

#1290: OptiStruct – SPCD and DAREA cards for Dynamic Analysis

Product: OptiStruct

Product Version: OptiStruct 12.0 or above

Topic Objective

Use of SPCD and DAREA cards for Dynamic Analysis in OptiStruct

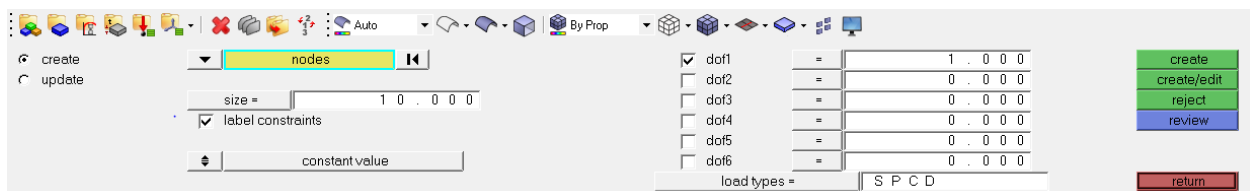
Topic Details

SPCD – Used for an enforced displacement, velocity or acceleration for dynamic analysis.

For any base motions excitation (ACC / DISP /VEL) you need to constrain the same node.

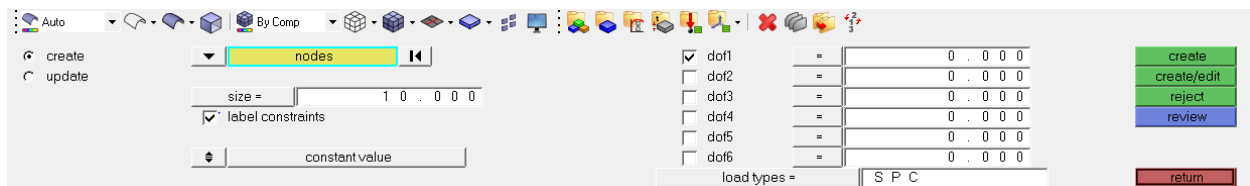
The enforced displacement /velocity/ Acceleration could be provided from Analysis: constraints with Type SPCD as in the snapshot below.

In the example below there is an enforced displacement along x-axis.



Please make sure there is an SPC pair if SPCD is defined on the same point/node.

For example: If SPCD is defined in x axis as above have an SPC with only dof1 checked as in snapshot below.



DAREA – Used for force excitation

Defines scale (area) factors for dynamic loads. In the example below there is a force excitation along x-axis.

