

IBG Research Computing Cheatsheet

Monitoring Slurm and Job Activity

View your running jobs:

View your completed jobs:

Measure performance of completed jobs:

The following flags can be combined to suit your needs

Display jobs completed since a particular date

```
sacct -S <MMDD>
```

Display jobs' timing and memory usage

```
sacct -o 'jobid%20,jobname%16,state,elapsed,maxrss'
```

View available nodes and their properties:

```
sinfo --Node -o "%.12N %.16P %.11T %.4c %.13C %.8e /%.8m %.30f"
```

- NODELIST is the name of the node, can be specified when submitting via `-nodelist`
- PARTITION is the name of the partition. You likely will never need to use this unless you want a particular partition of the preemptable queue
- STATE - mixed means that some of the CPUs are in use (see below)
- CPUS(A/I/O/T) - on a given node: allocated/idle/other/total nodes
- FREE_MEM / MEMORY free memory / total memory in MB (divide by 1024 to convert to GB)

Example jobs

Interactive session

Preemptable job

Job array with single index

Job array with multiple indices

Useful links

- Batch scheduling and Summit specifications
- Blanca resources

Modifying this README

Do not directly modify this document directly. Instead modify `ibg_rc_cheatsheet.md` and run `compile.sh` to add TOC and create printable version. This will also update the README displayed on github. You might need to make `gh-md-toc` executable via `chmod a+x gh-md-toc` and you definitely will need to install pandoc. TOC generation powered by github-markdown-toc