### 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

**Using compute nodes interactively**
When the job completes, you will see some files in the directory you submitted from with names like `jobname.o12345` and `jobname.e12345`. These are the stdout and stderr (respectively) from your job. (Unless it was an interactive job).

You can change what output you get, and where, with the following `qsub` options:

```
While your job is still running, stdout and stderr are "staged" in your home directory, under the hidden directory ".pbs_spool".

If your job will produce a lot of stdout, and/or you want to monitor it, consider redirecting the output of your main command to a file, for example:
```
#!/bin/bash
#PBS -l procs=1
#PBS -l walltime=20:00
#PBS -l mem=2gb
cd $SCRATCH/my_run_dir
./my_model > output.txt