Reference Sheet for Slurm

Command	What it does
sinfo	reports the state of partitions and nodes
squeue	reports the state of jobs in the batch queue
sbatch *script*	submits a job script
scancel *jobid*	cancels a pending or running job *jobid*
sacct	reports accounting information about active and completed jobs
srun	submits job for execution or initiate job steps in real time (used inside batch script)

Directive	Description
Partition	#SBATCH --partition=*partitionname* OR #SBATCH –p *partitionname*
Account	#SBATCH --account=*accountname* OR #SBATCH –A *accountname*
Wall time	#SBATCH --time=01:00:00 OR #SBATCH -t 1:00:00
Node count	#SBATCH --nodes=2 OR #SBATCH -N 2
Constraint	#SBATCH --constraint="c12" OR #SBATCH -C "c12"
Total tasks count	#SBATCH --ntasks=24 OR #SBATCH -n 24
Memory	#SBATCH --mem=24576 (NOTE: memory given in MB)
Mail options	#SBATCH --mail-type=FAIL,BEGIN,END
Mail user	#SBATCH --mail-user=user@mail.com
Job name	#SBATCH --job-name=*jobname* OR #SBATCH –J *jobname*
Stderr	#SBATCH -e slurm-%j.err-%N (where %j is job number and %N is first node name)
Stdout	#SBATCH -o slurm-%j.out-%N

Useful Slurm Aliases that provide information in a useful manner for our clusters

Bash:

```
alias si="sinfo -o \"%20P %5D %14F %8z %10m %10d %11l %16f %N\""
alias sq="squeue -o \"%8i %12j %4t %10u %20q %20a %10g %20P %10Q %5D %11l %11L %R\""
```

Tcsh:

```
alias si 'sinfo -o "%20P %5D %14F %8z %10m %11l %16f %N"'
alias sq 'squeue -o "%8i %12j %4t %10u %20q %20a %10g %20P %10Q %5D %11l %11L %R"'
```

To slurm commands such as squeue, sinfo (and si, sq) can add –M all to see all clusters

Can also submit to any cluster from nodes on a different cluster by using full path, e.g., from kingspeak you can submit a job to notchpeak by using /uufs/notchpeak.peaks/sys/pkg/slurm/std/bin/sbatch