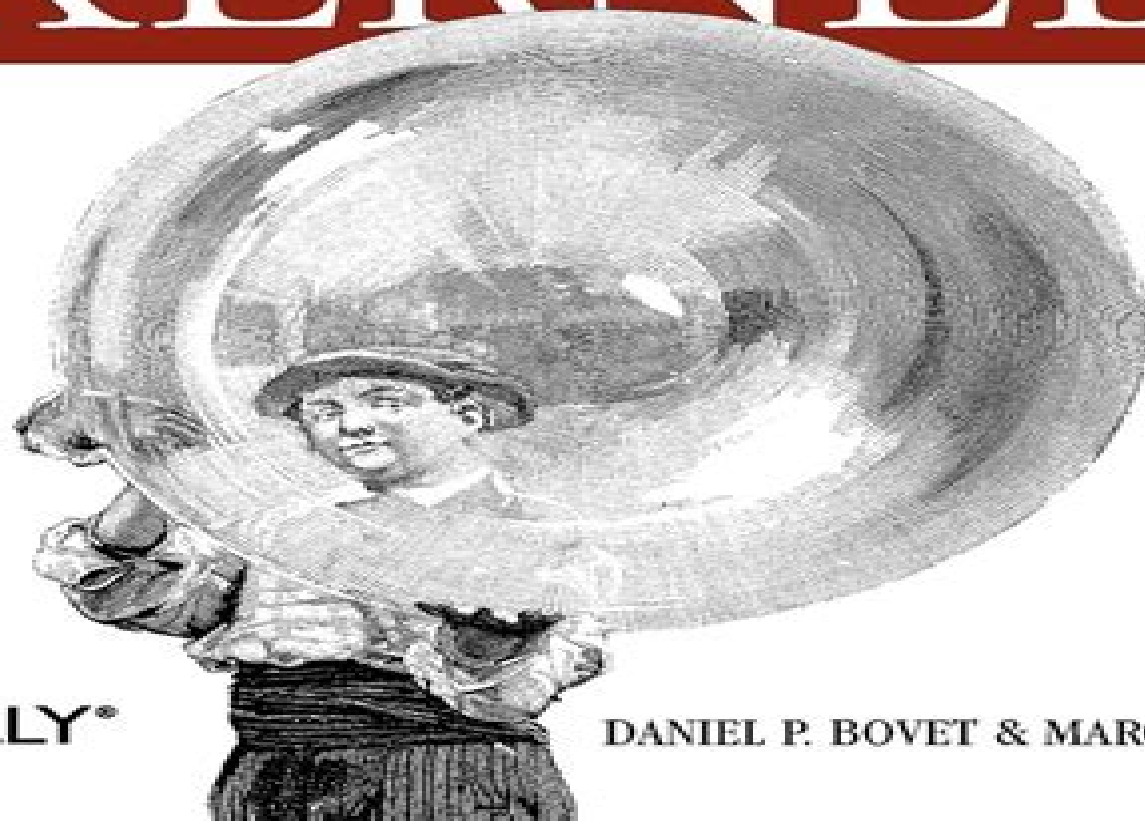


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DANIEL P. BOVET & MARCO CESATI

Understanding The Linux Kernel Marco Cesati

Daniel P. Bovet



Understanding The Linux Kernel Marco Cesati:

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Understanding the Linux Kernel Daniel P. Bovet, Marco Cesati, 2005-11-17 In order to thoroughly understand what makes Linux tick and why it works so well on a wide variety of systems you need to delve deep into the heart of the kernel The kernel handles all interactions between the CPU and the external world and determines which programs will share processor time in what order It manages limited memory so well that hundreds of processes can share the system efficiently and expertly organizes data transfers so that the CPU isn't kept waiting any longer than necessary for the relatively slow disks The third edition of Understanding the Linux Kernel takes you on a guided tour of the most significant data structures algorithms and programming tricks used in the kernel Probing beyond superficial features the authors offer valuable insights to people who want to know how things really work inside their machine Important Intel specific features are discussed Relevant segments of code are dissected line by line But the book covers more than just the functioning of the code it explains the theoretical underpinnings of why Linux does things the way it does This edition of the

book covers Version 2.6 which has seen significant changes to nearly every kernel subsystem particularly in the areas of memory management and block devices. The book focuses on the following topics: Memory management including file buffering, process swapping and Direct memory Access (DMA). The Virtual Filesystem layer and the Second and Third Extended Filesystems. Process creation and scheduling. Signals, interrupts and the essential interfaces to device drivers. Timing Synchronization within the kernel. Interprocess Communication (IPC). Program execution. Understanding the Linux Kernel will acquaint you with all the inner workings of Linux but it's more than just an academic exercise. You'll learn what conditions bring out Linux's best performance and you'll see how it meets the challenge of providing good system response during process scheduling, file access and memory management in a wide variety of environments. This book will help you make the most of your Linux system. Understanding the Linux Kernel, 3rd Edition Daniel P. Bovet, 2005 **Understanding the**

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Real-Time and Embedded Computing Systems and Applications Jing Chen, Seongsoo Hong, 2004-05-21 This book constitutes the thoroughly refereed post-proceedings of the 9th International Conference on Real Time and Embedded Systems and Applications (RTCSA 2003) held in Tainan, Taiwan, in February 2003. The 28 revised full papers and 9 revised short papers presented were carefully reviewed and selected for inclusion in the book. The papers are organized in topical sections on scheduling, networking and communication, embedded systems and environments, pervasive and ubiquitous computing systems and architectures, resource management, file systems and databases, performance analysis and tools and development. *Python. An Introduction to Programming* James R. Parker, 2021-03-18 Learn programming concepts using Python 3 as the target language. As Python is the language of choice for basic game development, this book is also perfect for beginning game designers. Covering basic computer concepts such as loops, strings, functions, files, graphics, multimedia, algorithms, classes, writing code, etc., the accompanying companion files also provide source code, solved programming exercises, projects, game demos, and figures from the text. Building Embedded Linux Systems Karim Yaghmour, Jon Masters, Gilad Ben-Yossef, Philippe Gerum, 2008-08-15 There's a great deal of excitement surrounding the use of Linux in embedded systems for everything from cell phones to car ABS systems and water filtration plants, but not a lot of practical information. *Building Embedded Linux Systems* offers an in-depth, hard-core guide to putting together embedded systems based on Linux. Updated for the latest version of the Linux kernel, this new edition gives you the basics of building embedded Linux systems along with the configuration setup and use of more than 40 different open-source and free software packages in common use. The book also looks at the strengths and weaknesses of using Linux in an embedded system, plus a discussion of licensing issues and an introduction to real-time with a discussion of real-time options for Linux. This indispensable book

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Information Engineering and Applications Rongbo Zhu,Yan Ma,2011-11-13 In past twenty years or so information technology has influenced and changed every aspect of our lives and our cultures Without various IT based applications we would find it difficult to keep information stored securely to process information and business efficiently and to communicate information conveniently In the future world ITs and information engineering will play a very important role in convergence of computing communication business and all other computational sciences and application and it also will influence the future world s various areas including science engineering industry business law politics culture and medicine The International Conference on Information Engineering and Applications IEA 2011 is intended to foster the dissemination of state of the art research in information and business areas including their models services and novel applications associated with their utilization International Conference on Information Engineering and Applications IEA 2011 is organized by Chongqing Normal University Chongqing University Shanghai Jiao Tong University Nanyang Technological University University of Michigan and the Chongqing University of Arts and Sciences and is sponsored by National Natural Science Foundation of China NSFC The objective of IEA 2011 is to will provide a forum for engineers and scientists in academia industry and government to address the most innovative research and development Information Engineering and Applications provides a summary of this conference including contributions for key speakers on subjects such as technical challenges social and economic issues and ideas results and current work on all aspects of advanced information and business intelligence

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