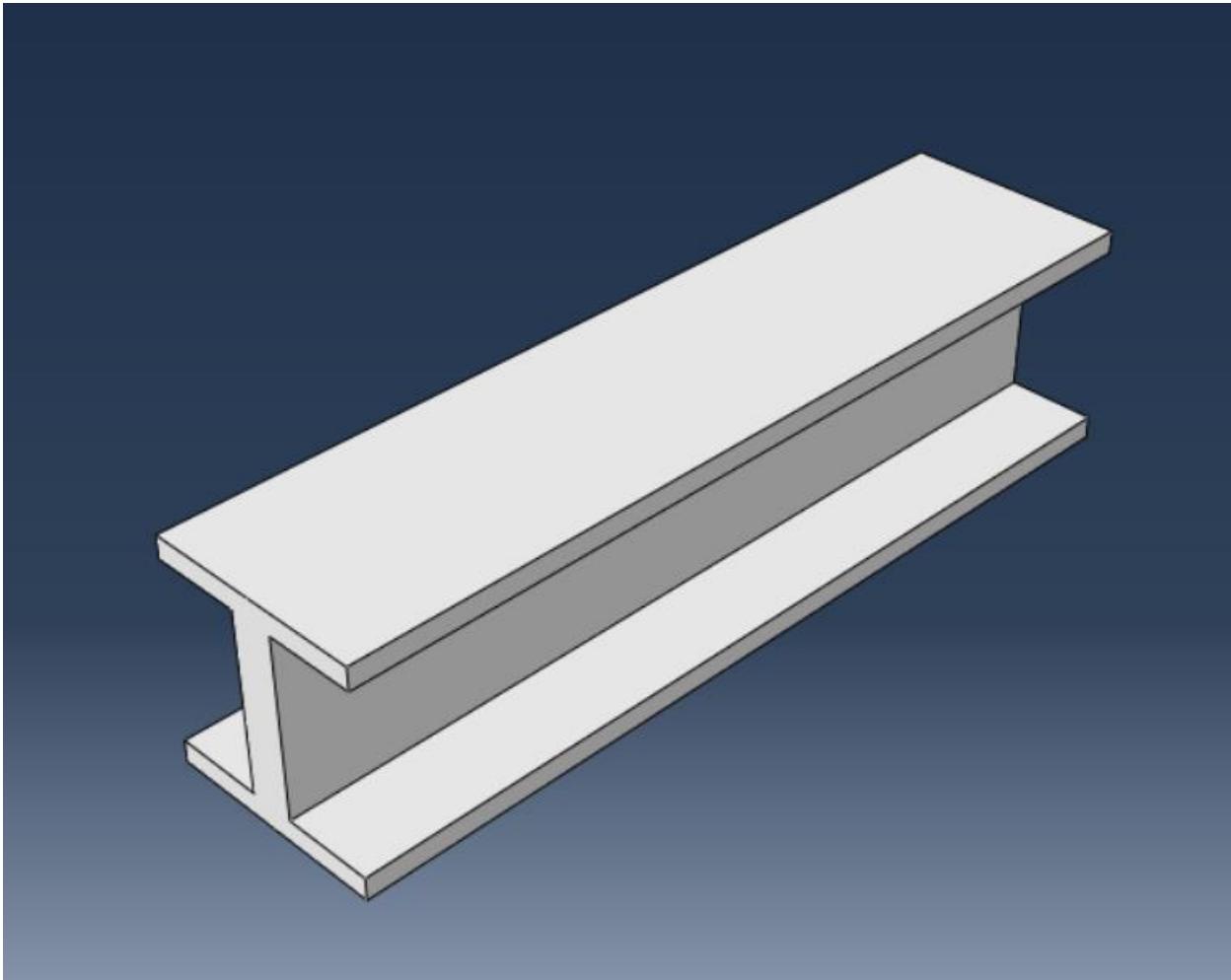


Project 2: ABAQUS Static Structural: Effect of multiple loads on a beam

Problem Statement: Evaluate the static structural performance of a beam with pressure and concentrated force loading.

Geometry:

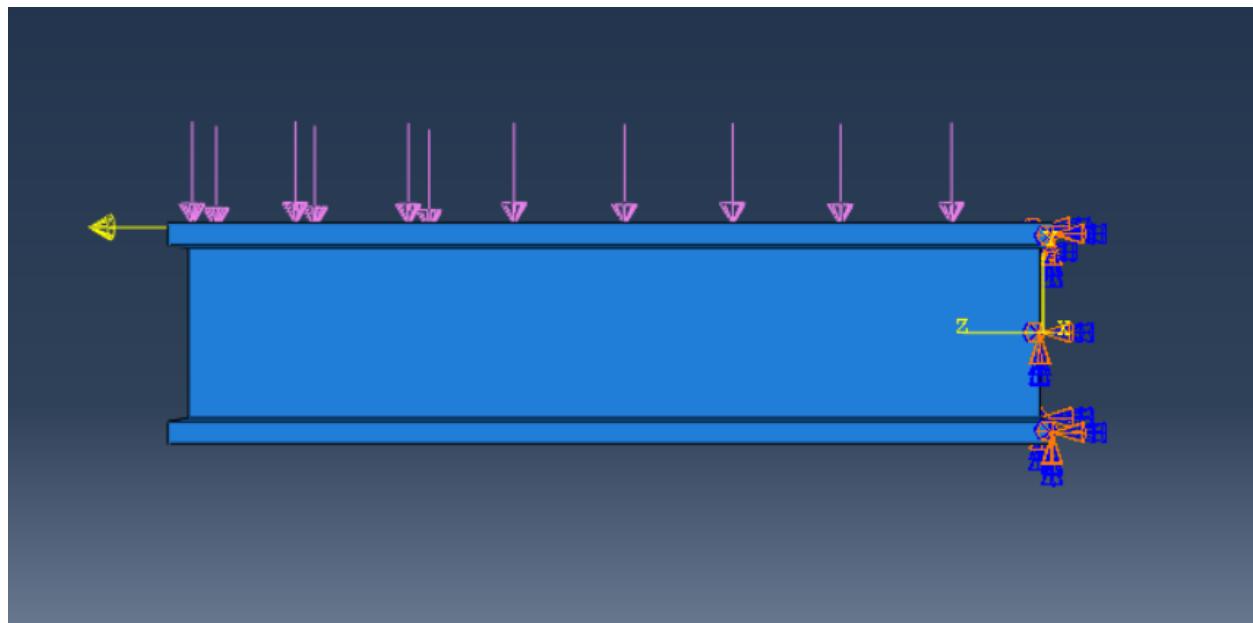


Material Properties:

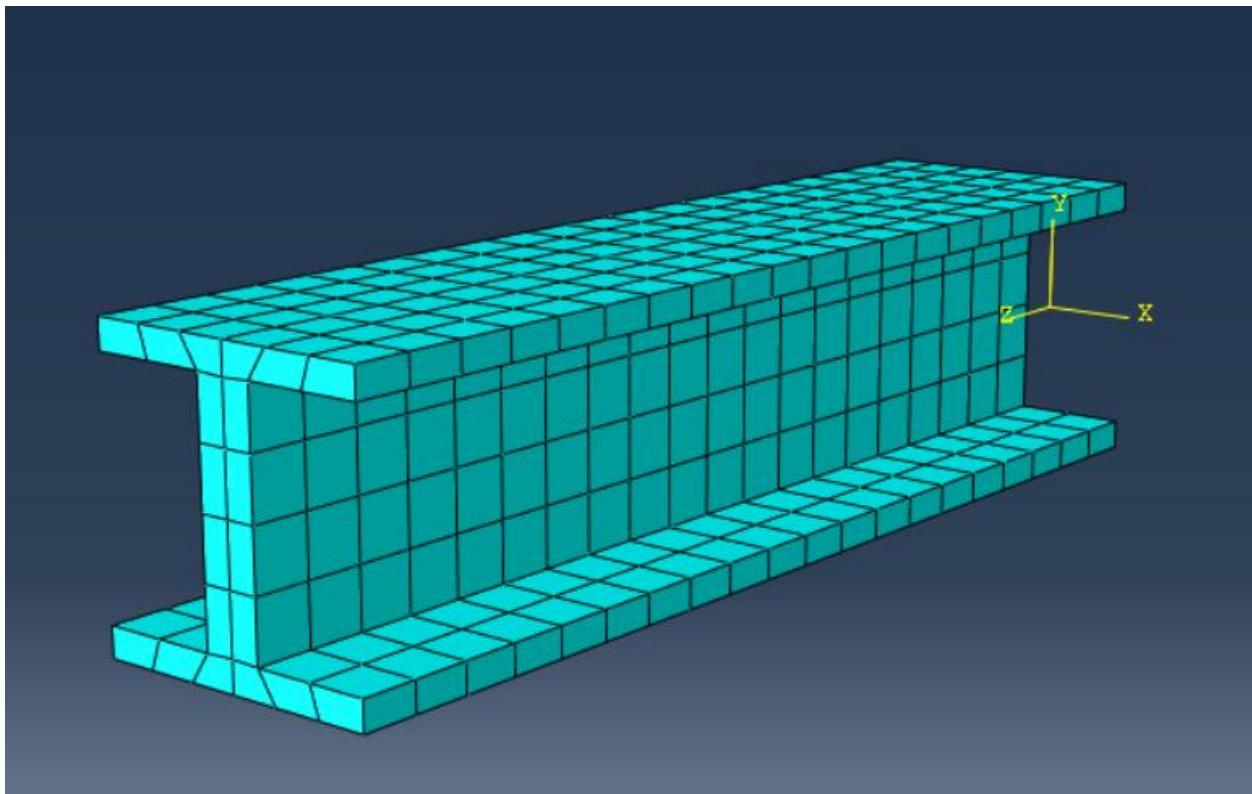
Young's Modulus	Poisson's Ratio
70000	0.3

Loading:

- 1) Right surface is fixed.
- 2) Pressure on top surface,
- 3) Concentrated force on the side.

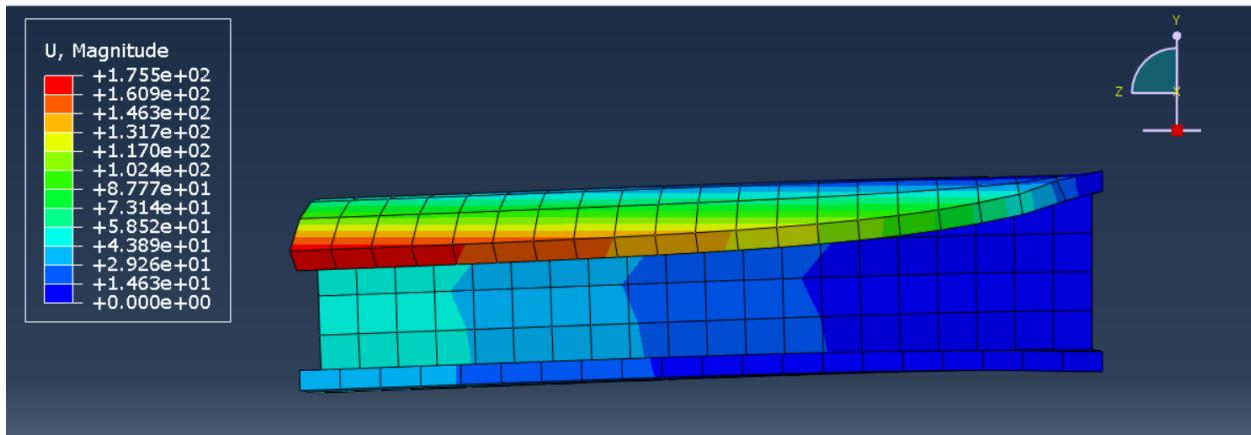


Mesh: (coarse due to limitation of 1000 nodes in ABAQUS educational version).



Results:

Deformation:



Von Mises Stress:

