

Professional Linux Programming

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Rather than focusing on a particular language or development technique, Professional Linux Programming looks at the different development environments within Linux—the kernel, the desktop, and the web—and then demonstrates best practices, tools, and techniques for integrating applications with the OS as a whole.

Professional Linux Programming: Jon Masters, Richard Blum ...

Aimed at the experienced C/C++ programmer, Professional Linux Programming provides a wide-ranging and hands-on guide to the different pieces of the puzzle that are required to program successfully on this exciting new platform. The book is framed as a case study for building a custom database program in Linux for a video rental store.

Professional Linux Programming: Neil Matthew and Richard ...

Professional Linux Programming. Jon Masters, Richard Blum. ISBN: 978-0-471-77613-0. 504 pages. March 2007. Read an Excerpt . Description. This book is broken into four primary sections addressing key topics that Linux programmers need to master: Linux nuts and bolts, the Linux kernel, the Linux desktop, and Linux for the Web ...

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This book is broken into four primary sections addressing key topics that Linux programmers need to master: Linux nuts and bolts, the Linux kernel, the Linux desktop, and Linux for the Web Effective examples help get readers up to speed with building software on a Linux-based system while using the tools and utilities that contribute to streamlining the software development process Discusses using emulation and virtualization technologies for kernel development and application testing Includes useful insights aimed at helping readers understand how their applications code fits in with the rest of the software stack Examines cross-compilation, dynamic device insertion and removal, key Linux projects (such as Project Utopia), and the internationalization capabilities present in the GNOME desktop

Describes the concepts of programming with Linux, covering such topics as shell programming, file structure, managing memory, using MySQL, debugging, processes and signals, and GNOME.

Find an introduction to the architecture, concepts and algorithms of the Linux kernel in Professional Linux Kernel Architecture, a guide to the kernel sources and large number of connections among subsystems. Find an introduction to the relevant structures and functions exported by the kernel to userland, understand the theoretical and conceptual aspects of the Linux kernel and Unix derivatives, and gain a deeper understanding of the kernel. Learn how to reduce the vast amount of information contained in the kernel sources and obtain the skills necessary to understand the kernel sources.

The bash shell is a complete programming language, not merely a glue to combine external Linux commands. By taking full advantage of shell internals, shell programs can perform as snappily as utilities written in C or other compiled languages. And you will see how, without assuming Unix lore, you can write professional bash 4.0 programs through standard programming techniques. Complete bash coverage Teaches bash as a programming language Helps you master bash 4.0 features

Linux is a free, UNIX-like operating system created by Linus Torvald in 1991 that is developed by a loosely knit team of programmers working from all over the world. It works from on almost every kind of computer in existence, and provides a robust platform for a wide variety of applications.

This is the eBook version of the printed book. If the print book includes a CD-ROM, this content is not included within the eBook version. Advanced Linux Programming is divided into two parts. The first covers generic UNIX system services, but with a particular eye towards Linux specific information. This portion of the book will be of use even to advanced programmers who have worked with other Linux systems since it will cover Linux specific details and differences. For programmers without UNIX experience, it will be even more valuable. The second section covers material that is entirely Linux specific. These are truly advanced topics, and are the techniques that the gurus use to build great applications. While this book will focus mostly on the Application Programming Interface (API) provided by the Linux kernel and the C library, a preliminary introduction to the development tools available will allow all who purchase the book to make immediate use of Linux.

Numerous people still believe that learning and acquiring expertise in Linux is not easy, that only a professional can understand how a Linux system works. Nowadays, Linux has gained much popularity both at home and at the workplace. Linux Yourself: Concept and Programming aims to help and guide people of all ages by offering a deep insight into the concept of Linux, its usage, programming, administration, and several other connected topics in an easy approach. This book can also be used as a textbook for undergraduate/postgraduate engineering students and others who have a passion to gain expertise in the field of computer science/information technology as a Linux developer or administrator. The word "Yourself" in the title refers to the fact that the content of this book is designed to give a good foundation to understand the Linux concept and to guide yourself as a good Linux professional in various platforms. There are no prerequisites to understand the contents from this book, and a person with basic knowledge of C programming language will be able to grasp the concept with ease. With this mindset, all the topics are presented in such a way that it should be simple, clear, and straightforward with many examples and figures. Linux is distinguished by its own power and flexibility, along with open-source accessibility and community as compared to other operating systems, such as Windows and macOS. It is the author's sincere view that readers of all levels will find this book worthwhile and will be able to learn or sharpen their skills. KEY FEATURES Provides a deep conceptual learning and expertise in programming skill for any user about Linux, UNIX, and their features. Elaborates GUI and CUI including Linux commands, various shells, and the vi editor Details file management and file systems to understand Linux system architecture easily Promotes hands-on practices of regular expressions and advanced filters, such as sed and awk through many helpful examples Describes an insight view of shell scripting, process, thread, system calls, signal, inter-process communication, X Window System, and many more aspects to understand the system programming in the Linux environment Gives a detailed description of Linux administration by elaborating LILO, GRUB, RPM-based package, and program installation and compilation that can be very helpful in managing the Linux system in a very efficient way Reports some famous Linux distributions to understand the similarity among all popular available Linux and other features as case studies

Pro Bash Programming teaches you how to effectively utilize the Bash shell in your programming. The Bash shell is a complete programming language, not merely a glue to combine external Linux commands. By taking full advantage of Shell internals, Shell programs can perform as snappily as utilities written in C or other compiled languages. And you will see how, without assuming Unix lore, you can write professional Bash 4.3 programs through standard programming techniques. This second edition has updated for Bash 4.3, and many scripts have been rewritten to make them more idiomatically Bash, taking better advantage of features specific to Bash. It is easy to read, understand, and will teach you how to get to grips with Bash programming without drowning you in pages and pages of syntax. Using this book you will be able to use the shell efficiently, make scripts run faster using expansion and external commands, and understand how to overcome many common mistakes that cause scripts to fail. This book is perfect for all beginning Linux and Unix system administrators who want to be in full control of their systems, and really get to grips with Bash programming.

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