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Micron's Automata Processor Continues to Drive Industry Adoption With Launch of Software Development Kit

Expanded Suite of Tools and Resources for Parallel Processing Architecture Enable Developer Community to Build, Compile, Simulate, and Debug Their Designs

BOISE, Idaho, Oct. 7, 2014 (GLOBE NEWSWIRE) -- Micron Technology, Inc. (Nasdaq:MU), one of the world's leading providers of advanced semiconductor solutions, today announced the availability of the evaluation version of the Automata Processor (AP) software development kit (SDK). With the new SDK, developers can design and test advanced applications in areas such as bioinformatics, video/image analytics, and network security, which require high performance, computational efficiency and highly parallel processing capabilities.

Micron announced the AP, a dramatically new parallel processing architecture, to the industry at the 2013 Supercomputing Conference. The AP is a unique and scalable computing fabric that allows users to harness the power of tens of thousands to millions of processing elements. The AP SDK enables users to connect these elements and create a task-specific processing engine capable of solving big data problems with unprecedented performance.

"Micron's Automata Processor technology is a radical departure from traditional compute offload accelerators," said Paul Teich, CTO and Senior Analyst at Moor Insights & Strategy. "Micron's technology has the potential to accelerate high-value segments of big data pattern recognition for complex, unstructured data streams, some of which are not economical to address at scale today."

"By providing a fundamentally new and powerful technology, plus the tools to operate and program it, Micron is providing developers and customers an entirely new way to power their innovation," said Paul Dlugosch, director of Automata Processor development for Micron's compute and networking business unit. "One of the most challenging problems facing the developer community today is programmer productivity. In many cases, productivity is lost as developers work to identify and implement high levels of parallelism on conventional architectures. The Automata Processor and SDK will provide a new alternative for implementing very high levels of hardware parallelism without the complexities associated with von Neumann-style architectures."

The Center for Automata Processing

The University of Virginia and Micron Technology have founded the Center for Automata Processing (CAP) to catalyze the growth of an ecosystem focused on research, application and system development by leveraging the expertise of academic and industrial researchers and fostering collaborations to advance the field of automata computing. CAP membership benefits will include low-cost access to Automata Processor tools and resources, plus training and support in a research and support environment comprised of researchers from multiple institutions and organizations. For information on joining the CAP, visit .

SDK Availability

The AP SDK is currently available through Micron's developer portal. Visit micron.com/automata to request access to resources that include a visual development environment, compiler, design rules checker, regular expression to automata generator and AP simulator. The SDK will also available through membership with the Center for Automata Processing.

About Automata Processor

Micron's Automata Processor (AP) is a reconfigurable processing architecture that enables programmers to easily exploit massive parallelism. The AP is purpose-built to address the processing challenges associated with graph analysis, pattern matching and data analytics.

The AP will be demonstrated at Micron booth #1949 at the 2014 Supercomputing Conference held November 17-20 in New Orleans.

About Micron

Micron Technology, Inc., is a global leader in advanced semiconductor systems. Micron's broad portfolio of high-performance memory technologies—including DRAM, NAND and NOR Flash—is the basis for solid state drives, modules, multichip packages and other system solutions. Backed by more than 35 years of technology leadership, Micron's memory solutions enable the world's most innovative computing, consumer, enterprise storage, networking, mobile, embedded and automotive applications. Micron's common stock is traded on the NASDAQ under the MU symbol. To learn more about Micron Technology, Inc., visit www.micron.com.

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