



The Linux Kernel Book

Rémy Card, Eric Dumas, Franck Mével

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'The book you hold in your hand will hopefully help you understand the Linux operating system kernel better. It really is a strange and wonderful world, full of subtle details ranging from how to control the physical hardware to how to manage multiple different users at the same time with limited resources.' Linus Torvalds the Linux Kernel book by Rémy Card, Éric Dumas, Franck Mével Translated by Chris Skrimshire Linux has the performance of many commercial Unix systems. It is stable, yet continues to evolve due to the many worldwide developers continually updating it and adding further functionality. As such, it can control the latest peripheral devices on the market such as flash memory and optical disks. Its power and flexibility and the fact that it is free has assured it an enthusiastic user base in academia, amongst home hobbyists, and increasingly in the business world. The Linux Kernel Book allows you to delve into the heart of this operating system by means of an in-depth treatment of the internal functioning of the kernel. Each chapter deals in detail with the system components, including:

- * Process management
- * Memory management
- * IPC Systems V
- * Signals
- * Pipes
- * POSIX tty
- * File systems
- * Loadable modules
- * Administration

The first part of each chapter presents basic concepts and describes the associated system calls, illustrating these with examples written in C. The second part of the chapter extends to a more advanced treatment, showing how the concepts are implemented at the level of the kernel and presenting the data structures and the internal functions used in Linux. Visit our Website! <http://www.wiley.com/compbooks/>

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