

## **Relative Disp.vbs**

### **Description**

Displacement results produced from an analysis are always absolute i.e. they refer to the initial/undeformed position of nodes. There are cases where relative displacements are more useful i.e. referring to another node of the mesh. This script calculates the relative displacements of all nodes in the model relative to a predefined node and for a range of loadcases. Results are written in Text Output Window.

To use this script:

1. Click 'File->Script->Run Script' and select the script file "RelDisp.vbs". Click OK.
2. Enter the reference node ID. Click OK.
3. Enter the First loadcase ID number you wish to calculate relative displacement for. Click OK.
4. Enter the Last loadcase ID number you wish to calculate relative displacement for. Click OK.

### **Notes**

1. THIS SCRIPT IS NOT PART OF LUSAS SOFTWARE AND AS SUCH IS NOT QUALITY APPROVED OR SUPPORTED. IT IS PROVIDED ON AN AS IS BASIS FOR DEMONSTRATION PURPOSES ONLY.
2. It is also beneficial to check absolute displacements using the 'Utilities->Print Results Wizard' to ensure that the calculated relative displacements these match the expected results.