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KEY=DESIGN - HOLLAND MOHAMMAD

The Design of the UNIX Operating System Pearson Software -- Operating Systems. The Design of the UNIX Operating System This book describes the internal algorithms and the structures that form the basis of the UNIX operating system and their relationship to the programmer interface. The system description is based on UNIX System V Release 2 supported by AT&T, with some features from Release 3. The Design and Implementation of the 4.4 BSD Operating System Pearson Education This book describes the design and implementation of the BSD operating system--previously known as the Berkeley version of UNIX. Today, BSD is found in nearly every variant of UNIX, and is widely used for Internet services and firewalls, timesharing, and multiprocessing systems. Readers involved in technical and sales support can learn the capabilities and limitations of the system; applications developers can learn effectively and efficiently how to interface to the system; systems programmers can learn how to maintain, tune, and extend the system. Written from the unique perspective of the system's architects, this book delivers the most comprehensive, up-to-date, and authoritative technical information on the internal structure of the latest BSD system. As in the previous book on 4.3BSD (with Samuel Leffler), the authors first update the history and goals of the BSD system. Next they provide a coherent overview of its design and implementation. Then, while explaining key design decisions, they detail the concepts, data structures, and algorithms used in implementing the system's facilities. As an in-depth study of a contemporary, portable operating system, or as a practical reference, readers will appreciate the wealth of insight and guidance contained in this book. Highlights of the book: Details major changes in process and memory management Describes the new extensible and stackable filesystem interface Includes an invaluable chapter on the new network filesystem Updates information on networking and interprocess communication Introduction to Unix and Shell Programming Pearson Education India Introduction to Unix and Shell Programming is designed to be an introductory first-level book for a course on Unix. Organised into twelve simple chapters, the book guides the students from the basic introduction to the Unix operating system and ext. The Design and Implementation of the 4.3BSD UNIX Operating System Answer Book Addison Wesley Publishing Company This answer book provides complete workig solutions to the wxercises in the definitive Design and Implementation of the 4.3bsd UNIX Operating System. It covers the internal structure of the 4.3bsd system and the concepts, data structures, and algorithms used in implementing the system facilities. The Design and Implementation of the 4.3BSD UNIX Operating System Addison Wesley Publishing Company This covers the internal structure of the 4.3BSD systems and the concepts, data structures and algorithms used in implementing the system facilities. Also includes a chapter on TCP/IP. System Performance Tuning Help for Unix Administrators "O'Reilly Media, Inc." System Performance Tuning answers one of the most fundamental questions you can ask about your computer: How can I get it to do more work without buying more hardware? In the current economic downturn, performance tuning takes on a new importance. It allows system administrators to make the best use of existing systems and minimize the purchase of new equipment. Well-tuned systems save money and time that would otherwise be wasted dealing with slowdowns and errors. Performance tuning always involves compromises; unless system administrators know what the compromises are, they can't make intelligent decisions.Tuning is an essential skill for system administrators who face the problem of adapting the speed of a computer system to the speed requirements imposed by the real world. It requires a detailed understanding of the inner workings of the computer and its architecture. System Performance Tuning covers two distinct areas: performance tuning, or the art of increasing performance for a specific application, and capacity planning, or deciding what hardware best fulfills a given role. Underpinning both subjects is the science of computer architecture. This book focuses on the operating system, the underlying hardware, and their interactions. Topics covered include: Real and perceived performance problems, introducing capacity planning and performance monitoring (highlighting their strengths and weaknesses). An integrated description of all the major tools at a system administrator's disposal for tracking down system performance problems. Background on modern memory handling techniques, including the memory-caching filesystem implementations in Solaris and AIX. Updated sections on memory conservation and computing memory requirements. In depth discussion of disk interfaces, bandwidth capacity considerations, and RAID systems. Comprehensive discussion of NFS and greatly expanded discussion of networking. Workload management and code tuning. Special topics such as tuning Web servers for various types of content delivery and developments in cross-machine parallel computing For system administrators who want a hands-on introduction to system performance, this is the book to recommend. The Design of Unix Operating System A Practical Approach to Parallel Computing Universities Press Unix in a Nutshell "O'Reilly Media, Inc." As an open operating system, Unix can be improved on by anyone and everyone: individuals, companies, universities, and more. As a result, the very nature of Unix has been altered over the years by numerous extensions formulated in an assortment of versions. Today, Unix encompasses everything from Sun's Solaris to Apple's Mac OS X and more varieties of Linux than you can easily name. The latest edition of this bestselling

reference brings Unix into the 21st century. It's been reworked to keep current with the broader state of Unix in today's world and highlight the strengths of this operating system in all its various flavors. Detailing all Unix commands and options, the informative guide provides generous descriptions and examples that put those commands in context. Here are some of the new features you'll find in Unix in a Nutshell, Fourth Edition Solaris 10, the latest version of the SVR4-based operating system, GNU/Linux, and Mac OS X Bash shell (along with the 1988 and 1993 versions of ksh) tsch shell (instead of the original Berkeley csh) Package management programs, used for program installation on popular GNU/Linux systems, Solaris and Mac OS X GNU Emacs Version 21 Introduction to source code management systems Concurrent versions system Subversion version control system GDB debugger As Unix has progressed, certain commands that were once critical have fallen into disuse. To that end, the book has also dropped material that is no longer relevant, keeping it taut and current. If you're a Unix user or programmer, you'll recognize the value of this complete, up-to-date Unix reference. With chapter overviews, specific examples, and detailed command. AUUGN Understanding the Linux Kernel "O'Reilly Media, Inc." 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. Embedded Operating Systems A Practical Approach Springer This practically-oriented textbook provides a clear introduction to the different component parts of an operating system and how these work together. The easy-to-follow text covers the bootloader, kernel, filesystem, shared libraries, start-up scripts, configuration files and system utilities. The procedure for building each component is described in detail, guiding the reader through the process of creating a fully functional GNU/Linux embedded OS. Features: presents a concise overview of the GNU/Linux system, and a detailed review of GNU/Linux filesystems; describes how to build an embedded system to run on a virtual machine, and to run natively on an actual processor; introduces the concept of the compiler toolchain, demonstrating how to develop a cross toolchain so that programs can be built on a range of different architectures; discusses the ARM-based platforms BeagleBone and Raspberry Pi; explains how to build OpenWRT firmware images for OMxP Open-mesh devices and the Dragino MS14 series. A System V Guide to UNIX and XENIX Springer Science & Business Media A System V Guide to UNIX and XENIX takes the novice reader through the features of the UNIX system step-by-step without jargon and assumptions about the reader's technical knowledge found in similar books. With its clear explanations, numerous examles, and straightforward organization, this book appeals to many non-technical people just beginning to work with UNIX, as well as engineers and programmers with prior experience. Anyone who reads this book will learn how to use the features of UNIX, and how to modify and customize those features. It is organized in such a way that it leads the reader from the UNIX basics to the more complex and powerful concepts such as shell-programming and networking. Although the book is written as introduction and reference for the UNIX user, it can very well be used as a textbook in undergraduate computer science or computer engineering courses. Revival: The Handbook of Software for Engineers and Scientists (1995) CRC Press The Handbook of Software for Engineers and Scientists is a single-volume, ready reference for the practicing engineer and scientist in industry, government, and academia as well as the novice computer user. It provides the most up-to-date information in a variety of areas such as common platforms and operating systems, applications programs, networking, and many other problem-solving tools necessary to effectively use computers on a daily basis. Specific platforms and environments thoroughly discussed include MS-DOS®, Microsoft® WindowsTM, the Macintosh® and its various systems, UNIXTM, DEC VAXTM, IBM® mainframes, OS/2®, WindowsTM NT, and NeXTSTEPTM. Word processing, desktop publishing, spreadsheets, databases, integrated packages, computer presentation systems, groupware, and a number of useful utilities are also covered. Several extensive sections in the book are devoted to mathematical and statistical software. Information is provided on circuits and control simulation programs, finite element tools, and solid modeling tools. Advanced UNIX Programming Pearson Education The classic guide to UNIX® programming-completely updated! UNIX application programming requires a mastery of system-level services. Making sense of the many functions-more than 1,100 functions in the current UNIX specification-is a daunting task, so for years programmers have turned to Advanced UNIX Programming for its clear, expert advice on how to use the key functions reliably. An enormous number of changes have taken place in the UNIX environment since the landmark first edition. In Advanced UNIX Programming, Second Edition, UNIX pioneer Marc J. Rochkind brings the book fully up to

date, with all-new, comprehensive coverage including: POSIX Solaris™ Linux® FreeBSD Darwin, the Mac™ OS X kernel And more than 200 new system calls Rochkind's fully updated classic explains all the UNIX system calls you're likely to need, all in a single volume! Interprocess communication, networking (sockets), pseudo terminals, asynchronous I/O, advanced signals, realtime, and threads Covers the system calls you'll actually use-no need to plow through hundreds of improperly implemented, obsolete, and otherwise unnecessary system calls! Thousands of lines of example code include a Web browser and server, a keystroke recorder/player, and a shell complete with pipelines, redirection, and background processes Emphasis on the practical-ensuring portability, avoiding pitfalls, and much more! Since 1985, the one book to have for mastering UNIX application programming has been Rochkind's Advanced UNIX Programming. Now completely updated, the second edition remains the choice for up-to-the-minute, in-depth coverage of the essential system-level services of the UNIX family of operating systems. Open Systems Handbook Academic Press Open Systems Handbook, Second Edition provides an easy-to-read, thorough, and management-oriented explanation of the promises, dangers, and realities of open systems. This edition describes specific products and various open systems that have been updated to reflect the events of the mid-1990s. Emerging open technologies that either didn't exist in 1991 or were in their infancy, such as client/server middleware, are also covered. Topics include the definitions and history of open systems, open systems components, end user interaction points, and elements of open systems software. The general communications hardware, visual application development, models of integration, and advantages of open systems are likewise elaborated. This publication is a good reference for computing professionals and engineers working on open systems. Encyclopedia of Computer Science and Technology Infobase Publishing Presents an illustrated A-Z encyclopedia containing approximately 600 entries on computer and technology related topics. Lions' Commentary on UNIX 6th Edition with Source Code Peer to Peer Communications For the past 20 years, UNIX insiders have cherished and zealously guarded pirated photocopies of this manuscript, a "hacker trophy" of sorts. Now legal (and legible) copies are available. An international "who's who" of UNIX wizards, including Dennis Ritchie, have contributed essays extolling the merits and importance of this underground classic. AUUGN AUUGN Computing with T.Node Parallel Architecture Springer Science & Business Media Parallel processing is seen today as the means to improve the power of computing facilities by breaking the Von Neumann bottleneck of conventional sequential computer architectures. By defining appropriate parallel computation models definite advantages can be obtained. Parallel processing is the center of the research in Europe in the field of Information Processing Systems so the CEC has funded the ESPRIT Supemode project to develop a low cost, high performance, multiprocessor machine. The result of this project is a modular, reconfigurable architecture based on !NMOS transputers: T.Node. This machine can be considered as a research, industrial and commercial success. The CEC has decided to continue to encourage manufacturers as well as research and end-users of transputers by funding other projects in this field. This book presents course papers of the Eurocourse given at the Joint Research Centre in ISPRA (Italy) from the 4th to 8 of November 1991. First we present an overview of various trends in the design of parallel architectures and specially of the T.Node with it's software development environments, new distributed system aspects and also new hardware extensions based on the !NMOS T9000 processor. In a second part, we review some real case applications in the field of image synthesis, image processing, signal processing, terrain modeling, particle physics simulation and also enhanced parallel and distributed numerical methods on T.Node. PHP5 and MySQL Bible John Wiley & Sons This comprehensive tutorial and reference covers all the basics of PHP 5, a popular open source Web scripting language, and MySQL 4.012, the most popular open source database engine Explores why users need PHP and MySQL, how to get started, how to add PHP to HTML, and how to connect HTML Web pages to MySQL Offers an extensive tutorial for developing applications with PHP and MySQL Includes coverage of how to install, administer, and design MySQL databases independently of PHP; exception and error handling; debugging techniques; PostgreSQL database system; and PEAR database functions The authors provide unique case studies of how and where to use PHP drawn from their own extensive Web experience EurAsia-ICT 2002: Information and Communication Technology First EurAsian Conference, Shiraz, Iran, October 29-31, 2002, Proceedings Springer We welcomed participants to the 1st EurAsian Conference on Advances in Information and Communication Technology (EurAsia ICT 2002) held in Iran. The aim of the conference was to serve as a forum to bring together researchers from academia and commercial developers from industry to discuss the current state of the art in ICT, mainly in Europe and Asia. Inspirations and new ideas were expected to emerge from intensive discussions during formal sessions and social events. Keynote addresses, research presentation, and discussion during the conference helped to further develop the exchange of ideas among the researchers, developers, and practitioners who attended. The conference attracted more than 300 submissions and each paper was reviewed by at least three program committee members. The program committee selected 119 papers from authors of 30 different countries for presentation and publication, a task which was not easy due to the high quality of the submitted papers. Eleven workshops were organized in parallel with the EurAsia ICT conference. The proceedings of these workshops, with more than 100 papers, were published by the Austrian Computer Society. We would like to express our thanks to our colleagues who helped with putting together the technical program: the program committee members and external reviewers for their timely and rigorous reviews of the papers, and the organizing committee for their help in administrative work and support. We owe special thanks to Thomas Schierer for always being available when his helping hand was needed. Basics of UNIX Environment and System Calls Educreation Publishing UNIX has been used as tool to explore concepts of operating system. It allows you to experiment and play with programs to get interesting results. Chapters in the book include many aspects of basic unix commands, shell scripts and editing files with the help of commands. Demonstration of system calls, provide their easy understanding. The book is meant for beginners as well as experienced users. The goal of this book is to help the students of B.E/ B.Tech (CSE), MCA, B. Sc. (CS/IT). Oracle Database Performance and Scalability A Quantitative Approach John Wiley & Sons The innovative performance and scalability features with each newer edition of the Oracle database system can

present challenges for users. This book teaches software developers and students how to effectively deal with Oracle performance and scalability issues throughout the entire life cycle of developing Oracle-based applications. Using real-world case studies to deliver key theories and concepts, the book introduces highly dependable and ready-to-apply performance and scalability optimization techniques, augmented with Top 10 Oracle Performance and Scalability Features as well as a supplementary support website. Modular Programming Languages Joint Modular Languages Conference, JMLC 2000 Zurich, Switzerland, September 6-8, 2000 Proceedings Springer Thecircleisclosed.The European Modula-2 Conference was originally launched with the goal of increasing the popularity of Modula-2, a programming language created by Niklaus Wirth and his team at ETH Zuric¨ h as a successor of Pascal. For more than a decade, the conference has wandered through Europe, passing Bled,Slovenia,in1987,Loughborough,UK,in1990,Ulm,Germany,in1994,and Linz, Austria, in 1997. Now, at the beginning of the new millennium, it is back at its roots in Zuric¨ h, Switzerland. While traveling through space and time, the conference has mutated. It has widened its scope and changed its name to Joint Modular Languages Conference (JMLC). With an invariant focus, though, on modularsoftwareconstructioninteaching,research,and“outthere”inindustry. This topic has never been more important than today, ironically not because of insu?cient language support but, quite on the contrary, due to a truly c- fusing variety of modular concepts o?ered by modern languages: modules, pa- ages, classes, and components, the newest and still controversial trend. “The recent notion of component is still very vaguely de?ned, so vaguely, in fact, that it almost seems advisable to ignore it.” (Wirth in his article “Records, Modules, Objects, Classes, Components” in honor of Hoare’s retirement in 1999). Clar- cation is needed. AUUGN Parallel Computing and Mathematical Optimization Proceedings of the Workshop on Parallel Algorithms and Transputers for Optimization, Held at the University of Siegen, FRG, November 9, 1990 Springer Science & Business Media This special volume contains the Proceedings of a Workshop on "Parallel Algorithms and Transputers for Optimization" which was held at the University of Siegen, on November 9, 1990. The purpose of the Workshop was to bring together those doing research on 2.lgorithms for parallel and distributed optimization and those representatives from industry and business who have an increasing demand for computing power and who may be the potential users of nonsequential approaches. In contrast to many other conferences, especially North-American, on parallel processing and supercomputers the main focus of the contributions and discussion was "problem oriented". This view reflects the following philosophy: How can the existing computing infrastructure (PC's, workstations, local area networks) of an institution or a company be used for parallel and/or distributed problem solution in optimization. This volume of the LECfURE NOTES ON ECONOMICS AND MA THEMA TICAL SYSTEMS contains most of the papers presented at the workshop, plus some additional invited papers covering other important topics related to this workshop. The papers appear here grouped according to four general areas. (1) Solution of optimization problems using massive parallel systems (data parallelism). The authors of these papers are: Lootsma; Gehne. (II) Solution of optimization problems using coarse-grained parallel approaches on multiprocessor systems (control parallelism). The authors of these papers are: Bierwirth, Mattfeld, and Stoppler; Schwartz; Boden, Gehne, and Grauer; and Taudes and Netousek. Introduction to Parallel Programming Academic Press Introduction to Parallel Programming focuses on the techniques, processes, methodologies, and approaches involved in parallel programming. The book first offers information on Fortran, hardware and operating system models, and processes, shared memory, and simple parallel programs. Discussions focus on processes and processors, joining processes, shared memory, time-sharing with multiple processors, hardware, loops, passing arguments in function/subroutine calls, program structure, and arithmetic expressions. The text then elaborates on basic parallel programming techniques, barriers and race conditions, and nested loops. The manuscript takes a look at overcoming data dependencies, scheduling summary, linear recurrence relations, and performance tuning. Topics include parallel programming and the structure of programs, effect of the number of processes on overhead, loop splitting, indirect scheduling, block scheduling and forward dependency, and induction variable. The publication is a valuable reference for researchers interested in parallel programming. Solaris 8 System Administrator Que Publishing Offers test-taking strategies and tips, practice questions, and a cram sheet. Practical mod_perl Programming, Administration, Performance Tips "O'Reilly Media, Inc." mod_perl embeds the popular programming language Perl in the Apache web server, giving rise to a fast and powerful web programming environment. Practical mod_perl is the definitive book on how to use, optimize, and troubleshoot mod_perl. New mod_perl users will learn how to quickly and easily get mod_perl compiled and installed. But the primary purpose of this book is to show you how to take full advantage of mod_perl: how to make a mod_perl-enabled Web site as fast, flexible, and easily-maintainable as possible. The authors draw from their own personal experience in the field, as well as the combined experience of the mod_perl community, to present a rich and complete picture of how to set up and maintain a successful mod_perl site. This book is also the first book to cover the "next generation" of mod_perl: mod_perl 2.0, a completely rewritten version of mod_perl designed for integration with Apache 2.0, which for the first time supports threads. The book covers the following topics, and more: Configuring mod_perl optimally for your web site Porting and optimizing programs for a mod_perl environment Performance tuning: getting the very fastest performance from your site Controlling and monitoring the server to circumvent crashes and clogs Integrating with databases efficiently and painlessly Debugging tips and tricks Maximizing security Written for Perl web developers and web administrators, Practical mod_perl is an extensive guide to the nuts and bolts of the powerful and popular combination of Apache and mod_perl. From writing and debugging scripts to keeping your server running without failures, the techniques in this book will help you squeeze every ounce of power out of your server. True to its title, this is the practical guide to mod_perl. POSIX.4 Programmers Guide Programming for the Real World "O'Reilly Media, Inc." Written in an informal, informative style, this authoritative guide goes way beyond the standard reference manual. It discusses each of the POSIX.4 facilities and what they mean, why and when you would use each of these facilities, and trouble spots you might run into. c. National Computer Security Conference Proceedings, 1992

Information Systems Security DIANE Publishing Held October 13-16, 1992. Emphasizes information systems security criteria (& how it affects us), and the actions associated with organizational accreditation. These areas are highlighted by emphasizing how organizations are integrating information security solutions. Includes presentations from government, industry and academia and how they are cooperating to extend the state-of-the-art technology to information systems security. 72 referred papers, trusted systems tutorial and 23 executive summaries. Very valuable! Must buy! Secure Computers and Networks Analysis, Design, and Implementation CRC Press This updated guide presents expert information on analyzing, designing, and implementing all aspects of computer network security. Based on the authors' earlier work, Computer System and Network Security, this new book addresses important concerns regarding network security. It contains new chapters on World Wide Web security issues, secure electronic commerce, incident response, as well as two new appendices on PGP and UNIX security fundamentals. TCP/IP Architecture, Design, and Implementation in Linux John Wiley & Sons This book provides thorough knowledge of Linux TCP/IP stack and kernel framework for its network stack, including complete knowledge of design and implementation. Starting with simple client-server socket programs and progressing to complex design and implementation of TCP/IP protocol in linux, this book provides different aspects of socket programming and major TCP/IP related algorithms. In addition, the text features netfilter hook framework, a complete explanation of routing sub-system, IP QOS implementation, and Network Soft IRQ. This book further contains elements on TCP state machine implementation,TCP timer implementation on Linux, TCP memory management on Linux, and debugging TCP/IP stack using lcrash Parallel I/O for High Performance Computing Morgan Kaufmann "I enjoyed reading this book immensely. The author was uncommonly careful in his explanations. I'd recommend this book to anyone writing scientific application codes." -Peter S. Pacheco, University of San Francisco "This text provides a useful overview of an area that is currently not addressed in any book. The presentation of parallel I/O issues across all levels of abstraction is this book's greatest strength." -Alan Sussman, University of Maryland Scientific and technical programmers can no longer afford to treat I/O as an afterthought. The speed, memory size, and disk capacity of parallel computers continue to grow rapidly, but the rate at which disk drives can read and write data is improving far less quickly. As a result, the performance of carefully tuned parallel programs can slow dramatically when they read or write files-and the problem is likely to get far worse. Parallel input and output techniques can help solve this problem by creating multiple data paths between memory and disks. However, simply adding disk drives to an I/O system without considering the overall software design will not significantly improve performance. To reap the full benefits of a parallel I/O system, application programmers must understand how parallel I/O systems work and where the performance pitfalls lie. Parallel I/O for High Performance Computing directly addresses this critical need by examining parallel I/O from the bottom up. This important new book is recommended to anyone writing scientific application codes as the best single source on I/O techniques and to computer scientists as a solid up-to-date introduction to parallel I/O research. Features: An overview of key I/O issues at all levels of abstraction-including hardware, through the OS and file systems, up to very high-level scientific libraries. Describes the important features of MPI-IO, netCDF, and HDF-5 and presents numerous examples illustrating how to use each of these I/O interfaces. Addresses the basic question of how to read and write data efficiently in HPC applications. An explanation of various layers of storage - and techniques for using disks (and sometimes tapes) effectively in HPC applications. Computer Forensics Incident Response Essentials Pearson Education Every computer crime leaves tracks–you just have to know where to find them. This book shows you how to collect and analyze the digital evidence left behind in a digital crime scene. Computers have always been susceptible to unwanted intrusions, but as the sophistication of computer technology increases so does the need to anticipate, and safeguard against, a corresponding rise in computer-related criminal activity. Computer forensics, the newest branch of computer security, focuses on the aftermath of a computer security incident. The goal of computer forensics is to conduct a structured investigation to determine exactly what happened, who was responsible, and to perform the investigation in such a way that the results are useful in a criminal proceeding. Written by two experts in digital investigation, Computer Forensics provides extensive information on how to handle the computer as evidence. Kruse and Heiser walk the reader through the complete forensics process–from the initial collection of evidence through the final report. Topics include an overview of the forensic relevance of encryption, the examination of digital evidence for clues, and the most effective way to present your evidence and conclusions in court. Unique forensic issues associated with both the Unix and the Windows NT/2000 operating systems are thoroughly covered. This book provides a detailed methodology for collecting, preserving, and effectively using evidence by addressing the three A's of computer forensics: Acquire the evidence without altering or damaging the original data. Authenticate that your recorded evidence is the same as the original seized data. Analyze the data without modifying the recovered data. Computer Forensics is written for everyone who is responsible for investigating digital criminal incidents or who may be interested in the techniques that such investigators use. It is equally helpful to those investigating hacked web servers, and those who are investigating the source of illegal pornography. Basics of UNIX Environment Educreation Publishing Unix has always been a fascinating subject. It allows you to experiment and play with programs to get interesting results. More over with Linux you can make best use of the graphics interface. Various chapters in the book take you around the many aspects of basic Unix commands, shell scripts and editing files with the help of commands. The Book is meant for beginners as well as experienced users. The goal of this book is to help the students of B. Sc. (Comp. Sc.), B. Sc. (I.T.), Engineering and Diploma in computer science/ Information Technology. I feel that there is room for improvement in every work. Suggestions regarding the improvement are always welcomed. Operating Systems MacMillan Publishing Company