

#1238: OptiStruct - Normalized Constraint Violation Plot by Optimization run

Product: OptiStruct

Product Version: OptiStruct 2017.1 or above

Topic Objective

Normalized constraint violation plot by optimization run in OptiStruct

Topic Details

This output will be triggered by OUTPUT,HGHIST,n (n =>32) and contains the plot for response divided by its constraint bound.

- hist.mvw file has “Maximum Constraint Violation” plot but it does not give you an idea which response is violating the constraints.
- “Normalized Constraint Violation” is Response divided by its corresponding constraint bound. Such output is available for any constrained responses which are retained in any iteration during the optimization.
- Plot will have Max/Min Normalized Constraint Violation as well as the Normalized Constraint Violation at last iteration.
- OUTPUT,HGHIST,n (n =>32) will write out the normalized constraint violation plot in hist.mvw file.
- Each window has maximum of 32 response plot.
- If the number of responses to be plotted is less than or equal to 15, the label for each response will be automatically added.
- If the number of responses to be plotted is larger than 15, the user can hover the mouse to the response in the plot and the label will appear in HG.

