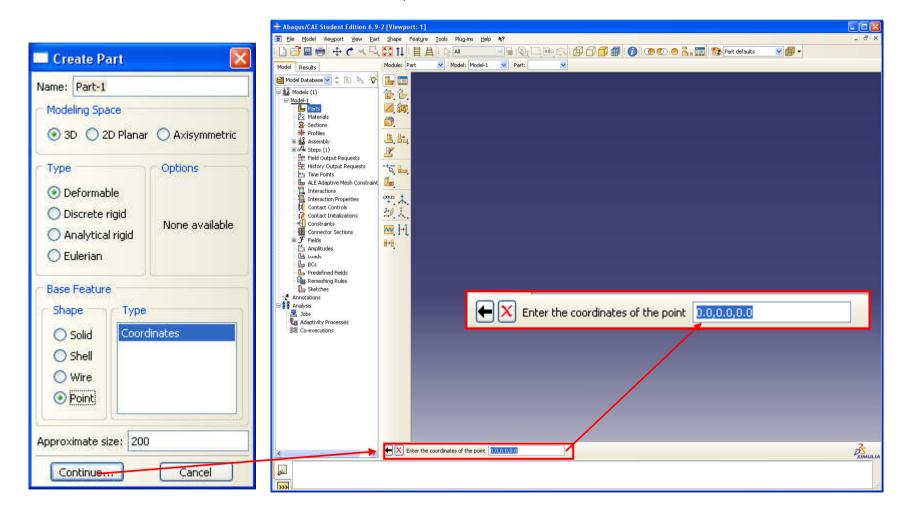
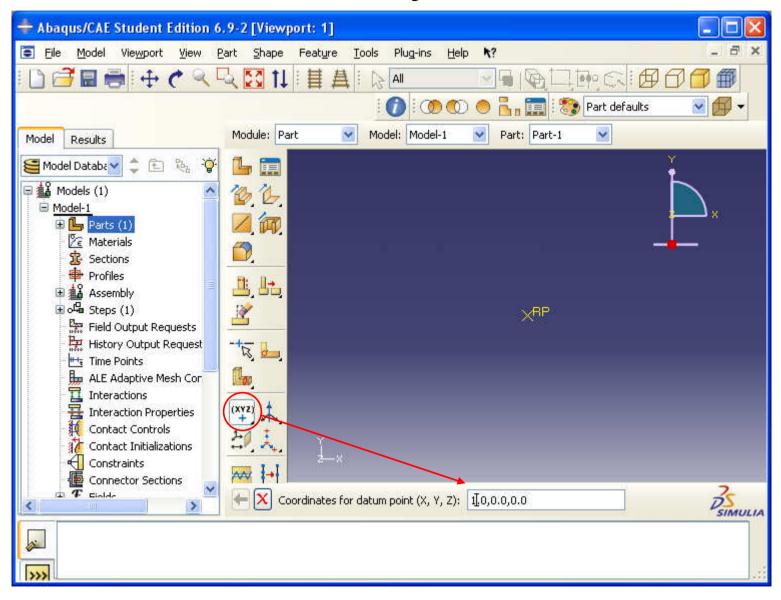
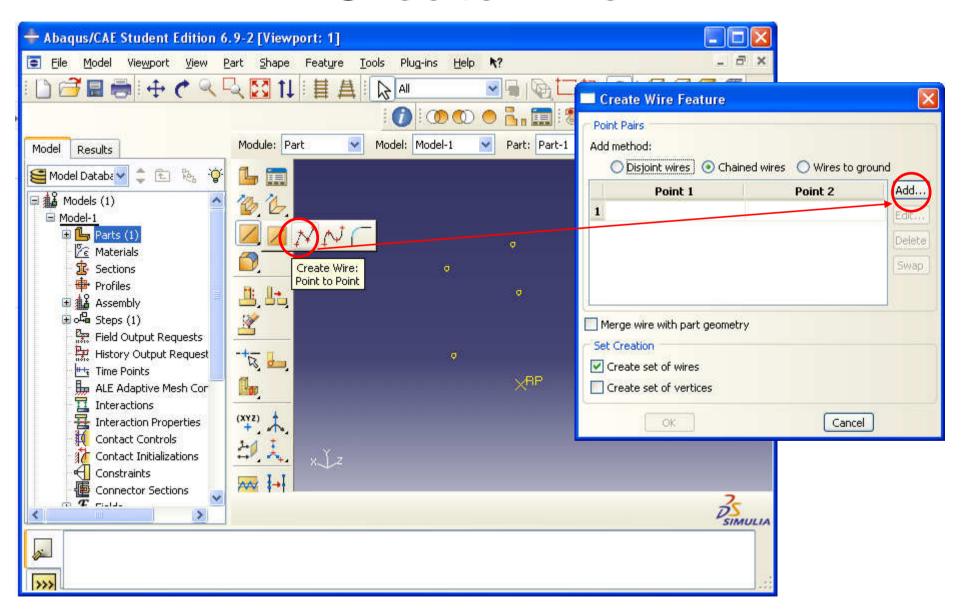
ABAQUS Beams



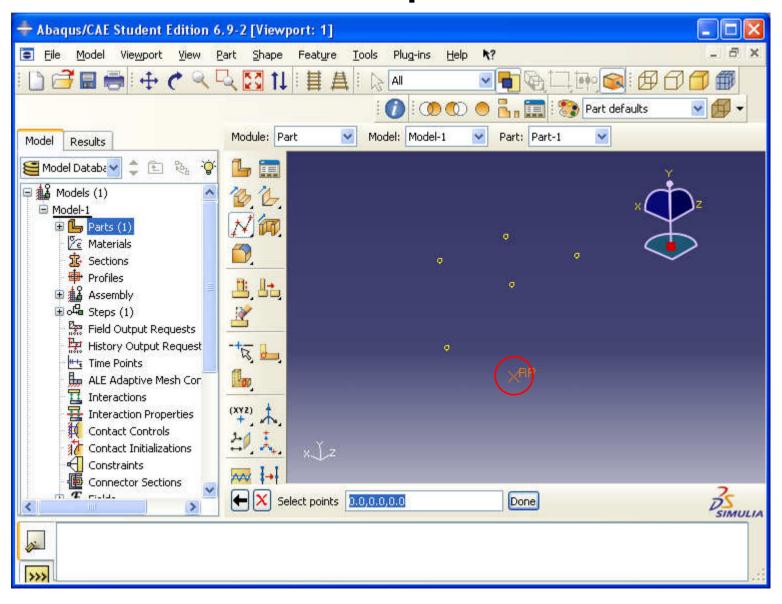
Geometry nodes



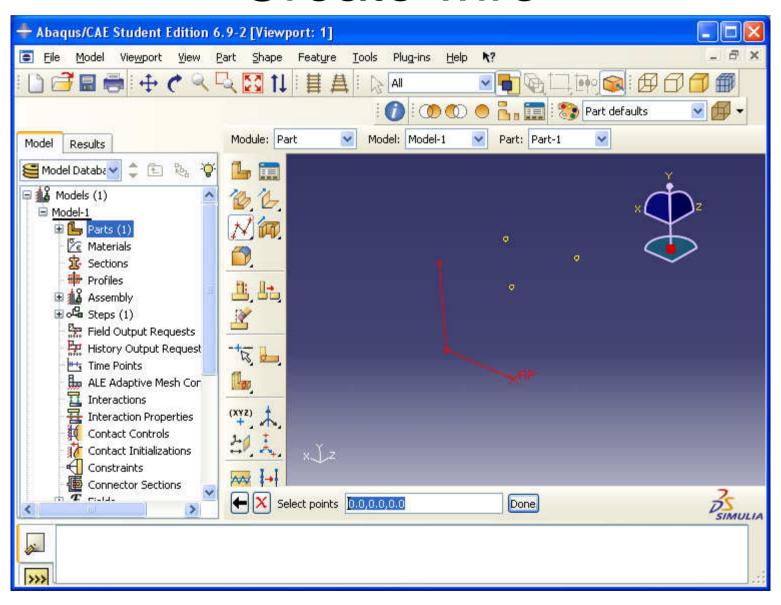
Create wire



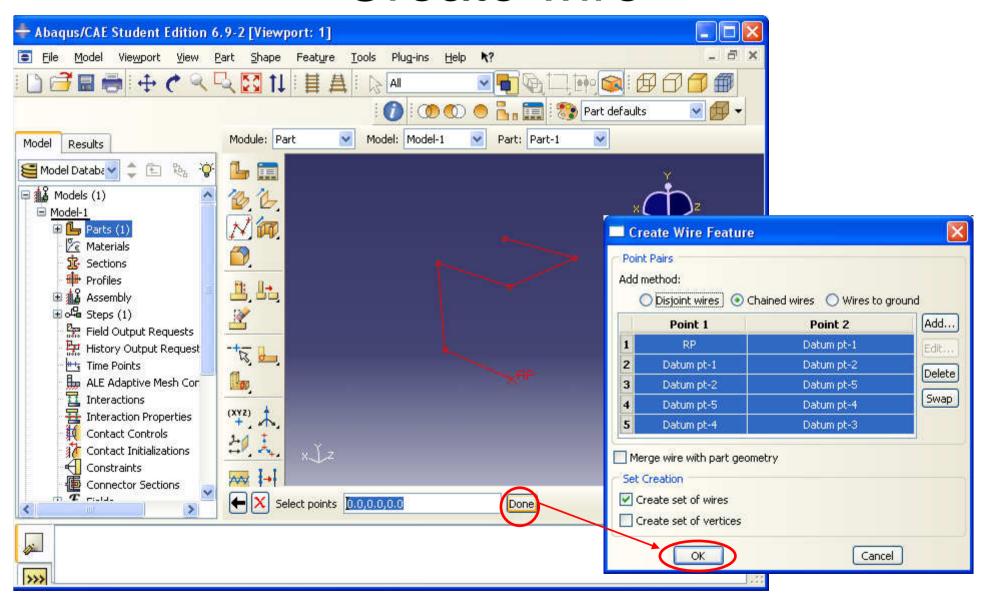
First point



Create wire



Create wire

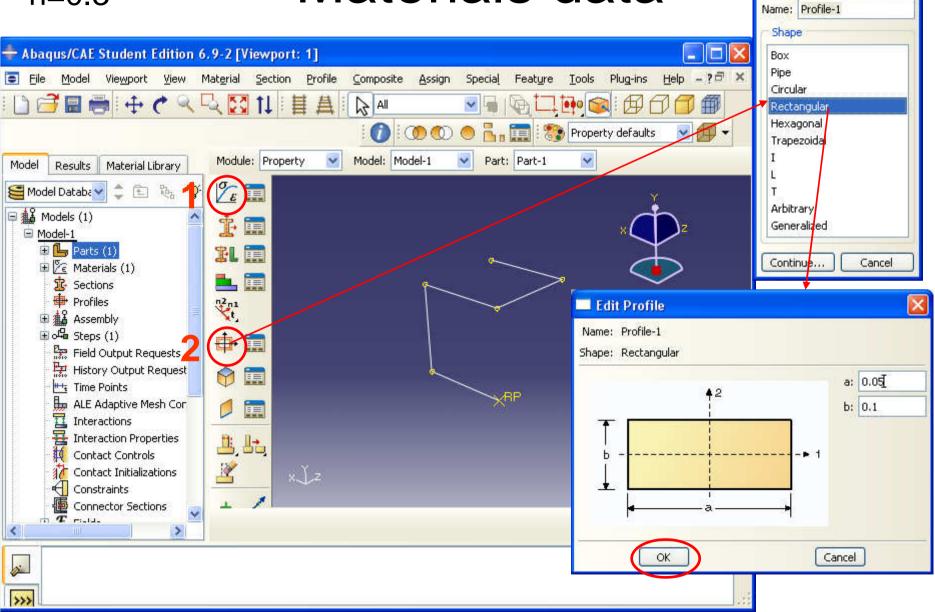


E=200GPa

n=0.3



Create Profile



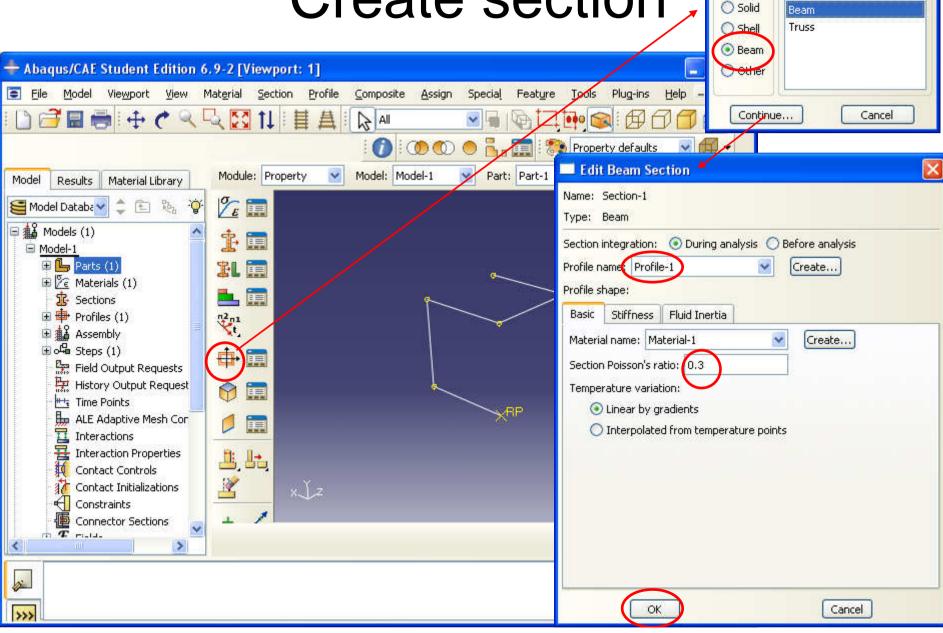


Create Section

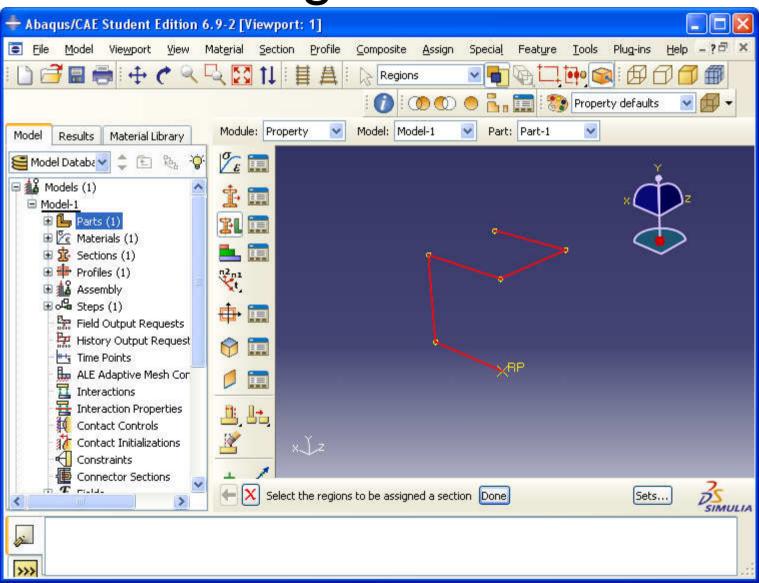
Type

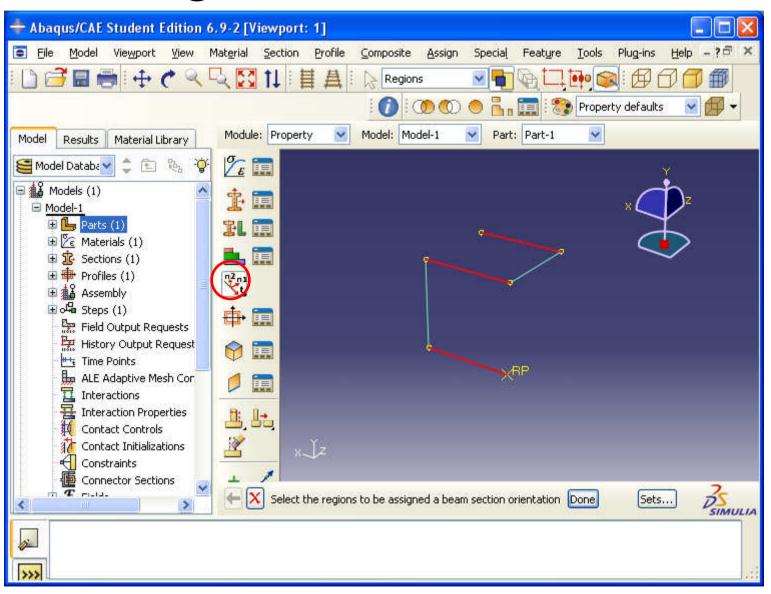
Name: Section-1

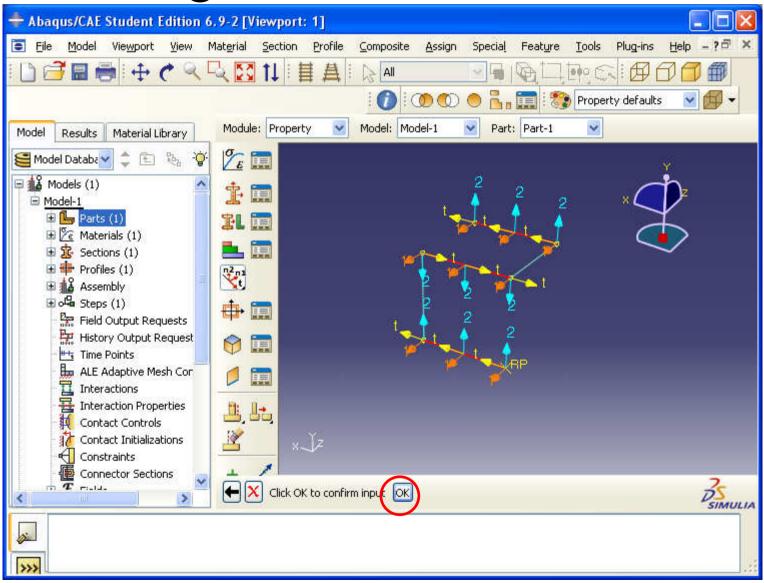
Category



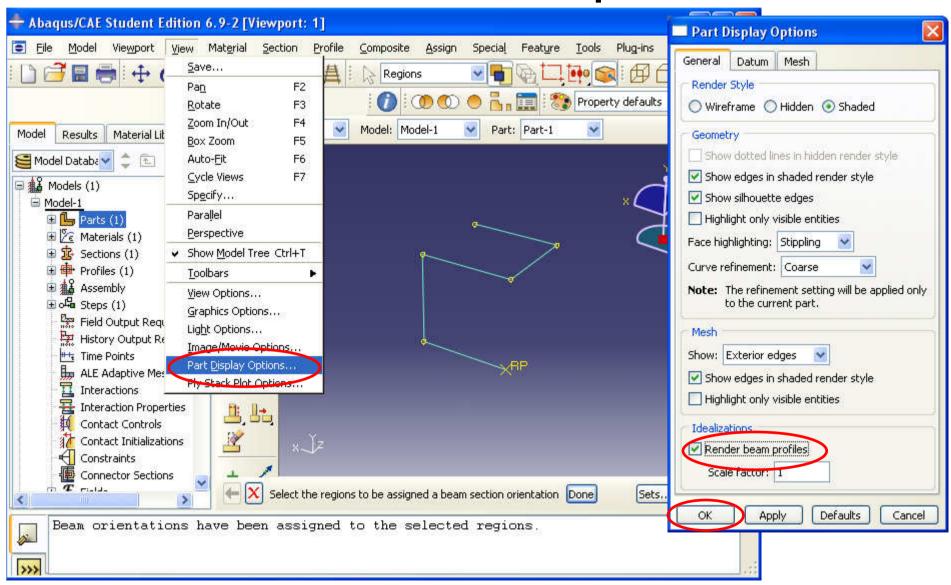
Assign section

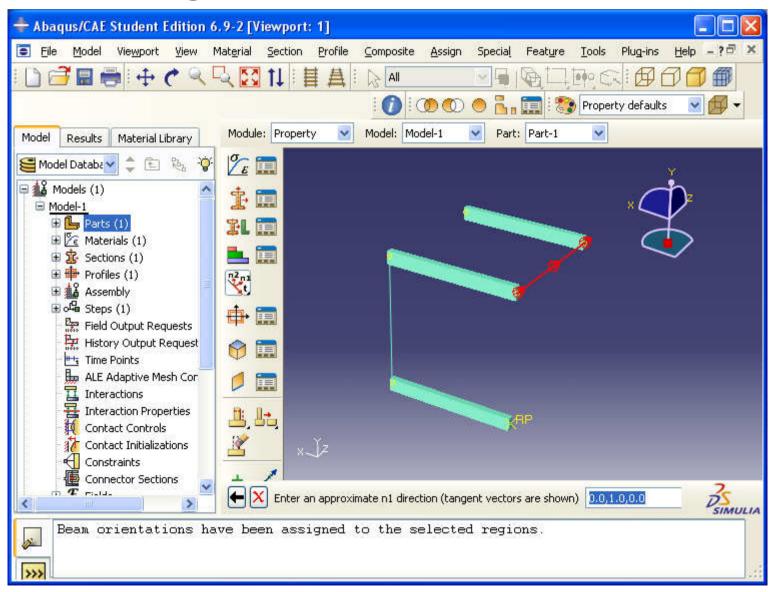


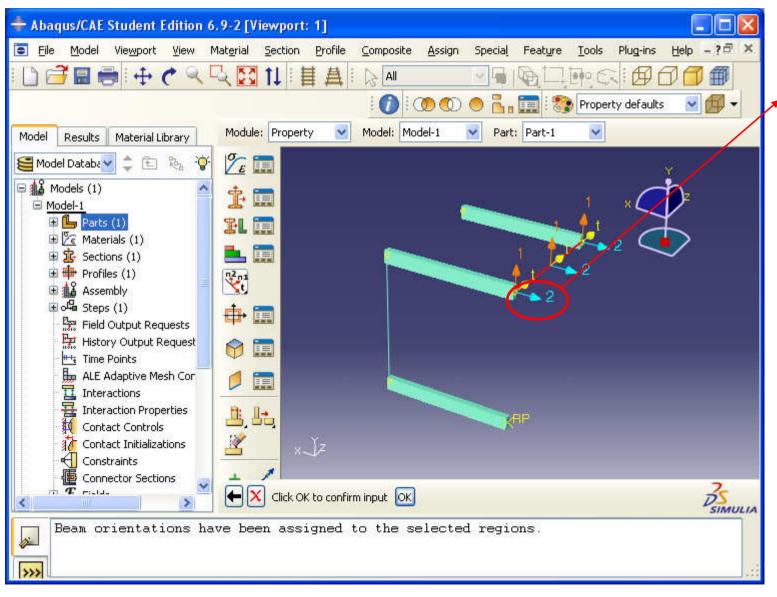




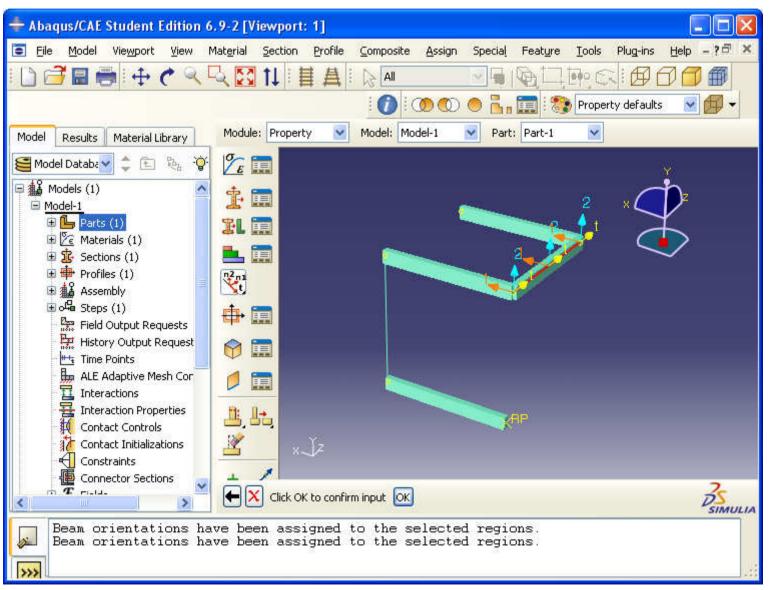
Render beam profile



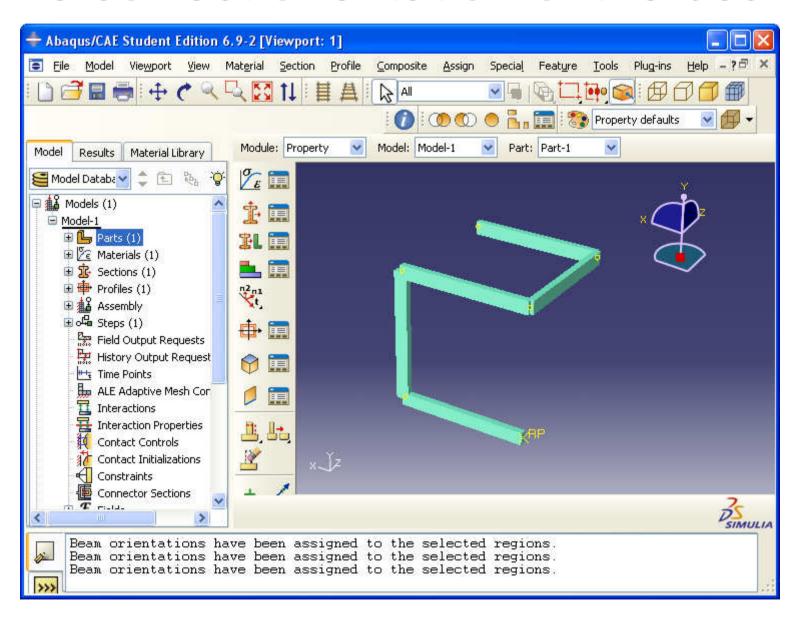




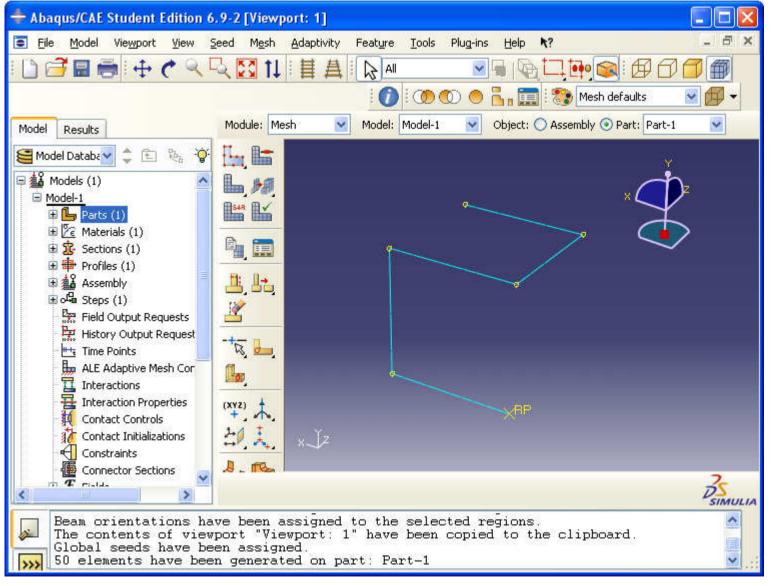
The main direction of the beam is not correctly set, in this case



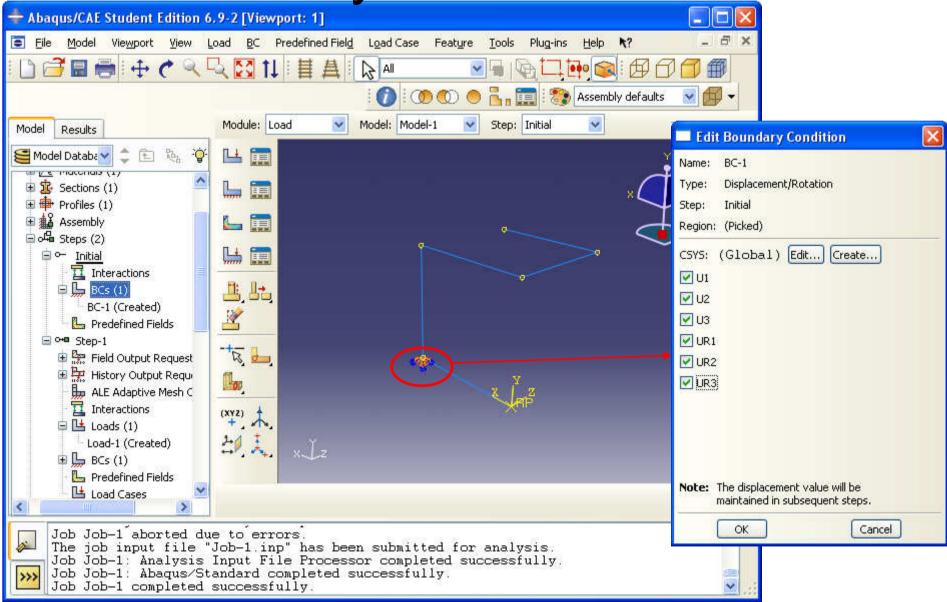
The correct orientation of the beam



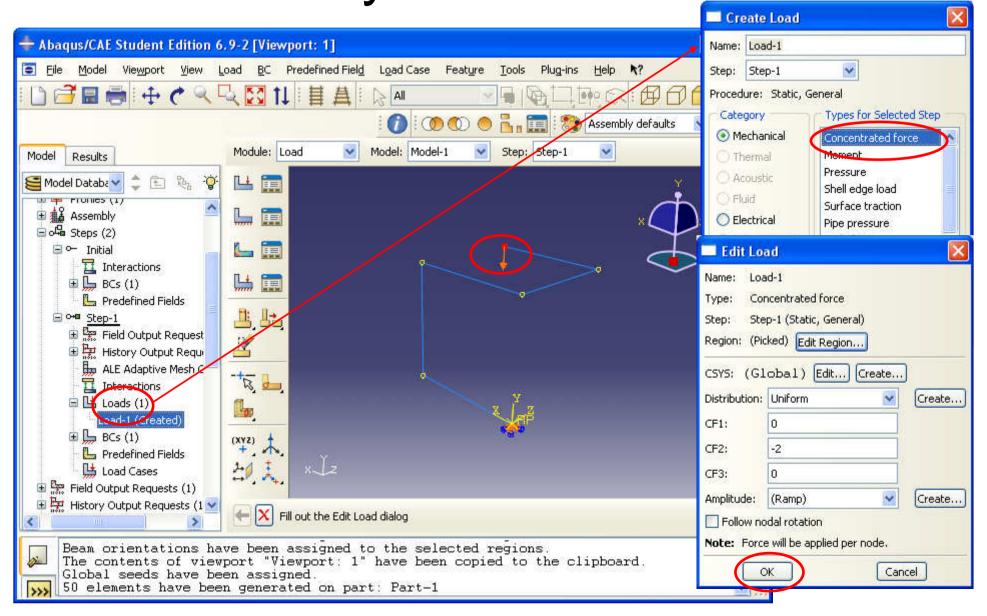
Mesh creation



Turn off beam rendering go to mesh module and apply grid Boundary conditions - fixed



Boundary conditions - fixed



Results

