

Moab Cluster Suite®

An Intelligent Cluster Management Solution

Moab Cluster Suite is intelligent management middleware that provides simple Web-based job management, graphical cluster administration, and management reporting tools. Organizations will benefit from the ability to provide guaranteed service levels to users and organizations, higher resource utilization rates, and the ability to get more jobs processed with the same resources, resulting in an improved ROI.

By using Moab, sites can dynamically change HPC and data-center resource pools on the fly to match specific workload needs. Moab provides flexible management policies to ensure that specific user, group, and workload needs are met. Moab also enforces quality-of-service guarantees and service-level agreements and makes certain that high-level organizational objectives are achieved.

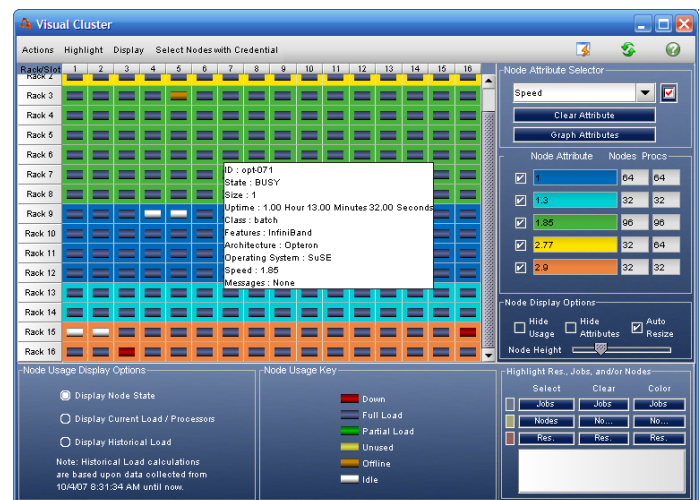
Moab Cluster Suite incorporates industry-leading applications from Cluster Resources

- ▶ **Moab Workload Manager®**—a policy-based workload management and scheduling engine
- ▶ **Moab Cluster Manager®**—a powerful graphical cluster-administration interface, monitor, and reporting tool
- ▶ **Moab Access Portal®**—a Web-based end-user job-submission and management portal

Moab manages many of the largest clusters and grids in the world. Moab technologies are used broadly across Fortune 500 companies; in fact, Moab is licensed on more Top500 compute resources than any competitor's solution. Cluster Resources is a globally trusted ISV, and Moab prices can be one-half to one-fourth the price of similar tools on the market today.

Benefits

- ▶ Integrate and unify management across diverse resources and environments in a cluster
- ▶ Control and share resource usage among users, groups, and projects
- ▶ Simplify use, access, and control for both users and administrators
- ▶ Track, diagnose, and report on cluster workload and status information
- ▶ Automate tasks and processes to streamline job turnaround and reduce administrative burden
- ▶ Take advantage of scalable architecture that is grid-ready, compatible, and extensible



Moab Cluster Manager provides an easy-to-use cluster-administration interface with powerful monitoring and reporting tools.



Key Facts—Moab Cluster Suite

Increase Hardware Efficiency 10%–30% for 90%–99% Utilization

- ▶ Attain faster job response times as jobs are run optimally based on real-time workload conditions and rules
- ▶ Reach higher and more consistent utilization of resource capacity and capabilities through intelligent scheduling, precise policy controls, and high-availability services
- ▶ Guarantee that jobs run at required times with advanced reservations
- ▶ Ensure that the most important work receives the highest priority and quality of service

Increase User Productivity

- ▶ Increase productivity by allowing users to submit jobs from any location through a Web-based portal
- ▶ Reduce end-user job-management training with an easy-to-use Web interface and self-help capabilities such as start-time estimates and visual reservation tools
- ▶ Simplify and speed job submission with basic and advanced job forms, reusable and shared job templates, and the ability to browse for needed local and server files
- ▶ Enable users to self-manage usage based on credits remaining or built-in user reports

Consolidate Management Across Clusters and Grids

- ▶ Unify workload management across existing resource managers, networks, and hardware and connect with databases, provisioning systems, portals, allocation managers, and other applications for full end-to-end management and integration
- ▶ Eliminate duplicate manual administration work across multiple clusters, freeing valuable staff resources to work on other high-priority projects
- ▶ Enable future growth with scalability to tens of thousands of diverse cluster nodes and local area grid support out of the box

Gain Control with Automated Tasks, Policies, and Reporting

- ▶ Automate administrative tasks and responses with custom job, node, or system-wide triggers based on any event or condition criteria
- ▶ Use event, condition, and time-based policies in a flexible policy engine to ensure that usage matches set levels and priorities
- ▶ Identify problems, utilization, and ROI easily with precise custom reports that provide centralized and visual status reporting on current and historical jobs
- ▶ Use resource consumption reports to effectively share costs of cluster maintenance or to drive self-management across users, groups, and organizations
- ▶ Complete tasks quicker with a task-based interface, reusable job templates, and group operations to streamline changes across groups of users and resources

Provide Controls for Trusted Multi-Group Sharing

- ▶ Share resources fairly with policies that ensure that agreed-on service levels are delivered to groups and users based on priority, capacity, time, and other settings
- ▶ Build trust with resource owners by reporting usage of purchased and shared resources and enforcement of resource guarantees through service-level policies
- ▶ Ensure that users do not exceed intended usage by applying soft or hard limits
- ▶ Encourage groups and users to self-manage resource usage with built-in accounting capabilities that track time, credit, or cost usage against maximums
- ▶ Simplify administration of access rights with role-based authorization levels and visual maps of user, group, and quality-of-service relationships and settings

Try Moab for 30 days with full technical support—*absolutely free.* For more information, please contact us.

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North America, Latin America, Asia-Pacific +1 (801) 717-3700

U. S. toll-free +1 (888) 221-2008

Europe, Middle East, Africa +44 (0) 1483 243578

Email info@ClusterResources.com



www.ClusterResources.com