

## EnSight Gold Software Gets RAVE Reviews at NASA Glenn Research Center VR Lab

*CLEVELAND, Ohio, Sept. 26, 2001* - NASA Glenn Research Center has teamed with CEI to install EnSight Gold high-end visualization software on Fakespace's RAVE VR system. The hardware/software combination is being used to visualize air flow in jet engine combustors and to determine the effects of a broken blade on a jet turbine engine.

The RAVE (Reconfigurable Advanced Visualization Environment) is the latest addition to NASA Glenn's Reconfigurable User Interface and Virtual Reality Exploration (GRUVE) laboratory. The system consists of three 8x8-foot, moveable rear-screen projection modules. Researchers can use the RAVE to create a variety of display environments, from a single 8x24-foot wall for high-resolution data displays to an immersive three-walled CAVE, like the one developed by the University of Illinois. EnSight Gold is being used to interactively visualize large datasets on the RAVE display screens.



"With EnSight Gold on the RAVE, a detailed model of an intricate structure with many components, such as a jet engine, can be viewed from all angles and diverse vantage points," says Jay Horowitz, visualization manager at NASA Glenn. "We can now bring our data visualizations more 'out of the screen' than before. It is surprising how much better you can understand complex phenomena when you have more control over how you view it."

EnSight Gold is designed specifically for analyzing, visualizing and communicating results for the world's largest scientific and engineering problems. It takes advantage of today's newest generation of parallel-processing computers and VR systems.

Horowitz says EnSight Gold's automatic detection and display of major flow features is helpful to researchers. "Being able to display vectors, particle traces and isosurfaces further clarifies physical events for us."



Since 1999, CEI's product line has grown from one package to four integrated offerings, including EnSight, EnSight Gold, EnVideo and EnLiten. CEI now offers an entire suite of tools for visualization needs, from plotting to animation running on the most advanced VR displays.

CEI has corporate headquarters in Apex, N.C., and authorized distributors around the world. In addition to EnSight and related products, CEI provides consulting services to engineers and scientists from organizations that need to visualize computational results for research, product design or product refinement.

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