Real-Time Embedded Components and Systems with Linux and RTOS (Engineering)

Sam Siewert, John Pratt

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This book is written to teach practicing engineers and students how to apply real-time theory to the design of embedded components and systems in order to successfully build a real-time embedded system. It explores hard, real-time theory and soft, real-time concepts, and this updated edition now covers Linux development using Virtual Box and virtual machines. The book covers and includes examples for ARM, MIPS, and x86 architectures. Also explored is FreeRTOS as an alternative to VxWorks for RTOS. It discusses tips for architectures to combine embedded Linux with traditional RTOS solutions using AMP (Asymmetric Multi-Processing) as well as SMP (Symmetric Multi-Processing) on multi-core embedded systems. A DVD with applied projects is included.

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