# HPC-101 - Cheatsheet

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## 1 Directory Navigation

cd < Directory>

Change to directory specified

ls < Path >

List the contents of the specified path

ls -l <Path>

This flag list the paths content in long form

ls -lh <Path>

Make the filesize humanreable

ls -a <Path>

Show hidden directories and files

# 2 SSH/SCP

- ssh < user > @ < host >
- ssh Y < user > @ < host >

Enable X11 forwarding

• scp <file> <user>@<host>:<remote path>

Copy a file to a remote location

• scp -r <dir> <user>@<host>:<remote path>

Recursivly copy a directory to a remote location

#### 3 SLURM

#### 3.1 Management And Monitoring

sbatch <slurm\_script>

Submit a slurm script to the scheduler for batch processing

sbatch -array=[#-#] <slurm\_script>

Submit a job array to the scheduler

srun

Used in submitting an interactive job, or also used within a slurm script

srun.x11

Used in submitting an interactive job, that also forwards the X, if you logged in while enabling X forwarding

• squeue

Display all jobs running or waiting on the cluster

• squeue -u<user>

Only display jobs for the specified user

sinfo

Display the partitions and nodes state

• scancel <jobid>

Cancel the specified job

### 3.2 Details and Profiling

scontrol show jobid <jobid>

Show job details of a waiting or running job

scontrol show parition cpartition name>

Show details of the specified partition

scontrol show node <node name>

Show details of the specified node

sacct -l -j <jobid>

Show usage details of a job

sacct -u <user>

Show all jobs from a given user

### 4 Miscellaneous

#### 4.1 Commands

less <file>

Show contents of file
Navigate using up/down arrow keys,
spacebar, or pageup/pagedown keys
Press 'q' to exit out of less

less -S < file >

Show contents of file without line wrap Navigate using up/down arrow keys, spacebar, or pageup/pagedown keys Press 'q' to exit out of less

# 4.2 Operators

Pipe operator is used between two commands, in which you wish to pass the output of the 1st command to the input of the 2nd command

 $Ex. sacct -l -j 467 \mid less -S$ 

#### 4.3 Hosts

login-0001 – uhhpc1.its.hawaii.edu

login-0002 – uhhpc2.its.hawaii.edu

#### 4.4 Globus Endpoints

login-0001 - hawaiiUHHPC1

login-0002 – hawaiiUHHPC2