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## 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`
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:
Exercise
Start `slurmtop` and find your interactive session.

You'll probably need to use `slurmtop -u me` to identify your job amongst all the colors.

You'll probably also need to increase the size of your terminal window and decrease the font size so it all fits!

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: