



Concurrent Programming on Windows

A decorative graphic featuring a grid of squares. Some squares are solid gray, while others contain a black and white image of a modern building facade with many windows. The building image is centered and extends across several squares.

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Series

Joe Duffy

Concurrent Programming On Windows 09 By Duffy Joe Paperback 2008

**Barry Wittman,Aditya Mathur,Tim
Korb**



Concurrent Programming On Windows 09 By Duffy Joe Paperback 2008:

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

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

Concurrent Programming on Windows Vista Joe Duffy, 2008 *Concurrent Programming*, 1988 *Concurrent Programming in Java* Douglas Lea, 2007 **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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