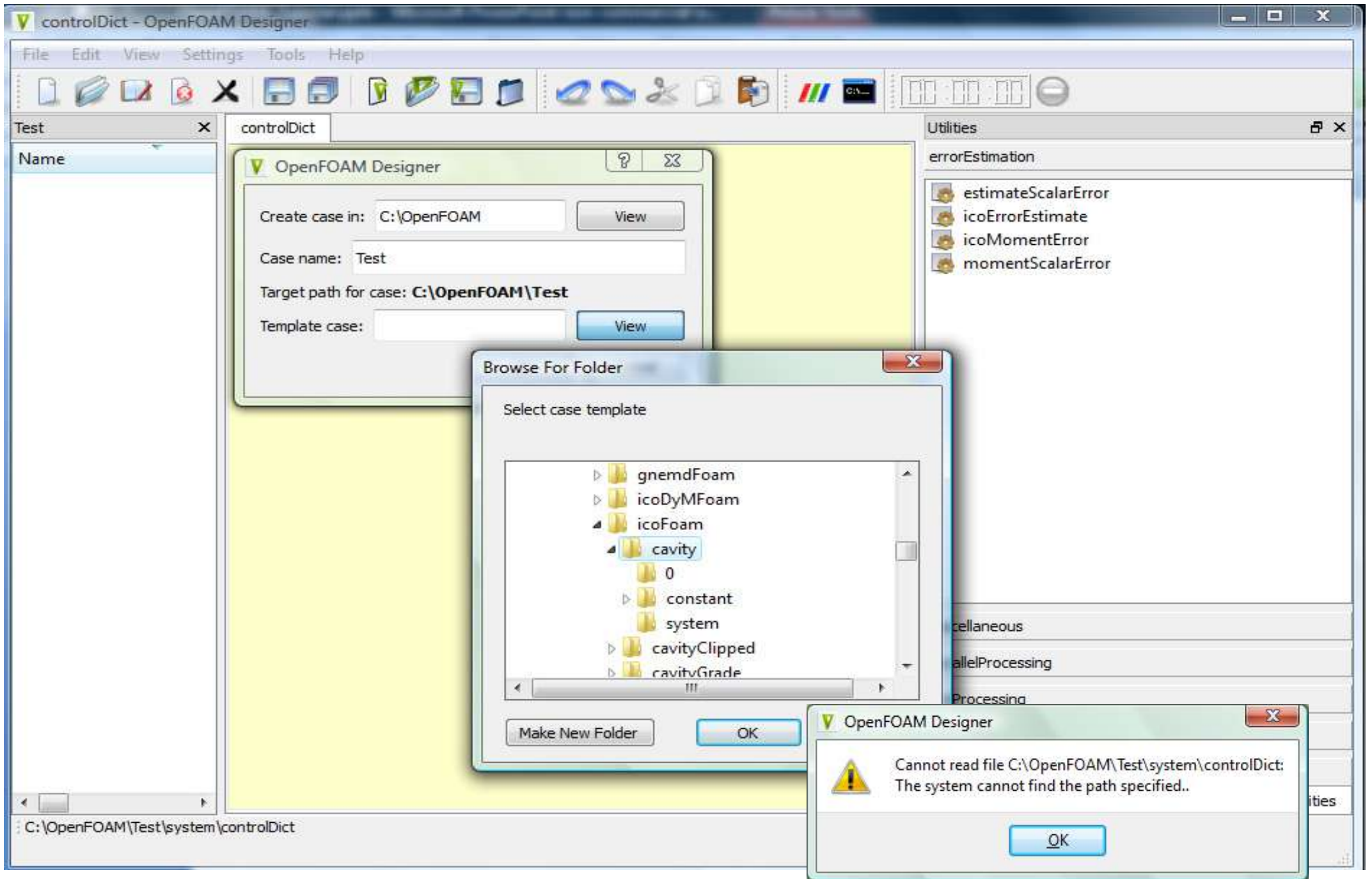
Open new case

name of the case becomes the name of a directory in which all the case files and subdirectories are stored

- Cannot be left blank
- While working on Tutorial cases, Templates are the tutorial cases copied to location created above, preserving the original cases.







Cannot read file C:\OpenFOAM\Test\system\controlDict:
The system cannot find the path specified..

OK