C123-03 - Parallel Processing with SGE

SGE = Sun Grid Engine
The Sun Grid Engine allows users to submit batch jobs to the servers. Any command line script can be submitted.
Jobs are generally submitted to a SGE queue
A SGE queue can contain a number of slots on several different servers.
SGE checks for submitted jobs and starts the next one on a machine that is not too busy.
SGE is recommended for large or repetitive processing.

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

Submit your jobs to a SGE queue
Choose the queue that best matches your job’s needs. Here are some general queues to use.
Ask your sponsor or help@cmrr.umn.edu if you don’t know which queue to use.

  atlas.q - submit to run on atlas1,2,3,4
  atlas678.q - submit to run on atlas6,7,8
  long.q, short.q, verylong.q, veryshort.q - fsl default queues

For example:
echo “./myscript.sh” | qsub -cwd -q atlas.q

Check your jobs
qstat
qstat -f

Delete your old/aborted jobs
qdel 999
Purpose
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<td>Brian Hanna / John Strupp</td>
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