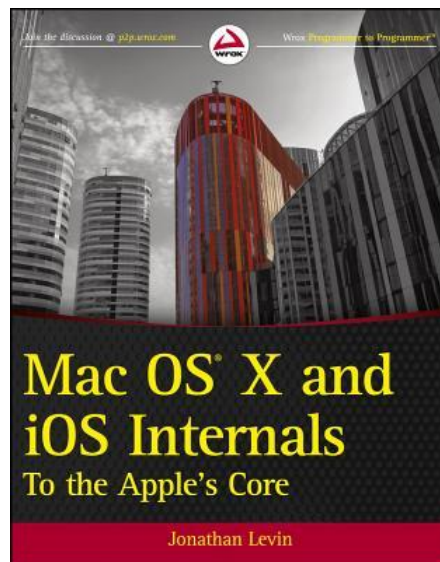




Mac OS X and iOS Internals: To the Apple's Core

Jonathan Levin

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An in-depth look into Mac OS X and iOS kernelsPowering 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 iOSWalks you through the phases of system startup--both Mac (EFI) and mobile (iBoot)Explains how processes, threads, virtual memory, and filesystems are maintainedCovers the security architectureReviews the internal Apis used by the system--BSD and MachDissects the kernel, XNU, into its sub components: Mach, the BSD Layer, and I/o kit, and explains each in detailExplains 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: To the Apple's Core Details

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Jason says

I feel silly for not working on systems my whole career. So cool.

Roger Casaliñas says

Opened my mind to town of new things in the lower layers of OSX and iOS. A must have reference for network or device driver developers. Has some useful tidbits for jailbreak enthusiasts, too!

sine says

I really enjoyed Mac OS X Internals by Amit Singh. This book tries to be more up-to-date and it is also less verbose. I consider the latter as a good thing - for example to understand the boot loader you don't need to write an implementation for The Towers of Hanoi.

It's not an easy book to comprehend and it requires as a complementary reading the manual pages and Apple Developer Documentation, but the end result is very rewarding, if you need a guide through the kernel internals. Albeit the book is a few years old and currently there is a newer edition (actually there would be three books instead of this one, written from scratch), I strongly recommend to start with this one. Because the book contains a lot of code snippets, you can compare them with the current version of XNU to get a nice picture what changed and how. Some of the code parts are as old as NeXTSTEP and because the strong dependency on Mach, the fundamentals are still the same.

The interested reader could download the book for free from the official site:
<http://newosxbook.com/1stEdIsFree.html>.

Laurent says

I had very much liked reading the Amit Singh on the OSX internals, even though a good chunk was dating for the PowerPC era. Right now this book is proving a very worthy replacement
