CLUSTER RESOURCES INC.

NEWS

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Moab Workload Manager 5.2 Released by Cluster Resources, Inc.

Support for hybrid clusters, job arrays and hierarchical fairshare among the many enhancements to one of the industry's most powerful management tools

PROVO, Utah – January 18 – Cluster Resources, Inc., a leading provider of HPC resource management and scheduling software, announced today that Moab Workload Manager® 5.2 is now available, bringing enhancements in efficiency and flexibility to all levels of HPC.

Moab Workload Manager is a policy-based job scheduler and event engine that enables utility-based computing for clusters. Moab Workload Manager combines intelligent scheduling of resources with advanced reservations to process jobs on the right resources at the right time. Moab 5.2 is available at www.clusterresources.com; a free 30-day evaluation version of Moab can be downloaded at www.clusterresources.com/eval.

"Moab Workload Manager 5.2 contains numerous new and upgraded features that will enhance user experience and increase the efficiency of a cluster or data center," stated Michael Jackson, president of Cluster Resources. "The most notable of these enhancements is support for hybrid clusters, which allows us to provide a cost-efficient solution for our customers running multiple operating systems."

Running one Linux cluster and one Windows cluster, each with different peak usage and idle times is expensive and inefficient; running Windows on a Linux cluster yields maximum hardware utilization and ROI. Moab 5.2 removes the barrier of a node's operating system by maximizing workload throughput with a single self-optimizing system that balances the number of nodes running a particular OS against user/group and workload service levels. When conditions are met, Moab triggers the change via a site's preferred OS-modification technology, such as diskfull and diskless provisioning, dual boot or virtualization (i.e., via Hyper-V within Windows Server 2008, VMware, or Xen).

The Moab hybrid cluster model also consolidates administration and centralizes job submission across both platforms. Administrators can manage both operating systems' policies and workload from Moab's unified console. Moab also makes the dual-OS nature of the cluster transparent to end users by applying application and workload information that ensures jobs run on the correct OS without the user needing to specify it.

This latest release of Moab also has improved beta support for the Sun Grid Engine (SGE) resource management system. Moab is able to externally schedule SGE to manage resources according to workload needs and policies defined in Moab. Instructions for integrating Moab with SGE are located at http://www.clusterresources.com/products/mwm/docs/sgeintegration.shtml.

Additional new or enhanced features in 5.2 include hierarchical fairshare, job arrays, job templates, and the industry standard "Autoconf" configuration script to speed and dynamically customize Moab installations.

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Enhancements have been made to utility and data center computing, and hosting center applications. Moab's high throughput mode for utility computing allows behind the scenes

optimization in job submission, job migration, job start, and job tracking, enabling job throughput rates of up to 100 jobs per second in clusters running both Moab and TORQUE* resource manager. Dynamic partitions enable data centers to manage workflow peaks by optimizing the available resources across Web farm pools. Additionally, improvements to dynamic jobs allow workloads to flow around hardware failures and maintenance stops. Hosting center improvements include extended and refined trigger functionality and additional support to application-based resource managers.

"Moab simplifies management across multiple hardware, operating system, storage, and resource manager environments to increase the ROI of clustered resources," stated Jackson. "System utilization improvements are between 90 and 99 percent. Moab's ability to allow administrators to adjust to the needs of users without having to micro-manage reprovisioning decisions will have far-reaching implications with regard to cluster efficiency and overall utilization."

Upgrading to Moab 5.2 is free for licensed users; all current functionality and features are retained when upgrading. A free 30-day evaluation version of Moab is available for download at www.clusterresources.com/eval.

About Cluster Resources
Cluster Resources, Inc. is a leading provider of workload and resource management software and services for cluster, grid, data center and utility-based computing environments. With more than a decade of industry experience, Cluster Resources delivers software and services that enable organizations to understand, control, and fully optimize their compute resources and related processes.

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** TORQUE Resource Manager 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 Grid Solutions, Inc.*

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