

YCRC Command Cheatsheet

Enter an interactive session:

→ `srun -p interactive -pty bash`

Load a module:

→ `module load <modulename>`

List available modules:

→ `module avail`

→ `module spider`

Search for a module:

→ `module avail <modulename>`

→ `module spider <modulename>`

View your running jobs:

→ `squeue -u <netid>`

Run a graphical application:

→ `ssh -Y <clustername>.hpc.yale.edu`

→ `srun -pty -Y <clustername>` [*Starts an interactive session*]

Run a batch file:

→ `sbatch <batchname>`

Copy a file from your desktop to the cluster (on Linux and MacOS):

→ `scp <filename> <netid>@<clustername>.hpc.yale.edu:<directory>`

→ Example:

→ `scp myfile.txt ra359@grace.hpc.yale.edu:/home/fas/admins/ra359/test`

→ Places a copy of myfile.txt from the current directory on your desktop on the /home/fas/admins/ra359/test directory of the Grace cluster

sbatch -N, -n, and -c flags:

- -n specifies the amount of tasks, -c specifies the amount of cpus per task, and
- N restricts a job to a certain amount of nodes

Job descriptions:

- sacct -j <jobid> | less -S

Cancel a job:

- scancel <jobid>

Specify a wall time (time limit):

- sbatch -t <time> <batchfile>
- Example:
 - sbatch -t 2- t.sh *[Gives t.sh a walltime of 2 days]*

Using Dead Simple Queue:

- module load dSQ
- dSQ -taskfile jobs.txt [slurm args] jobs.txt > run.sh
- sbatch run.sh

Example Batch Script:

```
#!/bin/bash
#SBATCH --mail-type=ALL
#SBATCH --mail-user=robert.bjornson@yale.edu
#SBATCH -t 3:00 # 3 minutes
#SBATCH --mem=10g

module load R

Rscript myscript.R
```