TURBULENT FLOW OVER BACKWARD FACING STEP

Kamal S Kumar
Fourth Year B.Tech
Swami Vivekanand University
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Abstract:

This simulation is to study the changes in flow properties over a backward facing step. The flow is a steady-state incompressible and turbulent flow. The objectives of this simulation are to collect data on convergence of flow parameters, visualizing turbulent flow and creating contour plot.

Procedure-

- Mesh generated using blockMesh utility
- Setting boundary/initial conditions (BC/IC)
- Mesh imported into OpenFOAM
- Simulated in simpleFoam solver
- Post-processing in Paraview and Gnuplot

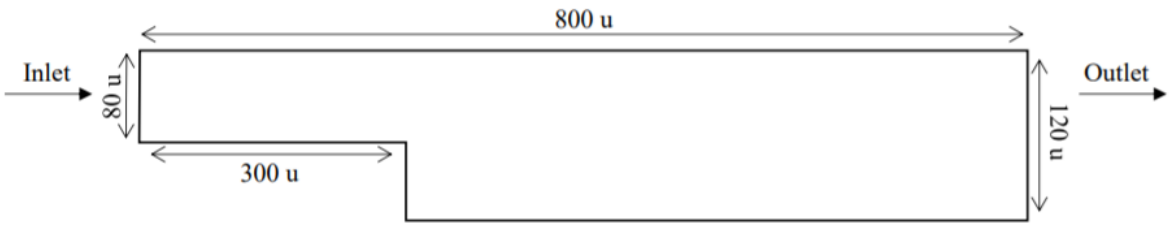

Fig.- Geometry of domain.