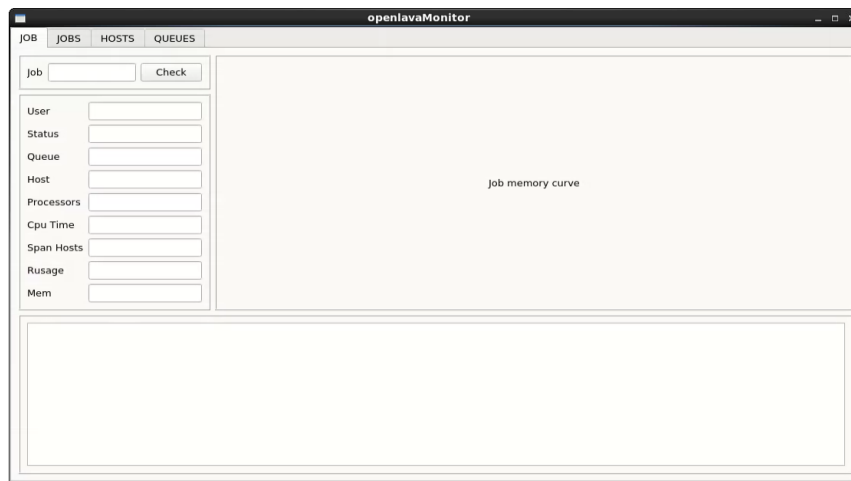# bmonitor Manual

openlavaMonitor is an open-source software for openlava data collection, data analysis and information display. bmonitor is the main process, which is used to review basic information of job/jobs/hosts/queues, job memory curve and queue RUN/PEND number curve.
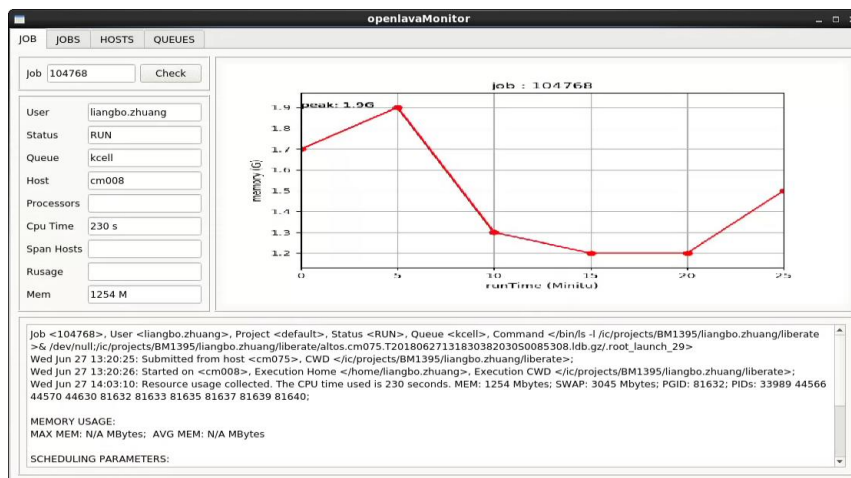
There are four Tabs on bmonitor, they are JOB/JOBS/HOSTS/QUEUES, below are some introductions.
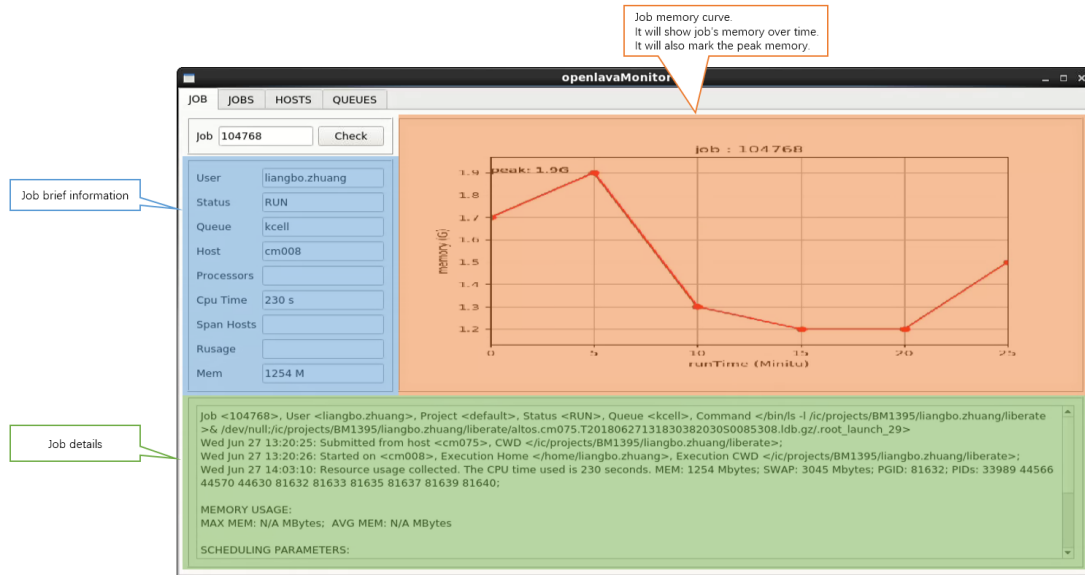
JOB Tab:

Below is the initial interface of JOB Tab.

Enter **jobid** into the "**Job**" input box, then click the "**Check**" button, it will show the job information.
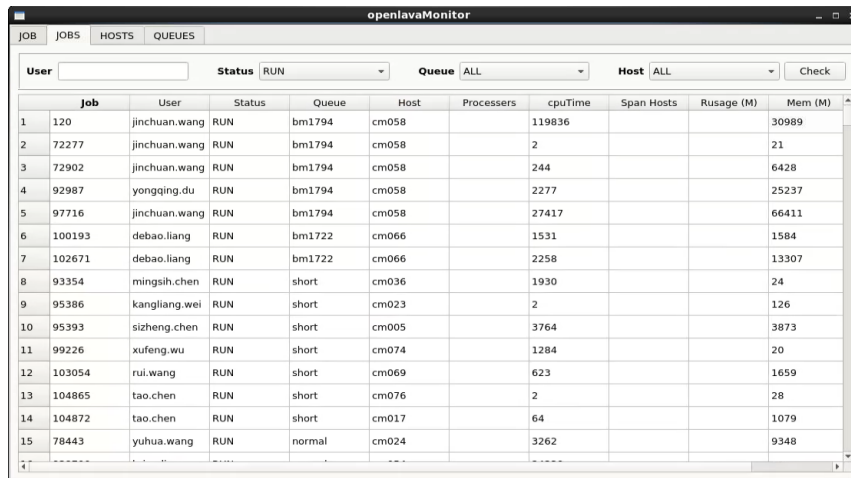
It contains three parts:

- Job brief information on the left side.
- Job details on the bottom.
- Job memory curve on the right side.

JOBS Tab:

Below is the initial interface of JOBS Tab.

You can choose the jobs by filling the following options:
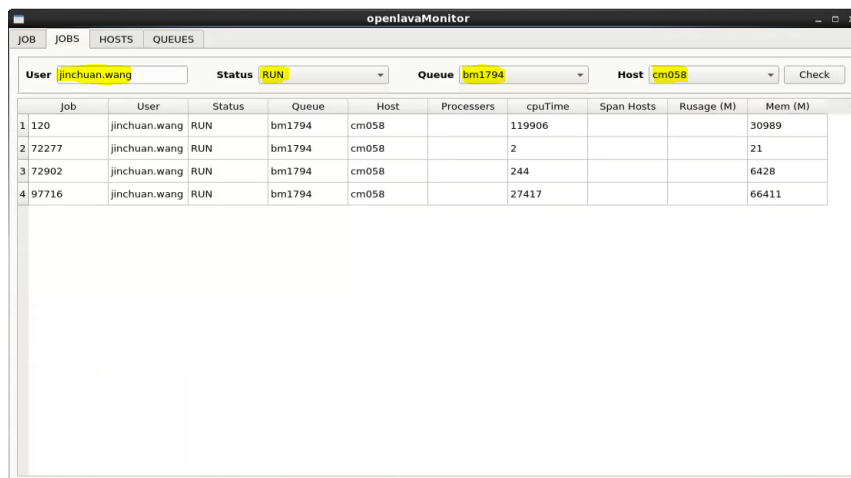
User: user name. Default is empty.

Status: job status, **RUN/PEND/ALL** are optional. Default is "**RUN**".

Queue: queue name, **ALL/queue_names** are optional. Default is "**ALL**".

Host: host name, **ALL/host_names** are optional. Default is "**ALL**".

Then click the "**Check**" button to get the selected jobs.

In the JOBS table, all columns are sortable. Click the column headings to sort them in ascending or descending order.
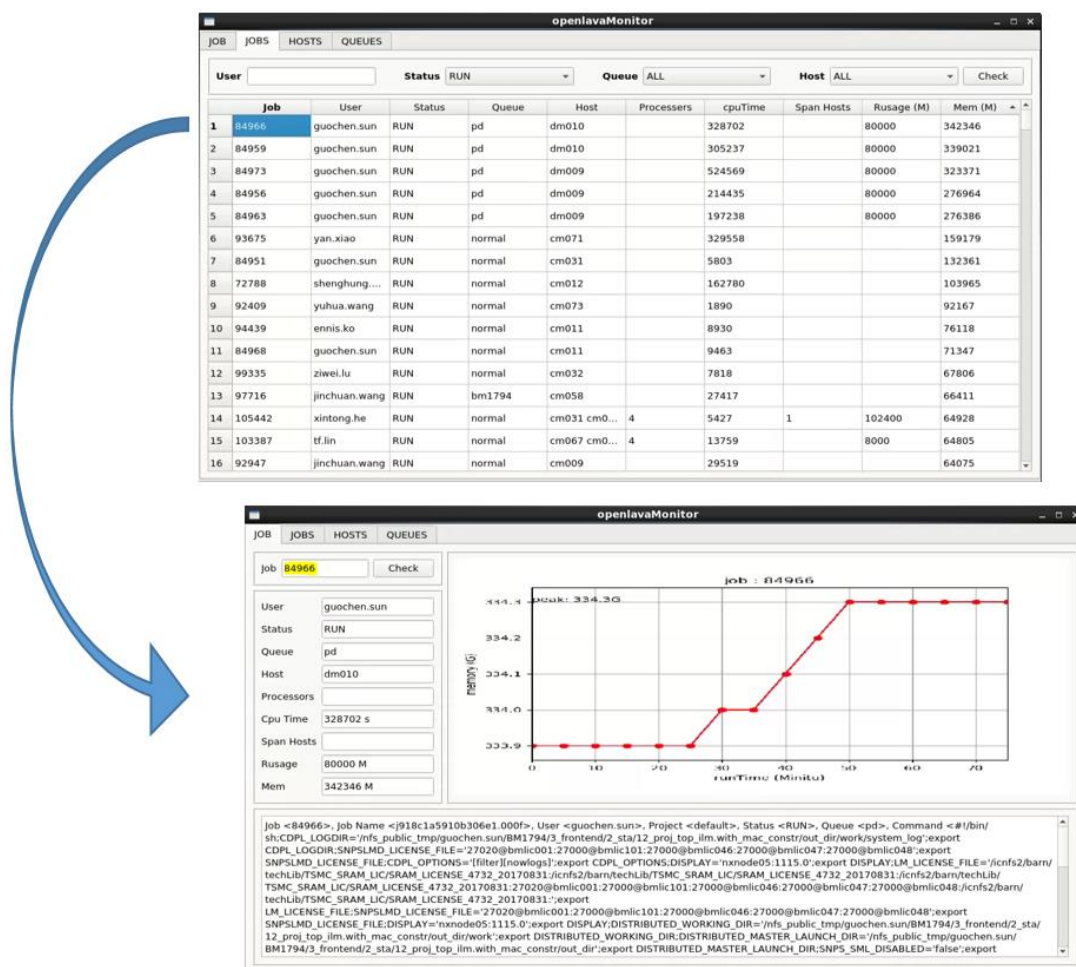
For example, sort **Mem** in descending order.

Click the **jobid** to jump to the JOB tab, get the job information on JOB tab.

For example, click "84966", it will jump to JOB tab and show the job information for "84966".

HOSTS Tab:

Below is the initial interface of HOSTS Tab.

In the HOSTS table, all columns are sortable. Click the column headings to sort them in ascending or descending order.

For example, sort **Ncpus** in descending order.

Click the **Host** or **Njobs** item to jump to the JOBS tab, get all of the running jobs (started on specified host) on JOBS tab.

For example, click "cm005", it will jump to JOBS tab, and show all of the running jobs (started on cm005) on JOBS tab.

QUEUES Tab:

Below is the initial interface of QUEUES Tab.
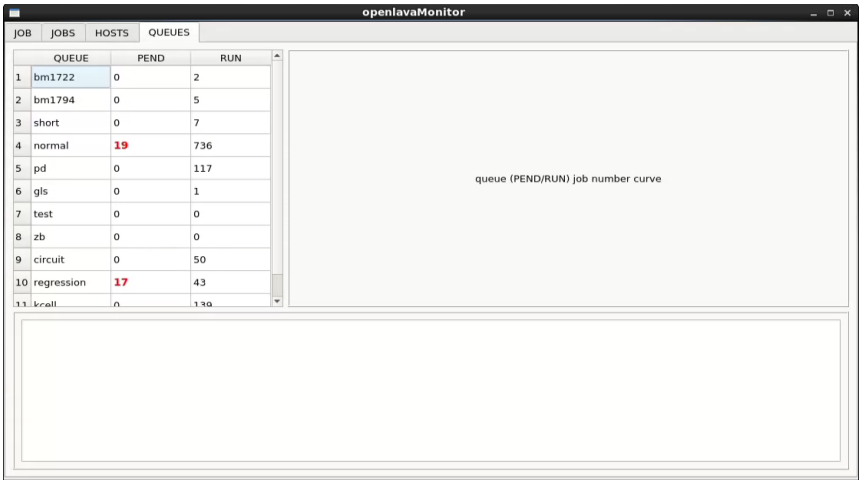
Click the Queue item, it will show the queue information.
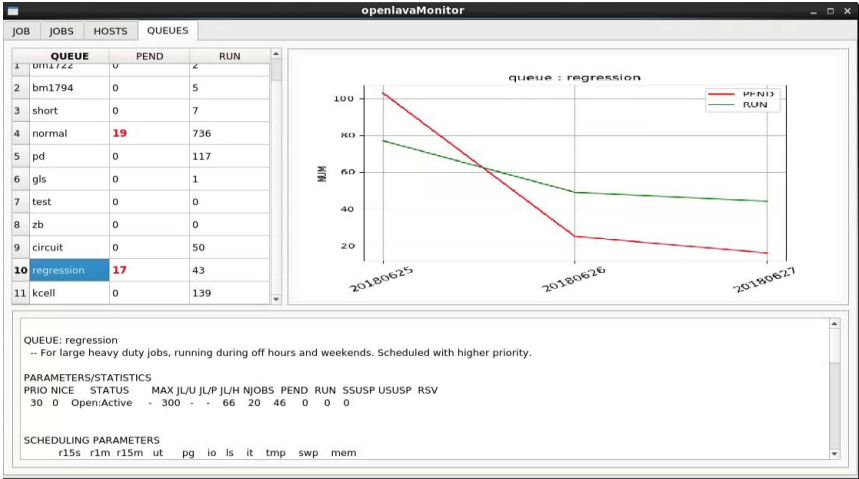
It contains three parts:

- Queue summary (RUN/PEND job number) on the left side.
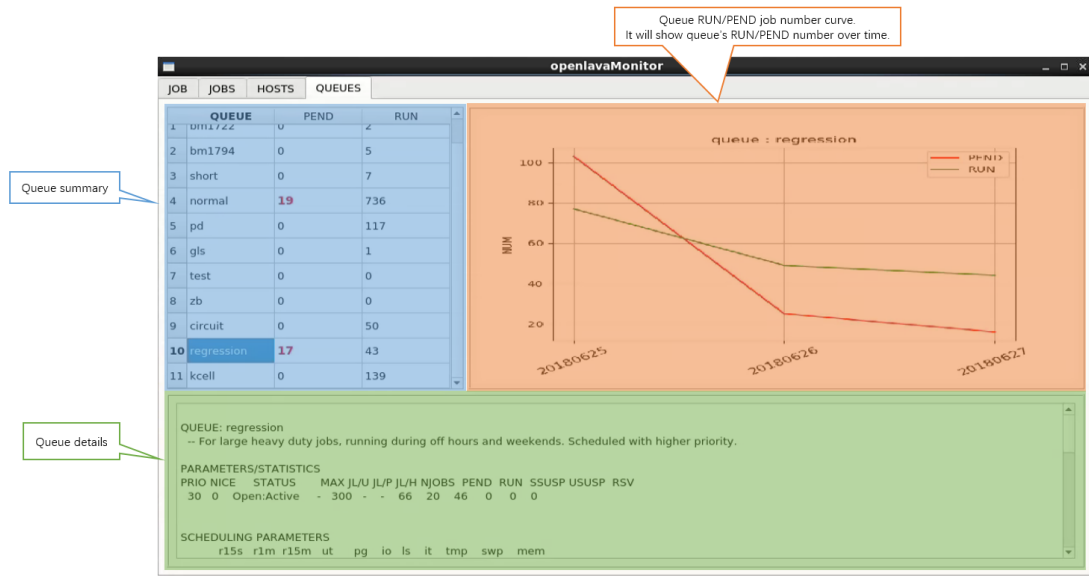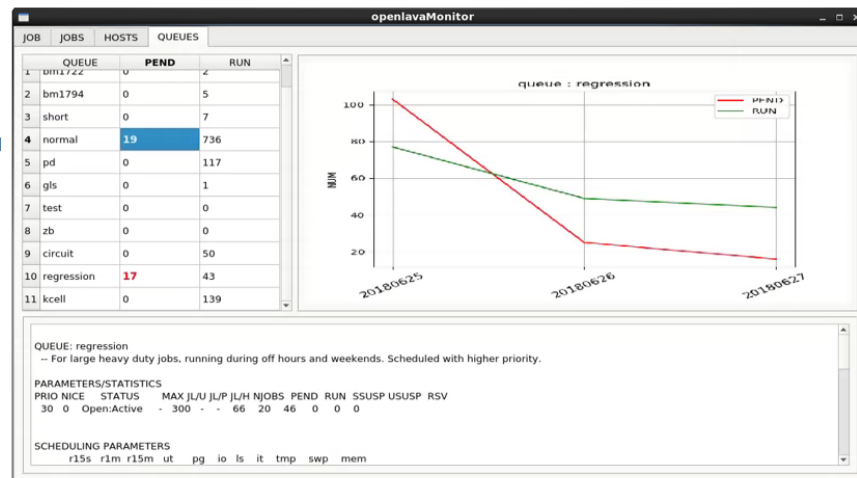- Queue details on the bottom.
- Queue RUN/PEND job number curve on the right side.

Queue RUN/PEND job number curve.
It will show queue's RUN/PEND number over time.

Queue summary

Queue details

Click the **PEND** item to jump to the JOBS tab, get all of the pending jobs (started on specified queue) on JOBS tab.

For example, click "19" (PEND number) of "**normal**" queue, it will jump to JOBS tab and show all of the pending jobs (started on queue "normal").

Click the **RUN** item to jump to the JOBS tab, get all of the running jobs (started on specified queue) on JOBS tab.

For example, click "736" (RUN number) of "**normal**" queue, it will jump to JOBS tab and show all of the running jobs (started on queue "normal").