Haawking licenses SEGGER's emRun for RISC-V

Monheim am Rhein, Germany – August 31st, 2021

SEGGER Microcontroller announces that Beijing Haawking Technology, a specialist provider of RISC-V-based DSPs, has licensed SEGGER's emRun for RISC-V Runtime Library for distribution with its compiler tools for HX2000 series chips.

emRun is a complete C runtime library for use with any toolchain. Written from the ground up specifically for embedded devices, emRun is designed to provide high chip performance with the smallest possible footprint. emRun for RISC-V is assembly optimized for RISC-V, resulting in unrivaled performance and code size on RISC-V devices.

In many cases, the reduced code size makes it possible to use smaller microcontrollers and less on-chip memory. This can result in significant cost savings, especially for devices built in large quantities for the mass market. The increase in performance leads to better products with faster reaction times and lower power consumption.

emRun's value and performance has been widely proven as part of SEGGER's Embedded Studio IDE, which can also be used to easily evaluate emRun.

The HX2000 series is a real-time industrial control DSP based on the RISC-V instruction set, which integrates a high performance core and application peripherals. It can be widely used in industrial control, motor drive, digital power supply, new energy and other fields.

Within the HX2000 series, Haawking has released the HXS320F2802X and HXS320F2803X subseries into mass production for customer applications. The high-performance HXS320F2833X, featuring Haawking's H28x 32-bit RISC-V core and Harvard bus architecture, is soon to be introduced.

"For digital signal processing applications, it is important to provide the highest possible performance using as little memory as possible," says SEGGER CEO Ivo Geilenbruegge. "With the licensing of emRun, Haawking now enables its customers to get the best performance for their industrial control DSPs."

"SEGGER has made a constant and significant contribution to the thriving RISC-V ecosystem, and is one of the essential driving forces that continues to promote RISC-V to be a more popular processor architecture in the embedded industry," said

Wu Junning, co-founder & Deputy General Manager of Haawking. “The cooperation with SEGGER will also provide strong support for the research and development work of Haawking. The emRun library is used for our HX2000 series DSP based on RISC-V instruction set. As the RISC-V ecosystem continues to grow and our product line continues to expand, we look forward to more and more opportunities to work together in the future.”

Find out more about the emRun:
https://www.segger.com/products/development-tools/runtime-library/

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About SEGGER

SEGGER Microcontroller has over twenty-eight years of experience in Embedded Computing Systems, producing state-of-the-art software libraries, and offering a full set of hardware tools (for development and production) and software tools.

SEGGER's all-in-one solution emPower OS provides an RTOS plus a complete spectrum of software libraries including communication, security, data compression and storage, user interface software and more. Using emPower OS gives developers a head start, benefiting from decades of experience in the industry.

SEGGER’s professional software and tools for Embedded System development are designed for simple usage and are optimized for the requirements imposed by resource-constrained embedded systems. The company also supports the entire development process with affordable, high-quality, flexible, easy-to-use tools.

The company was founded by Rolf Segger in 1992, is privately held, and is growing steadily. SEGGER also has a U.S. office in the Boston area and branch operations in Silicon Valley, Shanghai and the UK, plus distributors on most continents, making SEGGER’s full product range available worldwide.

Why SEGGER?

In short, SEGGER has a full set of tools for embedded systems, offers support through the entire development process, and has decades of experience as the Embedded Experts.

In addition, SEGGER software is not covered by an open-source or required-attribution license and can be integrated in any commercial or proprietary product, without the obligation to disclose the combined source.

Finally, SEGGER offers stability in an often volatile industry making SEGGER a very reliable partner for long-term relationships.

For additional information please visit: www.segger.com

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