

# TORQUE Resource Manager 5.1.0 Release Notes

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## New Features

The following is a summary of key new features in TORQUE Resource Manager 5.1.0.

### *Ability to Provide Condensed qstat Output*

A 'qstat -C' option, which specifies that TORQUE will provide only a condensed output (job name, resources used, queue, state, and job owner) for jobs that have not changed recently (as per the job\_full\_report\_time parameter), has been added. Jobs that have recently changed will continue to send a full output.

### *Performance Enhancements to MOM Clean-up Time*

Some minor performance enhancements were made to improve MOM clean-up time.

## Differences

This section contains differences in previously existing features that require a change in configuration or routine.

### *CLIENTRETRY Configuration Option Support for qdel*

The qdel parameter now includes the -b option and CLIENTRETRY configuration option support. This feature functions similar to -b option for qsub. Specifically:

- -b <num> command line argument support
- CLIENTRETRY configuration option support
- PBS\_CLIENTRETRY environment variable support

#### *Jobs Deleted When the Dependency Can No Longer Be Satisfied*

When a job is deleted because its dependency can no longer be satisfied, that job will follow the keep\_completed parameter set (if any) for pbs\_server. Previously, jobs were purged immediately.

#### *pbs\_server -t No Longer Supports hot|warm|cold Options*

The pbs\_server -t option no longer supports the hot|warm|cold Options. Other options are still supported.

## Known Issues

The following are known issues in TORQUE Resource Manager 5.1.0. Following each issue description is an associated issue number in parentheses.

- DNS caches are not purged of removed nodes when Elastic Computing is enabled. SLES 11 SP1 has an issue with giving the old IP address to TORQUE even after updating /etc/hosts. Do not use SLES SP1 if you are using this method to manage the IP addresses for pbs\_server. The mom's OSs are irrelevant. (TRQ-2765)
- Some limitations exist in the way that pbsdsh can be used. Please note the following situations are not currently supported:
  - Running multiple instances of pbsdsh concurrently within a single job. (TRQ-2851)
  - Using the -o and -s options concurrently; although requesting these options together is permitted, only the output from the first node is displayed rather than output from every node in the chain. (TRQ-2690)

## Resolved Issues

The following is a list of some key bugs fixed in TORQUE Resource Manager 5.1.0. Following each issue description is an associated issue number in parentheses.

- **HOST\_NAME\_SUFFIX was no longer adding suffix to job names.** This bug is fixed. (TRQ-2956)

- **pbs\_mom filling up the logs in a HA environment.** Reduced verbosity in error logging in HA environments. (TRQ-2863)
- **Delays reported with Preemption.** The following changes were made to reduce delays: (TRQ-3026)
  - Speed up process data collection to help diminish time to rerun a job.
  - Correctly sum job memory and cpu time resources for processes created under setsid() calls within a job.
  - Avoid an infinite loop in pbs\_mom when running under a Linux Container (lxc).