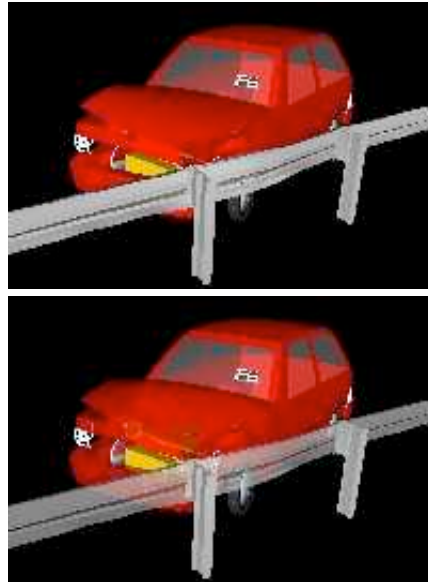


CEI Releases V7.3 of EnSight and EnSight Gold; Offers Free API for Creating Portable Video Files

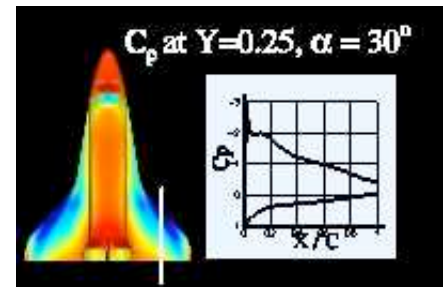
APEX, N.C., May 16, 2001 - CEI has released version 7.3 of EnSight and EnSight Gold, the company's software for analyzing, visualizing and communicating complex engineering and scientific data. The company also released a free, open-source application programming interface (API) that allows users to create digital video files from their own application packages.

Major new features in EnSight and EnSight Gold 7.3 include:

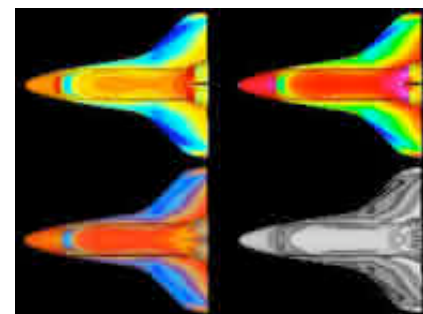
- **Animation transparency** - Transparency modifications can be included in keyframe animations, allowing parts to fade in or out of the scene during replay.
- **More annotation** - Support has been added for subscripts, superscripts and mathematical symbols.
- **EnVideo Basic** - The free version of CEI's virtual video player is bundled with V7.3. It can be installed along with EnSight as a means to play EnVideo-format (evo) animation files created in EnSight.
- **Flow-feature extraction** - Released last summer in EnSight Gold, this function is now available in standard EnSight. It allows users to extract and visualize features such as shock surfaces, vortex cores, lines of boundary layer separation and reattachment, and boundary layer characteristics.
- **Palette editor upgrades** - Color palettes can be defined and saved as defaults. Numerous predefined palettes have been added, including the FAST default color palette.
- **More preferences** - Dozens of program settings can now be saved in a user-specific preference file, including common data formats, default print format, viewport background color, mouse key actions, and others.
- **Saving scenario files** - Scenarios for EnLiten, CEI's geometry viewer, can now be saved to a single .els file, or a directory of related files can be created.
- **CGNS** - A new reader has been added for the CFD General Notation System (CGNS) data format, which is being developed by a consortium of industrial and research organizations. CEI's reader adheres to the most recent CGNS standards and has been thoroughly tested against benchmark models and actual customer applications. It is available for all Unix, Linux and Windows platforms supported by other CEI products.



Animation Transparency



More Annotation: Symbols, subscripts and superscripts now supported



Palette Editor Upgrades

New features exclusive to EnSight Gold include:

- **Decomposed Datasets** - A server-of-servers has been added to visualize decomposed models on distributed-memory parallel systems.
- **Parallel rendering** - Multiple graphics pipelines can be used to render models in parallel to single- or multi-display devices, including monitors and visualization desks, benches, walls and multi-panel systems.
- **Partial display** - Users can set the percentage of a given model's polygons to be displayed during transformation to improve interactivity.



Partial display

"The new features and greater functionality in EnSight and EnSight Gold 7.3 reflect our customer's needs and the results of our ongoing research work for national labs in the U.S., Europe and Japan," says Kent Misegades, CEI president. "Our developers are continuing to work on

improvements ranging from our powerful, integrated plotter, to numerous visualization features requested by our users. This includes integrating new data readers, researching visualization on Linux clusters, and expanding rendering capabilities for virtual reality environments such as powerwalls, benches and caves."

CEI's new digital video API uses the evo format, which makes it easy to view engineering and scientific visualizations on any computing platform. Videos in evo format are high-quality, but small enough so they can be distributed over the Internet or within PowerPoint presentations. evo files can be played on EnVideo Basic, CEI's free software package for viewing animations one at a time, or EnVideo Pro, a full-featured online video player that supports stereographic viewing.

Since 1999, CEI's product line has grown from one package to six integrated offerings, including EnSight, EnSight Gold, EnVideo Basic, EnVideo Pro, EnLiten Basic and EnLiten Pro. CEI now offers an entire suite of tools for visualization needs, from plotting to 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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