Product News

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IAR Systems enables development for low-power sensor processing based on new NXP dual-core series

IAR Embedded Workbench is the ultimate choice for always-on sensor applications for the Internet of Things along with the LPC54100 series

Uppsala, Sweden—November 11, 2014—IAR Systems® announces that its development toolchain IAR Embedded Workbench® for ARM® provides excellent performance and multicore debugging for the new ultra-low-power LPC54100 microcontroller series from NXP Semiconductor. The series is targeted for applications with demands on always-on sensor processing and high sensor density, typically seen within implementations for wearable health and fitness applications, gaming, and industrial applications such as environmental monitoring, home and building automation, lighting and robotics.

IAR Embedded Workbench for ARM includes leading code optimization techniques that produce the fastest performing code on the market. The fast performing code has a significant impact on keeping the application's power consumption to a minimum. Using IAR Systems' probe I-scope™, developers can also test and tune their applications for power optimization and extend battery lifetime by learning the power consumed by individual modules and detect code design flaws causing unnecessary power consumption.

The LPC54100 series features an asymmetric dual-core architecture based on ARM Cortex®-M4F and ARM Cortex-M0+. For maximal power/performance efficiency, developers can use the low-power ARM Cortex-M0+ core for sensor data collection, aggregation, and external communications and the ARM Cortex-M4F core for more math-intensive algorithms.

"We are excited to see early tools support in IAR Embedded Workbench for our new LPC54100 series microcontrollers," says Brendon Slade, Director, Tools and Embedded Ecosystems, Microcontroller business line, NXP. "The advanced code optimization capabilities along with power analysis features enable users to extract the full potential of the LPC54100 series for always-on sensor processing applications, such as wearables, mobile devices, gaming, robotics, and more."

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IAR Embedded Workbench for ARM is a complete set of tools for developing embedded applications. It features the powerful IAR C/C++ Compiler™ as well as the C-SPY® Debugger with multicore debugging and a broad selection of user-friendly features such as performance profiling, stack analysis, code coverage and power profiling. The tools are complemented by a range of integrated probes for in-circuit debugging and trace. IAR Embedded Workbench for ARM is available in several versions, including a product package that is designed specifically for the ARM Cortex-M core family. More information is available at www.iar.com/ewarm.

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About IAR Systems

IAR Systems provides developers of embedded systems with world-leading software tools for developing competitive products based on 8-, 16-, and 32-bit processors. Established in Sweden in 1983, the company has over 46,000 customers globally, mainly in the areas of industrial automation, medical devices, consumer electronics, telecommunication, and automotive products. IAR Systems has an extensive network of partners and cooperates with the world's leading semiconductor vendors. IAR Systems Group AB is listed on NASDAQ OMX Stockholm. For more information, please visit www.iar.com.