

LSF quick reference

#BSUB directives

Set the name of the job:

```
#BSUB -J test_run
```

Set the number of cores/threads (total across the nodes):

```
#BSUB -n 1
```

Run all the processes on the same host:

```
#BSUB -R "span[hosts=1]"
```

Set the number of processors on each host:

```
#BSUB -R "span[ptiles=4]"
```

Set the required memory (in MB):

```
#BSUB -M 16000 directive.
```

Set the walltime (hh:mm):

```
#BSUB -W 00:10
```

Set the file for the standard output (%J replaced by the job ID.)

```
#BSUB -o test_%J.out
```

Set the file for the standard error (%J replaced by the job ID.)

```
#BSUB -e test_%J.err
```

Select the queue to put the job in:

```
#BSUB -q queue_name
```

History

Show the history of jobs:

```
$ bhist
```

Show the queue of the jobs submitted by me/all:

```
$ bjobs  
$ bjobs -u all
```

Resources

[🔗 LSF User Manual](#)

[🔗 LSF Terminology](#)

Submitting/Moving/Killing the job

Submit the job:

```
$ bsub < myprogram.sh
```

Move a job to another queue:

```
$ bmod -q queue_name JOB.ID
```

Suspend and resume a job:

```
$ bstop JOB.ID  
$ bresume JOB.ID
```

Kill the job:

```
$ bkill JOB.ID
```

Queues

Show the queues available to me/all:

```
$ bqueues  
$ bqueues -u all
```

Show the queue of the jobs submitted by me/all:

```
$ bjobs  
$ bjobs -u all
```