



Mac OS® X and iOS Internals

To the Apple's Core

Jonathan Levin

Mac Os X And Ios Internals Mac Os X And Ios Internals

Galen Gruman



Mac OS X And Ios Internals Mac Os X And Ios Internals:

Mac OS X and iOS Internals Jonathan Levin, 2015-07-07 Greatly expanded and updated from Jonathan Levin's original Mac OS X and iOS Internals To the Apple's Core this new edition is now two volumes with Volume 1 an expanded treatment of User Mode and Volume 2 The Kernel In Volume 1 User Mode Levin details Mac OS X and iOS for power users beyond where the documentation leaves off It covers The Architecture of OS X and iOS including The User Experience Layer Filesystems Frameworks and libraries OS X and iOS Technologies and in particular the parts that are built on BSD Executables and binaries Process and Thread Internals including updates to 64 bit IPC in OS X and iOS with explanations of Unix Mach and XPC Details on the Objective C and new Swift runtime environments Process Tracing and Debugging with DTrace and KDebug Boot Panic and Shutdown Launchd and the GUI Shells All new coverage of iCloud and networking protocols All new coverage of OS X and iOS Security Along with Volume 2 The Kernel this is the definitive documentation of the inner workings of Apple operating systems for system level developers kernel hackers and power users *Mac OS X and iOS Internals* Jonathan Levin, 2015-11-23

Mac OS X and iOS Internals Jonathan Levin, 2012 An in depth look into Mac OS X and iOS kernels Powering Macs iPhones iPads and more OS X and iOS are becoming ubiquitous When it comes to documentation however much of them are shrouded in mystery Cocoa and Carbon the application frameworks are neatly described but system programmers find the rest lacking This indispensable guide illuminates the darkest corners of those systems starting with an architectural overview then drilling all the way to the core Provides you with a top down view of OS X and iOS Walks you through the phases of system startup both Mac EFi and mobile iBoot Explains how processes threads virtual memory and filesystems are maintained Covers the security architecture Reviews the internal APIs used by the system BSD and Mach Dissects the kernel XNU into its sub components Mach the BSD Layer and Iokit and explains each in detail Explains the inner workings of device drivers From architecture to implementation this book is essential reading if you want to get serious about the internal workings of Mac OS X and iOS

Mac OS X and iOS Internals Jonathan Levin, 2012-11-05 An in depth look into Mac OS X and iOS kernels Powering Macs iPhones iPads and more OS X and iOS are becoming ubiquitous When it comes to documentation however much of them are shrouded in mystery Cocoa and Carbon the application frameworks are neatly described but system programmers find the rest lacking This indispensable guide illuminates the darkest corners of those systems starting with an architectural overview then drilling all the way to the core Provides you with a top down view of OS X and iOS Walks you through the phases of system startup both Mac EFi and mobile iBoot Explains how processes threads virtual memory and filesystems are maintained Covers the security architecture Reviews the internal APIs used by the system BSD and Mach Dissects the kernel XNU into its sub components Mach the BSD Layer and Iokit and explains each in detail Explains the inner workings of device drivers From architecture to implementation this book is essential reading if you want to get serious about the internal workings of Mac OS X and iOS

***OS Internals** Jonathan Levin, 2016-10-24 Explore the internals of Apple's operating system with unprecedented detail Volume I of the OS Trilogy covers the user mode realms of Darwin operating systems MacOS iOS TvOS and WatchOS explaining what happens behind the scenes of processes memory management binary formats and more **Operating System Concepts, 10e Abridged Print Companion** Abraham Silberschatz, Peter B. Galvin, Greg Gagne, 2018-01-11 The tenth edition of Operating System Concepts has been revised to keep it fresh and up to date with contemporary examples of how operating systems function as well as enhanced interactive elements to improve learning and the student's experience with the material It combines instruction on concepts with real world applications so that students can understand the practical usage of the content End of chapter problems exercises review questions and programming exercises help to further reinforce important concepts New interactive self assessment problems are provided throughout the text to help students monitor their level of understanding and progress A Linux virtual machine including C and Java source code and development tools allows students to complete programming exercises that help them engage further with the material The Print Companion includes all of the content found in a traditional text book organized the way you would expect it but without the problems **Mobile Forensics - The File Format Handbook** Christian Hummert, Dirk

Pawlaszczyk, 2022-05-03 This open access book summarizes knowledge about several file systems and file formats commonly used in mobile devices In addition to the fundamental description of the formats there are hints about the forensic value of possible artefacts along with an outline of tools that can decode the relevant data The book is organized into two distinct parts Part I describes several different file systems that are commonly used in mobile devices APFS is the file system that is used in all modern Apple devices including iPhones iPads and even Apple Computers like the MacBook series Ext4 is very common in Android devices and is the successor of the Ext2 and Ext3 file systems that were commonly used on Linux based computers The Flash Friendly File System F2FS is a Linux system designed explicitly for NAND Flash memory common in removable storage devices and mobile devices which Samsung Electronics developed in 2012 The QNX6 file system is present in Smartphones delivered by Blackberry e.g. devices that are using Blackberry 10 and modern vehicle infotainment systems that use QNX as their operating system Part II describes five different file formats that are commonly used on mobile devices SQLite is nearly omnipresent in mobile devices with an overwhelming majority of all mobile applications storing their data in such databases The second leading file format in the mobile world are Property Lists which are predominantly found on Apple devices Java Serialization is a popular technique for storing object states in the Java programming language Mobile application app developers very often resort to this technique to make their application state persistent The Realm database format has emerged over recent years as a possible successor to the now ageing SQLite format and has begun to appear as part of some modern applications on mobile devices Protocol Buffers provide a format for taking compiled data and serializing it by turning it into bytes represented in decimal values which is a technique commonly used in mobile devices

The aim of this book is to act as a knowledge base and reference guide for digital forensic practitioners who need knowledge about a specific file system or file format. It is also hoped to provide useful insight and knowledge for students or other aspiring professionals who want to work within the field of digital forensics. The book is written with the assumption that the reader will have some existing knowledge and understanding about computers, mobile devices, file systems, and file formats.

Trust, Privacy and Security in Digital Business Sokratis Katsikas, Costas Lambrinoudakis, Steven Furnell, 2016-08-05. This book constitutes the refereed proceedings of the 13th International Conference on Trust Privacy and Security in Digital Business TrustBus 2016 held in Porto Portugal in September 2016 in conjunction with DEXA 2016. The 8 revised full papers presented were carefully reviewed and selected from 18 submissions. The papers are organized in the following topical sections: security, privacy, and trust in eServices; security and privacy in cloud computing; privacy requirements and information audit and trust. *Advances in Energy, Environment and Materials Science* Yeping Wang, Jianhua

Zhao, 2018-11-22. The International Conference on Energy Environment and Materials Science EEMS2015 was held in Guangzhou, China, from August 25-26, 2015. EEMS2015 provided a platform for academic scientists, researchers, and scholars to exchange and share their experiences and research results within the fields of energy science, energy technology, environmental science, environmental engineering, motivation, automation, and electrical engineering, material science, and engineering. The discovery or development of energy and environment and materials science. *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. **Financial**

Cryptography and Data Security Nikita Borisov, Claudia Diaz, 2021-10-23. This double volume constitutes the thoroughly refereed post-conference proceedings of the 25th International Conference on Financial Cryptography and Data Security FC 2021 held online due to COVID-19 in March 2021. The 47 revised full papers and 4 short papers together with 3 as Systematization of Knowledge SoK papers were carefully selected and reviewed from 223 submissions. The accepted papers were organized according to their topics in 12 sessions: Smart Contracts, Anonymity and Privacy in Cryptocurrencies, Secure Multi-Party Computation, System and Application Security, Zero Knowledge Proofs, Blockchain Protocols, Payment Channels, Mining, Scaling Blockchains, Authentication and Usability, Measurement and Cryptography. Mac OS Hacking Marc Brandt, 2017-08-28. Dieses Buch ist eine umfangreiche Anleitung und Hilfe für alle IT-Forensiker, Datenanalysten und interessierten Mac-Nutzer, die erfahren wollen, welche unentdeckten Möglichkeiten im Apple-Betriebssystem schlummern. Es

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Sams Teach Yourself Xcode 4 in 24 Hours John Ray, William Ray, 2012 A practical guide to using Xcode 4.3 development environment for OS X and iOS devices with step by step instructions for the most common development tasks and end of chapter quizzes

Hacking Exposed 7 : Network Security Secrets & Solutions, Seventh Edition Stuart McClure, Joel Scambray, George Kurtz, 2012-07-11 The latest tactics for thwarting digital attacks Our new reality is zero day APT and state sponsored attacks Today more than ever security professionals need to get into the hacker's mind methods and toolbox to successfully deter such relentless assaults This edition brings readers abreast with the latest attack vectors and arms them for these continually evolving threats Brett Wahlin CSO Sony Network Entertainment Stop taking punches let's change the game it's time for a paradigm shift in the way we secure our networks and Hacking Exposed 7 is the playbook for bringing pain to our adversaries Shawn Henry former Executive Assistant Director FBI Bolster your system's security and defeat the tools and tactics of cyber criminals with expert advice and defense strategies from the world renowned Hacking Exposed team Case studies expose the hacker's latest devious methods and illustrate field tested remedies Find out how to block infrastructure hacks minimize advanced persistent threats neutralize malicious code secure web and database applications and fortify UNIX networks Hacking Exposed 7 Network Security Secrets Solutions contains all new visual maps and a comprehensive countermeasures cookbook Obstruct APTs and web based meta exploits Defend against UNIX based root access and buffer overflow hacks Block SQL injection spear phishing and embedded code attacks Detect and terminate rootkits Trojans bots worms and malware Lock down remote access using smartcards and hardware tokens Protect 802.11 WLANs with multilayered encryption and gateways Plug holes in VoIP social networking cloud and Web 2.0 services Learn about the latest iPhone and Android attacks and how to protect yourself

Practical Mobile Forensics Heather Mahalik, Rohit Tamma, Satish Bommisetty, 2016-05-20 A hands on guide to mastering mobile forensics for the iOS Android and the Windows Phone platforms About This Book Get to grips with the basics of mobile forensics and the various forensic approaches Retrieve and analyze the data stored on mobile devices and on the cloud A practical guide to leverage the power of mobile forensics on the popular mobile platforms with lots of tips tricks and caveats Who This Book Is For This book is for forensics professionals who are eager to widen their forensics skillset to mobile forensics and acquire

data from mobile devices What You Will Learn Discover the new features in practical mobile forensics Understand the architecture and security mechanisms present in iOS and Android platforms Identify sensitive files on the iOS and Android platforms Set up the forensic environment Extract data on the iOS and Android platforms Recover data on the iOS and Android platforms Understand the forensics of Windows devices Explore various third party application techniques and data recovery techniques In Detail Mobile phone forensics is the science of retrieving data from a mobile phone under forensically sound conditions This book is an update to Practical Mobile Forensics and it delves into the concepts of mobile forensics and its importance in today s world We will deep dive into mobile forensics techniques in iOS 8 9 2 Android 4 4 6 and Windows Phone devices We will demonstrate the latest open source and commercial mobile forensics tools enabling you to analyze and retrieve data effectively You will learn how to introspect and retrieve data from cloud and document and prepare reports for your investigations By the end of this book you will have mastered the current operating systems and techniques so you can recover data from mobile devices by leveraging open source solutions Style and approach This book takes a very practical approach and depicts real life mobile forensics scenarios with lots of tips and tricks to help acquire the required forensics skillset for various mobile platforms

Einführung in die Bash Peter Mandl,2024-12-04 Das Buch vermittelt praktisch verwertbare Shell Kenntnisse mit einem Fokus auf Bash unter Linux Neben den grundlegenden Konzepten werden die wichtigsten Bash Kommandos für die Dateibearbeitung die Vergabe von Rechten und die Prozessverwaltung knapp und prägnant erläutert Die Kommandos werden mit vielen Übungen praktisch erprobt Erste Shell Programme können nach kurzer Zeit eigenständig entwickelt werden Die Produktfamilie WissensExpress bietet Ihnen Lehr- und Lernbücher in kompakter Form Die Bücher liefern schnell und verständlich fundiertes Wissen

Betriebssysteme kompakt Christian Baun,2025-04-26 Speicherverwaltung Hardwareverwaltung Prozessadministration und Interprozesskommunikation sind zentrale Aufgaben von Betriebssystemen Die Konzepte und Prinzipien auf denen klassische und moderne Betriebssysteme basieren erläutert der Autor anhand von einschlägigen Aufgabenstellungen und Lösungen Das Werk gibt damit eine verständliche Einführung in die Architektur von Betriebssystemen und eignet sich deshalb auch für die Lehre im Bachelorstudium

Programming iOS 5 Matt Neuburg,2012-03-15 Get a solid grounding in the fundamentals of Cocoa Touch and avoid problems during iPhone and iPad app development With this revised and expanded edition you will dig into Cocoa and learn how to work effectively with Objective C and Xcode This book covers iOS 5 and Xcode 4.3 in a rigorous orderly fashion ideal whether you're approaching iOS for the first time or need a reference to bolster existing skills Many discussions have been expanded or improved All code examples have been revised and many new code examples have been added The new memory management system ARC is thoroughly explained and all code examples have been revised to use it New Objective C features such as declaration of instance variables in the class's implementation section are described and incorporated into the revised example code Discussion of how an app launches and all code examples are revised for project templates from Xcode 4.2 and later Other

new Xcode features including the Simulator's Debug menu are covered with screen shots based on Xcode 4.2 and later. The discussion of Instruments is expanded with screen shots by popular request. Storyboards are explained and discussed. The explanation of view controllers is completely rewritten to include iOS 5 features such as custom parent view controllers and UINavigationController. The Controls chapter now includes iOS 5 interface customizability and the appearance proxy. New features of interface classes are discussed including tiling and animated images, new table view features, new alert view styles. Coverage of frameworks such as Core Motion and AV Foundation is greatly expanded. New iOS 5 classes and frameworks are also discussed including Core Image and UIDocument and iCloud support. Important iOS 5 changes that can break existing code are explicitly called out in the text and listed in the index.

iPad at Work For Dummies Galen Gruman, 2015-02-12 Get the most out of using your iPad at work. iPad at Work For Dummies provides essential and in-depth coverage for a variety of productivity-related tasks made possible on the iPad, from basics such as setting up and starting out with an iPad to tips on the best practices for enterprise-level word processing, spreadsheet creation, presenting, task management, project management, graphic design, and communication. Beyond that, it also includes down-to-earth examples of how to use an iPad at work, including synchronization, data backup, and communicating with Windows networks. Written by an experienced and well-known iPad user, writer, podcaster, and lecturer who has taught many other professionals how to get the most from their Apple devices in the workplace, iPad at Work For Dummies goes beyond simple coverage of iWork to show you step-by-step the iPad's capabilities to quickly, professionally, and effectively create and interact with typical office documents and systems. Covers the best software and practices for productively integrating the iPad into a work environment. Shows you how the iPad goes beyond use as an at-home device to make work easier. Includes examples that bring the information and instructions to life. If you're considering integrating the use of an iPad at work or have recently begun and want to grasp the full spectrum of its capabilities in the workplace, iPad at Work For Dummies has you covered.

iOS 6 Programming Pushing the Limits Rob Napier, Mugunth Kumar, 2012-11-20 Learn to build extraordinary apps for iPhone, iPad, and iPod touch. iOS is the hottest development platform around, and iOS 6 adds a new and deeper dimension to explore. This guide offers serious information for serious programmers who know the basics and are ready to dive into the advanced features of iOS. You'll learn to create killer apps for the iPad, iPhone, and iPod touch, including how to maximize performance and make more money from your apps with in-app purchases. Topics covered include security, multitasking, running on multiple platforms, blocks, and functional programming, advanced text layout, and much more. App development for iPhones and iPads is a lucrative and exciting venture; books on this topic are steady bestsellers. This advanced guide helps experienced developers take full advantage of the latest platform upgrade, iOS 6. Provides in-depth background on maximizing your apps with Apple's iPhone SDK 6.0, including the major new APIs and building applications for the new iPad. Covers keeping control of multitasking, increasing income with in-app purchases, key-value observing with Cocoa, running on multiple platforms.

advanced text layout building a Core foundation and more iOS 6 Programming Pushing the Limits gives experienced mobile developers a wealth of knowledge for creating outstanding iPhone and iPad apps on the latest platform

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