



Product News

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IAR Embedded Workbench vastly improves performance for Atmel 8-bit AVR MCUs

Uppsala, Sweden—November 19, 2015—IAR Systems® has released a new version of its complete C/C++ development toolchain IAR Embedded Workbench® for AVR. Version 6.70 of the popular toolchain includes improved compiler optimizations as well as new device support and updates to the add-on tool C-STAT for static code analysis.

“Embedded systems are growing in complexity and many applications are being migrated to 32-bit microcontrollers. Despite this, the 8-bit AVR microcontrollers are continuously being used in many applications for example within automotive, battery management and wireless solutions,” says Thomas Sporrang, Global FAE Manager, IAR Systems. “IAR Systems has a large customer base of developers working with AVR and the company remains committed to supplying world-class tools for embedded developers across the entire range from 8-bit to 32-bit microcontrollers.”

IAR Embedded Workbench for AVR features world-leading code optimizations that create compact, fast-performing code. The optimization technology has been further improved in this version, particularly involving speed optimizations of floating-point data types. These improvements enable developers to gain even better performance in applications where optimal execution speed is critical. To achieve the best possible configuration for the application at hand, developers are able to tune the optimizations. With the possibility to set different optimizations for different parts of the code, the right balance between code size and code speed can be achieved.

The previous version 6.60 of IAR Embedded Workbench for AVR introduced support for IAR Systems’ static analysis add-on product C-STAT. Completely integrated in the IAR Embedded Workbench IDE, C-STAT can perform numerous checks for compliance with rules as defined by the coding standards MISRA C:2004, MISRA C++:2008 and MISRA C:2012, as well as rules based on for example CWE (the Common Weakness Enumeration) and CERT C/C++. By using static analysis, developers can identify errors such as memory leaks, access violations, arithmetic errors, and array and string overruns at an early stage to ensure code quality and minimize the impact of errors on the finished product and on the project timeline. With the latest release come further updates to the C-STAT tool, including an added report generator and added pragmas for temporary disabling checks.

IAR Embedded Workbench for AVR is a complete set of powerful C/C++ development tools with extensive support for devices in all AVR families. IAR Systems' high-performance development tools and world-class technical support are available across Atmel's entire range of 8-bit and 32-bit microcontroller architectures. To learn more about IAR Systems' offering for Atmel's microcontrollers, visit www.iar.com/iar-embedded-workbench/atmel/.

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