Netlist's Hypercloud™ Memory Streamlines Swift's CFD HPC SIMS

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16GB memory module supports next-generation Computational Fluid Dynamic simulations and adds speed to aerodynamic racecar design process

IRVINE, Calif., Oct. 18, 2011 /PRNewswire/ -- Netlist, Inc. (Nasdaq: NLST), a designer and manufacturer of high-performance memory subsystems, today announces that it is partnering with Swift Engineering, a leading global designer and manufacturer of composite high-performance aerodynamic structures. The two companies are teaming up to enhance Computational Fluid Dynamic (CFD) simulations for design, testing and analysis of high-performance aircraft and racecars. Leveraging the benefits of Netlist's HyperCloud™ 16GB memory module, Swift is able to push the traditional capabilities of memory intensive CFD with next-generation simulations.

(Photo: http://photos.prnewswire.com/prnh/20111018/LA88834)

Designing racecars and aircraft with optimal performance characteristics is a difficult task requiring intensive development and analysis at each step of the process. To do so, Swift uses tools such as Altair's HyperWorks suite, Metacomp Technologies' CFD++ and Platform Computing cluster management software (Platform HPC) on its pair of Cray CX1s and Cray CX1000 High Performance Computing (HPC) systems. With the integration of Netlist's HyperCloud memory, these tools have the memory and processing power to handle transactions rapidly with maximum bandwidth performance.

"With Netlist, we were able to create CFD grids 4 times larger than with our standard memory configuration which was crucial in allowing us to tackle larger and more complicated problems," said Dr. John Winkler, Swift's Chief Aerodynamicist. "In fact, adding Netlist's HyperCloud modules to our HPC resources is instrumental in our quest to being the first to publish a comprehensive 'unsteady CFD study' of two racecars interacting in a complete passing maneuver before the year is out!"

HyperCloud overcomes memory constraints associated with CFD simulations and complex modeling. In this instance, HyperCloud memory was integrated on the Cray CX1 system utilizing Intel Westmere processors to achieve unprecedented 192GB total memory running at 1333 MT/s.

"We are excited to deliver the performance advantages Swift requires to advance its design process," said Steve McClure, vice president of worldwide sales and marketing at Netlist. "With Netlist's higher memory capacities and speeds, Swift is able to glean significant advantage in time-to-market and total project costs."

Swift is a featured presenter at the International Motorsports Industry Show's Aero Seminar and will present its unsteady CFD racecar passing maneuver study December 7th, 2011.

Additional information on Netlist's HyperCloud can be found at www.netlist.com/hypercloud.

About Swift Engineering, Inc.

Founded in 1983 and headquartered in San Clemente, CA, Swift Engineering is a leading provider of light-weight aerodynamic structures and high-performance vehicles. Swift has diverse experience as a designer, developer and manufacturer of light-weight advanced composite products and concept vehicles. Swift's achievements include the Eclipse composite private jet airplane, a complete line of blended wing Unmanned Aerial Vehicles (UAVs) and is the exclusive racecar designer and manufacturer for Formula Nippon, Japan's premier open-wheel racing series. Swift's products support commercial and U.S. national security initiatives in highly complex environments requiring world-class engineering reliability, scalability, flexibility and rapid manufacturing. For more information on Swift Engineering, Inc. please visit www.swiftengineering.com

About Netlist:

Netlist, Inc. designs and manufactures high-performance, logic-based memory subsystems for datacenter server and high-performance computing and communications markets. Netlist's flagship products include HyperCloud™, a memory module that breaks traditional memory barriers, and the NVvault™family of products, including NVvault™ battery-free, a flash memory-based subsystem that enables data retention weeks following a disaster. The memory technologies are developed for applications in which high-speed, high-capacity memory, enhanced functionality, small form factor, and heat dissipation are key requirements. These applications include tower-servers, rack-mounted servers, blade servers, high-performance computing clusters, engineering workstations, and telecommunication equipment. Founded in 2000, Netlist is headquartered in Irvine, California with manufacturing facilities in Suzhou, People's Republic of China. For more information, visit the company's website at www.netlist.com.

Safe Harbor Statement:

This news release contains forward-looking statements regarding future events and the future performance of Netlist. These forward-looking statements involve risks and uncertainties that could cause actual results to differ materially from those expected or projected. These risks and uncertainties include, but are not limited to, continuing development, qualification and volume production of EXPRESSvault™, NVvault™ and HyperCloud™; the rapidly-changing nature of technology; risks associated with intellectual property, including the costs and unpredictability of litigation over infringement of our intellectual property and the possibility of the Company's patents being re-examined by the United States Patent and Trademark office; volatility in the pricing of DRAM ICs and NAND; changes in and uncertainty of customer acceptance of, and demand for, our existing products and products under development, including uncertainty of and/or delays in product orders and product qualifications; delays in the Company's and its customers' product releases and development; introductions of new products by competitors; changes in end-user demand for technology solutions; the Company's ability to attract and retain skilled personnel; the Company's reliance on suppliers of critical components; fluctuations in the market price of critical components; evolving industry standards; and the political and regulatory environment in the People's Republic of China. Other risks and uncertainties are described in the Company's annual report on Form 10-K, dated March 3, 2011, and subsequent filings with the U.S. Securities and Exchange Commission made by the Company from time to time. Except as required by law, Netlist undertakes no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

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