Summary of the tutorial

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Running jobs on 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`