

SLURM batch environment

sbatch : to submit a job
squeue : to list jobs
scancel : to cancel job

Sample job script:

```
#!/bin/bash
#SBATCH -J jobname           # job name
#SBATCH -o jobname.o%j      # output and error file name (%j expands to jobId)
#SBATCH -N 1                 # total number of nodes requested
#SBATCH -n 16                # total number of mpi tasks requested
#SBATCH -t 00:30:00         # run time (hh:mm:ss) - 1.5 hours
#####SBATCH --gres gpu     # uncomment to use GPU

module list
module load <software>
echo number of nodes = $SLURM_NNODES
echo number of cores = $SLURM_NTASKS
echo node names = ${SLURM_NODELIST}

mpirun -n $SLURM_NTASKS <mpi-program>
```

