

SEGGER's embOS RTOS transforms 64-bit SoCs into single chip computers

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SEGGER has announced that its embOS real-time operating system now supports 64-bit processor cores.

Today, most IoT implementations and other sophisticated embedded applications rely on 32-bit CPUs. In the very near future, however, they will start migrating to higher performance 64-bit CPUs. This is because the latest generation of SoCs and FPGAs with advanced peripherals (like SuperSpeed USB and Gigabit Ethernet) tend to also come with powerful 64-bit CPU cores incorporated. Such peripherals are usually not available to the 32-bit core devices currently deployed.



With embOS, users can now easily upgrade to 64-bit systems while continuing to run the same application software as deployed to their current 32-bit platforms. This will ensure that the same deterministic real-time behavior is maintained, while enabling even higher speeds to be delivered.

“Customers want to specify the latest SoCs or FPGAs for their systems, which are now integrating 64-bit processing resources,” says Til Stork, Product Manager for embOS at SEGGER. “In most cases we see companies switch to 64-bit not because they want to, but because they have to in order to benefit from state-of-the-art silicon featuring next generation interfaces. With embOS, the transition to using these more powerful chips is easy. At the same time, the application program remains streamlined, boots quickly and is fully under the control of the programmer.”

In many cases, the small footprint of embOS enables the use of 64-bit cores with just the on-chip RAM and cache memory. This eliminates the need for inclusion of external RAM. The number of components is consequently lowered, thereby reducing both the complexity and cost of the end product.

embOS is a commercial RTOS that makes every byte count. It is available for use across all silicon manufacturers' platforms and directly supported by the experts who wrote the code.

For more information on SEGGER's embOS please visit:

<https://www.segger.com/products/rtos/embos/>

About SEGGER

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

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

SEGGER's professional software libraries 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 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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