

User Commands	PBS/Torque	Slurm
Job submission	qsub [script_file]	sbatch [script_file]
Job deletion	qdel [job_id]	scancel [job_id]
Job status (by job)	qstat [job_id]	squeue [job_id]
Job status (by user)	qstat -u [user_name]	squeue -u [user_name]
Job hold	qhold [job_id]	scontrol hold [job_id]
Job release	qrls [job_id]	scontrol release [job_id]
Queue list	qstat -Q	squeue
Node list	pbsnodes -l	sinfo -N OR scontrol show nodes
Cluster status	qstat -a	sinfo
GUI	xpbsmon	sview

Environment	PBS/Torque	Slurm
Job ID	\$PBS_JOBID	\$SLURM_JOBID
Submit Directory	\$PBS_O_WORKDIR	\$SLURM_SUBMIT_DIR
Submit Host	\$PBS_O_HOST	\$SLURM_SUBMIT_HOST
Node List	\$PBS_NODEFILE	\$SLURM_JOB_NODELIST
Job Array Index	\$PBS_ARRAYID	\$SLURM_ARRAY_TASK_ID

Required	Not recommended
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Job Specification	PBS/Torque	Slurm
Script directive	#PBS	#SBATCH
Queue/Partition	-q [name]	<b>-p [name] *Best to let Slurm pick the optimal partition</b>
Node Count	-l nodes=[count]	-N [min[-max]]. <b>*Autocalculates this if just task # is given</b>
Total Task Count	-l ppn=[count] OR -l mppwidth=[PE_count]	-n OR --ntasks=ntasks
Wall Clock Limit	-l walltime=[hh:mm:ss]	<b>-t [min] OR -t [days-hh:mm:ss]</b>
Standard Output File	-o [file_name]	-o [file_name]
Standard Error File	-e [file_name]	-e [file_name]
Combine stdout/err	-j oe (both to stdout) OR -j eo (both to stderr)	(use -o without -e)
Copy Environment	-V	--export=[ALL   NONE   variables]
Event Notification	-m abe	--mail-type=[events]
Email Address	-M [address]	--mail-user=[address]
Job Name	-N [name]	--job-name=[name]
Job Restart	-r [y n]	--requeue OR --no-requeue
Working Directory	<i>Always starts in /home</i>	--workdir=[dir_name]. <b>*Probably /scratch or /projects</b>
Resource Sharing	-l naccesspolicy=singlejob	--exclusive OR --shared
Memory Size	-l mem=[MB]	--mem=[mem][M G T] OR --mem-per-cpu=[mem][M G T]
Account to charge	-A OR -W group_list=[account]	<b>--account=[account] OR -A</b>
Tasks Per Node	-l mppnppn [PEs_per_node]	--tasks-per-node=[count]
CPUs Per Task		--cpus-per-task=[count]
Job Dependency	-d [job_id]	--depend=[state:job_id]
Job host preference		--nodelist=[nodes] AND/OR --exclude=[nodes]
Quality Of Service	-l qos=[name]	--qos=[normal high ]
Job Arrays	-t [array_spec]	--array=[array_spec]
Generic Resources	-l other=[resource_spec]	--gres=[resource_spec]
Licenses		--licenses=[license_spec]
Job Enqueue Time	-a "YYYY-MM-DD HH:MM:SS"	--begin=YYYY-MM-DD[THH:MM[:SS]]