Tutorial 2 Summary

Tutorial 2:
HPC at NYU

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Prequel: preparing your workstation for the HPC access (and this tutorial)

Accessing software with Environment Modules

Job scripts and how to reserve resources

Introduction to job scheduling

Submitting a job with qsub

Requesting resources

Requesting GPUs

Using compute nodes interactively
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 `qsub`
- 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 `qstat` or `pbstop`

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'