

Torque

TORQUE creates many files for array jobs with a large index.

Issue:

TORQUE creates many files for array jobs with a large index. This results in

- 1) Using the filesystem as a database is problematic at scale.
- 2) having large number of jobs vastly slows down TORQUE and Moab.

Solution:

Starting in 5.1.2,6.0.1 a new parameter "use_job_subdirs" can be used.

"use_jobs_subdirs"

http://docs.adaptivecomputing.com/torque/6-0-2/adminGuide/help.htm#topics/torque/13-appendices/serverParameters.htm#use_jobs_subdirs

use_jobs_subdirs

Format

Default

Description

<BOOLEAN>

Not set (FALSE).

Lets an administrator direct the way pbs_server will store its job-related files.

- When use_jobs_subdirs is unset (or set to FALSE), job and job array files will be stored directly under \$PBS_HOME/server_priv/jobs and \$PBS_HOME/server_priv/arrays.
- When use_job_subdirs is set to TRUE, job and job array files will be distributed over 10 subdirectories under their respective parent directories. This method helps to keep a smaller number of files in a given directory.



This setting does not automatically move existing job and job array files into the

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use_jobs_subdirs

respective subdirectories. If you choose to use this setting (TRUE), you must first

- set use_jobs_subdirs to TRUE,
- shutdown the Torque server daemon,
- in the contrib directory, run the "use_jobs_subdirs_setup" python script with -m option,
- start the Torque server daemon.

Jira:

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Author: Jason Booth

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