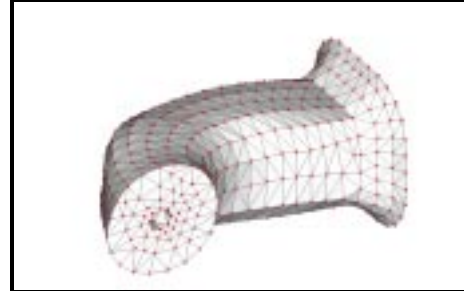


Restart, Partial Data Recovery



Objectives:

- Open up the problem saved from Workshop 35.
- Restart an analysis recovering only STRESS results, and compare the analysis time.

Model Description:

In the previous exercise, only the DISPLACEMENT results were retrieved in the analysis. In this exercise, we will restart an analysis and recover only element stress at critical areas, then compare the analysis times.

Remember, the only time you can RESTART is if you have kept the .DBALL and .MASTER files. You will notice that in the previous workshop, these files were saved because you requested this under the *Restart* button.



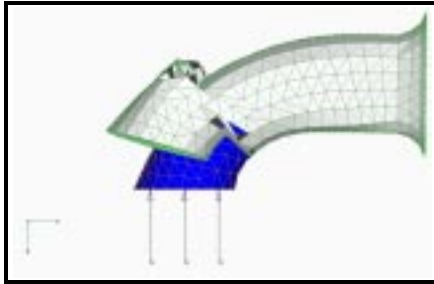
Exercise Procedure:

1. Start up MSC.Nastran for Windows V4.0 and open up the model from Workshop 35.

Double click on the icon labeled MSC.Nastran for Windows V4.0.

File name:

Figure 36.1 - Model saved from the previous exercise



2. Run an analysis using the "restart" function and recover only STRESS results.

File/Export/Analysis Model...

File name:

Remember to select Run Analysis.

Run Analysis

Restarts...

- Restart Previous Analysis

Click on the file cold_start.MASTER to enter the File name.

Advanced...

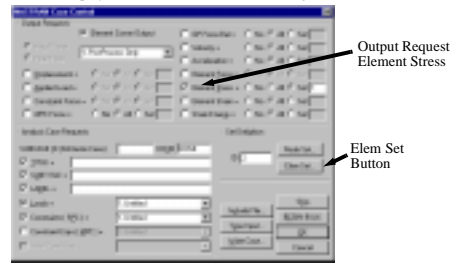
Set Definition:

Group: (pulldown)

**Turn off all Output Requests except Element Stress.

Element Stress ● Set

The display should be similar to the following menu.



"OK to Save Model Now?"

"OK to read solid element corner stresses?"

When the MSC.Nastran Manager is through running, MSC.Nastran will be restored on your screen. The Message Review form will appear. If the analysis ran successfully without any fatal errors, continue.

3. Check how long the analysis took to run and make a note of it.

Open the corresponding .f04 file in Windows Notepad and scroll to record the last entry in the CPU SEC of the analysis. (The "first".f04 file from the previous analysis will be renamed .f04.1.)

CPU SEC _____

4. View the results of the analysis.

View/Select... <F5>

Deformation Style: ● None - Model Only

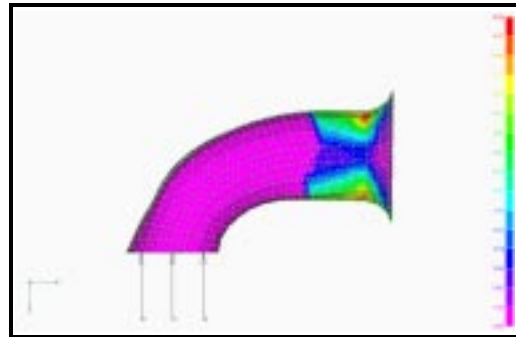
Contour Style: ● Contour

Output Set: (pulldown)

"Output Vector 1 Does Not Exist."

Contour: (pulldown)

Figure 36.2 - Contour plot



For this analysis, we requested N4W to show stress on Group 3, stress_output.

This concludes the exercise.

File/Save

File/Exit

