

Window cache boosts performance of SEGGER's emWin graphic library

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SEGGER introduces a window cache feature for the [emWin](#) embedded graphics library, typically increasing performance by a factor of four in larger systems with sufficient RAM.

The content of each window or widget is automatically cached into spare memory. When a window – or part of a window – needs to be redrawn, its content is taken from the cache, thereby avoiding the time-consuming process of re-rendering.

Configuration and use is very easy, requiring just one line of code to enable use on all windows. All windows can be cached, or caching can be enabled for selected windows only.

This makes emWin ideal not just for small microcontroller devices, but also for systems with high-resolution displays and ample RAM. The efficiency increase

eliminates costly redrawing and improves rendering performance, reduces CPU load, and saves energy! The gain in performance depends upon the complexity of the content to be redrawn.

"Running a graphics library in an embedded system occupies a significant amount of computing time. Most of the time is used for rendering," says Dirk Akemann, Marketing Manager at SEGGER. "Being able to minimize rendering efforts speeds up an application significantly. emWin's window cache does exactly that, and we can see a 4x increase in performance."

SEGGER's emWin is a leading embedded graphics library designed to provide an efficient graphical user interface (GUI) solution for applications with graphical displays. Its flexibility allows it to work seamlessly with different processors and display controllers. emWin is suitable for both single- and multi-task environments, making it versatile for various applications.

For more information about SEGGER and the emWin embedded graphics library with window caching, please visit the [memory devices page](#) on [segger.com](#).

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About SEGGER

SEGGER Microcontroller GmbH has three decades of experience in Embedded Systems, producing cutting-edge [RTOS and Software Libraries](#), J-Link and J-Trace [debug and trace probes](#), a line of [Flasher In-System Programmers](#) and [software development 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 embedded development software and tools are simple in design, optimized for embedded systems, and support the entire embedded system development process through affordable, high-quality, flexible and 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.

For more information on SEGGER, please visit www.segger.com.

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

Contact information:

Dirk Akemann

Marketing Manager

Tel: +49-2173-99312-0

E-mail: info@segger.com

Issued on behalf of:

SEGGER

Microcontroller GmbH

Ecolab-Allee 5

40789 Monheim am Rhein

Germany

www.segger.com

SEGGER

Microcontroller Systems LLC

Boston area

101 Suffolk Lane

Gardner, MA 01440

United States of America

Silicon Valley

Milpitas, CA 95035, USA

United States of America

www.segger.com

SEGGER

Microcontroller China Co., Ltd.

Room 218, Block A,

Dahongqiaoguoji

No. 133 Xiulian Road

Minhang District, Shanghai 201199
China

www.segger.cn



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