IAR Systems makes further improvements to leading development tools for 8051 MCUs

Uppsala, Sweden—December 9, 2014—IAR Systems® introduces a new version of its popular development toolchain IAR Embedded Workbench® for 8051. The toolchain includes high-performance compiler and debugger tools with extensive support for a wide range of microcontrollers from vendors such as Atmel, Intel, Infineon, NXP, Silicon Labs and Texas Instruments. Version 9.10 includes further tweaked code optimizations, new debugging functionality and added core support.

Thanks to its proven reliability and easy development, the 8051 technology has seen a revival in the form of 8051-based System on Chips (SoCs) targeting Internet of Things applications. These fast, small, and power-efficient modern devices drive the need for powerful, easy-to-use development tools. CAST Inc. supplies world-class 8051 IP cores that are among the fastest and smallest available, and complete development tools support for these cores is now available in IAR Embedded Workbench. The new support includes devices which implements a Multiplication-Division Unit (MDU). The MDU allows developers to use hardware accelerator options for multiplication and division from within the code. These tasks are inherently expensive in an 8-bit microcontroller, but are significantly faster using MDUs.

In the C-SPY® Debugger, version 9.10 adds new windows for managing macros. The Macro Registration window controls which macro files are loaded and the Debugger Macros window shows a list of all macros available in the debugger. C-SPY macros are used to automate various tasks for debugging and verification. The macros can also be used to perform a variety of other tasks such as hardware configuration and simulation of peripheral drivers, as well as to feed simulated data to the application during runtime.

The C-SPY Debugger Reset button has been improved. It is now possible to select whether to run to main or not without leaving the debug session. The debugger will override the project settings and insert or remove this breakpoint. New is also the possibility to save C-SPY watch window content to a file that can be used for logging or analysis purposes.

In addition to the complete CAST device support, new devices from Silicon Labs are also supported by the new version. To simplify device selection, the Project Options menu has been improved to let developers select their device in a static menu selection entry.

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IAR Embedded Workbench for 8051 is a complete set of development tools for microcontrollers based on the 8051 core. For simplified development workflows, the tools feature integrations for a range of hardware debug systems and device configuration tools. With the latest release, the powerful IAR C/C++ Compiler™ for 8051 generates even smaller code, in particular for developers working with the large or far data models. More information about the tools is available at www.iar.com/ew8051.

Ends

Editor's Note: IAR Systems, IAR Embedded Workbench, C-SPY, C-RUN, visualSTATE, Focus on Your Code, IAR KickStart Kit, IAR Experiment!, I-jet, I-jet Trace, I-scope, IAR Academy, IAR, and the logotype of IAR Systems are trademarks or registered trademarks owned by IAR Systems AB. All other products names are trademarks of their respective owners.

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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.