



A thorough guide to the design  
and implementation of the  
Linux Kernel

# Linux Kernel Development

Third Edition

*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

**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 then Ximian. Love's kernel projects include the preemptive kernel, the process scheduler, the kernel events layer, inotify, VM enhancements, and several device drivers. He has given numerous talks on and has written multiple articles about the Linux kernel. He is contributing editor for *Linux Journal*, and his other books include *Linux System Programming* and *Linux in a Nutshell*.

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# Robert Love Linux Kernel Development 3rd Edition

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custom development environment Hackers and moders will also find this an indispensable guide to how Android works

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Robert Love,2005 The Linux kernel is one of the most important and far reaching open source projects That is why Novell Press is excited to bring you the second edition of Linux Kernel Development Robert Love s widely acclaimed insider s look at the Linux kernel This authoritative practical guide helps developers better understand the Linux kernel through updated coverage of all the major subsystems as well as new features associated with the Linux 2.6 kernel You ll be able to take an in depth look at Linux kernel from both a theoretical and an applied perspective as you cover a wide range of topics including algorithms system call interface paging strategies and kernel synchronization Get the top information right from the source in Linux Kernel Development      **The British National Bibliography** Arthur James Wells,2009      **Library Journal** Melvil

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