Partitions and Accounting

This page explains the partitions available to users and the accounting for each partition. This page assumes knowledge on partition usage and how to submit a job using SLURM. Please refer to the HPC user guide for a general introduction to these topics.

partitions

Compute nodes are grouped into partitions in order to allow the user to select different hardware to run their software on. Each partition includes a subset of nodes with a different type of hardware and a specific maximum wall time.

The partitions can be selected by users via the SLURM option:

```
#SBATCH --partition=<partition name>
```

or its short form:

```
#SBATCH -p <partition name>
```

The partitions available on Grid.UP are summarised in the table below. For details of the different hardware available on each node, please look at the Grid.UP hardware page.

Partition name	Node type	Smallest possible allocation	Max wall time	Notes
batch	thin compute nodes	1 cores + 500 MB memory	5 days	default partition for small jobs
big	> 16 cores	16 cores + 16 GB memory	7 days	only for jobs with > 16 cores or GPU
cfp	restricted	1 core + 1 GB memory	28 days	exclusive for cfp registered users
lsrelcm	restricted	1 core + 1 GB memory	28 days	exclusive for lsre/lcm registered users

accounting

<tbd>