

Exa Announces Major Software Release of PowerFLOW and Two New Products – PowerCOOL and PowerTHERM

Enhanced physics and new products offering expanded thermal functionality make Exa the choice for customers requiring fast, accurate simulations across multiple disciplines – aerodynamics, aeroacoustics and thermal management.

BURLINGTON, MA. USA—November 17, 2006—Exa® Corporation, the only provider of computer-aided engineering [CAE] and computational fluid dynamics [CFD] simulation software and services capable of supporting real design processes, today announced the immediate availability of PowerFLOW® 4 and the inaugural release of PowerCOOL™ and PowerTHERM™. Five years in the making, PowerFLOW 4 boasts enhanced versions of its unique LBM (Lattice Boltzmann) physics resulting in more predictive, consistent and accurate results on even the most complex CAD models in industry-leading turn around timeframes. Exa's newest software applications, PowerTHERM and PowerCOOL enhance the software suite by providing full heat transfer functionality including conduction, convection, radiation and modeling of heat exchangers in a fully integrated environment within PowerFLOW. Due to these new releases, Exa's customers now have the opportunity to perform simulations using a common, high-fidelity geometry model across multiple applications including aerodynamics, aeroacoustics and thermal management – something no other CAE/CFD company can claim.

Mission: TotalANALYSIS™

Exa's singular goal is to develop products that seamlessly integrate and revolutionize design and engineering processes allowing our customers to deliver higher quality and better engineered products...faster. With this in mind, PowerFLOW 4 is Exa's next generation of software in its goal to provide TotalANALYSIS solutions. TotalANALYSIS refers to a single suite of easy-to-use, integrated software solutions that are capable of providing *complete* results for aerodynamics, thermal management and aeroacoustics in product development timeframes – a significant savings in time and money for its customers.

Already implemented at many global automotive manufacturers, Exa's suite of software solutions have helped those in this technology-driven industry study and improve their vehicles using one geometry for simulations that offer results on everything from lift and drag, to HVAC, component temperatures and wind noise. By significantly streamlining engineering and development, Exa's TotalANALYSIS approach offers a clear alternative to existing physical test processes in an industry where delays cost millions.

PowerFLOW 4 product features/benefits include:

- **Improved Physics** – fundamental improvement of Exa's unique LBM physics that enhances its core ability to easily and accurately simulate extremely complex CAD models.
- **Aeroacoustics** – better prediction of high frequencies
- **Expanded Temperature Range** – Allows users to simulate a full range of temperatures encountered in thermal management simulations
- **Accelerated Temperature Solver** – Faster performance for thermal simulations

PowerCOOL product features/benefits include:

- New analysis tool that enables the modeling of heat transfer between cooling airflow and heat exchangers in the vehicle underhood region

PowerTHERM product features/benefits include:

- New solution for the simulation of conduction in solids and radiation between hot surfaces, a key requirement for the reliable prediction of underhood and underbody surface temperatures
- Allows for fully integrated coupling of the PowerFLOW convection solver with radiation and conduction effects

National Science Foundation Support

Research on hybrid lattice Boltzmann techniques leading to the development of thermal prediction capabilities in PowerFLOW and PowerCOOL was supported by the National Science Foundation.

Pricing & Availability

PowerFLOW, PowerCOOL and PowerTHERM are immediately available for various platforms. For pricing and additional product information, please contact your regional Exa Corporation representative.



About Exa Corporation

Exa Corporation develops, markets, and supports a full suite of CAE and CFD simulation software tools including PowerFLOW®, PowerCLAY®, PowerWRAP™, PowerVIZ®, PowerSPECTRUM®, PowerCOOL™ and PowerTHERM™ along with professional engineering consulting services. Exa's products and services enable engineers to create competitive designs, while shortening product design cycles, and speeding time-to-market. A partial customer list includes: Audi, BMW, DaimlerChrysler, FKFS, Ford, Hyundai, Kenworth, MAN, Nissan, Peterbilt, Renault, Scania, Volkswagen, and Volvo Trucks.

Founded in 1991, the company is headquartered at 3 Burlington Woods Drive, Burlington, MA, USA 01803. Tel: 1.781.676.8500; Fax: 1.781.676.8599; Email: info@exa.com; URL: www.exa.com

#

Exa, PowerFLOW, PowerCLAY, PowerSPECTRUM and PowerVIZ are registered trademarks and PowerWRAP, PowerTHERM and PowerCOOL are trademarks of Exa Corporation. Other products and services mentioned herein may be trademarks or registered trademarks of their respective companies.

For more information please contact:

Michelle Murray-Ross
Exa Corporation
1.781.676.8551
michelle@exa.com