



PBS
GridWorks[®]
Enabling On-Demand Computing™

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A suite of **on-demand grid** and
cloud technologies that allow enterprises
to **maximize ROI** on **computing infrastructure**.

Intuitive Application Portals

Drag & Drop Job Management GUIs

Bullet-proof Workload Management

Optimized Job & Resource Scheduling

Green Provisioning

21st Century IT Analytics

Enabling On-Demand Computing™



PBS GridWorks

Companies of all sizes, from automotive, energy, aerospace and life sciences, use high-performance computing (HPC) to accelerate the design, validation and modeling of complex products. While compute power has increased, today's HPC workloads are more compute intensive than ever before. Advanced resource and workload management software is key for exploiting the value of HPC.

PBS GridWorks® is a suite of on-demand grid computing technologies that allows enterprises to maximize the ROI of their HPC infrastructure. PBS GridWorks is the most widely implemented software environment for grid-, cloud-, cluster- and on-demand computing worldwide. The suite's flagship product, PBS Professional®, provides a flexible, on-demand computing environment that allows enterprises to easily share distributed computing resources. Leveraging a revolutionary "pay-for-use" licensing model, PBS GridWorks helps customers automate and manage the largest and most compute intensive HPC workloads running anywhere. For more information, please visit www.pbsgridworks.com.

What's New in PBS GridWorks?

Highlights and Key Features

- Expanded chart and graph options for PBS Analytics™, providing enhanced insights about resource usage and workload trends. Built using Web 2.0 framework, PBS Analytics enables advanced visualization of accounting data to identify workload trends and plan for future growth.
- Introduces PBS Catalyst™ which provides a simple but powerful "drag-and-drop" interface for submitting and monitoring jobs.
- According to Gartner, nearly 50% of all IT budgets were allocated to energy use in 2008. PBS Professional's Green Provisioning™ can monitor, shutdown, and restart computing resources based on HPC workload requirements. Validated by several leading PBS GridWorks sites, Green Provisioning has lowered their energy use by up to 20 percent.
- Support for Microsoft Windows Server 2008, along with tunable user and group resource limits in PBS Professional.



PBS Professional

Commercial Grade HPC Workload Management

Demanding HPC users worldwide have chosen PBS Professional to manage their HPC complex workloads to ensure the highest levels of resource utilization. PBS Professional is a core component of the PBS GridWorks suite that efficiently distributes HPC workloads across all forms of computing infrastructure. Easily scaling to support thousands of processors – from clusters to the largest HPC systems – PBS Professional ensures administrators get the maximum value from their computing investments.

PBS Analytics

Visualize Usage Data to Monitor, Track and Plan – Optimizing Return on HPC Investments

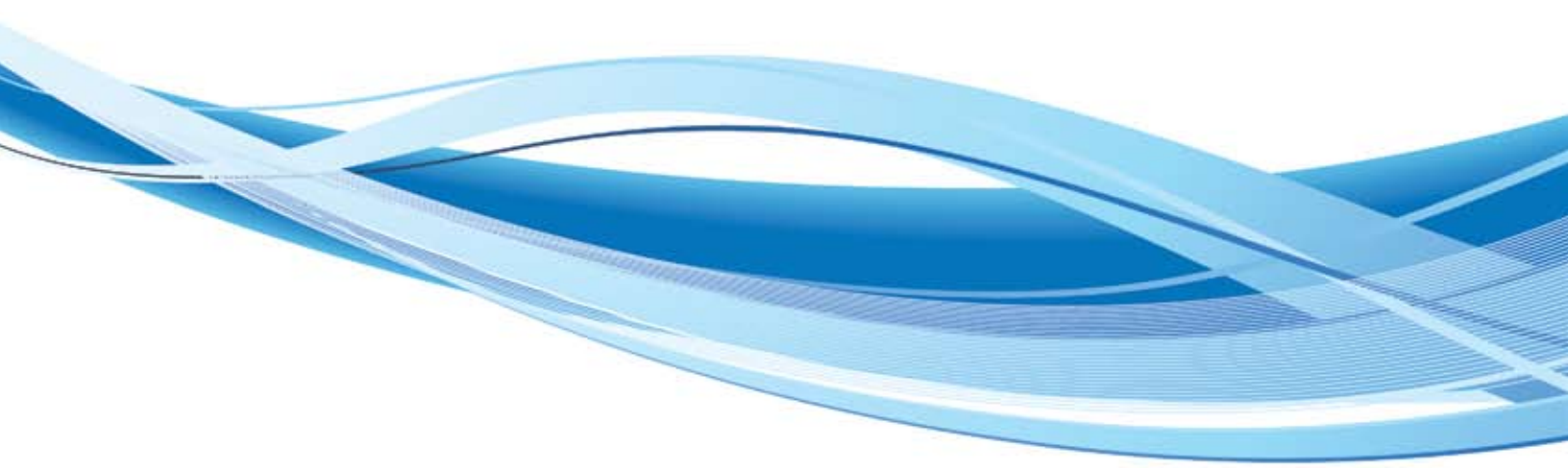
PBS Analytics is a web-based portal for visualizing usage data, helping HPC administrators understand how effectively their HPC workloads are using valuable computing resources. Detailed historical usage data can be easily selected, filtered and visualized – from one or multiple HPC systems. Using PBS Analytics, administrators not only understand how well their HPC systems are working, but have the ability to make data driven decisions for effectively optimizing current and future workloads.

PBS Catalyst


Simple to Use Portal for Submitting and Managing Jobs

Submitting jobs to PBS GridWorks is as simple as dragging an input file onto the PBS Catalyst icon on your desktop system. There are no complicated commands to learn – PBS Catalyst understands your applications and how they work. Key input parameters – like the number of processors and amount of memory required – are automatically filled in. Input data sets are automatically staged and output files returned when the job completes. Once PBS Catalyst is configured for your engineering, life sciences or animation applications, it is simple to submit, monitor and manage workloads connected to any PBS Professional compute node or cluster.





www.pbsgridworks.com

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