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Mercury Systems Announces Safety-Certifiable Multi-Core Solution for Avionics and Communications

BuiltSAFE ROCK-2 Subsystem Integrated with INTEGRITY-178 is Aligned to FACE Standard

ANDOVER, Mass., Oct. 20, 2017 (GLOBE NEWSWIRE) -- Mercury Systems, Inc. (NASDAQ:MRCY) (www.mrcy.com) announced that its BuiltSAFE™ ROCK-2 avionics subsystem is now available pre-integrated with the Green Hills Software safe and secure INTEGRITY-178 tuMP® (time-variant unified multiprocessing) real-time operating system (RTOS). INTEGRITY-178 tuMP enables the full multi-core capabilities of the ROCK-2 subsystem to be utilized for applications requiring DO-178C certification. The combined software and hardware solution is aligned with the Future Airborne Capability Environment (FACE™) V2.1 Technical Standard and was demonstrated at this week's FACE Technical Interchange Meeting.

The BuiltSAFE ROCK-2 avionics computer is a 3U OpenVPX subsystem pre-integrated with a choice of BuiltSAFE single board computers with multi-core processors, avionics IO, video processing, and software such as the BuiltSAFE Graphics Suite. The ROCK-2 avionics computer is designed to allow different sections of the chassis to run at different design assurance levels (DAL), enabling the use of a wide variety of technologies to augment the portion of the application that needs to run at highest level.

"Mercury has a strong history of supporting the industry's open architecture initiatives," said Scott Engle, Business Development Director at Mercury. "Our BuiltSAFE software and hardware products are based on open system architecture, which provides a solid base for a FACE-conformant solution."

The choice of INTEGRITY-178 tuMP as the RTOS gives the systems integrator deterministic low-level control over core affinity and utilization on the ROCK-2, compliant to CAST-32A. This makes the ROCK-2 an ideal candidate for any integrator looking to add more operational capability into less hardware.

"Green Hills is pleased to have partnered with Mercury in the integration and demonstration of INTEGRITY-178 tuMP running on Mercury's BuiltSAFE ROCK-2 multi-core avionics computer at the FACE Technical Interchange Meeting," said Dan O'Dowd, founder and chief executive officer of Green Hills Software. "Together, INTEGRITY-178 tuMP and ROCK-2 provide industry-leading size, weight, and power (SWaP) improvements by providing optimal core utilization and multi-core throughput without jeopardizing safety and security certification requirements."

The INTEGRITY-178 tuMP (time-variant unified multiprocessing) RTOS is intended for safety-critical and security-critical systems that are based on modern multi-core processors. INTEGRITY-178 tuMP significantly improves the flexibility in how the processor cores can be utilized. The tuMP architecture is referred to as "unified" in that a common OS controls the scheduling of all cores and the overall communications between applications. INTEGRITY-178 tuMP supports the ARINC-653 (Part 1 supplement 3 and Part 2 supplement 2) interfaces and operating system capabilities necessary to be aligned with the FACE V2.1 Technical Standard. INTEGRITY-178 tuMP is also the only multi-core operating system that meets the ARINC-653 standard's requirement for multi-core operation as defined in Section 2 of Supplement 4 for the ARINC-653 standard.

For more information on the BuiltSAFE ROCK-2 avionics subsystem, visit www.mrcy.com/ROCK or contact Mercury at (866) 627-6951 or info@mrcy.com.

Mercury Systems — Innovation That Matters™
Mercury Systems (NASDAQ:MRCY) is a leading commercial provider of secure sensor and mission processing subsystems. Optimized for customer and mission success, Mercury's solutions power a wide variety of critical defense and intelligence programs. Headquartered in Andover, Mass., Mercury is pioneering a next-generation defense electronics business model specifically designed to meet the industry's current and emerging technology needs. To learn more, visit www.mrcy.com.

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," "could," "should," "would," "plans," "expects," "anticipates," "continue,"

"estimate," "project," "intend," "likely," "forecast," "probable," "potential," 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, continued funding of defense programs, the timing and amounts of such funding, 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, changes in, or in the U.S. Government's interpretation of, federal export control or procurement rules and regulations, market acceptance of the Company's products, shortages in components, production delays or unanticipated expenses due to performance quality issues with outsourced components, inability to fully realize the expected benefits from acquisitions and restructurings, or delays in realizing such benefits, challenges in integrating acquired businesses and achieving anticipated synergies, increases in interest rates, 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, 2017. 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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