University of Minnesota
Center for Magnetic Resonance Research
Standard Operating Procedure

C123-04 - Parallel Processing with SGE / CUDA

Initialize your account to use SGE

Add this to your .cshrc

```
if ( -f /opt/local/bin/setup.sge.csh && -d /opt/sge ) then
  source /opt/local/bin/setup.sge.csh
end
```

Set up library paths to use the correct CUDA library

Add this to your .cshrc

```
setenv LD_LIBRARY_PATH /opt/local/cuda-6.5/lib64:/opt/local/cuda-5.5/lib64
```

Submit your jobs to a GPU queue

Choose the queue that best matches your job's needs.
gpu630.q - Queue with Nvidia GeForce GT630, 2Gb, 384 Cuda cores (atlas1-4)
gpu980.q - Queue with Nvidia GeForce GTX980, 4Gb, 2048 Cuda cores (atlas9)

For example:

```
echo "./myscript.sh" | qsub -cwd -q gpu630.q
```

Check your jobs

```
qstat
qstat -f
```

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