### Running jobs - setting priorities

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Jobs are submitted with the `qsub` command:

```
$ qsub options job-script
```

The options tell Torque information about the job, such as what resources will be needed. **These can be specified in the job-script as PBS directives, or on the command line as options, or both** (in which case the command line options take precedence should the two contradict each other). For each option there is a corresponding PBS directive with the syntax:

```
#PBS option
```

For example, you can specify that a job needs 2 nodes and 8 cores on each node by adding to the script the directive:
or as a command-line option to `qsub` when you submit the job:

```bash
$ qsub -l nodes=2:ppn=8 my_script.q
```

If you have several jobs in the queue, and would like certain of them to be prioritized over others, you can set the relative priority of a job by submitting it with:

```bash
$ qsub -p priority job-script
```

Here:

- `priority` is a number between -1024 and +1023. A higher number means higher priority. The default priority is 0.

This only affects the priority of a job relative to other jobs owned by you - it does not affect the priority of your job compared to any job belonging to a different user.

- `job-script` is the name of your job script

You can also pass `-p` as a PBS directive within your job script:

```bash
#PBS -p priority
```