LSF Commands

This page covers the commands you will need to submit, and manage your jobs on the Lilac LSF queuing system. These are the commands you run from the command line to check on and monitor your jobs. If something is unclear, feel free to ask or add it to this page. Most LSF commands have very complete `man` pages.

This page is not the options you give to your `bsub` jobs, that page can be found here: LSF bsub flags.

Submit jobs with the #BSUB directives as header:

- `bsub < myjob.sh`
- Note: This is different from PBS `qsub` where you just did `qsub myjob.sh`

List all hosts (the command to see what resources are available on the queue):

- `bhosts` or `lshosts`
- Add the `-l` flag for more detail on all nodes
- `-l <hostname>` for detail on that one host

List *active* jobs by you

- `bjobs <JobID>`
- `-a` lists even completed recent jobs ("recent" is a few hours near as I can tell)
- `-l` lists more information about the job you have running
- `<JobID>` is optional
    - You can also specify `-l <JobID>`

List jobs by *other* users:

- `bjobs -u <user>` to get jobs by a specific user
- `bjobs -u all` to get ALL jobs from ALL users

Terminate your job

- `bkill <JobID>`

See your *history* of recent jobs, "recent" seems to indicate longer than a few hours near as I can tell.

- `bhist`
- `-a` shows your job history going back some 100 entries or so
- `-l` gets more details about your history of jobs
- Add a `<JobID>` number to `bhist` or `bhist -l` to see details about that job in specific
- bhist -n 0 -l <JobID> will check all historical logs for job information
- `bhist` seems to function as a much longer history `bjobs`

See resources available to the nodes right now

- `lsload`
- `lsload -l <node>` to see more details on the specific node

See the groups of hosts (Important for `-m` flag of `bsub` commands)

- `bmgroup`