What is running on cluster, where? interpreting slurmtop
Running jobs on the Prince Cluster

Accessing the Prince Cluster
- From Windows workstation
- From Mac workstation

Software and Environment Module
- Job script and resource request
- Introduction to job scheduling
- Submitting jobs with `sbatch`
- Requesting resources
- Using computing nodes interactively

Monitoring batch jobs
- Monitoring batch jobs - `squeue`
- What is running and where? `slurmtop`

Canceling your jobs

Compiling your own software

Putting all pieces together
- An Amber example
- A R example

Summary

The program `slurmtop`, available on the login nodes, shows which jobs are currently running on which nodes and cores of a cluster.

Jobs belonging to a single user can be highlighted by launching `slurmtop` with the `-u` switch:

```
slurmtop -u <NetID>
```

(of course, replace `<NetID>` with your NYU NetID). Or, you can use the alias "me":

```
slurmtop -u me
```

When you start `slurmtop` you see something like the annotated screenshot below. You might need to resize your terminal to make it all fit:
What hardware is available?

You can use slurmtop to see which nodes are busy and which are free. Knowing what resources are available on a given node can help in estimating how busy is that part of the cluster that your job needs.

Node types we have, and where they appear in slurmtop, are:
28 cores, 125 GB

28 cores, 250 GB

20 cores, 62 GB

4 cards each GPU node