

Babraham Compute Cluster Cheat Sheet

qsub

Queues a task on a compute node without any interactive session links. Shell can be safely closed. Prints STOUT and STERR to files.

```
echo "fastqc test.fq" | qsub -cwd -V -l vf=2G -pe orte 8 -o $f.out -j y -N ${f}_fastqc -hold_jid sra_dump
```

-cwd	Use current directory. Without this will run job from home directory.
-V	Transfer loaded modules to compute node
-l vf=2G	Assign 2gb memory to job
-pe orte 8	Assign 8 cores to job
-p -1000	Set job priority, -1023 to 0. Avoid hogging the cluster.
-o [output.out] -j y	Write STOUT and STERR to output.out
-N [jobname]	Call job "jobname" in queue
-hold_jid [jobname]	Hold in queue until job "jobname" completes
-m eas -M [email address]	Send e-mail at <u>e</u> nd of job, or when <u>a</u> borted or <u>s</u> uspended

qrun

Queues a task on a compute node using an interactive session on the head node. Will die if the shell is closed. Returns STOUT and STERR to shell.

```
qrun -cwd -V -l vf=2G -pe orte 4 perl myscript.pl > output.txt &
```

qlogin

Starts a shell session on a compute node. Good for running interactive tasks, such as SeqMonk. Don't use for jobs. *Exit the shell before closing.*

```
qlogin -l vf=1G -pe orte 1
```

qstat

Shows current running and queued jobs

-f	Break summary up to show each compute node
-u "*"	Show jobs from all users
-r	Detailed view. Shows full job names.

qdel

Deletes a queued or running task. Job ID is in first column of information from qstat. **-u** flag deletes all jobs associated to username.

```
qdel [job id]
```

```
qdel -u [username]
```

qmon

Starts interactive GUI cluster manager