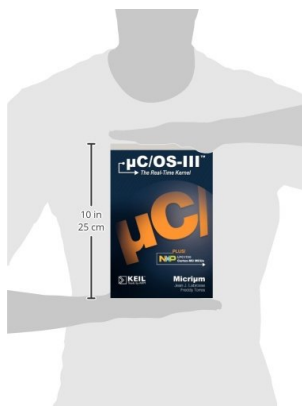


[PDF] UC/OS-III: The Real-Time Kernel And The NXP LPC1700

Jean J. Labrosse, Freddy Torres - pdf download free book



Books Details:

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Description:

This book highlights how real-time kernels work, using Micrium's μ C/OS-III as a reference. The book consists of two parts: Part I describes real-time kernels in generic terms, while Part II provides practical examples using NXP's LPC1768 Microcontroller, based on the ARM Cortex M3(rev 2) architecture. A companion evaluation board (Keil MCB1700) and IDE (Keil MDK Evaluation Version) enable the reader to quickly and easily evaluate the microcontroller, tools and RTOS. A range of

examples are included, providing a unique hands-on experience, and leading to a faster and better understanding of the concepts presented in the book.

This book is written for serious embedded systems programmers, consultants, hobbyists, and students interested in understanding the inner workings of a real-time kernel. μ C/OS-III is not just a great learning platform, but also a full commercial-grade software package, ready to be part of a wide range of products.

μ C/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. μ C/OS-III is the successor to the highly popular μ C/OS-II real-time kernel but can use most of μ C/OS-II's ports with minor modifications. Some of the features of μ C/OS-III are:

Preemptive multitasking with round-robin scheduling of tasks at the same priority

Supports and 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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