uC/OS-III: The Real-Time Kernel and the Freescale Kinetis ARM Cortex-M4

Jean J Labrosse, Juan P Benavides, Jose Fernandez-Villasenor

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Learn the essentials of real-time operating systems. Part I of this comprehensive and detailed book provides a thorough explanation of Micriµm's popular µC/OS-III real-time kernel. Part II describes practical, working applications for embedded medical devices built on µC/OS-III and Freescale's TWR-K53N512 medical board (ARM® Cortex™-M4) using Codewarrior and IAR development tools. Each of the included examples feature hands-on working projects, which allow you to get your application running quickly, and can serve as a reference design for implementing µC/OS-III.

This book is written for serious embedded systems programmers, consultants, hobbyists, and students interested in understanding the inner workings of a real-time kernel. µC/OS-III is more than just a great learning platform. It is a full commercial-grade software package, ready to serve as the foundation for a wide range of products.
µC/OS-III is a highly portable, ROMable, scalable, preemptive real-time, multitasking kernel designed specifically to address the demanding requirements of today's embedded systems. µC/OS-III is the successor to the highly popular µC/OS-II real-time kernel and can use most of µC/OS-II's ports with only minor modifications.

Some of the features of µC/OS-III are:

- Preemptive multitasking with round-robin scheduling of tasks at the same priority.
- Supports an unlimited number of tasks and other kernel objects.
- Rich set of services: semaphores, mutual exclusion semaphores with full priority inheritance, event flags, message queues, timers, fixed-size memory block management, and more.
- Built-in performance measurements.

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