

Code_Aster

Purpose: Finite Element Analysis

Latest version: 14.4

Licence:  Free of use

GNU GPL [_ext-link](#)

Website: <https://code-aster.org/>
[_ext-link](#)

Code_Aster is a computer-assisted engineering suite, with a focus on finite element methods.

The core of Code_Aster is a finite element solver for structural analysis, with additional programs for thermal flows, linear and non-linear static and dynamic analysis, fatigue, damage and fracture tools and multi-physics coupling. A companion open source pre- and post-processor, Salome, is also available.

SLURM Submit script example

More information about the submit script can be found using the *Job Script Generator*.

aster_example.slm

```
#!/bin/bash
#SBATCH -J aster_example
#SBATCH -e aster_example.err
#SBATCH -o aster_example.out
#SBATCH -p std
#SBATCH -n 12
#SBATCH -t 0-02:00

module load apps/code_aster/13.4

# Execute Code Aster here
```

Sbatch options:

The options shown in the example are detailed below. For more information and a more comprehensive list of available options, see the *sbatch command page*.

- **-J:** Name for the job's allocation.
- **-e:** Name of the stderr redirection filename.
- **-o:** Name of the stdout redirection filename.
- **-p:** Name of the partition (queue) where the job will be submitted.
- **-n:** Number of tasks.
- **-c:** Number of cores per task.

- **-t:** Set the job's time limit. If the job don't finish before the time runs out, it will be killed.
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