



Product News

Date: June 30, 2016

IAR Systems extends code analysis for applications based on Texas Instruments' MSP430 MCUs

Uppsala, Sweden—June 30, 2016—IAR Systems® announces a new version of its development tools IAR Embedded Workbench® for Texas Instruments MSP430, version 6.50. The version offers extended capabilities for code quality control through the powerful static analysis tool C-STAT®, extended inline assembler and support for the latest MSP430 devices.

The static analysis functionality within the add-on tool C-STAT has been improved with the new version of the toolchain. The latest version adds approximately 150 new checks to the existing wide range of checks in C-STAT, including 90 new MISRA C:2012 checks and two new packages of checks. Several new options are also available, for example the possibility to enable or disable the false-positives elimination phase of the analysis, as well as to exclude files from the analysis. C-STAT is fully integrated in the IAR Embedded Workbench IDE and aids developers in ensuring the code quality early in the development cycle. It 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 the coding standards MISRA C:2004, MISRA C++:2008 and MISRA C:2012.

New in version 6.50 of IAR Embedded Workbench for MSP430 is also an extended inline assembler where it's possible to specify input, output, and effects of an inline assembler statement. This allows an inline assembler statement to interact with variables and expressions of the surrounding C/C++ program.

IAR Embedded Workbench for MSP430 is a powerful toolchain for developing embedded systems based the MSP430 microcontroller family from Texas Instruments. The toolchain provides a complete integrated development environment including compiler, project manager, editor, build tools and debugger. Learn more about IAR Embedded Workbench for MSP430 at www.iar.com/iar-embedded-workbench/tools-for-msp430

About MISRA C

MISRA, The Motor Industry Software Reliability Association, is a collaboration between vehicle manufacturers, component suppliers and engineering consultancies which seeks to promote best practice in developing safety-related electronic systems in road vehicles and other embedded systems. MISRA C is a software development standard for the C programming language developed by MISRA. More information is available at www.misra.org.uk.

About CERT C/C++

The CERT C/C++ Secure Coding Standards are standards published by the Computer Emergency Response Team (CERT) providing rules and recommendations for secure coding in the C/C++ programming languages. More information is available at www.cert.org.

Ends

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.

IAR Systems Contacts

Stefan Skarin, CEO and President, IAR Systems

Tel: +46 18 16 78 00 Email: 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 Stockholm. For more information, please visit www.iar.com.