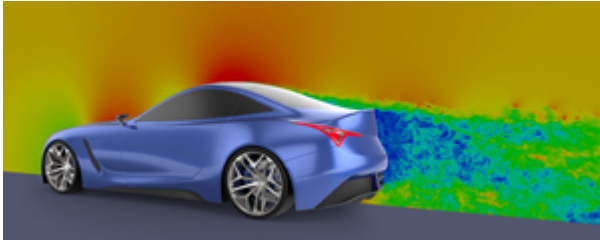




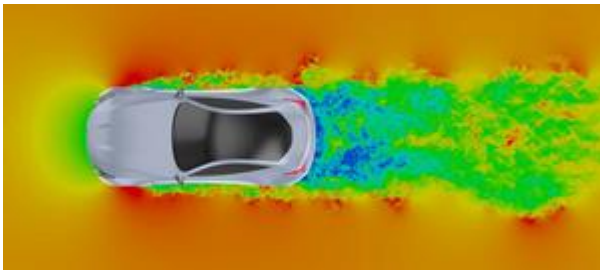
## Altair and Oracle Offer Faster High-Performance Computing in the Cloud

October 23, 2018

Joint solution leverages GPU technology for exceptional CFD simulation performance



Quick turnaround times using Lattice Boltzmann technology on GPU Hardware



Transient highly resolved flow simulations of fully detailed cars overnight

TROY, Mich., Oct. 23, 2018 (GLOBE NEWSWIRE) -- [Altair](#) (Nasdaq:ALTR) has expanded its relationship with [Oracle](#) to offer on-demand, Computational Fluid Dynamics (CFD) technology on Oracle Cloud Infrastructure, accelerating external aerodynamics and other complex flow simulations. This new offering, powered by GPU technology, provides a highly-scalable solution at an affordable cost.

"We are excited to expand our relationship with Oracle," said Sam Mahalingam, Chief Technical Officer for Enterprise Solutions at Altair. "We find that access to GPU compute resources can be challenging for our customers. The integration with Oracle's cloud platform addresses this challenge, and provides customers the ability to use GPU-based solvers in the cloud for accelerated performance without the need to purchase expensive hardware. Ultimately this leads to improved productivity, optimized resource utilization, and faster time to market."

There is growing demand for solutions that enable increasingly more complex optimization-driven physics and flow simulations to drive decision-making and innovation. GPUs provide the ideal compute resources to handle these more strenuous workloads. Oracle Cloud Infrastructure offers fast and scalable computing, including GPU instances and best-in-class cloud storage capabilities that preclude the need to unnecessarily move large amounts of data.

Advanced CFD solvers such as Altair ultraFluidX™ and Altair nanoFluidX™ are optimized on the Oracle Cloud to provide overnight simulation results for the most complex cases on a single server. ultraFluidX provides fast prediction of the aerodynamic properties of passenger and heavy-duty vehicles, buildings and other environmental use cases. nanoFluidX predicts the flow in complex geometries with complex motion, such as oiling in powertrain systems with rotating gears and shafts, using the Smoothed-Particle Hydrodynamics (SPH) simulation method. Both solvers are now available on Oracle Cloud Infrastructure, and can leverage GPU instances, bringing the power of HPC to advanced CFD simulation.

"The combination of Oracle's HPC capabilities such as our cutting edge bare-metal GPU infrastructure including the [recently announced](#) GPUs, our new leading low latency RDMA network and high-performance storage options combined with Altair's market leading CFD solvers makes this collaboration extremely compelling for large enterprises looking to optimize their product development," said Vinay Kumar, Vice President, Product Management, Oracle Cloud Infrastructure. "We're working together with Altair to truly define what it means to run HPC workloads in the cloud, and today's availability of HyperWorks CFD Unlimited proves this."

To learn more please visit [www.altair.com/oracle](http://www.altair.com/oracle), and [this Oracle blog](#).

### About Oracle Cloud Infrastructure

Oracle Cloud Infrastructure is an enterprise Infrastructure as a Service (IaaS) platform. Companies of all sizes rely on Oracle Cloud to run enterprise

and cloud native applications with mission-critical performance and core-to-edge security. By running both traditional and new workloads on a comprehensive cloud that includes compute, storage, networking, database, and containers, Oracle Cloud Infrastructure can dramatically increase operational efficiency and lower total cost of ownership. For more information, visit <https://cloud.oracle.com/iaas>.

**About Altair (Nasdaq:ALTR)**

Altair transforms design and decision making by applying simulation, machine learning and optimization throughout product lifecycles. Our broad portfolio of simulation technology and patented units-based software licensing model enable Simulation-Driven Innovation™ for our customers. With more than 2,000 employees, Altair is headquartered in Troy, Michigan, USA and operates 71 offices throughout 24 countries. Altair serves more than 5,000 customers across broad industry segments. To learn more, please visit [www.altair.com](http://www.altair.com).

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