PBS variables

PBS sets multiple environment variables at submission time. The following PBS variables are commonly used in command files:

Variable Name	Description
PBS_ARRAYID	Array ID numbers for jobs submitted with the -t flag. For example a job submitted with #PBS -t 1-8 will run eight identical copies of the shell script. The value of the PBS_ARRAYID will be a an integer between 1 and 8.
PBS_ENVIRONMENT	Set to PBS_BATCH to indicate that the job is a batch job; otherwise, set to
PBS_JOBID	full jobID assigned to this job. Often used to uniquely name output files for this job, for example: mpirun -np 16 ./a.out >output.\${PBS_JOBID}
PBS_JOBNAME	Name of the job. This can be set using the Noption in the PBS script (or from the command line). The default job name is the name of the PBS script.

Contains a list of the nodes PBS NODEFILE assigned to the job. If multiple CPUs on a node have been assigned, the node will be listed in the file more than once. By default, mpirun assigns jobs to nodes in the order they are listed in this file The value of the HOME variable in the environment in which gsub PBS_O_HOME was executed. The name of the host upon which PBS_O_HOST the qsub command is running. Original PBS path. Used with PBS_O_PATH pbsdsh. Queue job was submitted to. PBS O QUEUE PBS sets the environment variable PBS_O_WORKDIR to the directory PBS O WORKDIR from which the batch job was submitted Queue job is rnning in (typically PBS_QUEUE this is the same as PBS_O_QUEUE).

See an examples of PBS variable below:

```
#!/bin/bash -1
#
#PBS -1 nodes=1:ppn=16
#PBS -1 walltime=1:10:00
#PBS -j oe
#PBS -m ae
#PBS -M username@yourinstituion.edu
#PBS -q standard
```

Goto the directory from which you submitted the job
cd \$PBS_O_WORKDIR
/bin/cat \$PBS_NODEFILE

your job commmands
env
sleep 100