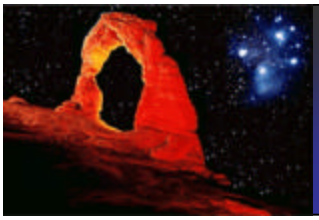


CLUSTER RESOURCES INC.™

MOAB CLUSTER MANAGER™ & MONITOR™ 1.0 OVERVIEW

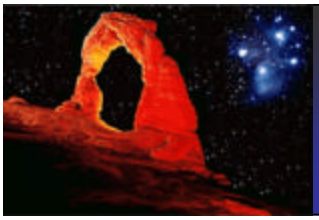
Overview:

Moab Cluster Manager & Monitor are two new applications that combine to truly harness the power of Moab Cluster Scheduler. The combined solution not only improves the ease of using the scheduler, but also adds additional immediate diagnostic capabilities as the status and details of the resources running on your system are presented to you in new and instantaneous forms. Leverage the new task-oriented interface to reduce the time for both end users and administrators in performing common as well as complex tasks. As Moab Cluster Scheduler is based on a new infrastructure that is capable of dynamic modifications, spend your time making the changes and moving on, rather than putting everything on hold as you change the configuration files manually and restart.

With Moab Cluster Manager & Monitor you will have a significantly reduced learning curve for both end users and administrators, and tasks will be accomplished on the first try rather than through trial and error. You no longer need to use the configuration file to change the operating mode. Use the control panel to start, pause, resume and shut down during testing or normal operations with the click of a button. All simulation options are now highly accessible and will help you test configuration options with no disruption to your system. Visually review the impact of Fairshare settings on each user - even before implementation. Change Fairshare settings in a fraction of the time, with a simple sliding bar or by changing a single value. Reservations and Standing Reservations can be created using a unified interface. Decide on resources, access, timeframes and attributes using a logical and easy to use interface rather than memorizing and troubleshooting a complex command line or configuration syntax. Simply mouse over and check out the status of a node, or click on a job and see all resources that are dedicated to it. Review your entire cluster to see which resources are being used by specific users or groups. Create and manage policies that govern prioritization and fairness, view system statistics and visually overview job execution or reservations, etc. based on resource and timeframe factors. With the Moab Cluster Manager & Monitor, high performance computing can be truly pushed to the edge of its performance capabilities, and policies can be more easily applied to add the critical level of business logic that helps your system meet your mission objectives, rather than building in added processes just to deal with your technology.

Benefits:

- Reduce the learning curve for both end user and administrator
- Save the cost of lost administrator time by accomplishing both common and complex tasks easier
- Diagnose and resolve resource issues using intuitive overview charts and task assisting wizards and shortcuts
- Monitor and report on QoS guarantees for key projects and enforcement of service level agreements



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New Features:

Moab Cluster Manager & Monitor extend the capabilities of base resource management by adding the following features:

- Submit jobs from a single interface regardless of which underlying resource manager is used
- Users can review their own jobs status to which jobs are running, in the queue, blocked, cancelled, what level of service their jobs are experiencing and current efficiency levels
- Reduce end-user confusion and errors, with a more intelligent, personalized submission screen.
- End users can Suspend, Cancel, Modify, Resume Re-queue or Checkpoint their own jobs from a single panel
- Allow users to see exactly what resources are available for immediate and future use for their specific jobs
- See all possible configuration options without having to conduct lengthy and repetitive searches
- Avoid resubmission headaches for end users by using the check availability button
- View Job timelines in both linear and exponential formats to instantly assess current and future loads.
- Create very flexible advance reservations from a simple screen, and check availability before implementing
- Use reservation triggers to initiate actions upon completion, at certain thresholds, or other events
- Use reservations and triggers to automatically initiate planned maintenance node tasks (i.e. custom scripts) at a set time or as soon as the node completes its workload
- Diagnose and modify node status from a single location
- Manage the complex impacts of Fairshare with automated calculation screens and simple sliding bars
- Set exacting priority weighting criteria and view the resulting overall priority per job in a single screen
- Review all throttling policies and how they are applied to users, groups, accounts and QoSs
- Configure scheduler, resource manager, and allocation manager settings with simple forms that help you consider all aspects you need
- Manage user accounts, groups, classes, QoSs as well as all the associated global policies
- Build charge back reports or report on service levels using professional reporting forms
- Access documentation and help content much faster

Supported Resource Managers:	Supported Platforms:
• TORQUE Resource Manager™ • OpenPBS • PBSPro • Sun Grid Engine (SGE) • SGE Enterprise Edition (SGEE) • LoadLeveler • LSF • BProc/Scyld • Scalable System Software (SSS-RM) • Quadrics RMS	• Linux • AIX • OSF/Tru-64 • Solaris • HP-UX • IRIX • FreeBSD • Other UNIX platforms