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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
- What is running and where? slurmtop

### Canceling your jobs

### Compiling your own software
• 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`