



HPC AND CLOUD

altair.com/hpc-cloud

In the data center and in the cloud, Altair's industry-leading HPC tools let you orchestrate, visualize, optimize, and analyze your most demanding workloads, easily migrating to the cloud and eliminating I/O bottlenecks. Top500 systems and small to mid-sized computing environments alike rely on Altair to keep infrastructure running smoothly. With longstanding hardware and cloud provider partnerships, we handle the integrations for you so your team can focus on moving business forward.

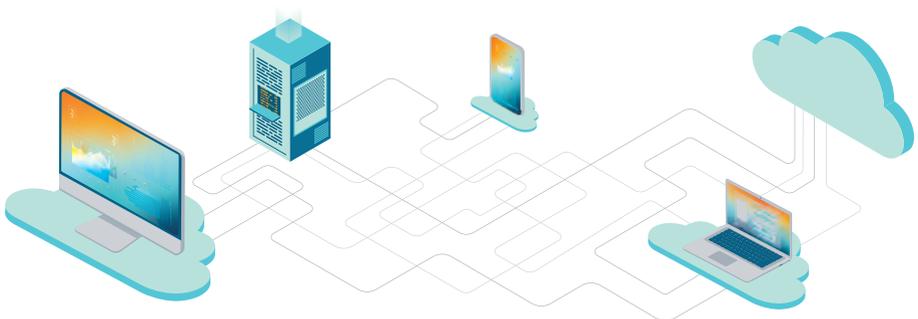
WORKLOAD MANAGEMENT

The Altair® PBS Works™ suite includes industry-leading workload manager Altair® PBS Professional®, designed to improve productivity, optimize utilization and efficiency, and simplify administration for HPC clusters, clouds, and supercomputers — from the biggest HPC workloads to millions of small, high-throughput jobs. Get maximum throughput for EDA jobs with Altair® Accelerator™, an enterprise-grade scheduler capable of running millions of jobs per day, or optimize workloads and resources in thousands of distributed data centers with Altair® Grid Engine®. For advanced design flow development and execution, Altair® FlowTracer™ optimizes compute resources.



HPC USABILITY & REMOTE VISUALIZATION

Altair® Access™ frees scientists, researchers, and engineers from technology headaches so they can focus on their core work and spend less time learning how to run applications and moving data around. Access provides a simple, powerful, and consistent interface for submitting and monitoring jobs on remote clusters, clouds, and other resources. Remote visualization and collaboration capabilities bring access to expensive, high-end 3D visualization datacenter hardware right to the user.





LICENSE MANAGEMENT

Visualize, analyze, and optimize utilization of enterprise-wide software from anywhere with Altair® Software Asset Optimization (SAO). Right-size your organization's software portfolio using real data and 70+ reports to make informed business decisions. Or choose Altair® Monitor™, a license tracking tool that gives users and administrators real-time insight into software license availability, usage, job status, and more. The Altair® Allocator™ multi-site license allocation and management tool maximizes license usage through sharing.

CLOUD BURSTING & MIGRATION

Say goodbye to peak-time workload conflicts with PBS Professional's intuitive cloud bursting GUI or burst with Altair® Control™, the HPC administrator's control center for managing, optimizing, and forecasting HPC resources on-premises and in the cloud. Seamless cloud bursting capabilities and advanced analytics support data-driven planning and decision-making. Quickly, easily, and securely burst to different cloud platforms including Oracle Cloud Infrastructure, Google Cloud Platform, Microsoft Azure, and Amazon Web Services (AWS). Migrate compute-intensive HPC workloads to the cloud with Altair® NavOps®, featuring real-time insights and complete visibility into cloud resources.



I/O PROFILING & MONITORING

Find rogue applications and eliminate bottlenecks, take control of file system dependencies, and get live per-job application telemetry for HPC and hybrid cloud. With Altair Breeze™, every engineer is an I/O expert, quickly solving software deployment problems and resolving file and network dependencies. With detailed data for storage exports and summary reports for sharing, Breeze identifies good and bad I/O for easy wins. Because monitoring is increasingly important as distributed systems and compute clusters become more complex, Altair Mistral™ monitors I/O, CPU, and memory, quickly locating rogue jobs and storage bottlenecks and keeping track of what's running on clusters day-to-day.

TURNKEY HPC

Altair® Unlimited™ boxes up software, system administration, and infrastructure as a service (IaaS) into a single, intuitive platform. This state-of-the-art private appliance is available in both on-premises and cloud-based formats. It delivers unlimited use of a wide range of Altair® HyperWorks® solver software for simulating mechanics, fluids, electromagnetics, and more, plus PBS Works to keep it all running with maximum efficiency.

ALTAIR ONE™

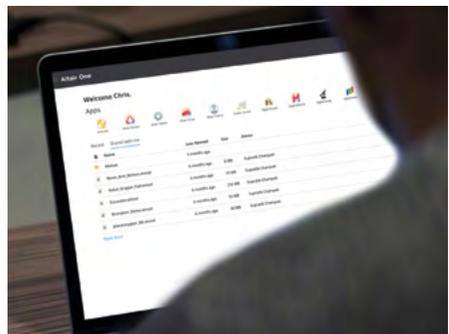
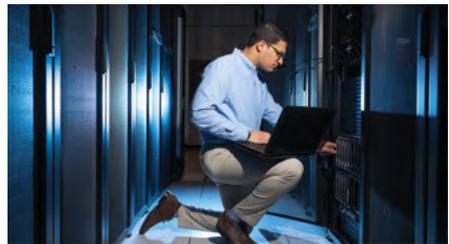
Explore further with Altair One, a turnkey platform that brings together powerful engineering and analytics tools and scalable computing resources, all in one place. With Altair One you get dynamic, collaborative access with a central data repository. Provision scalable resources in the cloud or on-premises through a single pane of glass, run cloud versions of your favorite software, and run simulation jobs in the cloud. Accelerate discovery with unlimited access to all the software and HPC resources you need.

Learn how Altair can help you
altair.com/hpc-cloud

Altair HPC & Cloud Partners

Altair maintains close business partnerships with major hardware vendors including HPE, Fujitsu, Intel, NVIDIA, and more, providing key integrations at the hardware/OS level. Altair also works closely with cloud partners including Microsoft Azure, Amazon AWS, Google GCP and Oracle OCI. With decades of industry expertise and through our direct partner relationships, Altair helps customers navigate industry trends, avoid vendor lock-in, and embrace new technology to drive business forward.

[Learn More](#)



POWERING INNOVATION FOR OVER 2,000 ENTERPRISE COMPUTING CUSTOMERS ACROSS THE GLOBE.



Altair Accelerator's scheduling speed is 10x that of the competitive solutions we have evaluated.

Inphi Corporation



Ultimately, the cost savings to the government is huge.

Savings are achieved through reduced hardware costs, reduced staffing requirements, reduced security maintenance and other costs, licensing fees, and more.

**Joseph Swartz, Program Chief Scientist
Lockheed Martin**



Altair is a global technology company that provides software and cloud solutions in the areas of simulation, high-performance computing (HPC), and artificial intelligence (AI). Altair enables organizations across broad industry segments to compete more effectively in a connected world while creating a more sustainable future.

To learn more, please visit altair.com



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