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Concurrent Programming in

Mac OS X and iOS

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Vandad Nahavandipoor

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Concurrent Programming in Mac OS X and iOS Vandad Nahavandipoor,2011-05-24 Now that multicore processors are coming to mobile devices wouldn t it be great to take advantage of all those cores without having to manage threads This concise book shows you how to use Apple s Grand Central Dispatch GCD to simplify programming on multicore iOS devices and Mac OS X Managing your application s resources on more than one core isn t easy but it s vital Apps that use only one core in a multicore environment will slow to a crawl If you know how to program with Cocoa or Cocoa Touch this guide will get you started with GCD right away with many examples to help you write high performing multithreaded apps Package your code as block objects and invoke them with GCD Understand dispatch queues the pools of threads managed by GCD Use different methods for executing UI and non UI tasks Create a group of tasks that GCD can run all at once Instruct GCD to execute tasks only once or after a delay Discover how to construct your own dispatch queues **Concurrent Programming in Mac OS X and IOS** Vandad Nahavandipoor,2011-05-31 Now that multicore processors are coming to mobile devices wouldn t it be great to take advantage of all those cores without having to manage threads This concise book shows you how to use Apple s Grand Central Dispatch GCD to simplify programming on multicore iOS devices and Mac OS X Managing your application s resources on more than one core isn t easy but it s vital Apps that use only one core in a multicore environment will slow to a crawl If you know how to program with Cocoa or Cocoa Touch this guide will get you started with GCD right away with many examples to help you write high performing multithreaded apps Package your code as block objects and invoke them with GCD Understand dispatch queues the pools of threads managed by GCD Use different methods for executing UI and non UI tasks Create a group of tasks that GCD can run all at once Instruct GCD to execute tasks only once or after a delay Discover how to construct your own dispatch queues **Concurrent Programming in Mac OS X and IOS** Vandad Nahavandipoor,2011 Now that multicore processors are coming to mobile devices wouldn t it be great to take advantage of all those cores without having to manage threads This concise book shows you how to use Apple s Grand Central Dispatch GCD to simplify programming on multicore iOS devices and Mac OS X Managing your application u2019 s resources on more than one core isn t easy but it s vital Apps that use only one core in a multicore environment will slow to a crawl If you know how to program with Cocoa or Cocoa Touch this guide will get you started with GCD right away with many examples to help you write high performing multithreaded apps Package your code as block objects and invoke them with GCD Understand dispatch queues u2014 the pools of threads managed by GCD Use different methods for executing UI and non UI tasks Create a group of tasks that GCD can run all at once Instruct GCD to execute tasks only once or after a delay Discover how to construct your own dispatch queues *Pro Multithreading and Memory Management for iOS and OS X* Kazuki Sakamoto,Tomohiko Furumoto,2012-06-12 If you want to develop efficient smooth running applications

controlling concurrency and memory are vital Automatic Reference Counting is Apple s game changing memory management system new to Xcode 4 2 Pro Multithreading and Memory Management for iOS and OS X shows you how ARC works and how best to incorporate it into your applications Grand Central Dispatch GCD and blocks are key to developing great apps allowing you to control threads for maximum performance If for you multithreading is an unsolved mystery and ARC is unexplored territory then this is the book you ll need to make these concepts clear and send you on your way to becoming a master iOS and OS X developer What are blocks How are they used with GCD Multithreading with GCD Managing objects with ARC **Concurrency by Tutorials (Third Edition)** Kodeco Team,Scott Grosch,2023-08-02 Dive into Concurrency in iOS Concurrency is the concept of multiple things or pieces of work running at the same time With the addition of CPU cores in our devices knowing how to properly utilize your customer s hardware to the maximum is absolutely a must Unfortunately proper concurrency in iOS apps is one of the lesser known lower level topics that every developer wants to and should understand properly but is usually intimidated by This is where Concurrency by Tutorials comes to the rescue In this book you ll learn everything there is to know about how to write performant and concurrent code for your iOS apps Who This Book Is ForThis book is for intermediate iOS developers who already know the basics of iOS and Swift development but want to enrich their knowledge learning more about how to efficiently perform tasks without affecting the performance of their app and how to properly divide work to utilize hardware to the fullest extent Topics Covered in Concurrency by TutorialsWhat Why Learn what is Concurrency and why would you even want to utilize it in your apps Grand Central Dispatch Learn about Apple s implementation of C s libdispatch also known as GCD it s one of the simplest ways to queue up tasks to be run in parallel Operations Operation Queues When GCD doesn t quite cut it you ll learn how to further customize and reuse your concurrent work using Operations and Operation Queues Common Concurrency Problems Learn about some of the problems you could face while developing concurrent applications such as Race Conditions Deadlocks and more Threads Thread Sanitizer Understand various threading related concepts and how these connect to the knowledge you ve accumulated throughout this book You ll also learn how to use Thread Sanitizer to ease your debugging when things go wrong This book is sure to make you a pro in building concurrent and performant applications and finally understanding how these lower level APIs work to the fullest pushing your app to the top **GRAND CENTRAL DISPATCH'S ORCHESTRATION** ALISTAIR. CLEARWATER,2025 **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   IOS Development: Threading and Grand Central Dispatch Grace Njoroge,2020 Users expect their iOS apps to be fast and responsive Grand Central Dispatch GCD a Swift framework that allows you to execute code concurrently on multicore hardware can help you ensure that your app meets these expectations In this course instructor Grace Njoroge helps you get up and running with GCD explaining how to put code or tasks on threads to speed up your iOS app and make it more responsive to users She covers asynchronous and synchronous execution deadlocks how multithreading keeps apps from stalling while handling heavy operations how to work with queues and how GCD factors into all of these topics Along the way she shares scenarios that lend a real world context to these concepts   *Learn Objective-C on the Mac* Scott Knaster,Waqar Malik,Mark Dalrymple,2012 Learn to write apps for some of today s hottest technologies including the iPhone and iPad using iOS as well as the Mac using OS X It starts with Objective C the base language on which the native iOS software development kit SDK and the OS X are based Learn Objective C on the Mac For OS X and iOS Second Edition updates a best selling book and is an extensive newly updated guide to Objective C Objective C is a powerful object oriented extension of C making this update the perfect follow up to Dave Mark s bestselling Learn C on the Mac Whether you re an experienced C programmer or you re coming from a different language such as C or Java leading Mac experts Scott Knaster and Waqar Malik show how to harness the power of Objective C in your apps A complete course on the basics of Objective C using Apple s newest Xcode tools An introduction to object oriented programming Comprehensive coverage of new topics like blocks GCD ARC class extensions as well as inheritance composition object initialization categories protocols memory management and organizing source files An introduction to building user interfaces using what is called the UIKit A primer for non C programmers to get off the ground even faster What you ll learn Learn Objective C programming the gateway to programming your iPhone iPad or Mac Write apps for the

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about seven concurrency models threads and locks functional programming separating identity and state actors sequential processes data parallelism and the lambda architecture Learn about the perils of traditional threads and locks programming and how to overcome them through careful design and by working with the standard library See how actors enable software running on geographically distributed computers to collaborate handle failure and create systems that stay up 24 7 365 Understand why shared mutable state is the enemy of robust concurrent code and see how functional programming together with technologies such as Software Transactional Memory STM and automatic parallelism help you tame it You ll learn about the untapped potential within every GPU and how GPGPU software can unleash it You ll see how to use MapReduce to harness massive clusters to solve previously intractable problems and how in concert with Stream Processing big data can be tamed With an understanding of the strengths and weaknesses of each of the different models and hardware architectures you ll be empowered to tackle any problem with confidence What You Need The example code can be compiled and executed on nix OS X or Windows Instructions on how to download the supporting build systems are given in each chapter **iOS and macOS Performance Tuning** Marcel Weiher,2017-02-24 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book In iOS and macOSTM Performance Tuning Marcel Weiher drills down to the code level to help you systematically optimize CPU memory I O graphics and program responsiveness in any Objective C Cocoa or CocoaTouch program This up to date guide focuses entirely on performance optimization for macOS and iOS Drawing on 25 years of experience optimizing Apple device software Weiher identifies concrete performance problems that can be discovered empirically via measurement Then based on a deep understanding of fundamental principles he presents specific techniques for solving them Weiher presents insights you won t find anywhere else most of them applying to both macOS and iOS development Throughout he reveals common pitfalls and misconceptions about Apple device performance explains the realities and helps you reflect those realities in code that performs beautifully Understand optimization principles measurement tools pitfalls and techniques Recognize when to carefully optimize and when it isn t worth your time Balance performance and encapsulation to create efficient object representations communication data access and computation Avoid mistakes that slow down Objective C programs and hinder later optimization Fix leaks and other problems with memory and resource management Address I O issues associated with drives networking serialization and SQLite Code graphics and UIs that don t overwhelm limited iOS device resources Learn what all developers need to know about Swift performance **Multicore Computing** Sanguthevar Rajasekaran,Lance Fiondella,Mohamed Ahmed,Reda A. Ammar,2013-12-12 Every area of science and engineering today has to process voluminous data sets Using exact or even approximate algorithms to solve intractable problems in critical areas such as computational biology takes time that is exponential in some of the underlying parameters Parallel computing addresses this issue and has become affordable with the advent of multicore architectures However programming multicore

machines is much more difficult due to oddities existing in the architectures Offering insights into different facets of this area Multicore Computing Algorithms Architectures and Applications focuses on the architectures algorithms and applications of multicore computing It will help readers understand the intricacies of these architectures and prepare them to design efficient multicore algorithms Contributors at the forefront of the field cover the memory hierarchy for multicore and manycore processors the caching strategy Flexible Set Balancing the main features of the latest SPARC architecture specification the Cilk and Cilk programming languages the numerical software library Parallel Linear Algebra Software for Multicore Architectures PLASMA and the exact multipattern string matching algorithm of Aho Corasick They also describe the architecture and programming model of the NVIDIA Tesla GPU discuss scheduling directed acyclic graphs onto multi manycore processors and evaluate design trade offs among Intel and AMD multicore processors IBM Cell Broadband Engine and NVIDIA GPUs In addition the book explains how to design algorithms for the Cell Broadband Engine and how to use the backprojection algorithm for generating images from synthetic aperture radar data   The Art of Concurrency Clay Breshears,2009-05-07 If you re looking to take full advantage of multi core processors with concurrent programming this practical book provides the knowledge and hands on experience you need The Art of Concurrency is one of the few resources to focus on implementing algorithms in the shared memory model of multi core processors rather than just theoretical models or distributed memory architectures The book provides detailed explanations and usable samples to help you transform algorithms from serial to parallel code along with advice and analysis for avoiding mistakes that programmers typically make when first attempting these computations Written by an Intel engineer with over two decades of parallel and concurrent programming experience this book will help you Understand parallelism and concurrency Explore differences between programming for shared memory and distributed memory Learn guidelines for designing multithreaded applications including testing and tuning Discover how to make best use of different threading libraries including Windows threads POSIX threads OpenMP and Intel Threading Building Blocks Explore how to implement concurrent algorithms that involve sorting searching graphs and other practical computations The Art of Concurrency shows you how to keep algorithms scalable to take advantage of new processors with even more cores For developing parallel code algorithms for concurrent programming this book is a must   *Facing the Multicore-Challenge* Rainer Keller,David Kramer,Jan-Philipp Weiss,2010-10-05 This survey of the impact of multicore and co processor technologies on science as well as on large scale interdisciplinary applications covers the state of the art in the field It also points to a number of potentially fruitful areas for future research   **IOS and Mac OS X Network Programming** Jiva DeVoe,2015-12-12 Today robust network functionality is critical to more and more iOS and OS X apps However writing efficient networking code in Objective C presents significant challenges Developers must cope with unreliable or slow connections large data files obscure file formats and many other issues Even if you ve written networking code on other platforms your knowledge may not apply fully in Apple s environments and you may miss important

opportunities to improve reliability and performance Now there s a comprehensive guide to modern iOS and Mac OS X network programming for experienced Objective C developers This intermediate to advanced level book begins by explaining core networking terminology concepts and protocols Next Jiva DeVoe walks through several example projects demonstrating how to solve a wide array of common problems using technologies and techniques that are specific to iOS and Mac OS X When it comes to network programming on Apple s platforms iOS and Mac OS X Network Programming addresses more use cases offers more solutions and delivers deeper insights than any other book   **IOS and OS X Network Programming Cookbook** Jon Hoffman,2014 This book follows a recipebased approach that will heavily focus on the code and how to integrate the samples with the reader s projects Each recipe consists of one or more methods that you can put directly into your app and use This book is ideal for developers that want to create network applications for the Apple OS X or iOS platforms All examples are written in ObjectiveC using XCode as the IDE Knowledge of ObjectiveC and XCode is essential

   IOS and OS X Network Programming Cookbook Jon Hoffman,2014

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