Product News

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IAR Systems enhances ARM tools with extended static analysis and flash breakpoints

Uppsala, Sweden—April 1, 2016—IAR Systems® presents an updated version of the world's most widely used C/C++ compiler and debugger toolchain for developing ARM®-based embedded applications. Version 7.60 of IAR Embedded Workbench® for ARM adds flash breakpoints functionality and extended static analysis in C-STAT®.

The highly requested tool C-STAT performs advanced static analysis by doing an analysis on the source code level. It not only aids developers in ensuring the code quality early in the development cycle, it also detects defects, bugs, and security vulnerabilities as defined by CERT C/C++ and the Common Weakness Enumeration (CWE), as well as helps keeping code compliant to coding standards like MISRA C:2004, MISRA C++:2008 and MISRA C:2012. C-STAT is fully integrated in the IAR Embedded Workbench IDE and the new update extends the tool with approximately 150 new checks, including 90 new MISRA C:2012 checks and two new packages of checks. In addition, there are new options to enable or disable the false-positives elimination phase of the analysis and to exclude files from the analysis.

Also new in version 7.60 are flash breakpoints, which allow developers to set an unlimited number of breakpoints when debugging the flash memory. The C-SPY® Debugger in IAR Embedded Workbench enables developers to set various types of breakpoints in the applications they are debugging, allowing them to stop at locations of particular interest. Using IAR Embedded Workbench together with the I-jet debug probe from IAR Systems, it is now possible to add an unlimited number of flash breakpoints for selected ARM Cortex®-M devices. By setting breakpoints, developers can easily investigate the status of an application and speed up the debugging phase.

"The flash breakpoints functionality makes it possible to improve debugging for applications with code in flash memory, and the enhancements in C-STAT strengthen the static analysis capabilities in IAR Embedded Workbench for ARM even further," says Lotta Frimanson, Product Manager, IAR Systems. "Developers spend a lot of time maximizing the performance of their device. Our focus remains on helping them to ease their daily work with continuous product improvements and new features."

IAR Embedded Workbench for ARM incorporates a compiler, an assembler, a linker and a debugger

– more –

into one easy-to-use IDE, giving developers one single toolbox in which all components integrates seamlessly. It provides advanced and highly efficient optimization features and is tightly integrated with hardware, RTOS products, and middleware. C-STAT is available as an add-on product. Learn more at www.iar.com/iar-embedded-workbench/tools-for-arm.

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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.