

# Moab

## How to see array subjobs in showq

**Problem:** `qstat -t` provides a way to see all sub-elements of an array job, but how does `showq` allow you to see that?

**Solution:** `showq --blocking` will display individual job array sub-jobs.

**1) You can use "showq --blocking" to see individual array jobs (including MHOST, i.e., the "mother superior" for the job)**

Here's an example section of that output from a Moab 9.1 / Torque 6.1 test system:

```
active jobs-----
JOBID S PAR EFFIC XFACTOR Q USERNAME GROUP MHOST PROCS REMAINING
STARTTIME
Moab.2[0] R tor 0.00 1.2 el adaptive adaptive builder-9 1 00:58:57 Wed Dec 21
17:00:32
Moab.2[1] R tor 0.00 1.2 el adaptive adaptive builder-9 1 00:58:57 Wed Dec 21
17:00:32
8[0] R tor ----- 1.0 el adaptive adaptive builder-9 1 00:59:39 Wed Dec 21 17:01:14
8[1]
```

**2) There was one change in 9.1.0, per the "Differences" section of the release notes:**

**Moab Handles qsub Job Arrays the Same as msub**

**Moab now understands Torque job arrays the same as its own job arrays. Job arrays submitted to Torque will show up as job arrays in Moab.**

This change explains why `showq` has parentheses after the "job array summary". Prior to 9.1, that only displayed for `msub` job array submissions, but now Torque arrays jobs display that way, too. The difference: when Moab migrates `msub` array jobs down to Torque, it does individual job submissions (instead of doing the equivalent of "`qsub -t <range>`", as it did in prior versions).

So this:

```
$ qsub -t 0-1 myjobscript.sh
```

Shows up like this:

```
* qstat:
3[.].builder-9.1.0-2016-dec-19
```

```
* showq:
3(2)
```

# Moab

While this:

```
$ msub -t 0-1 myjobscript.sh
```

Results in:

\* qstat:

4.builder-9.1.0-2016-dec-19.v

5.builder-9.1.0-2016-dec-19.v

\* showq:

Moab.1(2)

Unique solution ID: #1174

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Last update: 2017-05-18 02:23