

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)

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