IAR Embedded Workbench delivers outstanding performance for new ARM Cortex-M7 core

Impressive scores above 5 CoreMark/MHz achieved using ARM Cortex-M7 core in combination with IAR Systems' world-leading development toolchain IAR Embedded Workbench for ARM

Uppsala, Sweden—September 24, 2014—IAR Systems® launches version 7.30 of IAR Embedded Workbench® for ARM® with full support for the new ARM Cortex®-M7 processor core. The processor brings high performance and efficient processing to support devices featuring embedded intelligence across the industrial, infrastructure and domestic sectors. Using IAR Embedded Workbench to develop applications based on the new processor enables unique possibilities in performance and energy efficiency. The world-leading C/C++ compiler and debugger toolchain delivers a score of 5.02 CoreMark/MHz for the new ARM Cortex-M7-based STM32 F7 microcontrollers from STMicroelectronics.

"ARM, IAR Systems, and STMicroelectronics have worked closely to align the ARM Cortex-M7 core, the STM32 F7 MCUs and IAR Embedded Workbench for ARM to turbocharge embedded processing and take advantage of the performance possibilities of the technology, producing a best-in-class CoreMark score and allowing designers to fully release their creativity," says Daniel Colonna, Marketing Director Microcontrollers, STMicroelectronics.

The ARM Cortex-M7 core is a new member of the energy-efficient 32-bit Cortex-M processor family. The Cortex-M7's combination of high performance and digital signal control functionality enables microcontroller manufacturers to target highly demanding embedded applications while keeping development costs as low as possible. Expected end uses include smart control systems employed in a range of applications such as motor control devices, industrial automation, the Internet of Things, advanced audio, image processing and a variety of connected vehicle applications.

"IAR Systems has continued their pattern of rapid availability of IAR Embedded Workbench for new ARM cores with support for the ARM Cortex-M7 processor core," says Richard York, Vice President, Embedded Marketing, ARM. "Optimizing their compiler to make best use of the new ARM Cortex-M7 instruction set will help to enable the next generation of compelling products."

"IAR Systems has a strong commitment to the current and future roadmap of ARM and we are always

early adopters of their latest technology," says Stefan Skarin, CEO, IAR Systems. "Our complete compiler and debugger toolchain IAR Embedded Workbench is known for high performance and ease of use, and provides the industry's broadest device support thanks to our powerful ecosystem of partners. With support for the new ARM Cortex-M7 processor, we are further strengthening our market position as the leading provider of development tools for ARM."

IAR Embedded Workbench is the world's most widely used C/C++ compiler and debugger toolchain for developing applications for devices based on ARM processors. IAR Embedded Workbench incorporates a compiler, an assembler, a linker and a debugger into one completely integrated development environment. IAR Embedded Workbench for ARM is available in several versions, including a product package that is designed specifically for the ARM Cortex-M core family. Learn more about IAR Embedded Workbench for ARM at www.iar.com/ewarm.

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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-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.