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**Prince How-to Articles**

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- Mac / Linux

**Clusters and Storage**

- Prince (HPC)
- Dumbo (Hadoop)
- Dalmatia (NYU Abu Dhabi)

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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`