## Torque

# My MPI jobs are failing to run when I run them through TORQUE however they run externally

**Issue**: My MPI jobs are failing to run when I run them through TORQUE however they run externally.

#### Affected Versions: All

#### Symptom:

MPI\_Init: ibv\_create\_cq() failed MPI\_Init: Can't initialize RDMA device MPI\_Init: Internal Error: Cannot initialize RDMA protocol

MPI\_Init: ibv\_create\_cq() failed fMPI\_Init: Can't initialize RDMA device MPI\_Init: Internal Error: Cannot initialize RDMA protocol MPI Application rank <NN> exited before MPI\_Init() with status 1 mpirun: Broken pipe

### Solution:

When a batch job is created through TORQUE sometimes the jobs environments ulimits are inherited from the pbs\_mom. Normally a jobs ulimits inherit the ulimits from the OS environment. In this case the "max memory size" (ulimit -m) is not suficient for the mpi job to run correctly.

You can edit the init script for the pbs\_mom to set the ulimit -m before pbs\_mom is executed. This will allow the mom to have a mem limit greater then 64. Alternativly if you start your pbs\_mom by hand you will set your current shells ulimit with the command (ulimit -m unlimited) before running "pbs\_mom". Unique solution ID: #1022 Author: Jason Booth Last update: 2015-06-11 00:00