

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

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SEGGER's real time operating system embOS now supports 64-bit CPU cores.

Today, most IoT and other sophisticated embedded applications use 32-bit CPUs. Pretty soon, they will use 64-bit CPUs. This is because the latest generation of SoCs and FPGAs with advanced peripherals – such as SuperSpeed USB and Gigabit Ethernet – tend to also come with powerful 64-bit CPU cores. Advanced peripherals are usually not available to 32-bit core devices which are still used in many applications on the market today.



With embOS, users can now easily migrate to 64-bit systems while continuing to use the same application software as deployed to their current 32-bit platforms, with the same deterministic real-time behavior and even higher speed.

"There is a trend towards 64-bit CPUs for high-end applications. Customers want to use the latest SoCs or FPGAs, which are now switching to 64-bit processors," says Til Stork, Product Manager embOS. "In most cases we see companies switch to 64-bit not because they want to, but because they have to in order to use state-of-the-art silicon. With embOS, the transition to using these powerful chips is easy. At the same time, the application program stays lean, boots quickly and is fully under the control of the application programmer."

In many cases, the small footprint of embOS enables using 64-bit cores with just the on-chip RAM and cache memory, eliminating the need for external RAM. This significantly reduces the number of components, reducing complexity and cost of the product and the design.

embOS is a commercial RTOS supported by the experts who wrote the code and is available for use across all silicon manufacturers.

SEGGER's embOS makes every byte count, now also on 64-bit platforms.

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?

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.

All SEGGER software has been developed by, and can be licensed from, SEGGER. It is not encumbered by any Open Source or required-attribution license and can be integrated into any commercial or proprietary product, without the obligation to disclose the combined source.

Under the terms of SEGGER's Friendly Licensing, anyone can use the software free-of-charge for non-commercial use and evaluation.

SEGGER's corporate stability, great products, and fair and friendly licensing models make SEGGER a very reliable partner for long-term relationships in an often volatile industry.

For more on SEGGER see: [www.segger.com](http://www.segger.com)

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