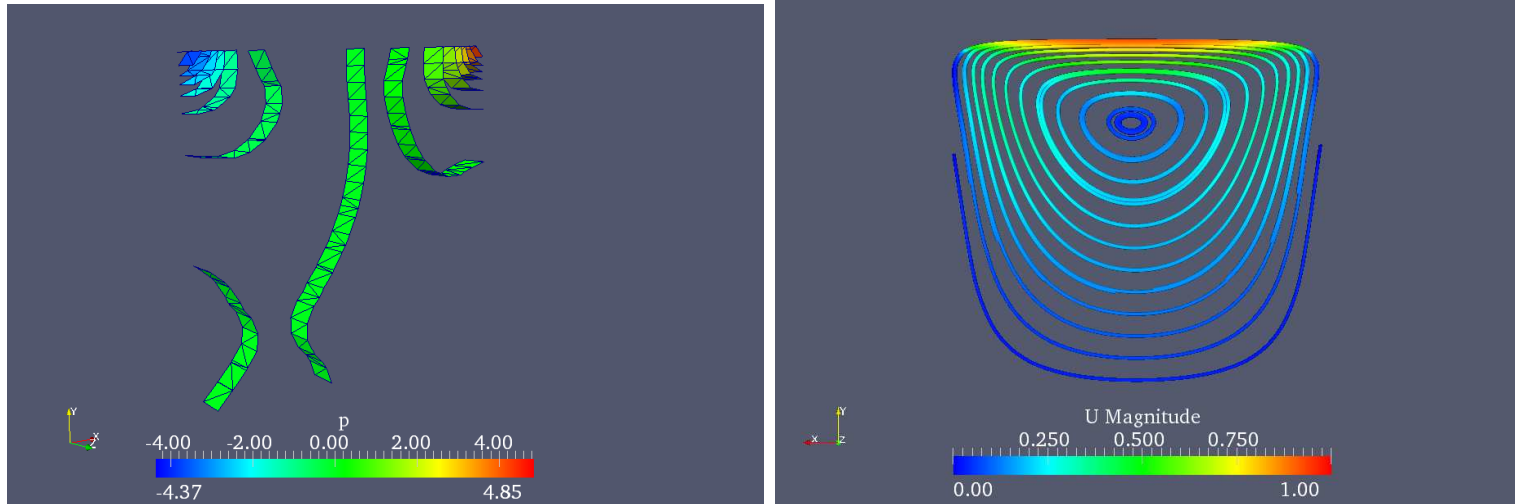
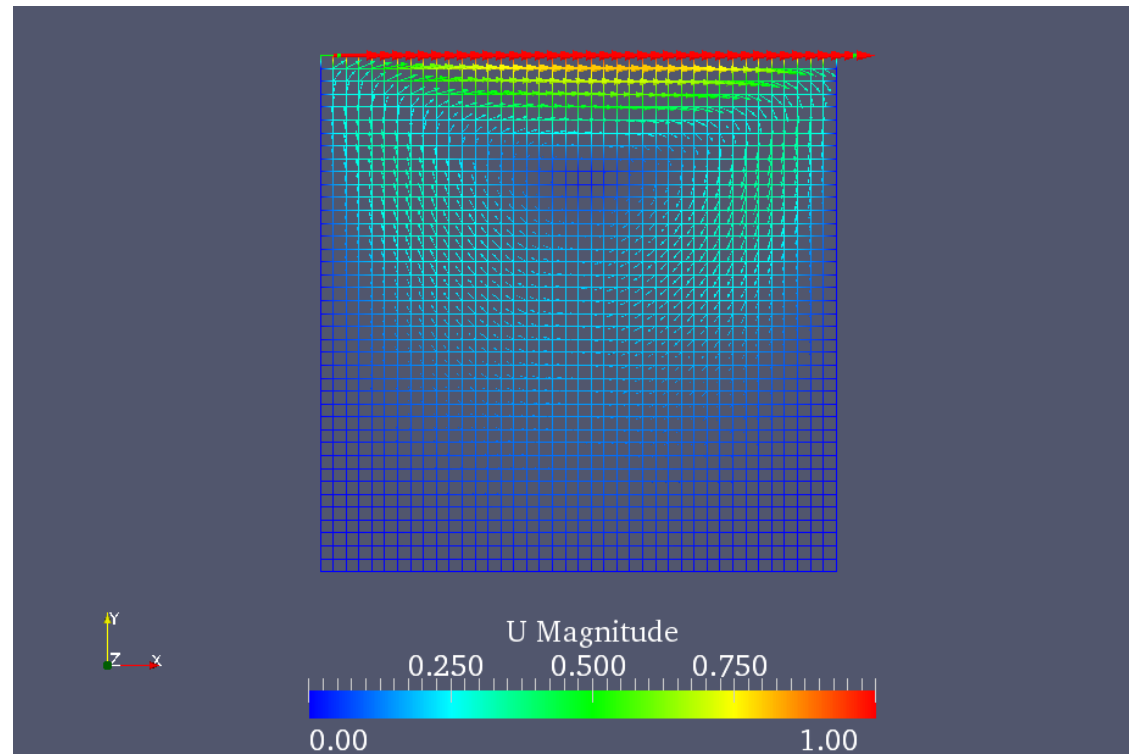


Cavity



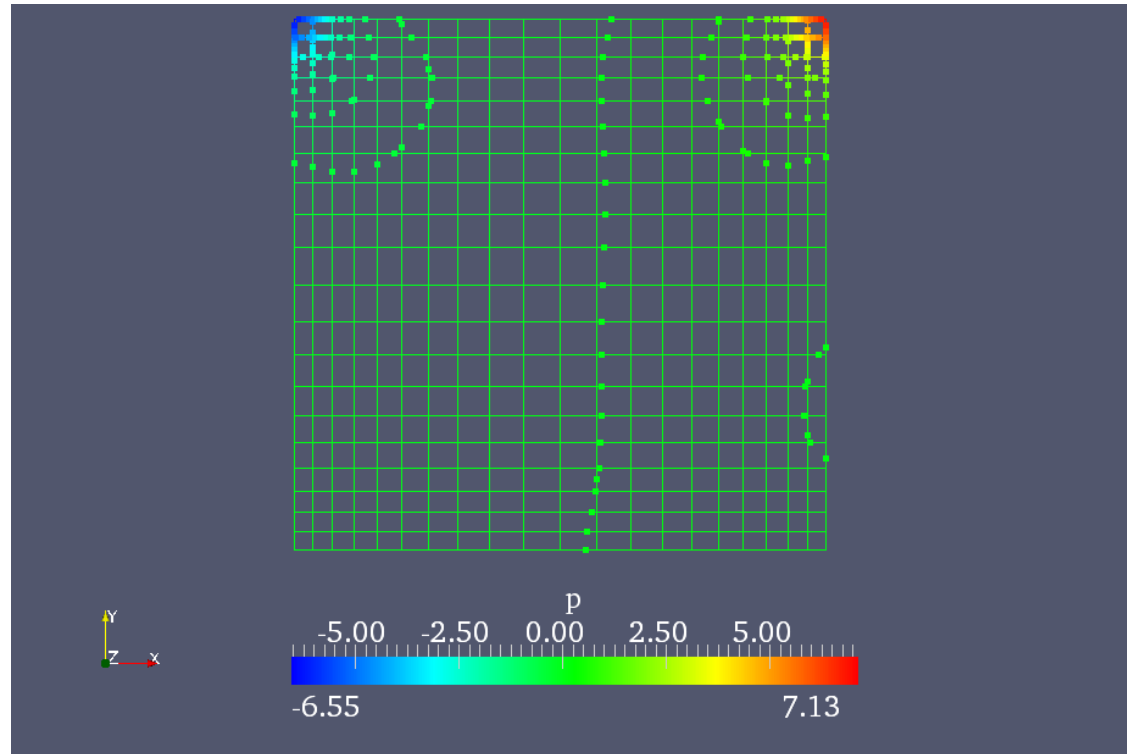
- To the left is a contour plot of the pressure. Filters – Contour then New Range – Steps=15 and Surface with Edges.
- To the right is a picture of streamtubes of the velocity. Filters – StreamTracer
Filters – GenerateTubes with Point1=(0.05 0 0.005), Point2=(0.05 0.3 0.005)
and Resolution=50.

CavityFine



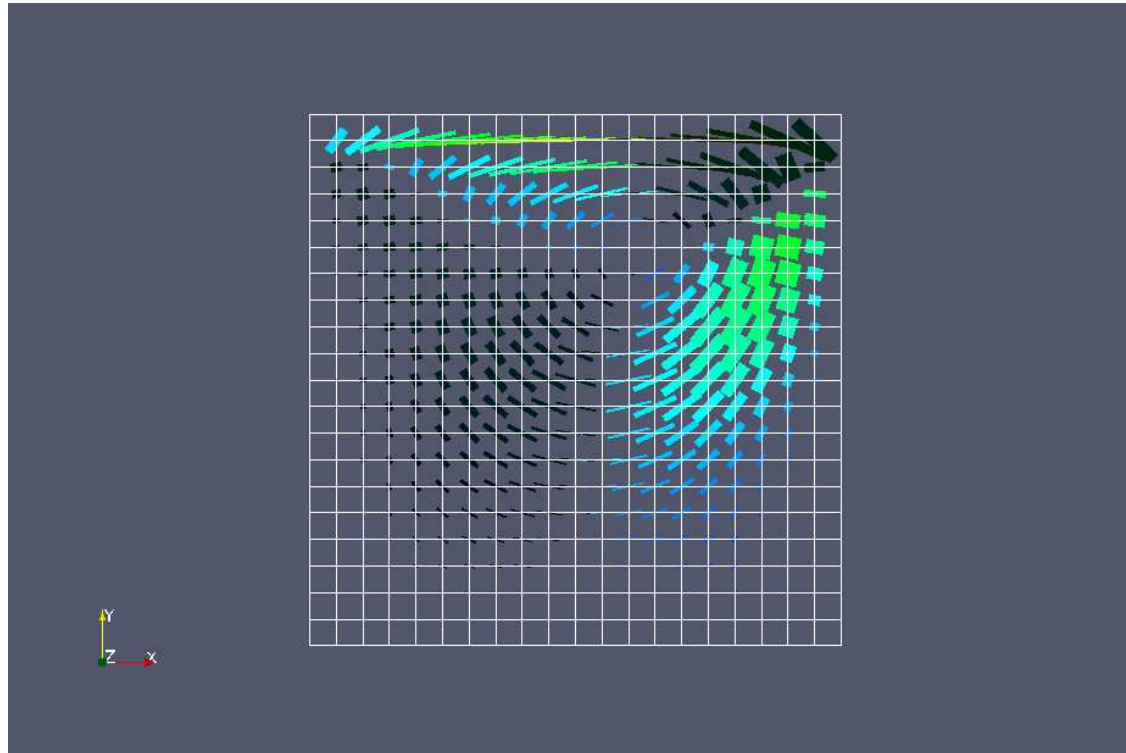
- On the refined mesh the velocity is plotted with glyph with a wireframe behind.
Filters – Glyph

CavityGrade



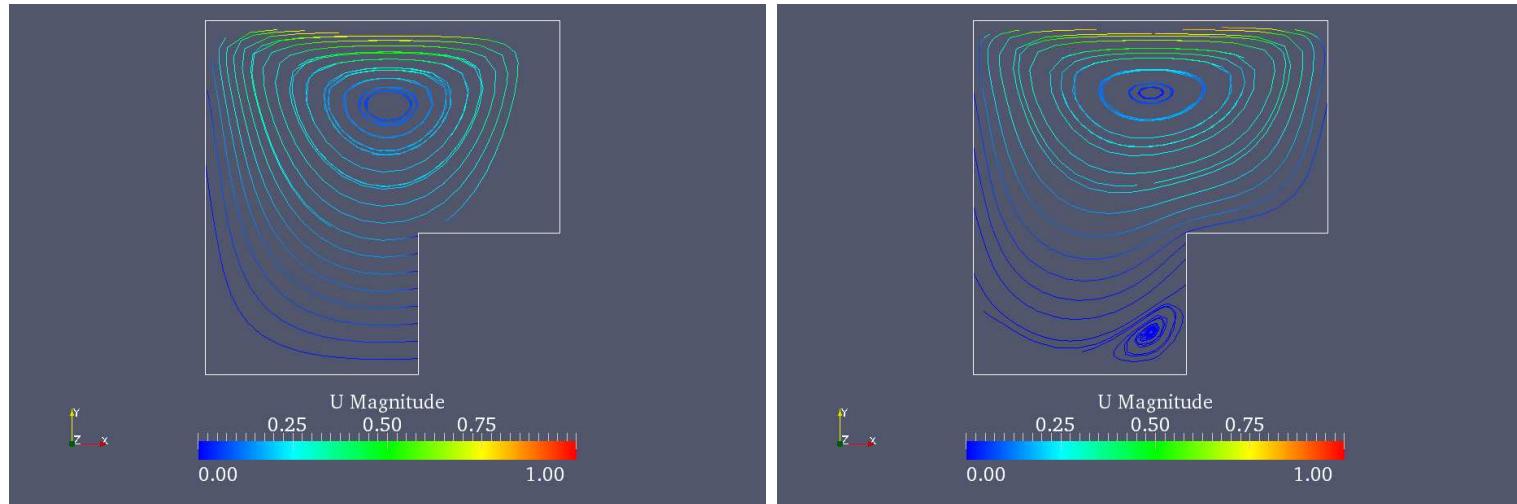
- A contour plot of the pressure with the graded mesh and its wireframe. Filters – Contour then New Range – Steps=30 and Points.

CavityHighRe



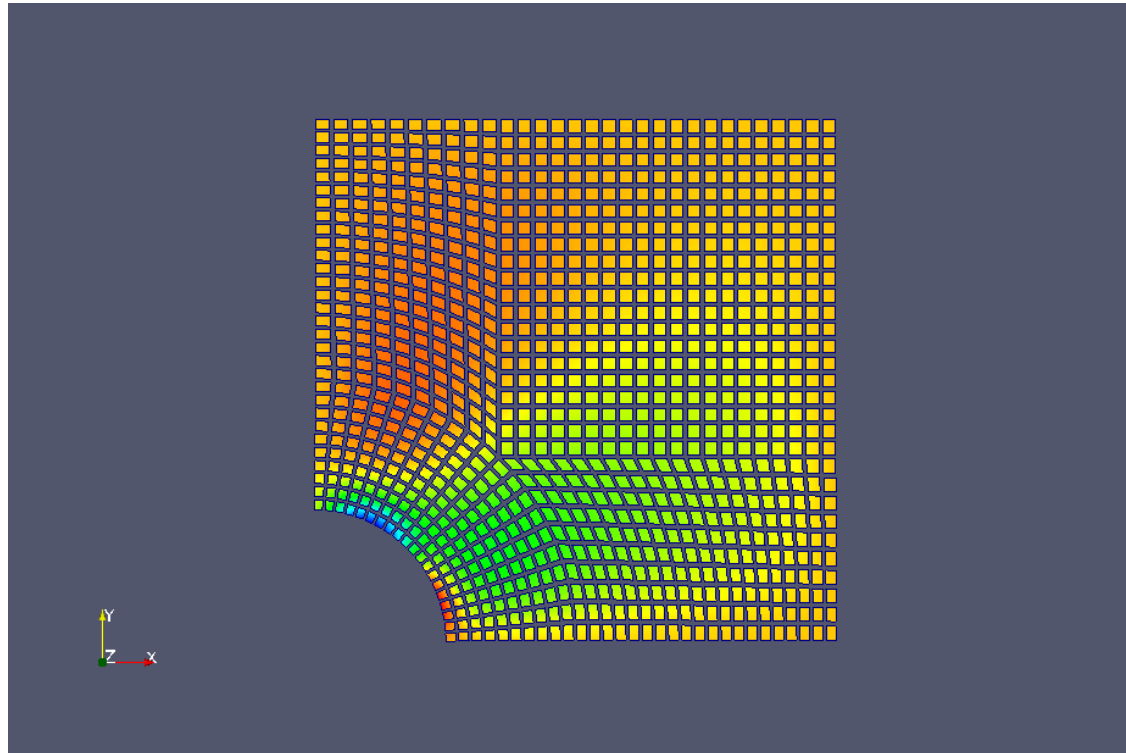
- For the CavityHighRe case a glyph consisting of rectangles is shown. Filters – Glyph with Box, X Length=4 and velocity_components.

Cavity



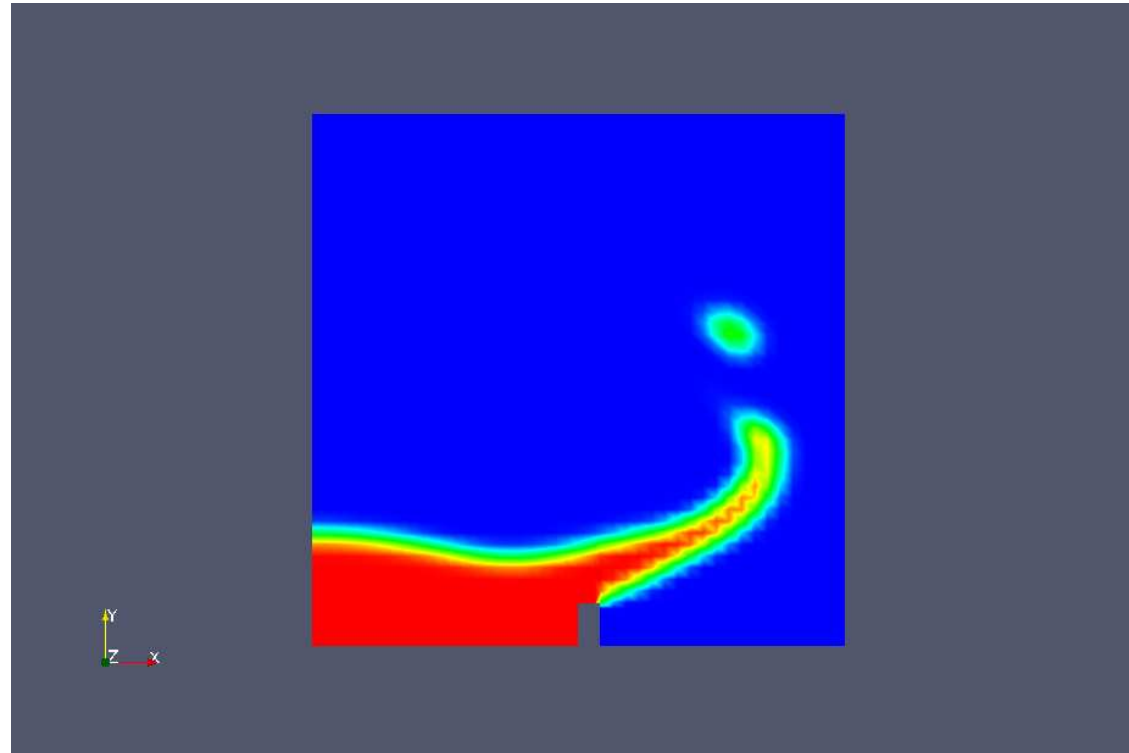
- This is a comparison between the initial and final solution of the cavityClipped case. The change is displayed with a StreamTracer plot. Filters – StreamTracer, then Y axis and Resolution=25.

SolidDisplacementFoam



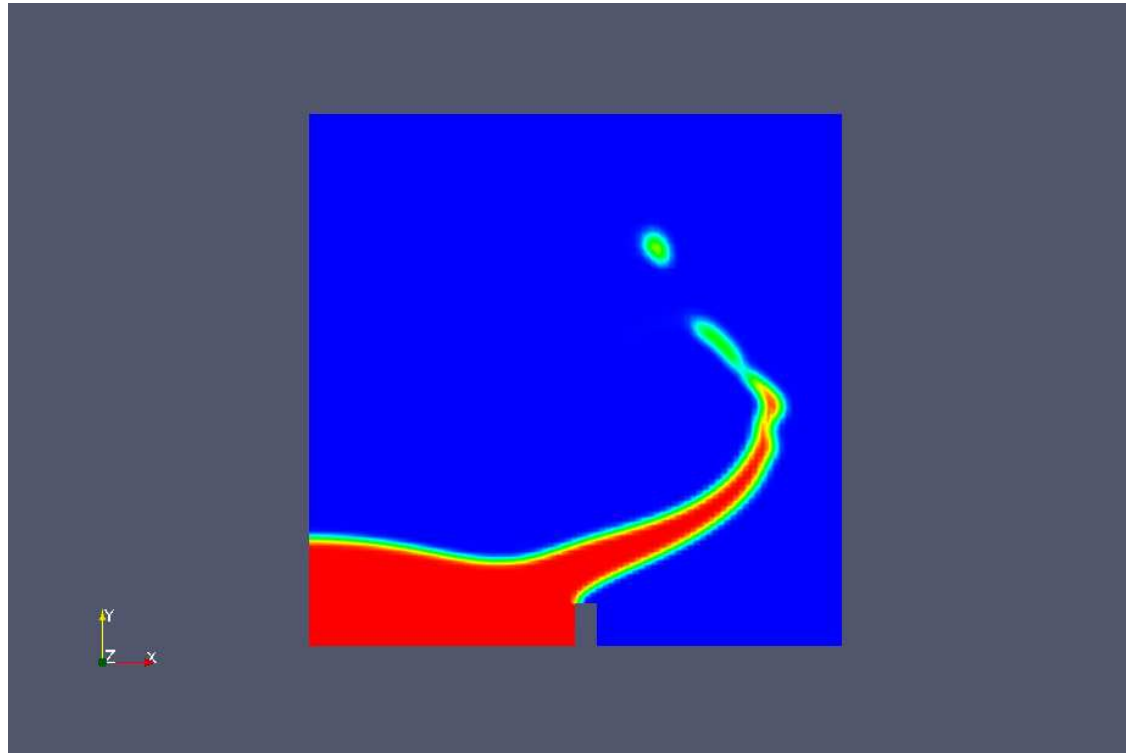
- Above is `sigmaxy` plotted with the help of the `shrink` command. Filters – Shrink with `Shrink Factor=0.75` and `Surface With Edges`.

DamBreak



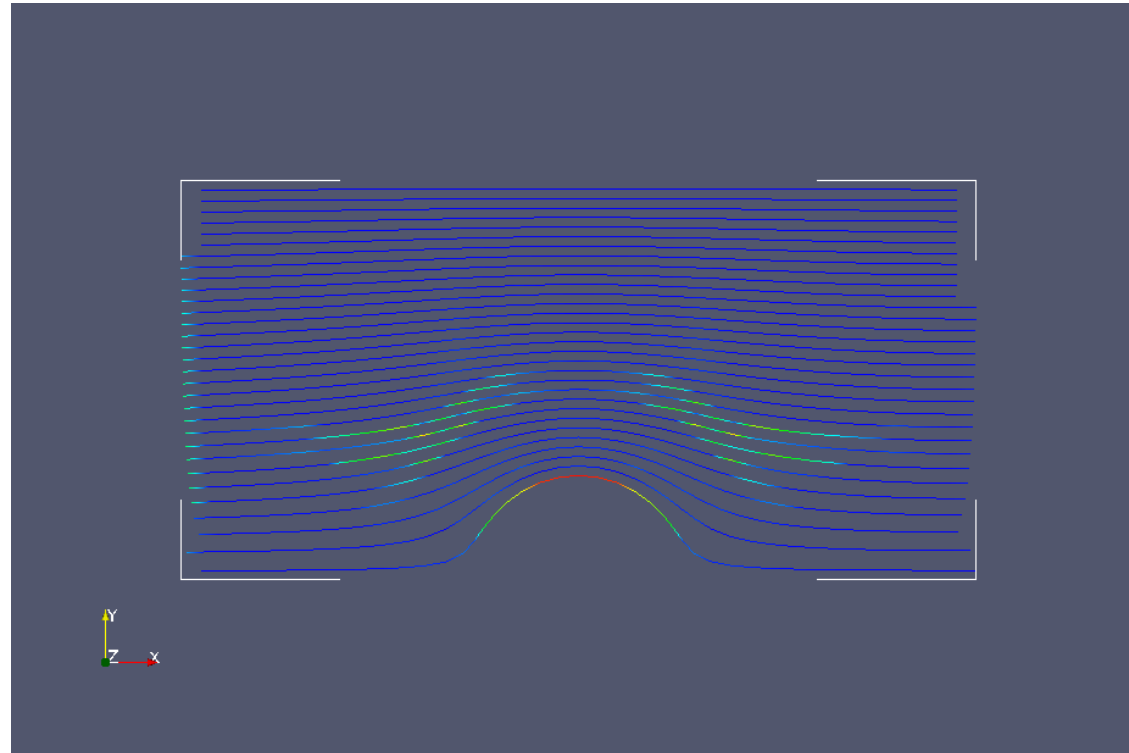
- Here, a surface plot is taken from time=0.3 by checking the box for alpha1 under Volume Fields.

DamBreakFine



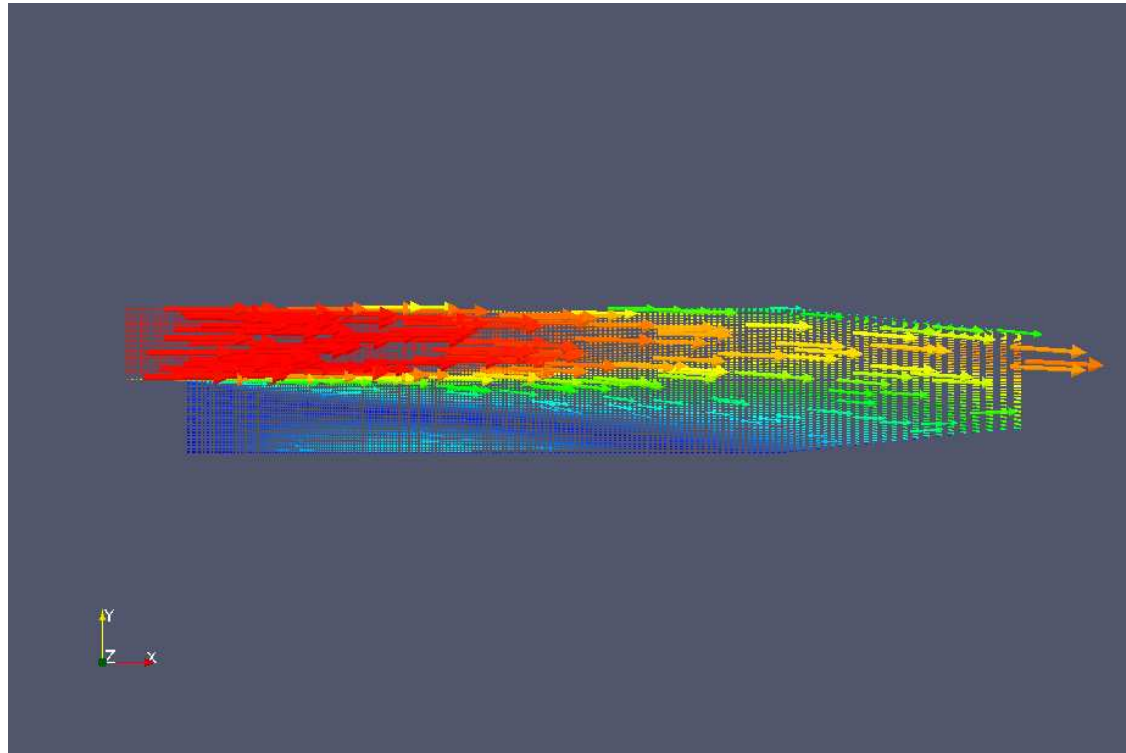
- Surface plot at the same time as before (time=0.3) but with a finer mesh.

Cylinder



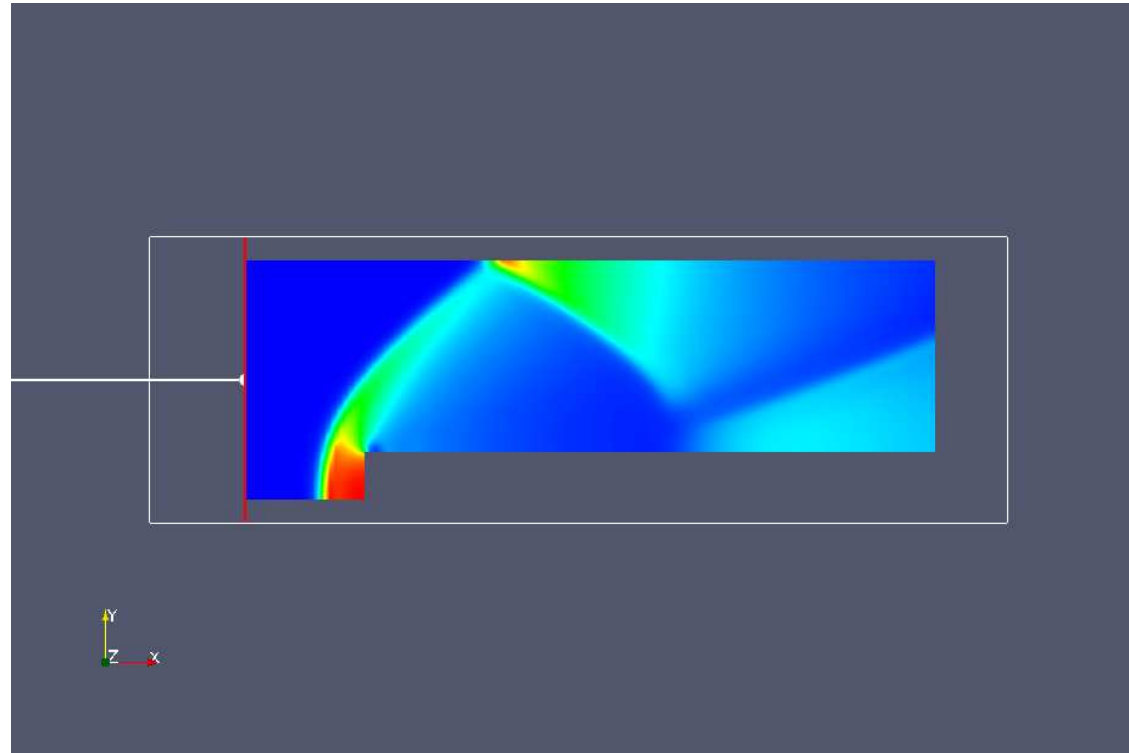
- The vorticity is plotted with StreamTracers together with the corners of the outline. Filters – StreamTracer Filters – Outline Corners.

PitzDaily



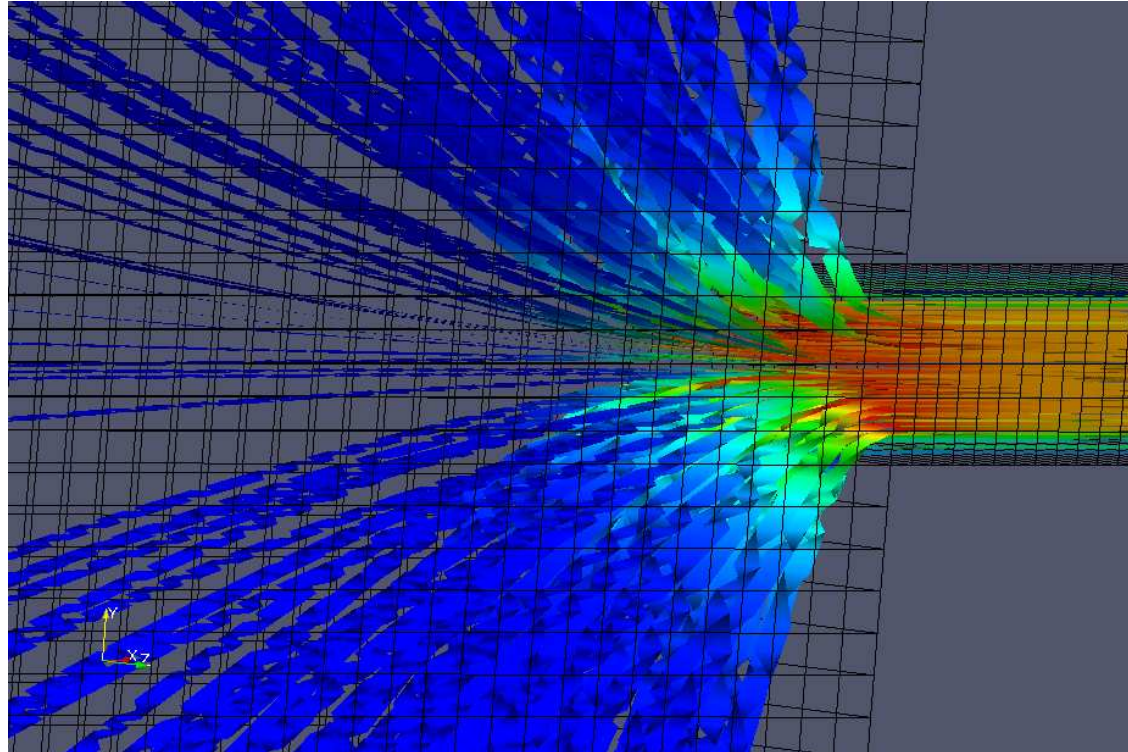
- The velocity is plotted with glyph and shrink at time=1000. Filters – Glyph and then Maximum Number of Points=400. Also Filters – Shrink with Shrink Factor=0.5.

ForwardStep



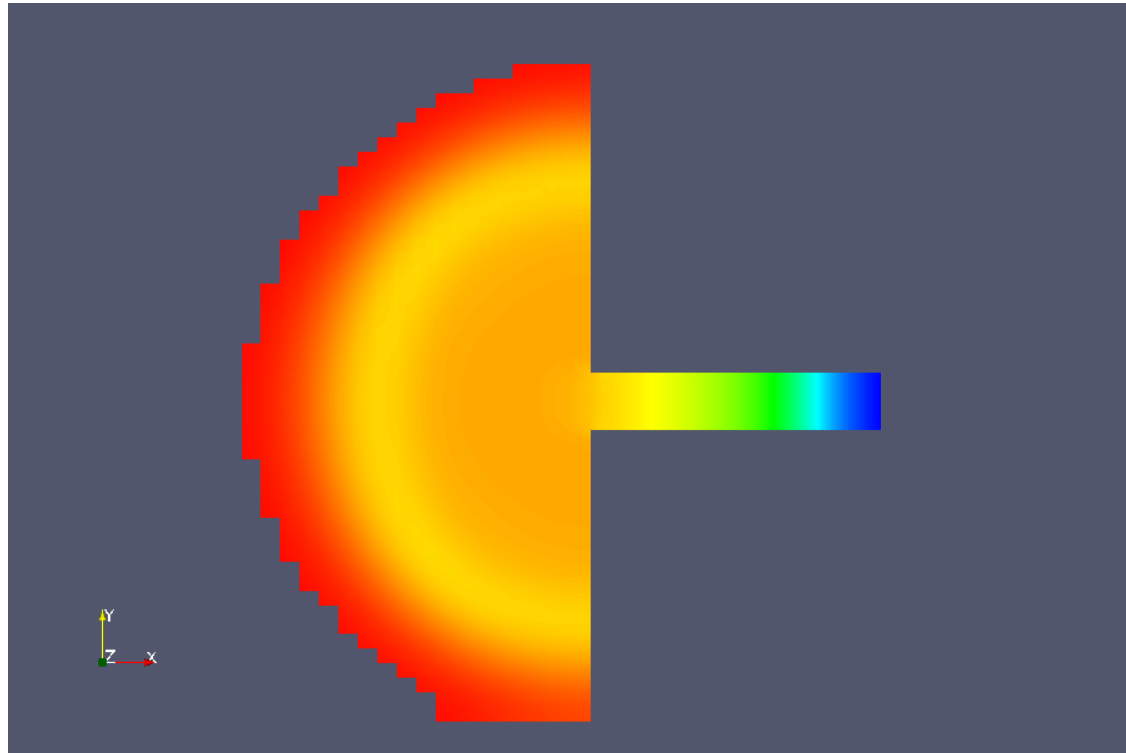
- A x-normal clip of the pressure plot is performed at (0.1 0.5 0). Filters – Clip, then X Normal and Origin=(0.1 0.5 0)

DecompressionTank



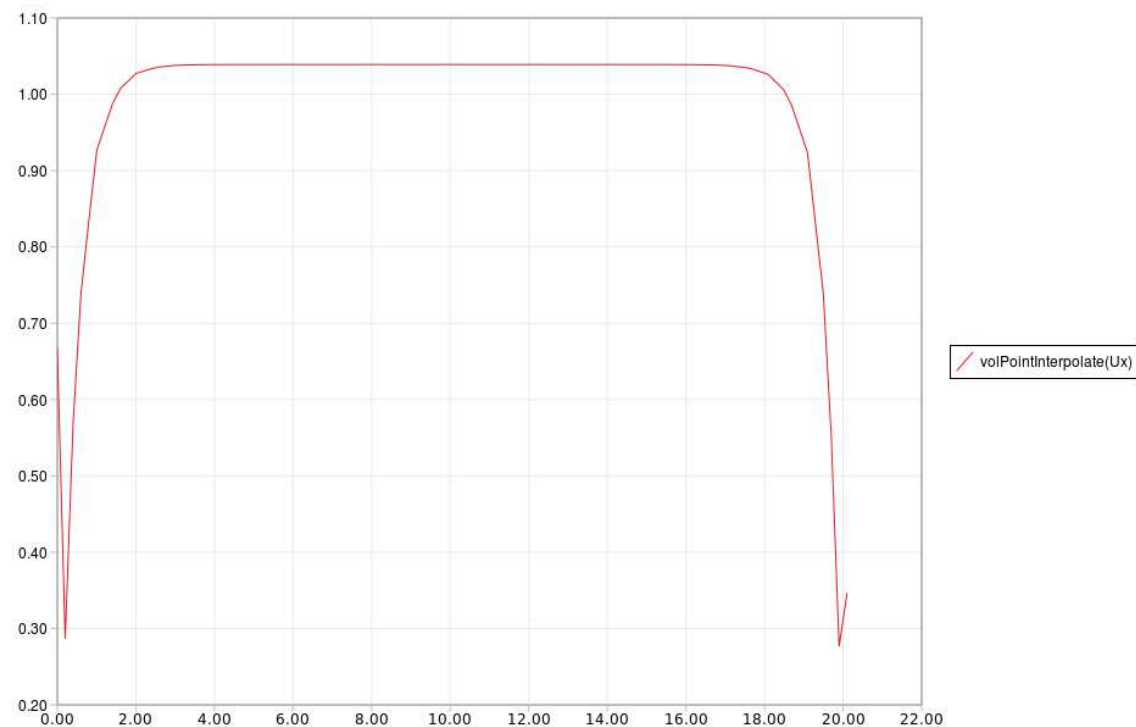
- The velocity is plotted at time= $4e-05$ with ribbon. Filters – StreamTracer, then Point Source with Point=(0.1 0.055 0) and Number of Points=100. With the marker on the StreamTracer Filters – Ribbon and then Width=0.001.

DecompressionTankFine



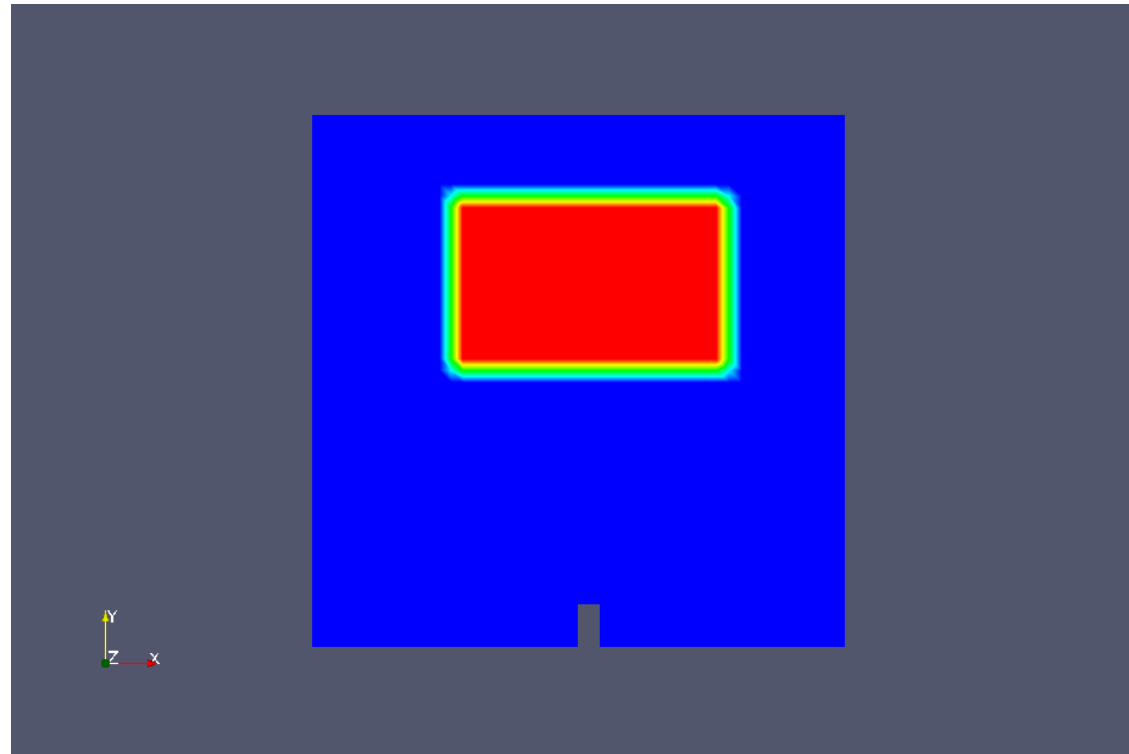
- The threshold function is applied at $T=6.6e-05$ for pressure, to take away the area which isn't of interest. Filters – Threshold, then reduce Upper Threshold to $9.9e+06$.

Hartmann



- The velocity in the x-direction is plotted across a line from the left lower corner to the opposite corner. Filters – Plot Over Line and then choose only volPointInterpolate(Ux).

DamBreakModified

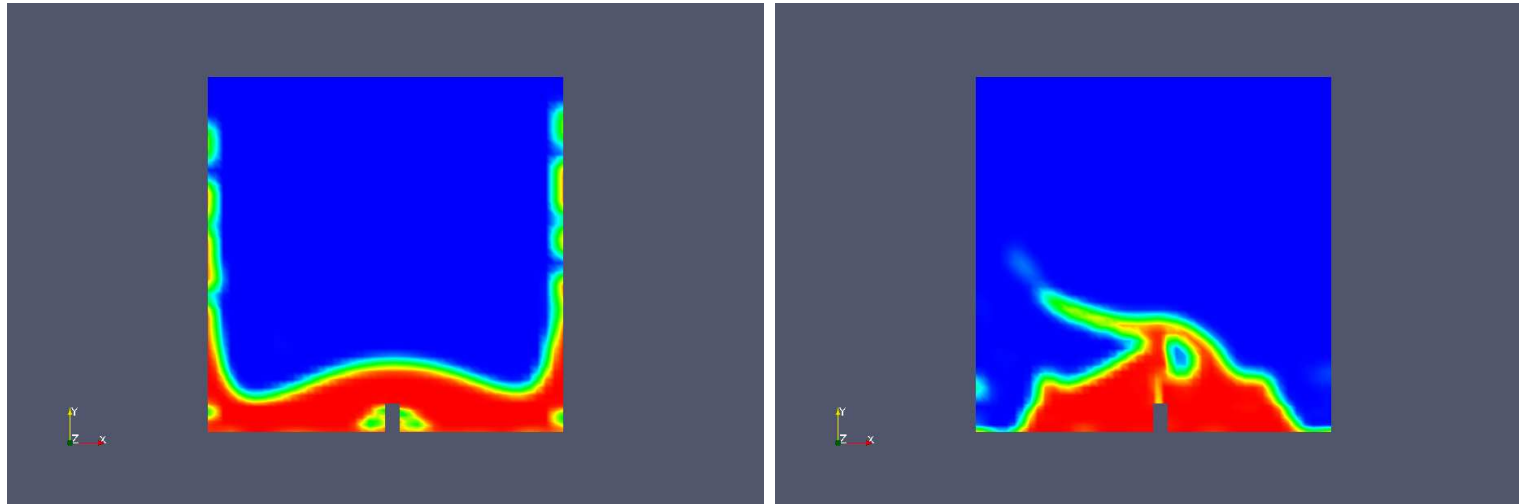


- The damBreak tutorial is modified by moving the liquid to the top middle of the domain and executing for two seconds instead of one.

DamBreakModified

- Go to damBreak/system/setFieldsDict and change to: `box (0.1500 0.300 -1) (0.4500 0.500 1);`
- Go to damBreak/system/controlDict and change `endTime` to 2.
- Execute `blockMesh`, `setFields` and `interFoam`.

DamBreakModified



- The liquid is brought down by gravity and splits by the dam.