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# Understanding The Linux Kernel 4th Edition

**Didier Musso**



## **Understanding The Linux Kernel 4th Edition :**

Understanding the Linux Kernel Daniel Pierre Bovet, Marco Cesati, 2002 To thoroughly understand what makes Linux tick and why it is 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 is 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 will learn what conditions bring out Linux's best performance and you will 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

Professional Linux Kernel Architecture Wolfgang Mauerer, 2010-03-11 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

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**Digital Forensics in the Era of Artificial Intelligence** Nour Moustafa,2022-07-18 Digital forensics plays a crucial role in identifying analysing and presenting cyber threats as evidence in a court of law Artificial intelligence particularly machine learning and deep learning enables automation of the digital investigation process This book provides an in depth look at the fundamental and advanced methods in digital forensics It also discusses how machine learning and deep learning algorithms can be used to detect and investigate cybercrimes This book demonstrates digital forensics and cyber investigating techniques with real world applications It examines hard disk analytics and style architectures including Master Boot Record and GUID Partition Table as part of the investigative process It also covers cyberattack analysis in Windows Linux and network systems using virtual machines in real world scenarios Digital Forensics in the Era of Artificial Intelligence will be helpful for those interested in digital forensics and using machine learning techniques in the investigation of cyberattacks and the detection of evidence in cybercrimes Proceedings of the FREENIX Track ,2003 ICTACS 2006 Bao T. Ho,2007 This volume brings together many contributions from leading research scientists engineers and practitioners in computer

science Selected by program committee members the topics describe innovative research and new technologies in the following areas of interest image processing computer vision and pattern recognition computational linguistics and natural language processing artificial intelligence machine learning and algorithms software engineering computer networks and security and bioinformatics

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Proceedings, 2005 Systems Performance Brendan Gregg, 2013-10-07 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

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