

Oasys



Oasys GSA

Result Import

Oasys

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Oasys GSA

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GSA Result Import

Normally GSA is used to build and analyse models, but on occasions it is useful to bring results into GSA which may have been generated in some other program. This can be done with the Import | Results command, which uses a GWA format and requires some keywords to create a dummy analysis tasks and cases.

Required keywords

The file should contain a TASK record. This should be set to type generic e.g.

```
TASK → <task> → <name> → <stage> → GENERIC
```

The **GENERIC** option tells GSA that this is a generic case which it cannot analyse.

Then for each analysis case an ANAL record

```
ANAL → <case> → <name> → <task> → R#
```

The **R#** option tells GSA that this is a response case and gives the case number.

Supported keywords

Once these headers are defined the rest of the file can be a GWA file with results. The following keywords can be included:

| | |
|---------------|-------------------------|
| DISP | nodal displacements |
| ROTN | nodal rotations |
| DISP_ELEM | element displacements |
| ROTN_ELEM | element rotations |
| FORCE | 0D/1D element forces |
| MOMENT | 0D/1D element moments |
| FORCE_2D | 2D element forces |
| MOMENT_2D | 2D element moments |
| SHEAR_2D | 2D element shear forces |
| STRESS_2D | 2D element stresses |
| STRESS_3D | 3D element stresses |
| REACT_FORCE | nodal reaction forces |
| REACT_MOMENT | nodal reaction moments |
| TOTAL_FORCE | total forces |
| TOTAL_MOMENT | total moments |
| GLOB_ENERGY | global energy |
| MAT_ENERGY | material energy |
| STRAIN_ENERGY | element strain energy |