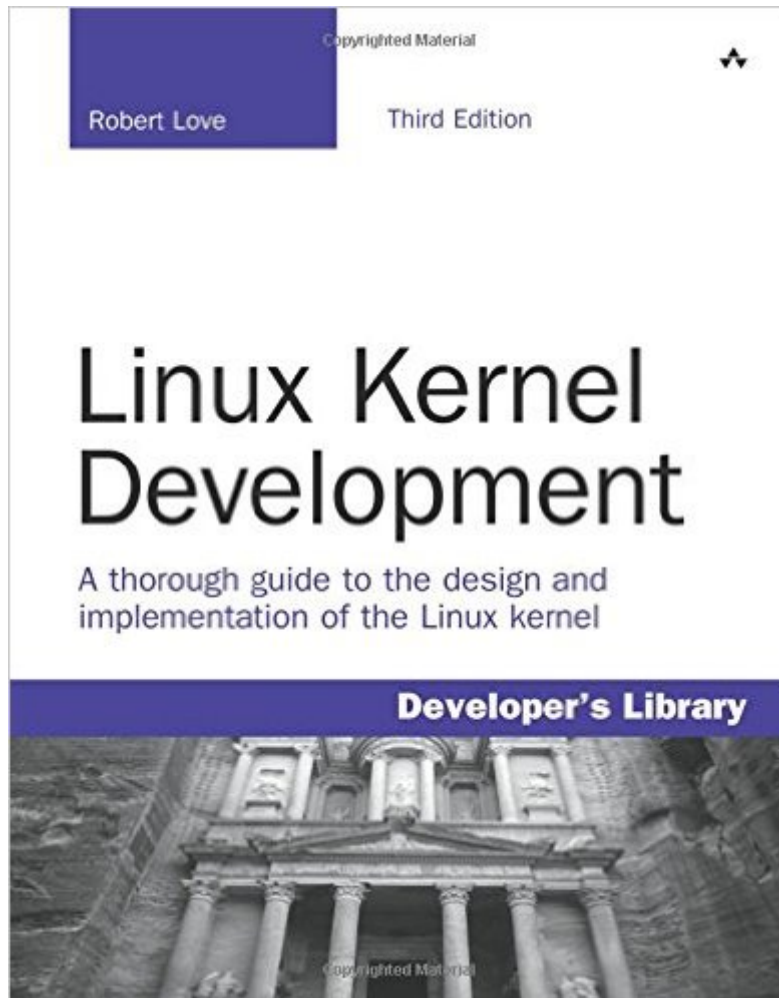




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Linux Kernel Development (3rd Edition)



Synopsis

Linux Kernel Development details the design and implementation of the Linux kernel, presenting the content in a manner that is beneficial to those writing and developing kernel code, as well as to programmers seeking to better understand the operating system and become more efficient and productive in their coding. The book details the major subsystems and features of the Linux kernel, including its design, implementation, and interfaces. It covers the Linux kernel with both a practical and theoretical eye, which should appeal to readers with a variety of interests and needs. The author, a core kernel developer, shares valuable knowledge and experience on the 2.6 Linux kernel. Specific topics covered include process management, scheduling, time management and timers, the system call interface, memory addressing, memory management, the page cache, the VFS, kernel synchronization, portability concerns, and debugging techniques. This book covers the most interesting features of the Linux 2.6 kernel, including the CFS scheduler, preemptive kernel, block I/O layer, and I/O schedulers. The third edition of Linux Kernel Development includes new and updated material throughout the book: An all-new chapter on kernel data structures Details on interrupt handlers and bottom halves Extended coverage of virtual memory and memory allocation Tips on debugging the Linux kernel In-depth coverage of kernel synchronization and locking Useful insight into submitting kernel patches and working with the Linux kernel community

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content in a manner that is beneficial to those writing and developing kernel code, as well as to programmers seeking to better understand the operating system and become more efficient and productive in their coding. ¹ The book details the major subsystems and features of the Linux kernel, including its design, implementation, and interfaces. It covers the Linux kernel with both a practical and theoretical eye, which should appeal to readers with a variety of interests and needs. ² The author, a core kernel developer, shares valuable knowledge and experience on the 2.6 Linux kernel. Specific topics covered include process management, scheduling, time management and timers, the system call interface, memory addressing, memory management, the page cache, the VFS, kernel synchronization, portability concerns, and debugging techniques. This book covers the most interesting features of the Linux 2.6 kernel, including the CFS scheduler, preemptive kernel, block I/O layer, and I/O schedulers. ³ The third edition of Linux Kernel Development includes new and updated material throughout the book: An all-new chapter on kernel data structures Details on interrupt handlers and bottom halves Extended coverage of virtual memory and memory allocation Tips on debugging the Linux kernel In-depth coverage of kernel synchronization and locking Useful insight into submitting kernel patches and working with the Linux kernel community

Robert Love is an open source programmer, speaker, and author who has been using and contributing to Linux for more than 15 years. He is currently senior software engineer at Google, where he was a member of the team that developed the Android mobile platform's kernel. Prior to Google, he was Chief Architect, Linux Desktop, at Novell. Before Novell, he was a kernel engineer at MontaVista Software and Ximian. ⁴ Love's kernel projects include the preemptive kernel, the process scheduler, the kernel events layer, inotify, VM enhancements, and several device drivers. ⁵ He has given numerous talks on and has written multiple articles about the Linux kernel and is a contributing editor for Linux Journal. His other books include Linux System Programming and Linux in a Nutshell.

It's like having an expert whispering the answers to me. I favor books. Books are often rigorously peer reviewed, coherent, well indexed, useful both as a reader and a reference. 1. Covers the material 2. Presented in an organized and meaningful way 3. Coherent 4. Thorough 5. Indexed (indexed expertly - I can find the desired answer quickly)

I had the 2nd version of this book and I got the 3rd one for updates. Every time I want to understand

certain part of Linux kernel, I go to this book first to get the brief idea. Robert did a very good job to give you a brief architecture and kernel major data structure using his language and approach. The book is not a Linux kernel reference for details and completeness, but it focus on the major points of Linux kernel. This is the book you can read from the beginning to the end of each chapter without getting lost. If you need to know the details for completeness, you may go to Linux kernel source anyway. I did not like certain kernel book because I was easily lost when I read some chapter. I really enjoy reading this book. Highly recommended!

I know everything now.

Very easy to read and understand. If you are new to Linux read this before going to something like Linux Device Drivers. There are a few details that the book glosses over but that is necessary to keep it simple and easy to understand for beginners. I followed the strategy of reading any topic first in this book and then researching about it more using Linux Device Drivers or google. Hope this helps.

Its a new unused books, however note it is an Indian Edition and at least from what it states on the book front and back is not authorized for sale outside the Indian Subcontinent. The text is a bit faded and sometimes hard to read and the paper is light and dull, not like the crisp laser like font and better paper of the actual US edition I have seen here in a local bookstore.

Linux is one of these moving targets. Books keep getting out dated.. every day. They have tried to include all the changes in page cache, elevator upto date. It is a very good read for any one who is interested in the linux kernel. If you dont have enough time to read all the release notes and follow mailing lists, this is one concise book to read and understand the 2.6.30+ version of Linux. Very very easy to read, most of them are explained verbally than with code samples. Lot of books waste print space by simply publishing code snippets from the kernel.. Worth the price. Even available in Kindle. There are some formatting issues in kindle, but very well presented most of time. Happy reading

While I have not completed reading this book yet, the chapters I read are very well written and informative. I was worried about the book targeting the 2.6 kernel which has long been outdated, but found most of the knowledge to be generic enough that this was not an issue.I purchased this book

primarily to prepare for an upcoming job interview. I had some small background in driver development and user space development. A job I was interviewing for delves into kernel space beyond my current depth. This book helped me come up to speed and ultimately pass the interview and get the job offer.

It's surprising how helpful this book is, considering how little material is actually inside. You need several other books, in order to get started properly (Linux Device Drivers; Understanding the Linux Kernel; and Linux Kernel Architecture, mainly). However, this is still worth owning, primarily because the subject has so much depth that a clear, high-level description of what's going on is invaluable. And that's what Robert Love provides.

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