

## Intel-Colfax-Altair Cluster Trial Program

Try a turnkey HPC cluster for accelerated CAE simulations

- ✓ Intel Cluster Ready-certified end-to-end solution
- ✓ Altair HyperWorks solvers and PBS Professional
- ✓ No obligation "Try Before You Buy" program



Intel  
Cluster  
Ready

## Trial Program Testimonial: Nexteer



**The Company:** Nexteer Automotive is a global leader in advanced steering and driveline systems. Nexteer's in-house development and integration of hardware, software and electronics gives the company an unmatched competitive advantage as a full service steering supplier. Nexteer draws upon a 100-year heritage of vehicle integration expertise and product workmanship. The company has a strong foundation and a reputation for providing dependable steering solutions and enduring customer relationships. To learn more, visit [www.nexteer.com](http://www.nexteer.com).

*"The time it took for my job to complete was really great. My job took just 30 minutes -- usually I have to submit this kind of job over an entire weekend."*

*-- Ravi Ravindra, Nexteer*

**The User:** Nexteer's Ravi Ravindra, a senior analytical engineer, works in the steering column product line and is involved with new concept development and testing. His work includes using finite element analysis (FEA) tools like Altair HyperMesh, which is extensively used for high quality mesh generation and analysis setup.

**The Results:** Ravi submitted a job for optimization of a mounting bracket using OptiStruct. It took only about 30 minutes for the job to complete -- this would have taken much more time on Nexteer's existing resource due to long wait times and sometimes unavailability of tokens; Ravi normally has to submit this type of work over a weekend and wait for results.

*"The Colfax-Altair trial is a fast, easy way to evaluate the efficiencies that can be gained from running FEA jobs on a turnkey cluster."*

*-- Ravi Ravindra, Nexteer*

Nexteer is also investigating Altair OptiStruct, an optimization-driven structural analysis solver that helps designers and engineers rapidly develop innovative, lightweight and structurally efficient designs.

Ravi also commended Colfax and Altair support personnel for their assistance and expertise. "Colfax and Altair were very helpful in setting up my trial for submitting and downloading jobs, and I thank them for their expert support."

**The Trial:** At least 50 Nexteer engineers use FEA tools, so the compute server often becomes a road block, causing long wait times for jobs to complete. Thus, Nexteer wanted to test the Colfax cluster to evaluate the solution for financial benefits and potential speedup of results turnaround.

Overall, Nexteer was pleased with the trial cluster's performance: they were able to evaluate the results of their production HPC work on a turnkey Colfax cluster, and they learned about a more efficient way to perform their FEA analyses with Colfax and Altair.

Find out more: [www.colfax-intl.com/ms/icr/icr.htm](http://www.colfax-intl.com/ms/icr/icr.htm)