



Product News

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IAR Embedded Workbench supports new Renesas RX71M MCUs targeting the industrial Internet of Things

New version of IAR Embedded Workbench for Renesas RX adds support for the latest RX devices as well as improved functionality

Uppsala, Sweden—March 23, 2015—IAR Systems® has released version 2.70 of its development toolchain IAR Embedded Workbench® for Renesas RX family of MCUs. In addition to new features including position-independent code and data, version 2.70 adds updated device support and example projects for the latest Renesas devices. The support includes the new Renesas RX71M group with advanced security features for the industrial Internet of Things. Renesas' RX71M group addresses the critical importance of security in embedded design for industrial equipment where connectivity is added to more and more applications. IAR Systems is the only tool vendor to provide high-performance tools for the entire line-up of Renesas MCUs. In total, more than 4,000 Renesas devices, including all RX devices, are supported by IAR Embedded Workbench.

With the new version of IAR Embedded Workbench for RX comes the possibility of having the IAR C/C++ Compiler™ generate both position-independent code and/or position-independent data. This feature is ideal for developers using operating systems where modules are built completely position-independent and can be located anywhere in memory.

The new version also includes enhancements to the already very efficient code optimization techniques. The optimizations for code size and execution speed provided by the IAR C/C++ Compiler perform on multiple levels, global as well as core/target-specific. The developer is able to tune the optimizations to achieve the best possible configuration for the application at hand. Major functions of the optimizer, such as loop unrolling and function inlining, can be controlled individually, and by setting different optimizations for different parts of the code, the right balance between size and speed can be achieved.

Introduced in the C-SPY® Debugger included with IAR Embedded Workbench is functionality for saving C-SPY Watch window content. Also added is an RTOS-awareness plugin for the Quadros RTX real-time operating system.

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About IAR Embedded Workbench

IAR Embedded Workbench for RX includes the IAR C/C++ Compiler, assembler, linker, library tools and the C-SPY Debugger in a user-friendly integrated development environment. It is available in several editions, including a Baseline edition tailored for developers working with the smaller memory RX microcontrollers, and a Functional Safety version with safety-certification from TÜV SÜD according to the requirements of IEC 61508, the international umbrella standard for functional safety, as well as ISO 26262, which is used for automotive safety-related systems. More information about the tools is available at www.iar.com/ewrx.

Ends

Editor's Note: IAR Systems, IAR Embedded Workbench, C-SPY, C-RUN, C-STAT, 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.

IAR Systems Contact

Stefan Skarin, CEO, IAR Systems

Tel: +46 18 16 78 00 E-mail: stefan.skarin@iar.com

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.