Job Dependencies

This pages describes the SLURM dependency feature.

This feature is used when you need to chain jobs, due to dependencies. For example:

- A preprocessing job with 1 core should be followed by a simulation with 16 cores. The results should be post-processed with a single main job.
- A post-processing job must be sent after all tasks in a job matrix are completed.

Usage

The dependent job must be launched using the sbatch command by specifying the --dependency=<type>:command by specifying the sbatch command by specifying the sbatch command by specifying the sbatch command by specifying the specific s

- after: the job is launched after the first job enters into execution, i.e. it is RUNNING.
- · afterok: the job is launched after the first job has been successfully completed.
- afterany: the job is launched after the first job has finished, regardless of whether it has failed or not.
- afternotok: the job is launched after the first job has finished on failure.
- aftercorr: a job in an array of jobs can start executing after the ID of another job in the array has been successfully completed.
- singleton: the job can start running when any other job with the same name and from the same user has finished.

Example:

```
sbatch --dependency=afterok:111111,111112 my_job_script.sh
```

The underlying job (on which this job depends) must be submitted first. The related job ID can be captured by collecting the output of the sbatch command with the --parsable option:

first_jobid=\$(sbatch --parsable my_first_job.sh)



more information, check the oficial documentation