



Mac OS X Internals

A Systems Approach



AMIT SINGH

Mac Os X Internals A Systems Approach

Jake Kouns, Daniel Minoli



Mac OS X Internals A Systems Approach:

Mac OS X Internals Amit Singh, 2016-01-25 Mac OS X was released in March 2001 but many components such as Mach and BSD are considerably older. Understanding the design, implementation and workings of Mac OS X requires examination of several technologies that differ in their age, origins, philosophies and roles. *Mac OS X Internals A Systems Approach* is the first book that dissects the internals of the system, presenting a detailed picture that grows incrementally as you read. For example, you will learn the roles of the firmware, the bootloader, the Mach and BSD kernel components, including the process, virtual memory, IPC and file system layers, the object-oriented I/O Kit driver framework, user libraries and other core pieces of software. You will learn how these pieces connect and work internally, where they originated and how they evolved. The book also covers several key areas of the Intel-based Macintosh computers. A solid understanding of system internals is immensely useful in design, development and debugging for programmers of various skill levels. System programmers can use the book as a reference and to construct a better picture of how the core system works. Application programmers can gain a deeper understanding of how their applications interact with the system. System administrators and power users can use the book to harness the power of the rich environment offered by Mac OS X. Finally, members of the Windows, Linux, BSD and other Unix communities will find the book valuable in comparing and contrasting Mac OS X with their respective systems. *Mac OS X Internals* focuses on the technical aspects of OS X and is so full of extremely useful information and programming examples that it will definitely become a mandatory tool for every Mac OS X programmer. Note: this paperback edition is a two-volume set and contains all the content from the original single-volume hardcover publication.

Mac OS X Internals Amit Singh, 2006-06-19 Mac OS X was released in March 2001 but many components such as Mach and BSD are considerably older. Understanding the design, implementation and workings of Mac OS X requires examination of several technologies that differ in their age, origins, philosophies and roles. *Mac OS X Internals A Systems Approach* is the first book that dissects the internals of the system, presenting a detailed picture that grows incrementally as you read. For example, you will learn the roles of the firmware, the bootloader, the Mach and BSD kernel components, including the process, virtual memory, IPC and file system layers, the object-oriented I/O Kit driver framework, user libraries and other core pieces of software. You will learn how these pieces connect and work internally, where they originated and how they evolved. The book also covers several key areas of the Intel-based Macintosh computers. A solid understanding of system internals is immensely useful in design, development and debugging for programmers of various skill levels. System programmers can use the book as a reference and to construct a better picture of how the core system works. Application programmers can gain a deeper understanding of how their applications interact with the system. System administrators and power users can use the book to harness the power of the rich environment offered by Mac OS X. Finally, members of the Windows, Linux, BSD and other Unix communities will find the book valuable in comparing and contrasting Mac OS X with their respective systems. *Mac OS X Internals* focuses on the

technical aspects of OS X and is so full of extremely useful information and programming examples that it will definitely become a mandatory tool for every Mac OS X programmer

Foundations of Mac OS X Leopard Security Roderick Smith, Ken Barker, Charles Edge, 2008-05-14 A common misconception in the Mac community is that the Mac is more secure than other operating systems While this might be true in many cases the fact that people actually use the computers is often not considered in this analysis When sharing is enabled or remote control applications are installed then a variety of security threats are established This book enables users of the Mac to enable services while not sacrificing the security of their systems

The Mac Hacker's Handbook Charlie Miller, Dino Dai Zovi, 2011-03-21 As more and more vulnerabilities are found in the Mac OS X Leopard operating system security researchers are realizing the importance of developing proof of concept exploits for those vulnerabilities This unique tome is the first book to uncover the flaws in the Mac OS X operating system and how to deal with them Written by two white hat hackers this book is aimed at making vital information known so that you can find ways to secure your Mac OS X systems and examines the sorts of attacks that are prevented by Leopard's security defenses what attacks aren't and how to best handle those weaknesses

Mac Bible Dwight Spivey, 2009-04-01 This essential guide answers all your questions on using a Macintosh computer whether you're unpacking your very first Mac after switching from a PC or upgrading from an older Mac You'll walk through all pre-installed Mac applications including using Mac OS X browsing the Web using Safari downloading music from the iTunes store troubleshooting Mac-specific problems organizing photos in iPhoto organizing calendars in iCal editing digital video in iMovie and more

[Linux Kernel Development](#) Robert Love, 2010 This practical guide helps programmers better understand the Linux kernel and to write and develop kernel code It provides in-depth coverage of all the major subsystems and features of the Linux 2.6 kernel

DTrace Brendan Gregg, Jim Mauro, 2011-03-18 The Oracle Solaris DTrace feature revolutionizes the way you debug operating systems and applications Using DTrace you can dynamically instrument software and quickly answer virtually any question about its behavior Now for the first time there's a comprehensive authoritative guide to making the most of DTrace in any supported UNIX environment from Oracle Solaris to OpenSolaris Mac OS X and FreeBSD Written by key contributors to the DTrace community DTrace teaches by example presenting scores of commands and easy-to-adapt downloadable D scripts These concise examples generate answers to real and useful questions and serve as a starting point for building more complex scripts Using them you can start making practical use of DTrace immediately whether you're an administrator, developer, analyst, architect or support professional The authors fully explain the goals, techniques and output associated with each script or command Drawing on their extensive experience they provide strategy suggestions, checklists and functional diagrams as well as a chapter of advanced tips and tricks You'll learn how to write effective scripts using DTrace's D language Use DTrace to thoroughly understand system performance Expose functional areas of the operating system including I/O filesystems and protocols Use DTrace in the application and database development process Identify and fix

security problems with DTrace Analyze the operating system kernel Integrate DTrace into source code Extend DTrace with other tools This book will help you make the most of DTrace to solve problems more quickly and efficiently and build systems that work faster and more reliably Encyclopedia of Computer Science and Technology Harry Henderson, 2009 Presents an illustrated A Z encyclopedia containing approximately 600 entries on computer and technology related topics

Systems Performance Brendan Gregg, 2014 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 R and Unix R 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 R Fedora R CentOS and the illumos based Joyent R SmartOS TM and OmniTI OmniOS R 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 **Operating System Concepts Essentials** Abraham Silberschatz, Peter B. Galvin, Greg Gagne, 2013-11-21 By staying current remaining relevant and adapting to emerging course needs Operating System Concepts by Abraham Silberschatz Peter Baer Galvin and Greg Gagne has defined the operating systems course through nine editions This second edition of the Essentials version is based on the recent ninth

edition of the original text Operating System Concepts Essentials comprises a subset of chapters of the ninth edition for professors who want a shorter text and do not cover all the topics in the ninth edition The new second edition of Essentials will be available as an ebook at a very attractive price for students The ebook will have live links for the bibliography cross references between sections and chapters where appropriate and new chapter review questions A two color printed version is also available

OPERATING SYSTEM Monelli Ayyavaraiah,2021-05-06 Operating systems are an essential part of any computer system Similarly a course on operating systems is an essential part of any computer science education This field is undergoing rapid change as computers are now prevalent in virtually every arena of day to day life from embedded devices in automobiles through the most sophisticated planning tools for governments and multinational firms Yet the fundamental concepts remain fairly clear and it is on these that we base this book We wrote this book as a text for an introductory course in operating systems at the junior or senior undergraduate level or at the first year graduate level We hope that practitioners will also find it useful It provides a clear description of the concepts that underlie operating systems As prerequisites we assume that the reader is familiar with basic data structures computer organization and a high level language such as C or Java The hardware topics required for an understanding of operating systems are covered in Chapter 1 In that chapter we also include an overview of the fundamental data structures that are prevalent in most operating systems For code examples we use predominantly C with some Java but the reader can still understand the algorithms without a thorough knowledge of these languages Concepts are presented using intuitive descriptions Important theoretical results are covered but formal proofs are largely omitted The bibliographical notes at the end of each chapter contain pointers to research papers in which results were first presented and proved as well as references to recent material for further reading In place of proofs figures and examples are used to suggest why we should expect the result in question to be true The fundamental concepts and algorithms covered in the book are often based on those used in both commercial and open source operating systems Our aim is to present these concepts and algorithms in a general setting that is not tied to one particular operating system However we present a large number of examples that pertain to the most popular and the most innovative operating systems including Linux Microsoft Windows Apple Mac OS X and Solaris We also include examples of both Android and iOS currently the two dominant mobile operating systems

Learning Objective-C 2.0 Robert Clair,2012-11-14 Get Started Fast with Objective C 2 0 Programming for OS X Mountain Lion iOS 5 1 and Beyond Fully updated for Xcode 4 4 Learning Objective C 2 0 Second Edition is today s most useful beginner s guide to Objective C 2 0 One step at a time it will help you master the newest version of Objective C 2 0 and start writing high quality programs for OS X 10 8 Mountain Lion iOS 5 1 and all of Apple s newest computers and devices Top OS X and iOS developer Robert Clair first reviews the essential object and C concepts that every Objective C 2 0 developer needs to know Next he introduces the basics of the Objective C 2 0 language itself walking through code examples one line at a time and explaining what s happening behind the scenes This revised

edition thoroughly introduces Apple's new Automated Reference Counting ARC while also teaching conventional memory management techniques that remain indispensable. Carefully building on what you've already learned, Clair progresses to increasingly sophisticated techniques in areas ranging from frameworks to security. Every topic has been carefully chosen for its value in real-world day-to-day programming and many topics are supported by hands-on practice exercises. Coverage includes:

- Reviewing key C techniques and concepts from program structure and formats to variables and scope
- Understanding how objects and classes are applied in Objective-C 2.0
- Writing your first Objective-C program with Xcode 4.4
- Using messaging to efficiently perform tasks with objects
- Getting started with Apple's powerful frameworks and foundation classes
- Using Objective-C control structures including Fast Enumeration and exception handling
- Adding methods to classes without subclassing
- Using declared properties to save time and simplify your code
- Mastering ARC and conventional memory management and knowing when to use each
- Using Blocks to prepare for concurrency with Apple's Grand Central Dispatch
- Leveraging Xcode 4.4 improvements to enums and implementation

Advances in Computers, 2017-06-26

Advances in Computers Volume 106 is the latest volume in the series which has been published since 1960. This update presents innovations in computer hardware, software, theory, design, and applications with new chapters in this volume including sections on:

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Interaction Design for 3D User Interfaces Francisco R. Ortega, Fatemeh Abyarjoo, Armando Barreto, Naphtali Rishe, Malek Adjouadi, 2016-01-06

This book addresses the new interaction modalities that are becoming possible with new devices by looking at user interfaces from an input perspective. It deals with modern input devices and user interaction and design covering in depth theory, advanced topics for noise reduction using Kalman Filters, a case study, and multiple chapters showing hands-on approaches to relevant technology including modern devices such as the Leap Motion, Xbox One, Kinect, inertial measurement units, and multi-touch technology. It also discusses theories behind interaction and navigation, past and current techniques, and practical topics about input devices.

Information Technology Risk Management in Enterprise Environments Jake Kouns, Daniel Minoli, 2011-10-04

Discusses all types of corporate risks and practical means of defending against them. Security is currently identified as a critical area of Information Technology management by a majority of government, commercial, and industrial organizations. Offers an effective risk management program which is the most critical function of an information security program.

Detection of Intrusions and Malware, and Vulnerability Assessment

Lorenzo Cavallaro,Daniel Gruss,Giancarlo Pellegrino,Giorgio Giacinto,2022-06-24 This book constitutes the proceedings of the 19th International Conference on Detection of Intrusions and Malware and Vulnerability Assessment DIMVA 2022 held in Cagliari Italy in June July 2021 The 10 full papers and 1 short paper presented in this volume were carefully reviewed and selected from 39 submissions **Detection of Intrusions and Malware, and Vulnerability Assessment** Ulrich

Flegel,2009-07 This book constitutes the refereed proceedings of the 6th International Conference on Detection of Intrusions and Malware and Vulnerability Assessment DIMVA 2009 held in Milan Italy in July 2009 The 10 revised full papers presented together with three extended abstracts were carefully selected from 44 initial submissions The papers are organized in topical sections on malware and SPAM emulation based detection software diversity harnessing context and anomaly detection **Sams Teach Yourself Cocoa Touch Programming in 24 Hours** Sengan Baring-Gould,2009-10-15 In Full

Color Code samples are syntax highlighted as in Xcode In just 24 sessions of one hour or less learn how to build powerful mobile applications with Apple s Cocoa Touch technology for the iPhone and iPod touch Using this book s straightforward step by step approach you ll master every skill and technology you need from handling user interaction and building effective user interfaces to accessing the Internet playing media and using the iPhone and iPod touch s incredible sensing capabilities Each lesson builds on what you ve already learned giving you a rock solid foundation for real world success Step by step instructions carefully walk you through the most common Cocoa Touch programming tasks Quizzes and Exercises at the end of each chapter help you test your knowledge By the Way notes present interesting information related to the discussion Did You Know tips offer advice or show you easier ways to perform tasks Watch Out cautions alert you to possible problems and give you advice on how to avoid them Write simple efficient code that reflects a clear understanding of how Cocoa Touch works and why it works that way Build great iPhone iPod touch user interfaces from the ground up Display tables and provide for clear navigation Access the Internet and networks and show web pages Save and retrieve data including user preferences Understand how the Cocoa Touch runtime loop interacts with your application Draw and manipulate images Create complex animations such as Cover Flow Build applications that play and record media Use the iPhone s built in accelerometer GPS capabilities and WiFi support Share data via custom URLs emails and other techniques Find and fix common Cocoa Touch software bugs fast Avoid the performance bottlenecks that affect Cocoa Touch code **Hacking**

Exposed Mobile Neil Bergman,Mike Stanfield,Jason Rouse,Joel Scambray,Mike Price,2013-07-30 Identify and evade key threats across the expanding mobile risk landscape Hacking Exposed Mobile Security Secrets Solutions covers the wide range of attacks to your mobile deployment alongside ready to use countermeasures Find out how attackers compromise networks and devices attack mobile services and subvert mobile apps Learn how to encrypt mobile data fortify mobile platforms and eradicate malware This cutting edge guide reveals secure mobile development guidelines how to leverage mobile OS features and MDM to isolate apps and data and the techniques the pros use to secure mobile payment systems

Mac OS Hacking Marc Brandt, 2017-08-28 Dieses Buch ist eine umfangreiche Anleitung und Hilfe für alle IT Forensiker, Daten Analysten und interessierten Mac Nutzer, die erfahren wollen, welche unentdeckten Möglichkeiten im Apple Betriebssystem schlummern. Es liefert fundiertes Grundlagenwissen und führt durch alle wichtigen Prozesse einer forensischen Betriebssystem-Analyse. Im Verlauf des Buchs lernen die Leser verschiedene Sicherungs- und Analysetechniken für digitale Spuren kennen. Neben der Lokalisierung und Kategorisierung digitaler Spuren beschreibt es praktische Analyse-Methoden wie das Aufspüren von kritischen Informationen in Plist oder SQLite Dateien oder die Identifikation von Passwörtern durch Sicherung und Analyse des Hauptspeichers. In seinen 12 umfangreichen Kapiteln widmet sich das Buch auch den Dateisystemen APFS und HFS, der Skriptsprache AppleScript, Mac OS X Server sowie der fortgeschrittenen analytischen Nutzung des Terminals. In zahlreichen Übungen, die auch zum Download bereitstehen können, die Leserinnen und Leser das neu gewonnene Wissen direkt in praxisnahen Szenarien anwenden.

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