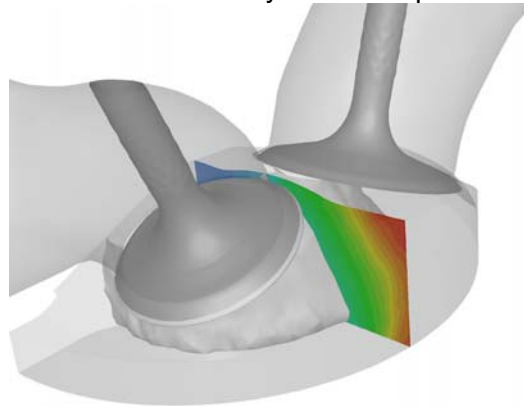


## FLUENT 6.2 Broadens the Spectrum of CFD Simulations in Automotive Applications.

March 17, 2005, Lebanon NH, US.... Fluent Inc., the world leader in computational fluid dynamics (CFD) software and services, recently announced the release of the latest version of its flagship CFD software, FLUENT 6.2. This release has over 300 new capabilities, many of which are uniquely important for automotive simulations. FLUENT 6.2 broadens the spectrum of potential CFD applications in the automotive industry. At the same time, key enhancements to the core FLUENT solver have led to dramatic speed-ups and improved accuracy, significantly boosting performance for many automotive simulations.

FLUENT 6.2 now offers the most extensive set of CFD modeling capabilities available to the automotive community covering a full range of automotive applications:

- High accuracy external aerodynamics predictions
- Reliable and robust underhood thermal management simulation including radiation heat transfer
- An easy-to-use moving/deforming mesh approach along with a selection of spray, ignition and combustion models for in-cylinder computations

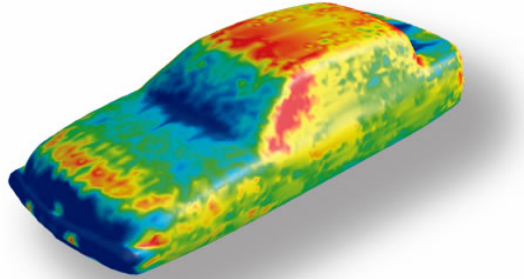


*Predicted flame front and ignition progress variable for a four-valve engine running under knocking conditions*

- Industry-leading multiphase flow modeling including phase-change for analyzing climate control, defrosting and defogging
- Free surface modeling to simulate tank filling and sloshing
- Enhanced dispersed phase models for spray painting

Several features within FLUENT 6.2 are useful for designing, optimizing, and manufacturing automotive components. A new solar radiation model allows for in-depth

studies of thermal conditions within the cabin of a vehicle. In addition, there is a complete suite of aeroacoustics tools which allow automotive users to study wind noise past rear view mirrors, open sun-roofs, and window sills. The noise generated by rotating fans and by internal flows through ducts, valves, and manifolds, can also be analyzed.



*Predicted Acoustic power level on the surface of a sedan*

Werner Seibert, Fluent's Global Automotive Segment Manager said, "FLUENT 6.2 will substantially improve design and optimization processes in the automotive industry. Tremendous speed-ups, of up to a factor of 10, have been seen for unsteady simulations during beta testing. Improvements to solver accuracy, particularly for unstructured meshes, and parallel processing were made without compromising the characteristic robustness and ease of use of the software. FLUENT 6.2 has been extensively beta-tested by our users and was subjected to the most comprehensive industrial test matrix in the world today. FLUENT 6.2 is a milestone for applied CFD software, built on a proven legacy of delivering real world automotive solutions within realistic industrial timescales."

#### **About Fluent**

Fluent is the world's largest provider of computational fluid dynamics (CFD) software and consulting services. Fluent's software is used for simulation, visualization, and analysis of fluid flow, heat and mass transfer, flow-induced noise and chemical reactions. It is a vital part of the computer-aided engineering (CAE) process for companies around the world and is deployed in nearly every manufacturing industry. FLUENT is used extensively in the Motor Racing industry worldwide by the vast majority of race teams. Using Fluent's software, engineers build virtual prototypes and simulate the performance of proposed and existing designs, allowing them to improve design quality while reducing cost and speeding time to market. Fluent's corporate headquarters are located in Lebanon, New Hampshire, USA, with offices in Belgium, England, France, Germany, India, Italy, Japan, China and Sweden. Its CFD software is also available around the world through joint ventures, partnerships, and distributors in Korea, Australia, Brazil, China, Taiwan, the Czech Republic, Middle East, and most European countries.

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