



October 13, 2011

Mercury Computer Systems Announces Industry's First GPGPU Toolkit and Enhanced Imaging Application Development Capabilities

New Imaging Toolkit helps reduce development cycles, costs and risks while accelerating time-to-market

CHELMSFORD, Mass. - Oct 13, 2011- Mercury Computer Systems, a trusted provider of commercially developed application-ready ISR subsystems, announced its Imaging Toolkit, which delivers breakthrough capabilities for electro-optical, infrared (EO/IR), hyperspectral and radar imaging application development for the defense and commercial markets. The first to leverage the performance power of general purpose graphics processing units (GPGPUs), the Imaging Toolkit helps developers speed time-to-market and lower the overall total cost of development.

"Information is vital to scores of defense and commercial applications. Today, unmanned aerial vehicles (UAVs) with multiple sensors stay aloft for long periods of time performing persistent surveillance; manned vehicles perform operator offload functions such as scene and target tracking; and new applications as diverse as border security, fusion and exploitation, and natural resource management, use advanced sensors on remote platforms. These and similar vital programs collect incredibly large quantities of data that must be processed, analyzed and acted on virtually at once," said Brian Perry, vice president and general manager of Mercury's Services and Systems Integration (SSI) group.

Major challenges in processing and exploiting sensor information from data-rich applications include combining multiple imaging frames in real-time to create instantly actionable information for the people who need it. Mercury's new Imaging Toolkit, optimized for maximum performance on GPGPUs, helps customers address these challenges by providing an open framework to integrate and synchronize an array of sensors through the collection of highly efficient imaging functions. GPGPUs, because they are ideal for performing parallel processing/high-bandwidth imaging on large data sets, serve as the math co-processors for the embedded computing subsystems.

Although GPGPUs traditionally have been difficult to program, Mercury's Imaging Toolkit provides a layer of abstraction between the application and the GPGPU code, insulating developers from the GPGPU implementation details. The algorithms used in the Imaging Toolkit include imaging functions specifically designed to support high-bandwidth data streams from multiple sensors. These are optimized to take full advantage of parallel multicore processing while minimizing data latency, lowering risk, and allowing developers to focus on their application development.

A History of GPGPU Innovation

The Imaging Toolkit leverages Mercury's seven-year track record of bringing the tremendous processing advantages of GPGPUs to a wide range of defense and commercial applications. Mercury first implemented GPGPUs in 2004 as part of a medical imaging application and continues to deliver numerous GPGPU-based solutions, including a wide range of currently deployed, high-performance intelligence, surveillance and reconnaissance (ISR) subsystems.

The first of several customizable toolkits planned by Mercury, the Imaging Toolkit will be enhanced as technology advances require. Mercury's Services and Systems Integration (SSI) engineers, who perform the customization, engage closely with customers to develop the highest performance subsystems to meet stringent size, weight and power (SWaP) requirements and withstand a wide range of harsh environmental conditions. In addition to using Mercury hardware components, SSI can also work with third-party hardware, software and IP to deliver the optimal subsystem solution for the application.

For more information, visit www.mc.com/gpgpu, 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, commercially developed, application-ready, multi-INT subsystems for the ISR market. With over 30 years of 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 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 provided for the products and services described above. You can identify these statements by the use of the words “may,” “will,” “could,” “should,” “plans,” “expects,” “anticipates,” “continue,” “estimate,” “project,” “intend,” “likely,” “probable,” 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, 2011. 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.

###

Contact:

Robert McGrail, Director of Corporate Communications

Mercury Computer Systems, Inc.

+1 978-967-1366 / rmcgrail@mc.com

POET, Application Ready Subsystem and ARS are trademarks; and Challenges Drive Innovation, Ensemble, Echotek, and RACE++ are registered trademarks of Mercury Computer Systems, Inc. Other product and company names mentioned may be trademarks and/or registered trademarks of their respective holders.