

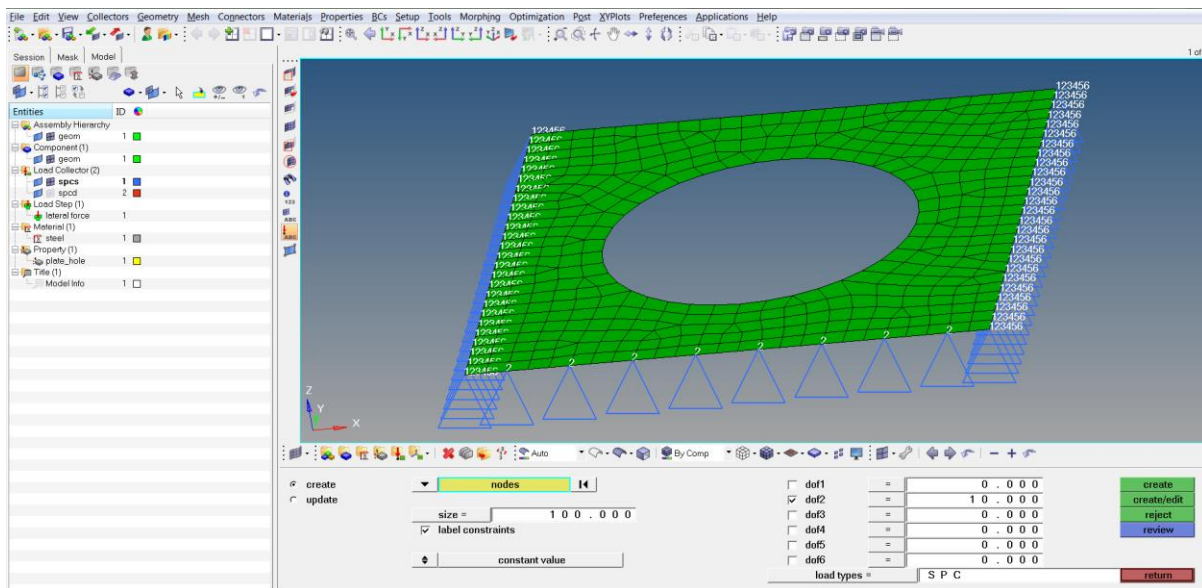
Tip - How to apply enforced displacements correctly

Product: HyperMesh, Optistruct
 Product Version: HW10.0 and above
 Computer Operating System:
 Windows: x86_32, x86_64.
 Linux RHEL 5.4& SLED11: x86_32, x84_64
 Mac OS x 10.6: x85_64.

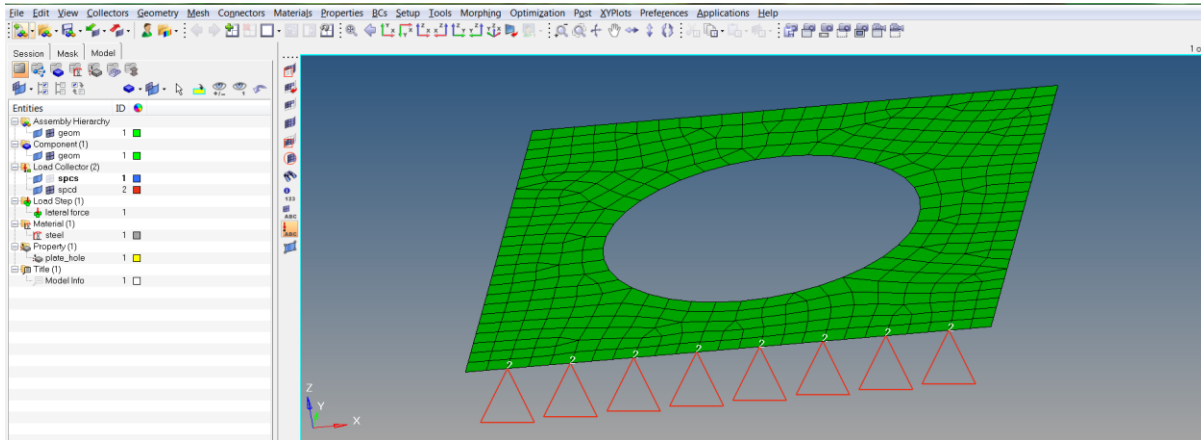
Topic Objective - To apply enforced displacements correctly

Topic Details -

The nodes that are constrained with spcd must also be constrained with spc with the same dof with the same enforced displacement value

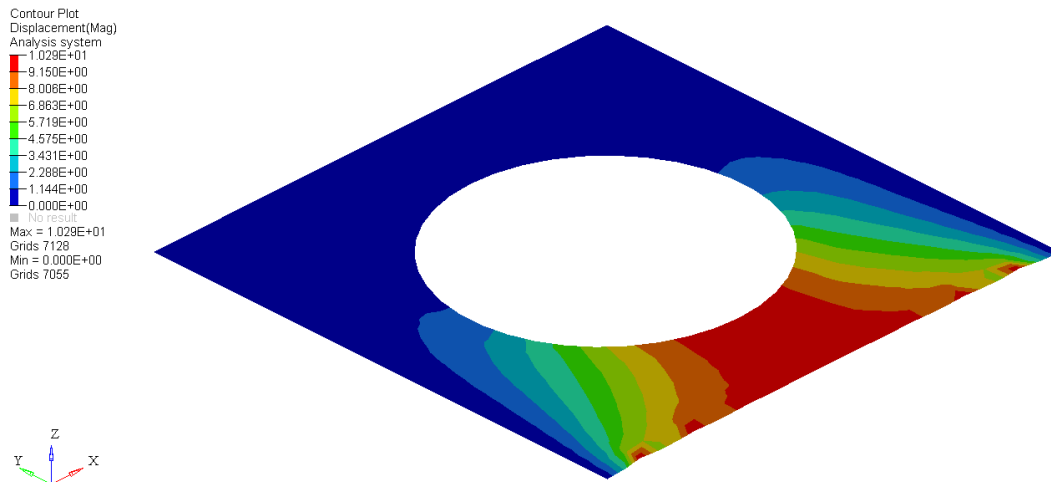
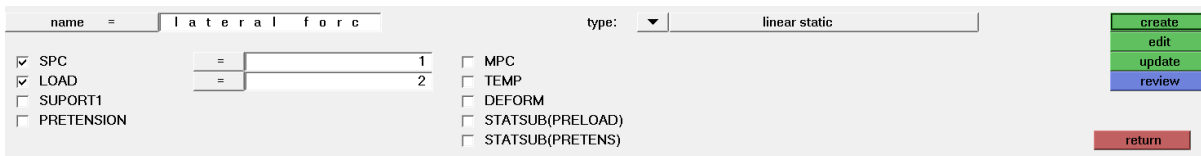


You can see only the spc loadcollector active in the above image

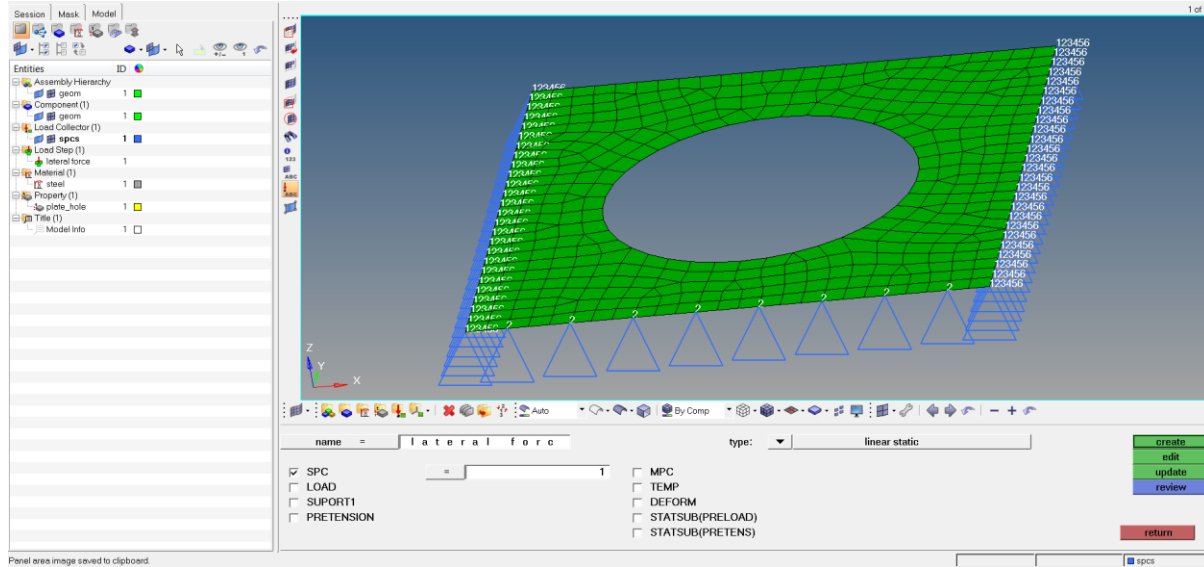


You can see only the spcd in the above image, so in this correct modelling we have the same nodes constrained the same way with spc and spcd.

The loadcase definition can be the same as below for correct results



Alternatively the SPCD constraints can also be placed in the same collector as the spc and referenced in the loadstep, the only point to remember is that the nodes with enforced displacement must have an spc and spcd definition. This will also give the correct results



Notice in the above image how the spc and spcd referring the nodes that require enforced displacement are placed in the same loadcollector called spcs and they are referenced only once as spc without any reference for load in the loadstep definition.