

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. This 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