

Understanding The Linux Kernel Third Edition

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Gray Hat Hacking The Ethical Hackers Handbook, 3rd Edition
Linux Kernel Development
Physics by Computer SBCCI 2007
Linux Kernel Programming
The Complete FreeBSD
Proceedings
System of Logic, and History of Logical Doctrines ... Translated from the German, with notes and appendices, by T. M. Lindsay
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The world as will and idea, tr. from the Germ. by R.B. Haldane and J. Kemp
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Mechanical Engineering, Materials and Energy
How Linux Works, 3rd Edition
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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

to thoroughly understand what makes linux tick and why it's so efficient you need to delve deep into the heart of the operating system into the linux kernel itself the kernel is linux in the case of the linux operating system it's the only bit of software to which the term linux applies the kernel handles all the requests or completed i/o operations and determines which programs will share its processing time and in what order responsible for the sophisticated memory management of the whole system the linux kernel is the force behind the legendary linux efficiency the new edition of understanding the linux kernel takes you on a guided tour through the most significant data structures many algorithms and programming tricks used in the kernel probing beyond the superficial features the authors offer valuable insights to people who want to know how things really work inside their machine relevant segments of code are dissected and discussed line by line the book covers more than just the functioning of the code it explains the theoretical underpinnings for why linux does things the way it does the new edition of the book has been updated to cover version 2.4 of the kernel which is quite different from version 2.2 the virtual memory system is entirely new support for multiprocessor systems is

improved and whole new classes of hardware devices have been added the authors explore each new feature in detail other topics in the book include memory management including file buffering process swapping and direct memory access dma the virtual filesystem and the second extended filesystem process creation and scheduling signals interrupts and the essential interfaces to device drivers timing synchronization in the kernel interprocess communication ipc program execution understanding the linux kernel second edition will acquaint you with all the inner workings of linux but is 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 if knowledge is power then this book will help you make the most of your linux system

best selling guide to the inner workings of the linux operating system with over 50 000 copies sold since its original release in 2014 linux for the superuser unlike some operating systems linux doesn t try to hide the important bits from you it gives you full control of your computer but to truly master linux you need to understand its internals like how the system boots how networking works and what the kernel actually does in this third edition of the bestselling how linux works author brian ward peels back the layers of this well loved operating system to make linux internals accessible this edition has been thoroughly updated and expanded with added coverage of logical volume manager lvm virtualization and containers you ll learn how linux boots from boot loaders to init systemd how the kernel manages devices device drivers and processes how networking interfaces firewalls and servers work how development tools work and relate to shared libraries how to write effective shell scripts you ll also explore the kernel and examine key system tasks inside user space processes including system calls input and output and filesystem maintenance with its combination of background theory real world examples and thorough explanations how linux works 3rd edition will teach you what you need to know to take control of your operating system new to this edition hands on coverage of the lvm journald logging system and ipv6 additional chapter on virtualization featuring containers and cgroups expanded discussion of systemd covers systemd based installations

the latest strategies for uncovering today s most devastating attacks thwart malicious network intrusion by using cutting edge techniques for finding and fixing security flaws fully updated and expanded with nine new chapters gray hat hacking the ethical hacker s handbook third edition details the most recent vulnerabilities and remedies along with legal disclosure methods learn from the experts

how hackers target systems defeat production schemes write malicious code and exploit flaws in windows and linux systems malware analysis penetration testing scada voip and security are also covered in this comprehensive resource develop and launch exploits using backtrack and metasploit employ physical social engineering and insider attack techniques build perl python and ruby scripts that initiate stack buffer overflows understand and prevent malicious content in adobe office and multimedia files detect and block client side server voip and scada attacks reverse engineer fuzz and decompile windows and linux software develop sql injection cross site scripting and forgery exploits trap malware and rootkits using honeypots and sandboxes

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

this course intended for upper division undergraduate or graduate students was designed by w. kinzel and g. reents as a textbook in computational physics but may also serve as a supplement to courses in theoretical physics it is an introduction to the solution of physical models by computer the programs developed in this book are based on the modern computer languages mathematica and c and are written for pcs as well as for workstations 28 examples from different fields of physics are worked out including chaos fractals the hofstadter butterfly phase transitions monte carlo simulations percolation polymers combinatorial optimization neural networks and

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unlike some operating systems linux doesn t try to hide the important bits from you it gives you full control of your computer but to truly master linux you need to understand its internals like how the system boots how networking works and what the kernel actually does in this third edition of the bestselling how linux works author brian ward peels back the layers of this well loved operating system to make linux internals accessible this edition has been thoroughly updated and expanded with added coverage of logical volume manager lvm virtualization and containers you ll learn how linux boots from boot loaders to init systemd how the kernel manages devices device drivers and processes how networking interfaces firewalls and servers work how development tools work and relate to shared libraries how to write effective shell scripts you ll also explore the kernel and examine key system tasks inside user space including system calls input and output and filesystems with its combination of background theory real world examples and patient explanations how linux works 3rd edition will teach you what you need to know to solve pesky problems and take control of your operating system

the complete guide to optimizing systems performance written by the winner of the 2013 lisa award for outstanding achievement in system administration large scale enterprise cloud and virtualized computing systems have introduced serious performance challenges now internationally renowned performance expert brendan gregg has brought together proven methodologies tools and metrics for analyzing and tuning even the most complex environments systems performance enterprise and the cloud focuses on linux and unix performance while illuminating performance issues that are relevant to all operating systems you ll gain deep insight into how systems work and perform and learn methodologies for analyzing and improving

system and application performance gregg presents examples from bare metal systems and virtualized cloud tenants running linux based ubuntu fedora centos and the illumos based joyent smartostm and omniti omnios he systematically covers modern systems performance including the traditional analysis of cpus memory disks and networks and new areas including cloud computing and dynamic tracing this book also helps you identify and fix the unknown unknowns of complex performance bottlenecks that emerge from elements and interactions you were not aware of the text concludes with a detailed case study showing how a real cloud customer issue was analyzed from start to finish coverage includes modern performance analysis and tuning terminology concepts models methods and techniques dynamic tracing techniques and tools including examples of dtrace systemtap and perf kernel internals uncovering what the os is doing using system observability tools interfaces and frameworks understanding and monitoring application performance optimizing cpus processors cores hardware threads caches interconnects and kernel scheduling memory optimization virtual memory paging swapping memory architectures busses address spaces and allocators file system i o including caching storage devices controllers disk i o workloads raid and kernel i o network related performance issues protocols sockets interfaces and physical connections performance implications of os and hardware based virtualization and new issues encountered with cloud computing benchmarking getting accurate results and avoiding common mistakes this guide is indispensable for anyone who operates enterprise or cloud environments system network database and web admins developers and other professionals for students and others new to optimization it also provides exercises reflecting gregg s extensive instructional experience

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