

TIPS AND TRICKS

*Create custom plots for display in Workbench

In ANSYS Workbench, it is possible to create plots not accessible from the GUI, by using Commands objects and APDL commands. For instance, to create a plot of unaveraged stresses in Workbench, do the following:

- 1) Set up a stress analysis model in Workbench as usual.
- 2) Under Environment, do Insert > Environment Item > Commands In the Commands object, type OUTRES,ALL,ALL
- 3) Under Solution, do Insert > Environment Item > Commands Copy the following text and paste into the Commands object:

```
! Change background colour to white (reverse video) /rgb,index,100,100,100, 0
/rgb,index, 80, 80, 80,13 /rgb,index, 60, 60, 60,14 /rgb,index, 0, 0, 0,15
/gfile,500      ! Set image size
/graphics, power ! Switch on power graphics to display element shapes
/show,png      ! Change graphics mode to png
! Set deformation scale to Input Argument ARG1 under Details /dscale, 1, ARG1
/view,1, 1,1,1 ! Define isometric view
plesol, s,eqv  ! Plot von Mises unaveraged (element) stress
/view,1, 0.0,0.0,1.0 ! Change view to z-direction
plesol, s,eqv  ! Plot von Mises unaveraged (element) stress
! Return to standard graphics to avoid error messages /graphics,full /show
```

- 4) Mark the Commands object under Solution, and click Solve.
Two ANSYS Classic plots of unaveraged stress results appear in the model tree.
These plots can be saved or copied by right-clicking on them.