

# TORQUE Resource Manager

## Overview

**TORQUE Resource Manager** provides control over batch jobs and distributed computing resources. It incorporates significant advances in the areas of scalability, reliability, and functionality. It is currently in use at tens of thousands of leading government, academic, and commercial sites throughout the world.

## Advantages of Using TORQUE

- **Remote submission** Submit, launch, and manage serial and parallel batch jobs remotely (create, route, execute, modify, and delete jobs)
- **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

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