

# Sample PBS Script for Columbia

## Category: PBS on Columbia

### Columbia Phase Out:

As of Feb. 27, 2013, the Columbia21, Columbia23, and Columbia24 nodes have been taken offline as part of the Columbia phase out process. Columbia22 is still available. If your script requires a specific node, please make the appropriate changes in order to ensure the success of your job.

```
#PBS -S /bin/csh
#PBS -N cfd
#PBS -l ncpus=4
#PBS -l mem=7776MB
#PBS -l walltime=4:00:00
#PBS -j oe
#PBS -W group_list=g12345
#PBS -m e

# By default, PBS executes your job from your home directory.
# However, you can use the environment variable
# PBS_O_WORKDIR to change to the directory where
# you submitted your job.

cd $PBS_O_WORKDIR

# For MPI jobs, there is an SGI MPT module loaded by default, unless you
# modify your shell start up script to unload it or switch to a different
# version. You can use either mpiexec or mpirun to start your job.

mpiexec -np 4 ./a.out < input > output

# It is a good practice to write stderr and stdout to a file (ex: output)
# Otherwise, they will be written to the PBS stderr and stdout in /PBS/spool
# which has limited amount of space. When /PBS/spool is filled up, any job
# that tries to write to /PBS/spool will die.

# -end of script-
```

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<http://www.nas.nasa.gov/hecc/support/kb/entry/196/?ajax=1>