



ANSYS Partners With Leading European Supercomputing Center

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PITTSBURGH, Jan. 15, 2015 /PRNewswire/ -- Researchers from academic institutions across Europe will soon be able to perform some of the most sophisticated simulations imaginable thanks to a new partnership between [ANSYS](#) (NASDAQ: ANSS) and the [High Performance Computing Center](#) (HLRS) of the University of Stuttgart/Germany.



The partnership offers researchers access to ANSYS' engineering simulation solutions on HLRS' supercomputing assets to perform demanding computational fluid dynamics (CFD) simulations for industrial machinery and internal combustion engine applications. Those applications require all simulation variables to be analyzed over time and space, which puts significant demands on high performance computing (HPC) power and data storage. Both applications involve developing and enhancing sophisticated simulation models that are associated with such complex phenomena as fuel injection, evaporation and fuel-wall interaction, as well as combustion and emission formation.

"In the past, academia's adoption of solutions such as those provided by ANSYS on high-end supercomputing platforms was hindered by cost. In some cases, the lack of domain expertise in applying HPC to scientific research represented an additional obstacle," said Wim Slagter, ANSYS' lead product manager for HPC. "This partnership will remove those hurdles, demonstrate the potential of supercomputing and accelerate cutting-edge CFD research in academic labs."

This collaboration between HLRS and ANSYS supports the German government's high-tech strategy because it paves the way for optimized utilization of available HPC infrastructure, such as HLRS' petascale system, dubbed [Hornet](#). The Cray XC40 supercomputer features the Cray Aries network and includes nearly 95,000 Intel Haswell processor cores. ANSYS solutions provide extreme scalability beyond 20,000 processor cores, enabling users to perform multiphysics, multi-scale simulations with a degree of accuracy that was previously impossible to achieve using this software.

"This partnership will help to accelerate the pace of groundbreaking research for the development of commercial products in the equipment manufacturing and automotive sectors, among others," said Michael M. Resch, HLRS director. "As one of Europe's leading HPC centers, we are proud to have further enhanced our access to HPC technology and computational services that are secure and extremely scalable. These new capabilities enable us to strengthen one of the world's best scientific research ecosystems."

About HLRS (www.hlrs.de)

The High Performance Computing Center Stuttgart (HLRS) of the University of Stuttgart is one of the three German supercomputer institutions forming the national Gauss Centre for Supercomputing. HLRS supports German and pan-European researchers as well as industrial users with leading-edge supercomputing technology. Its Cray XC40 system (code-named Hornet), which is designed for sustained application performance and highly scalable applications, delivers a peak performance of 3.8 Petaflops.

About ANSYS, Inc.

ANSYS brings clarity and insight to customers' most complex design challenges through fast, accurate and reliable engineering simulation. Our technology enables organizations — no matter their industry — to predict with confidence that their products will thrive in the real world. Customers trust our software to help ensure product integrity and drive business success through innovation. Founded in 1970, ANSYS employs over 2700 professionals, many of them expert in engineering fields such as finite element analysis, computational fluid dynamics, electronics and electromagnetics, embedded software, system simulation and design optimization. Headquartered south of Pittsburgh, U.S.A., ANSYS has more than 75 strategic sales locations throughout the world with a network of channel partners in 40+ countries. Visit www.ansys.com for more information.

ANSYS also has a strong presence on the major social channels. To join the simulation conversation, please visit: www.ansys.com/Social@ANSYS

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