

Peer Scheduling

Cheyenne will gain three new queues which will furnish jobs over to Casper

- htc
- vis
- gpgpu

Casper will gain the following queue which will furnish jobs over to Cheyenne

- Cheyenne

- Resources for job placement
 - ngpus
 - number of gpus to use in the job
 - cpu_type
 - Type of cpu you would like (broadwell, cascadelake, skylake, and eventually milan)
 - gpu_type
 - Type of gpu you would like to use (gp100, v100, and eventually a100)

These resources need to be used even on Cheyenne when requesting jobs on Casper.

```
qsub -q gpgpu -l select=1:ncpus=1:mem=100GB:ngpus=2 -l gpu_type=v100 <job_script>
```

```
qsub -q gpgpu -l select=1:ncpus=1:mem=100GB:ngpus=2 -l gpu_type=v100 -l  
cpu_type=cascadelake <job_script>
```

```
qsub -q htc -l select=4:ncpus=16:mem=200GB <job_script>
```

```
qsub -q cheyenne -l select=8:ncpus=36:mem=60GB <job_script>
```

Peer Scheduling

