Intelligent HPC Workload Management

TORQUE Open-Source Resource Manager

Overview

TORQUE Resource Manager provides control over batch jobs and distributed computing resources. It is an advanced open-source product based on the original PBS project* and incorporates the best of both community and professional development. It incorporates significant advances in the areas of scalability, reliability, and functionality and is currently in use at tens of thousands of leading government, academic, and commercial sites throughout the world. TORQUE may be freely used, modified, and distributed.

Advantages of Using TORQUE

- **Remote submission** Submit, launch, and manage serial and parallel batch jobs remotely (create, route, execute, modify, and delete jobs)
- **100% Free** TORQUE offers community and professional support options and incorporates the best contributions from both community and professional development teams
- **Industry-standard solution** with higher adoption than any other resource management offering
- **Aggressive development with new capabilities** in high availability, advanced diagnostics, job arrays, GPGPU scheduling and metrics, high-throughput support, and other functionality

Benefits

- **Scales to very large clusters** and is currently in use in systems with tens of thousands of nodes and jobs
- **Improved responsiveness and reliability** with multi-threading and TCP-based communication
- **Ongoing development, support, training, and consulting options** ensure the value of your current investment
- **Improved fault tolerance** with intelligent context-sensitive recovery options
- **Improved scheduling interface:** more granular and accurate information provided to the scheduler provides increased control over job behavior and attributes and allows the collection of statistics for completed jobs
- **Vastly improved usability** with internal and external human-readable diagnostics
- **Enhanced control and security** over users with new authorization functionality

Available from Adaptive Computing

TORQUE is freely available for download from Adaptive Computing, and users who purchase Moab® HPC Suite receive free support for TORQUE. Learn more about TORQUE and download it free at **www.adaptivecomputing.com /products/open-source/torque/**

* TORQUE includes software developed by NASA Ames Research Center, Lawrence Livermore National Laboratory, and Veridian Information Solutions, Inc. Visit www.OpenPBS.org for OpenPBS software support, products, and information. TORQUE is neither endorsed by nor affiliated with Altair Engineering, Inc.

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