

PBS Works™ is the #1 solution* for **comprehensive, secure** workload management for high-performance computing (HPC) environments. This **integrated suite** simplifies the use of HPC while improving resource utilization and ROI. PBS Works is the preferred solution for many of the largest, most complex clusters and supercomputers in existence – and is the choice for smaller organizations needing HPC solutions that are **easy to adopt and use**. Backed by Altair, a global software leader, PBS Works offers **unparalleled service and support** from a partner companies can rely on.



The Trusted Leader in HPC Workload Management

- **Proven** at thousands of global sites
- **Comprehensive, integrated suite** – one provider for all capabilities:
 - Workload management and job scheduling
 - Web-based job submission and monitoring
 - Remote visualization portal
 - Analytics and accounting portal
 - Software asset optimization
- **Industry-leading** feature set:
 - Green Provisioning™ for power-aware scheduling
 - Market-leading security (EAL3+ certification, SELinux support)
 - Topology-aware, policy-driven scheduling
 - Massive scalability to millions of jobs a day
 - Powerful, flexible plugin framework for easy customizations
- **Global support** with 48 offices in 22 countries

The Experts in HPC

Altair knows HPC better than anyone. The company delivers market-leading software for both IT managers and design engineers – and employs 700+ experts in our ProductDesign team who work with users every day to solve real HPC challenges.

HPC Cloud Computing

Altair's cloud solutions simplify access to HPC infrastructures so engineers and scientists can focus on their work, not how and where jobs are executed. PBS Works powers Altair's turnkey private cloud appliance, **HyperWorks Unlimited**, a computer-aided engineering (CAE) cluster with fully configured HPC hardware and software available in both physical and virtual appliance formats.



"PBS Works was named "Best HPC Software Product or Technology" in the 2014 HPCwire Readers' Choice Awards.

Clients

Aerospace / Defense

ATK, BAE Systems, Boeing, British Aerospace, Embraer, FNMOC, Lockheed Martin, Northrop Grumman, Raytheon, U.S. Air Force, U.S. Army, U.S. Dept of Defense, U.S. Navy

Government / Academia

ARL, DSO National Laboratories, JAIST, KISTI Supercomputing Center, NASA (5 locations), NRL, Tokyo Institute of Technology

Life and Earth Sciences

Bayer AG, Genentech, Merck, National Cancer Institute, NIH, Pfizer, Protein Design Labs, Structural Geonomics, tGen, Tularik-Amgen

Manufacturing

Chrysler, Ford Motor Company, GE, Hyundai, Mahindra & Mahindra, Mazda, Nissan, Subaru, Tata Motors, Tower International, Volvo

Oil and Gas

Chevron, ConocoPhillips, Fairfield Nodal, Oil and Natural Gas Consortium, Petrobras, Saudi Aramco, Schlumberger

Executive Management



James R. Scapa
Chairman and CEO



Sam Mahalingham
Chief Technical Officer,
Enterprise Solutions



Bill Nitzberg, Ph.D.
Chief Technical Officer,
PBS Works



PBS Professional

Proven for over 20 years at thousands of global sites, PBS Professional is a leading HPC workload management product that efficiently schedules workloads across all forms of computing infrastructure, from clusters to supercomputers, intelligently balancing business priorities and requirements to optimize scheduling while reducing runtimes and maximizing hardware and software utilization.



Compute Manager

A web-based portal for simplified job submission and management, Compute Manager hides the complexities of HPC so end-users can focus only on their data and applications. Users can easily set up jobs on distributed resources, monitor and manage workloads, and visualize data and results remotely.



Display Manager

A web-based remote visualization portal, Display Manager enables users to visualize and collaborate on massive data sets. Display Manager reduces IT costs by enabling consolidation of costly graphics resources and increases security by eliminating the need to move files outside the datacenter.



PBS Analytics

PBS Analytics is an easy-to-use data analysis and visualization product that supports data-driven planning and decision making. Easily extensible to meet your unique requirements, PBS Analytics aggregates data from multiple servers into a common database for a consolidated view into resource productivity.



Software Asset Optimization (SAO)

Altair SAO is a tool for measuring and analyzing application use for right-sizing global investments. SAO works seamlessly with popular license managers (e.g. FLEXlm, FlexNet, LM-X...) to providing a single, aggregated view of enterprise software assets, so IT managers can improve capacity planning.

From Our **Users and Partners**

“Ultimately, the cost savings to the government is huge....We chose Altair thanks to PBS Professional’s rich set of queuing, managing, and reporting capabilities and the company’s willingness to innovate with us.”

–**Lockheed Martin**

“PBS Professional beat the competition in both performance and flexibility. Altair really knows HPC – they understand the challenges of maintaining complex systems and know how to deliver reliable solutions that work.”

–**NCI**

“Display Manager is our most significant functionality update since the move to HPC itself. In most cases we are saving a full day of time or more. We get instant feedback, make the change and have enough time to view the results of those changes the same day.”

–**PING Golf**

“Altair proved the total value of HyperWorks Unlimited [with PBS Works] was far superior to purchasing dedicated HPC hardware or extending our existing licenses.”

–**Stanley Black & Decker**

“PBS Professional is the right choice for any production systems with complex and changing requirements, from departmental to large-scale computing systems. The product’s flexibility, and the company’s expertise and support, is simply unparalleled.”

–**Fujitsu**

“With Compute Manager it’s much easier for our engineers to manage simulation jobs and data. Compute Manager is a key enhancement to our PBS Works environment, ensuring we extract more value from all our software investments while helping our users to be more efficient and productive.”

–**Tower International**

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