



October 25, 2010

Mercury Computer Systems Launches Industry Breakthrough - First Intel-Based Rugged Server-Class Product for ISR Applications

Rugged, OpenVPX Intel-Based Product Enables High Density Server-Class Performance for Deployment in Harsh Military and Aerospace Environments

CHELMSFORD, Mass., Oct 25, 2010 (BUSINESS WIRE) --

Mercury Computer Systems, Inc. (NASDAQ: MRCY, www.mc.com), a trusted ISR subsystems provider, today announced the Intel[®]-based Ensemble[™] HDS6600 High Density Server for rugged deployed ISR systems. The HDS6600 is an industry first that brings Intel enterprise server-class processing to deployed sensor-based systems. The HDS6600 supports 8-way symmetric multiprocessing (SMP) and is based on Intel's Xeon[®] processor, enabling enterprise-class performance typically found in data centers to be forward deployed, in the air and other harsh environments. With the familiar Intel architecture, Linux[®] operating system, and server-class performance, applications can more easily migrate from workstations and ground stations to tactical environments, facilitating a common code base between the lab and deployed environments. The HDS6600 is designed to the OpenVPX[™] standard for ease of integration with traditional sensor hardware, supporting rapid deployment in harsh air- and conduction-cooled environments.

In addition to deployed server applications, the HDS6600 achieves new performance levels in traditional signal and image processing applications. With dual quad-core Intel Xeon enterprise server-class processors in a standard one inch OpenVPX slot, a ten-board system reaches over one Tera Floating Point Operations Per Second (TFLOPS) of peak performance, and an order of magnitude improvement in signal and image processing throughput performance compared to rugged Intel modules available today. To achieve the highest efficiency, an ISR subsystem must have performance balanced with both I/O and memory. The high performance communications among HDS6600 modules is facilitated by Mercury's Protocol Offload Engine Technology (POET[™]), which encapsulates standards-based protocol management, such as Serial RapidIO[®] and PCIe[®], with high speed real time switching capability. The large 12 GB of on-board SDRAM memory is well balanced for the 8 Intel Xeon cores, and represents a 4X increase over previous generation module memory size. For applications requiring even more memory, 24 GB offerings are planned.

For the ultimate size, weight, and power (SWaP) performance, such as is required by persistent ISR applications, the HDS6600 Intel rugged server can be combined with Mercury's latest GPGPU offerings. For example, two high-end GPGPU-based GSC6200 modules, each with two GPGPUs, can be directly connected to a HDS6600 through the OpenVPX expansion plane. This 3 slot slice achieves performance well into the TFLOPS range of processing, and can be replicated multiple times in a chassis to create unprecedented computational performance in an ISR subsystem.

"The new HDS6600 is not only a huge SWaP performance gain compared to previous signal and image processing solutions, but it enables an entire new class of Smart Processing to be added to deployed sensor electronics, such as exploitation algorithms, that were once reserved for the processing on the ground," stated Steve Patterson, Vice President of Defense Product Management at Mercury. "Some believed the HDS6600 was the module which 'could not be done', but we did it. Several distinct innovations were achieved: performance, memory, POET, and unique packaging and cooling. These innovations put the module in a class of its own for Intel-based SWaP optimization, and set a new benchmark for the high performance embedded computing industry," Patterson added.

The product is supported by an open development environment based on Linux and Eclipse, and includes the MultiCore Plus[®] Software Development environment and OpenSAL libraries. Now, users can develop and migrate applications between Intel-based workstations and HDS6600-based deployed systems, promoting rapid software development and ensuring investment protection at the application level.

For more information on the Ensemble 6000 Series OpenVPX Intel Xeon Dual Quad-Core HDS6600 module, visit www.mc.com/HDS6600, or contact Mercury at (866) 627-6951 or info@mc.com.

Mercury Computer Systems, Inc. - Where Challenges Drive Innovation[®]

Mercury Computer Systems (www.mc.com, NASDAQ: MRCY) is a best of breed provider of open, application-ready, multi-INT subsystems for the ISR market. With 25+ years' experience in embedded computing, superior domain expertise in radar, EW, EO/IR, C4I, and sonar applications, and more than 300 successful program deployments including Aegis, Global Hawk, and Predator, Mercury's Services and Systems Integration team leads the industry in partnering with defense and commercial customers to design and integrate system-level solutions that minimize program risk, maximize application portability, and accelerate customers' time to market.

Mercury is based in Chelmsford, Massachusetts, and serves customers worldwide through a broad network of direct sales offices, subsidiaries, and distributors.

Forward-Looking Safe Harbor Statement

This press release contains certain forward-looking statements, as that term is defined in the Private Securities Litigation Reform Act of 1995, including those relating to the products and services described herein. You can identify these statements by the use of the words "may," "will," "should," "plans," "expects," "anticipates," "continue," "estimate," "project," "intend," and similar expressions. These forward-looking statements involve risks and uncertainties that could cause actual results to differ materially from those projected or anticipated. Such risks and uncertainties include, but are not limited to, general economic and business conditions, including unforeseen weakness in the Company's markets, effects of continued geopolitical unrest and regional conflicts, competition, changes in technology and methods of marketing, delays in completing engineering and manufacturing programs, changes in customer order patterns, changes in product mix, continued success in technological advances and delivering technological innovations, continued funding of defense programs, the timing of such funding, changes in the U.S. Government's interpretation of federal procurement rules and regulations, market acceptance of the Company's products, shortages in components, production delays due to performance quality issues with outsourced components, inability to fully realize the expected benefits from acquisitions and divestitures or delays in realizing such benefits, challenges in integrating acquired businesses and achieving anticipated synergies, changes to export regulations, increases in tax rates, changes to generally accepted accounting principles, difficulties in retaining key employees and customers, unanticipated costs under fixed-price service and system integration engagements, and various other factors beyond our control. These risks and uncertainties also include such additional risk factors as are discussed in the Company's filings with the U.S. Securities and Exchange Commission, including its Annual Report on Form 10-K for the fiscal year ended June 30, 2010. The Company cautions readers not to place undue reliance upon any such forward-looking statements, which speak only as of the date made. The Company undertakes no obligation to update any forward-looking statement to reflect events or circumstances after the date on which such statement is made.

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Photos/Multimedia Gallery Available: <http://www.businesswire.com/cgi-bin/mmg.cgi?eid=6480150&lang=en>

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