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Accessing the Prince Cluster

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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
You can compile, edit scripts and view results on the login nodes, but **computational work should be run on the compute nodes**

- You can access compute nodes with `srun`
  - Either via a job script, or interactively
  - Compute nodes are allocated to jobs by the scheduler, so your job might not start immediately
  - Jobs must request resources, but mostly need not specify a queue.
  - Requesting just slightly more than when you expect to need is generally the best practice
  - **Short jobs get higher priority, and short or small jobs are easier to schedule quickly**

- You can monitor your job's progress with `squeue`, `sstat`, `sacct`, `scontrol` or `slurmtop`

- Software is managed by Environment Modules
  - Use `module avail` to find software packages
  - And `module load` to load them into your environment
    - including within job scripts!
  - Use `module purge` to return to a clean environment before loading a new set of modules
  - Other useful commands are `module list` and `module show`