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Convey Computer Launches New Family of Hybrid-core Computers, Delivering Greater Performance, Functionality, and Energy Efficiency

--Ships First HC-2 System to The Jackson Laboratory to Accelerate High-throughput DNA Sequencing--

Boston—April 24, 2012—Convey Computer™ Corporation announced today a new family of hybrid-core computers—the HC-2™ Series—that accelerates computing even more than previous Convey systems, providing users with greater performance, functionality, and energy efficiency. Convey shipped the first HC-2 system earlier this month to The Jackson Laboratory (JAX), a leading research laboratory in Bar Harbor, Maine.

Convey revolutionized the high-performance computing world in 2008 when it launched the industry's first hybrid-core computer, achieving orders of magnitude increases in application performance. Convey's latest systems, the Convey HC-2 series, accelerate hybrid-core computing even more by providing higher absolute performance, increased functionality, and improved efficiency.

Convey shipped the first HC-2 to JAX, who is using the system for high throughput sequencing in genomics research. "From our initial benchmarks, we anticipate a ten-fold performance improvement in BWA, a key program we use in our research," said Chuck Donnelly, director of Computational Sciences at JAX, referring to the Burrows-Wheeler Aligner. "Faster computing analysis with the Convey system means that we can see results faster—which helps us fulfill our mission to discover the genetic basis in preventing, treating and curing human disease."

According to Bruce Toal, CEO of Convey, the selection of a Convey HC-2 by JAX illustrates a growing trend in the industry. "We're pleased to see leading research organizations, such as JAX, accelerate their research by complementing their traditional servers with heterogeneous systems. Hybrid-core

computing allows our customers to dramatically increase capacity while decreasing power consumption and floor space.”

Better Performance

The Convey HC-2 systems increase application performance 2-3 times over previous generations of Convey servers and orders of magnitude over commodity servers. Earlier versions of the Convey systems allow the performance-critical portions of applications to achieve significant acceleration on the coprocessor. Convey's latest hybrid-core systems attain even greater acceleration by vastly increasing performance for the entire application—even those portions not assigned to the coprocessor.

Convey's groundbreaking hybrid-core computing architecture tightly integrates advanced computer architecture and compiler technology with commercial, off-the-shelf hardware—namely Intel® Xeon® processors and Xilinx® Field Programmable Gate Arrays (FPGAs). The systems help customers dramatically increase performance over industry standard servers while reducing energy costs associated with high-performance computing.

Better Functionality

Convey's HC-2 and HC-2^{ex} provide even more flexibility than previous generations of Convey hybrid-core systems. Now available in numerous configurations, customers can better match Convey hybrid-core technology to fit the performance profile of their particular problem. Customers can customize their implementation with a combination of models, Intel processors, memory configurations and I/O devices.

Better Efficiency

To offset the rising energy costs in HPC data centers, customers are looking to accelerate applications using energy-efficient computing solutions. Employing application-specific computing (especially FPGAs) for specific algorithms is inherently more efficient than using a general-purpose instruction set.

The Convey HC-2 series builds upon the energy efficiency of previous HC generations and takes it even further. When used as nodes in a HPC cluster,

hybrid-core computing can reduce space, power, and cooling requirements up to 90% over racks of commodity servers.

About Convey Computer Corporation

Based in Richardson, Texas, Convey Computer breaks power, performance and programmability barriers with the world's first hybrid-core computer—a system that marries the low cost and simple programming model of a commodity system with the performance of a customized hardware architecture. Using the Convey hybrid-core systems, customers worldwide in industries such as life sciences, research, big data, and the government/military are enjoying increased application performance and lower costs of ownership.

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