User Commands	SGE	Slurm
Job submission	qsub [script_file]	sbatch [script_file]
Job deletion	qdel [job_id]	scancel [job_id]
Job status (by job)	qstat -u * [-j 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	qconf -sql	squeue
Node list	qhost	sinfo -N OR scontrol show nodes
Cluster status	qhost -q	sinfo
GUI	qmon	sview

Environment	SGE	Slurm
Job ID	$JOB_ID	$SLURM_JOBID
Submit Directory	$SGE_O_WORKDIR	$SLURM_SUBMIT_DIR
Submit Host	$SGE_O_HOST	$SLURM_SUBMIT_HOST
Node List	$PE_HOSTFILE	$SLURM_JOB_NODELIST
Job Array Index	$SGE_TASK_ID	$SLURM_ARRAY_TASK_ID

Job Specification	SGE	Slurm
Script directive	#$	#SBATCH
Queue	-q [queue]	-p [queue]
Node Count	N/A	-N [min[-max]]
CPU Count	-pe [PE] [count]	-n [count]
Wall Clock Limit	-l h_rt=[seconds]	-t [min] OR -t [days-hh:mm:ss]
Standard Output FIle	-o [file_name]	-o [file_name]
Standard Error File	-e [file_name]	e [file_name]
Combine stdout/err	-j yes	(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 [yes|no]	--requeue OR --no-requeue (NOTE: configurable default)
Working Directory	-wd [directory]	--workdir=[dir_name]
Resource Sharing	-l exclusive	--exclusive OR--shared
Memory Size	-l mem_free=[memory][K|M|G]	--mem=[mem][M|G|T] OR --mem-per-cpu=[mem][M|G|T]
Account to charge	-A [account]	--account=[account]
Tasks Per Node	(Fixed allocation_rule in PE)	--tasks-per-node=[count]
CPUs Per Task		--cpus-per-task=[count]
Job Dependency	-hold_jid [job_id	job_name]	--depend=[state:job_id]
Job Project	-P [name]	--wckey=[name]
Job host preference	-q [queue]@[node] OR -q [queue]@@[hostgroup]	--nodelist=[nodes] AND/OR --exclude=[nodes]
Quality Of Service		--qos=[name]
Job Arrays	-t [array_spec]	--array=[array_spec] (Slurm version 2.6+)
Generic Resources	-l [resource]=[value]	--gres=[resource_spec]
Licenses	-l [license]=[count]	--licenses=[license_spec]
Begin Time	-a [YYMMDDhhmm]	--begin=YYYY-MM-DD[THH:MM[:SS]]