

Torque

Cray: pbs_mom has run out of threads

Issue: Cray plans on using SLES 12 SP2 for CLE 6.0UP04, to be released mid-2017. The version of systemd shipped with SLES 12 SP2 contains support for the PIDs cgroup controller:

https://www.suse.com/releasenotes/x86_64/SUSE-SLES/12-SP2/#fate-320358

Under the new systemd version, each init script or systemd service is limited to 512 threads/processes by default.

This could cause issues if a MOM daemon runs many simultaneous jobs, or a compute node launcher daemon attempts to spawn many processes for a job.

Solution: Here's how to increase the limit beyond the default:

- If using a systemd service file, add TasksMax=N to the [Service] section. N can be a specific number, or special value infinity.
- If using an init script, create the file /etc/systemd/system/<init script name>.service.d/override.conf with these contents:

```
[Service]
TasksMax=N
```

Note: Earlier versions of systemd that don't support the PIDs cgroup controller simply ignore the TasksMax setting.

Unique solution ID: #1161

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