FSU | RESEARCH COMPUTING CENTER
INFORMATION TECHNOLOGY SERVICES

Sample Slurm Script:

```
#!/bin/bash
#SBATCH --job-name='my-job'    # <- Job name
#SBATCH -n 32                  # <- Request 32 cores
#SBATCH -t 2-04:30:00          # <- Max runtime: 2 days, 4.5 hours
#SBATCH -A genacc_q            # <- genacc_q Slurm account
#SBATCH --mem-per-cpu=3.9G     # <- Allocate memory per CPU
#SBATCH -N 1                   # <- Request 1 compute node

module load gnu                # <- Load the enviroment module
srun <my_executable>           # <- Run the executable
```

Slurm Script Generator: https://manage.rcc.fsu.edu/ssg
Official Slurm website: https://slurm.schedmd.com/sbatch.html
FSU documentation: https://docs.rcc.fsu.edu/hpc/slurm-job-reference/

Submitting Jobs

Submit a job to the Slurm Scheduler:

```
$ sbatch myscript.sh
Submitted batch job 1234567
```

Check all job status (pending or running)

```
$ squeue --me
```

Cancel job:

```
$ scancel 1234567
```

View running job status:

```
$ sstat -j 1234567
```

General Access Slurm Accounts / Queues / Partitions

Name	Max Job Time	Purpose
genacc_q	14 days	Default account
condor	90 days	Long jobs / No MPI
backfill	4 hours	Short Jobs
backfill2	4 hours	Preemption Enabled
quicktest	10 min	For quick testing

Useful Commands

Connect to the HPC

```
$ ssh <FSU_ID>@hpc-login.rcc.fsu.edu
```

Display user & volume storage

```
$ rcctool my:storage
```

View my recent & current jobs

```
$ rcctool my:jobs
```

View my Slurm accounts / queues / partitions

```
$ rcctool my:partitions
```

Display node states in a Slurm account / queue / partition

```
$ rcctool my:partitions <partition> --nodes
```

Efficiency statistics for completed jobs

```
$ seff <job_id>
```

Display detailed job info (any job status)

```
$ rcctool job:inspect <job_id>
```

List all 'rcctool' commands

```
$ rcctool list
```

Job States

Code	State	Meaning
PD	Pending	Waiting for resources to become available.
CF	Configuring	Job is being set up on compute nodes.
R	Running	Job is currently executing.
CG	Completing	Job is wrapping up and cleaning resources.
PR	Preempted	Job was suspended to prioritize another job.
S	Suspended	Job was manually or system-suspended.
TO	Timeout	Job exceeded the time limit and was terminated.
F	Failed	Job encountered an error and failed.
NF	Node Failed	Node failure caused job to stop.
CA	Cancelled	Job was manually or automatically cancelled.

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