



Concurrent Programming on Windows

A decorative graphic on the left side of the cover. It features a grid of squares. Most squares are a solid light gray. One square, located in the middle-left area, is replaced by a black and white photograph of a modern skyscraper with many windows. The building is oriented vertically, matching the text 'Concurrent Programming' above it.

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Joe Duffy

Concurrent Programming On Windows By Duffy Joe 2008 Paperback

Joe Duffy



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Concurrent Programming on Windows Joe Duffy, 2008-10-28 When you begin using multi threading throughout an application the importance of clean architecture and design is critical This places an emphasis on understanding not only the platform s capabilities but also emerging best practices Joe does a great job interspersing best practices alongside theory throughout his book From the Foreword by Craig Mundie Chief Research and Strategy Officer Microsoft Corporation Author Joe Duffy has risen to the challenge of explaining how to write software that takes full advantage of concurrency and hardware parallelism In *Concurrent Programming on Windows* he explains how to design implement and maintain large scale concurrent programs primarily using C and C for Windows Duffy aims to give application system and library developers the tools and techniques needed to write efficient safe code for multicore processors This is important not only for the kinds of problems where concurrency is inherent and easily exploitable such as server applications compute intensive image manipulation financial analysis simulations and AI algorithms but also for problems that can be speeded up using parallelism but require more effort such as math libraries sort routines report generation XML manipulation and stream processing algorithms *Concurrent Programming on Windows* has four major sections The first introduces concurrency at a high level followed by a section that focuses on the fundamental platform features inner workings and API details Next there is a section that describes common patterns best practices algorithms and data structures that emerge while writing concurrent software The final section covers many of the common system wide architectural and process concerns of concurrent programming This is the only book you ll need in order to learn the best practices and common patterns for programming with concurrency on Windows and NET

Code Like a Pro in C# Jort Rodenburg, 2021-07-27 Build on your existing programming skills and upskill to professional level C programming Summary In *Code Like A Pro in C* you will learn Unit testing and test driven development Refactor a legacy NET codebase Principles of clean code Essential backend architecture skills Query and manipulate databases with LINQ and Entity Framework Core Critical business applications worldwide are written in the versatile C language and the powerful NET platform running on desktops cloud systems and Windows or Linux servers *Code Like a Pro in C* makes it easy to turn your existing abilities in C or another OO language such as Java into practical C mastery There s no Hello World or Computer Science 101 basics you ll learn by refactoring an out of date legacy codebase using new techniques tools and best practices to bring it up to modern C standards Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology You know the basics now get ready for the next step Pro quality C code is efficient clean and fast Whether you re building user facing business applications or writing data intensive backend services the experience based practical techniques in this book will take your C skills to a new level About the book *Code Like a Pro in C* teaches you to how write clean C code that s suitable for enterprise applications In this book you ll refactor a legacy codebase by applying modern C techniques You ll explore tools

like Entity Framework Core design techniques like dependency injection and key practices like testing and clean coding It s a perfect path to upgrade your existing C skills or shift from another OO language into C and the NET ecosystem What s inside Unit testing and test driven development Refactor a legacy NET codebase Principles of clean code Query and manipulate databases with LINQ and Entity Framework Core About the reader For developers experienced with object oriented programming No C experience required About the author Jort Rodenburg is a software engineer who has taught numerous courses on getting up to speed with C and NET Table of Contents PART 1 USING C AND NET 1 Introducing C and NET 2 NET and how it compiles PART 2 THE EXISTING CODEBASE 3 How bad is this code 4 Manage your unmanaged resources PART 3 THE DATABASE ACCESS LAYER 5 Setting up a project and database with Entity Framework Core PART 4 THE REPOSITORY LAYER 6 Test driven development and dependency injection 7 Comparing objects 8 Stubbing generics and coupling 9 Extension methods streams and abstract classes PART 5 THE SERVICE LAYER 10 Reflection and mocks 11 Runtime type checking revisited and error handling 12 Using IEnumerable and yield return PART 6 THE CONTROLLER LAYER 13 Middleware HTTP routing and HTTP responses 14 JSON serialization deserialization and custom model binding

More Effective C# Bill Wagner,2008-10-01 In *More Effective C* Microsoft C MVP and Regional Director Bill Wagner introduces fifty brand new ways to write more efficient and more robust software This all new book follows the same format as Wagner s best selling *Effective C* Addison Wesley 2005 providing clear practical explanations expert tips and plenty of realistic code examples Wagner shows how to make the most of powerful innovations built into Microsoft s new C 3 0 and NET Framework 3 5 as well as advanced C language capabilities not covered in his previous book Drawing on his unsurpassed C experience the author reveals new best practices for working with LINQ generics metaprogramming and many other features He also uncovers practices that compromise performance or reliability and shows exactly how to avoid them *More Effective C* shows how to Use generics to express your design intent more effectively Master advanced generics techniques such as constraints method constraints and generic specialization Use the multithreaded techniques you ll need to work with the NET framework every day Express modern design idioms using the rich palette of C language features Successfully mix object oriented and functional programming constructs Create composable interfaces and avoid confusion in public interfaces Use extension methods to separate contracts from implementation Program successfully with C closures and anonymous types Write more effective LINQ queries Make the most of LINQ Lazy Evaluation Queries and Lambda Expressions Distinguish and convert between delegates and expression trees Efficiently utilize nullable types and partial classes Use implicit properties for mutable nonserializable data You re already a successful C programmer this book can help you become an outstanding one **Pro .NET Performance** Sasha Goldshtein,Dima Zurbalev,SELA Group,Ido Flatow,2012-10-22 Maximizing the performance of your algorithms and applications is extremely important and can give you a competitive advantage a lower cost of ownership and happier users *Pro NET Performance* explains the internals of

Windows the CLR and the physical hardware that affect the performance of your applications and gives you the knowledge and tools to measure how your code performs in isolation from external factors The book is full of C code samples and tips to help you squeeze every bit of juice from your application lower memory utilization consistent CPU usage and fewer I O operations across the network and disk Pro NET Performance will change the way you think about NET application development Guides you through performance measurement with a variety of profilers and other tools Explains how OS and CLR internals affect your application s performance in unexpected ways Provides you with tips and real life case studies for improving application performance *MSDN Magazine* ,2008 Agile Adoption Patterns Amr Elssamadisy,2008-06-27 Proven Patterns and Techniques for Succeeding with Agile in Your Organization Agile methods promise to help you create software that delivers far more business value and do it faster at lower cost and with less pain However many organizations struggle with implementation and leveraging these methods to their full benefit In this book Amr Elssamadisy identifies the powerful lessons that have been learned about successfully moving to agile and distills them into 30 proven agile adoption patterns Elssamadisy walks you through the process of defining your optimal agile adoption strategy with case studies and hands on exercises that illuminate the key points He systematically examines the most common obstacles to agile implementation identifying proven solutions You ll learn where to start how to choose the best agile practices for your business and technical environment and how to adopt agility incrementally building on steadily growing success

Concurrent Programming on Windows Vista Joe Duffy,2008 **Concurrent Programming** ,1988 *Start Concurrent* Barry Wittman,Aditya Mathur,Tim Korb,2013-12-30 Multicore microprocessors are now at the heart of nearly all desktop and laptop computers While these chips offer exciting opportunities for the creation of newer and faster applications they also challenge students and educators How can the new generation of computer scientists growing up with multicore chips learn to program applications that exploit this latent processing power This unique book is an attempt to introduce concurrent programming to first year computer science students much earlier than most competing products This book assumes no programming background but offers a broad coverage of Java It includes 159 numbered and numerous inline examples as well as 301 exercises categorized as conceptual programming and experiments The problem oriented approach presents a problem explains supporting concepts outlines necessary syntax and finally provides its solution All programs in the book are available for download and experimentation A substantial index of 5 039 entries makes it easy for readers to locate relevant information In a fast changing field this book is continually updated and refined The 2013 version is the sixth draft edition of this volume and features numerous revisions based on student feedback

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