Linux for Embedded and Real-Time Applications (Embedded Technology)

By Doug Abbott

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In this applications-oriented reference, Doug Abbott shows how to put Linux to work in embedded and real-time applications. Among the topics Abbott discusses include memory management, device drivers, interrupt handling, kernel instrumentation, boatloaders, embedded networking, inter-task communications, periodic vs. "one shot" timing, POSIX threads, hardware abstraction layers, and program debugging. Abbott uses numerous real-world examples to show how implement a variety of embedded applications using Linux. Abbott discusses the strengths and weaknesses for embedded applications of different implementations of Linux, and he also examines the different real-time extensions for Linux. This book incorporates many programming exercises with solutions. All code listings are provided on the accompanying CD-ROM, as well as an electronic version of the text.

*Fully describes the use of Linux operating system for embedded and real-time applications
*Covers advanced topics such as device drivers, kernel implementation, POSIX threads
*The CD accompanying the book includes an electronic version of the book as well as related software tools and code listings

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Editorial Review

About the Author
Doug Abbott is the principal of Intellimetrix, a consulting firm in Silver City, NM, specializing in hardware and software for industrial and scientific data acquisition and embedded product applications. Among his past and pre-sent clients are Agilent Technologies, Tektronix, Sandia National Laboratory and numerous smaller high-tech com-panies in Silicon Valley. Mr. Abbott has over thirty years experience in various aspects of computer hardware and software design and has been an independent consultant for the past fifteen years. Prior to founding Intellimetrix, he managed software de-velopment for DSP Technology, Inc, a leading supplier of high-speed instrumentation. Doug is also a popular instructor and seminar leader, who teaches classes in PC technology and real-time program-ming for University of California Berkeley Extension. He has taught the techniques of real-time programming and multi-tasking operating systems to hundreds of professional engineers. These classes can also be customized and made available for on-site presentation. Mr. Abbott received an MSEE degree from the University of California at Berkeley.

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