

Cray and Altair: HPC Leadership

Cray and Altair lead the HPC industry with solutions that optimize performance for compute-intensive work. With Cray systems running Altair software, companies of all sizes get the highest available levels of scalability, speed, and efficiency — in the datacenter and in the cloud.

“The Cray XC supercomputer with Altair PBS Professional™ will allow our users to expand the scope of their research efforts with a proven, well-integrated solution they can rely on.”

—Japan Advanced Institute for Science and Technology (JAIST)



With a combined 70+ years delivering cluster and supercomputing solutions to thousands of organizations, Altair and Cray know how to meet the needs of HPC users better than anyone.

HPC Passion

HPC is more than a business focus — it's the shared passion that powers our collaboration, so our users benefit from the experience of two of the most trusted names in HPC.

Comprehensive HPC Solutions

From hardware systems spanning compute, storage, and data analytics to an award-winning portfolio of HPC and design software, Cray and Altair help organizations of all sizes tackle their biggest computing challenges.

Shared Customer Focus

Selecting an HPC provider is as important as choosing a solution. Cray and Altair have well-earned reputations for service and support excellence, with experts who provide the domain knowledge, responsiveness, and dedication required for success.

Addressing Big Challenges

For decades Cray and Altair have worked with users across a broad range of industries to solve big compute challenges. By leveraging Cray's supercomputing and infrastructure solutions together with the Altair HyperWorks™ design suite and Altair PBS Professional for optimized scheduling, organizations have successfully tackled some of the world's largest simulation challenges.

Customized Industry Solutions

Cray and Altair actively collaborate to create, test, and optimize joint solutions for specific industry segments and use cases. This collaboration begins with architecture, where we pinpoint optimal system configurations. It extends to our laboratories, to ensure our respective hardware and software components interoperate reliably. And our R&D groups go beyond that — exploring best practices and optimization to yield the highest possible performance levels.

Sample Solution Collaborations

- **Crash & Safety Simulation:** Altair Radioss™ software has been tested on Cray® XC™ systems to over 16,000 cores, giving engineers the power to improve the speed and accuracy of design analysis.
- **HPC Workload Management:** PBS Professional, part of the Altair PBS Works™ workload management suite, is Cray's preferred workload manager, offered via an OEM agreement that lets Cray easily integrate and bundle PBS units with new systems shipped globally.
- **Oil & Gas Component Engineering:** With the Altair AcuSolve™ CFD solver running on Cray systems, operators and engineers can perform advanced subsea design analysis with better speed, scalability, and accuracy.
- **Aerodynamics Systems:** With Altair's HyperWorks Virtual Wind Tunnel running on Cray systems, manufacturers can predict external aerodynamic performance without the need for numerous physical tests.

For more information: www.cray.com | www.altair.com/cray-and-altair