



Mastering C# Concurrency

By Eugene Agafonov, Andrew Koryavchenko

Download now

Read Online ➔

Mastering C# Concurrency By Eugene Agafonov, Andrew Koryavchenko

Create robust and scalable applications along with responsive UI using concurrency and the multi-threading infrastructure in .NET and C#

About This Book

- Learn to combine your asynchronous operations with Task Parallel Library
- Master C#'s asynchronous infrastructure and use asynchronous APIs effectively to achieve optimal responsiveness of the application
- An easy-to-follow, example-based guide that helps you to build scalable applications using concurrency in C#

Who This Book Is For

If you are a C# developer who wants to develop modern applications in C# and wants to overcome problems by using asynchronous APIs and standard patterns, then this book is ideal for you. Reasonable development knowledge, an understanding of core elements and applications related to the .Net platform, and also the fundamentals of concurrency is assumed.

What You Will Learn

- Apply general multithreading concepts to your application's design
- Leverage lock-free concurrency and learn about its pros and cons to achieve efficient synchronization between user threads
- Combine your asynchronous operations with Task Parallel Library
- Make your code easier with C#'s asynchrony support
- Use common concurrent collections and programming patterns
- Write scalable and robust server-side asynchronous code
- Create fast and responsible client applications
- Avoid common problems and troubleshoot your multi-threaded and asynchronous applications

In Detail

Starting with the traditional approach to concurrency, you will learn how to write multithreaded concurrent programs and compose ways that won't require locking. You will explore the concepts of parallelism granularity, and fine-grained and coarse-grained parallel tasks by choosing a concurrent program structure and parallelizing the workload optimally. You will also learn how to use task parallel library, cancellations, timeouts, and how to handle errors. You will know how to choose the appropriate data structure for a specific parallel algorithm to achieve scalability and performance. Further, you'll learn about server scalability, asynchronous I/O, and thread pools, and write responsive traditional Windows and Windows Store applications.

By the end of the book, you will be able to diagnose and resolve typical problems that could happen in multithreaded applications.

Style and approach

An easy-to-follow, example-based guide that will walk you through the core principles of concurrency and multithreading using C#.

 [Download Mastering C# Concurrency ...pdf](#)

 [Read Online Mastering C# Concurrency ...pdf](#)

Mastering C# Concurrency

By Eugene Agafonov, Andrew Koryavchenko

Mastering C# Concurrency By Eugene Agafonov, Andrew Koryavchenko

Create robust and scalable applications along with responsive UI using concurrency and the multi-threading infrastructure in .NET and C#

About This Book

- Learn to combine your asynchronous operations with Task Parallel Library
- Master C#'s asynchronous infrastructure and use asynchronous APIs effectively to achieve optimal responsiveness of the application
- An easy-to-follow, example-based guide that helps you to build scalable applications using concurrency in C#

Who This Book Is For

If you are a C# developer who wants to develop modern applications in C# and wants to overcome problems by using asynchronous APIs and standard patterns, then this book is ideal for you. Reasonable development knowledge, an understanding of core elements and applications related to the .Net platform, and also the fundamentals of concurrency is assumed.

What You Will Learn

- Apply general multithreading concepts to your application's design
- Leverage lock-free concurrency and learn about its pros and cons to achieve efficient synchronization between user threads
- Combine your asynchronous operations with Task Parallel Library
- Make your code easier with C#'s asynchrony support
- Use common concurrent collections and programming patterns
- Write scalable and robust server-side asynchronous code
- Create fast and responsible client applications
- Avoid common problems and troubleshoot your multi-threaded and asynchronous applications

In Detail

Starting with the traditional approach to concurrency, you will learn how to write multithreaded concurrent programs and compose ways that won't require locking. You will explore the concepts of parallelism granularity, and fine-grained and coarse-grained parallel tasks by choosing a concurrent program structure and parallelizing the workload optimally. You will also learn how to use task parallel library, cancellations, timeouts, and how to handle errors. You will know how to choose the appropriate data structure for a specific parallel algorithm to achieve scalability and performance. Further, you'll learn about server scalability, asynchronous I/O, and thread pools, and write responsive traditional Windows and Windows Store applications.

By the end of the book, you will be able to diagnose and resolve typical problems that could happen in multithreaded applications.

Style and approach

An easy-to-follow, example-based guide that will walk you through the core principles of concurrency and multithreading using C#.

Mastering C# Concurrency By Eugene Agafonov, Andrew Koryavchenko Bibliography

- Sales Rank: #1735116 in eBooks
- Published on: 2015-10-28
- Released on: 2015-10-28
- Format: Kindle eBook

 [Download Mastering C# Concurrency ...pdf](#)

 [Read Online Mastering C# Concurrency ...pdf](#)

Editorial Review

About the Author

Eugene Agafonov

Eugene Agafonov leads the Lingvo Live development department at ABBYY, and he lives and works in Moscow. He has over 15 years of professional experience in software development and has been working with C# ever since it was in beta version. He has been a Microsoft MVP in ASP.NET since 2006, and he often speaks at local software development conferences, such as DevCon Russia, about cutting-edge technologies in modern web and server-side application development. His main professional interests are cloud-based software architecture, scalability, and reliability. Eugene is a huge fan of football and plays the guitar with a local rock band. You can reach him at his personal blog at eugeneagafonov.com or his Twitter handle at @eugene_agafonov. He also wrote Multithreading in C# 5.0 Cookbook by Packt Publishing.

Andrew Koryavchenko

Andrew Koryavchenko is a software developer and an architect who lives in Moscow, Russia. He is one of the founders of rdsn.ru the largest Russian software developers' community portal. His specialty is ERP systems and developer tools. He participated in ReSharper Visual Studio extension development, which is a well-known productivity tool for .NET developers. Currently, he is working on parsing and compilation tools for .NET development and also supports and develops the rdsn.ru portal. Andrew regularly speaks at online and offline events and conferences dedicated to Microsoft technologies, and he publishes articles on software development topics. He also used to teach Enterprise Software Development course in Kuban State University. Andrew has been a Microsoft MVP in C# since 2005.

Users Review

From reader reviews:

Toni Williams:

In this 21st millennium, people become competitive in each way. By being competitive now, people have do something to make them survives, being in the middle of the actual crowded place and notice simply by surrounding. One thing that occasionally many people have underestimated it for a while is reading. That's why, by reading a e-book your ability to survive raise then having chance to endure than other is high. To suit your needs who want to start reading a new book, we give you that Mastering C# Concurrency book as starter and daily reading book. Why, because this book is usually more than just a book.

Jean McFerren:

The particular book Mastering C# Concurrency will bring one to the new experience of reading any book.

The author style to elucidate the idea is very unique. When you try to find new book to study, this book very ideal to you. The book Mastering C# Concurrency is much recommended to you to study. You can also get the e-book from the official web site, so you can more easily to read the book.

Harry Greene:

Your reading sixth sense will not betray anyone, why because this Mastering C# Concurrency e-book written by well-known writer whose to say well how to make book which can be understand by anyone who have read the book. Written throughout good manner for you, still dripping wet every ideas and composing skill only for eliminate your current hunger then you still skepticism Mastering C# Concurrency as good book not merely by the cover but also through the content. This is one guide that can break don't judge book by its deal with, so do you still needing one more sixth sense to pick this specific!? Oh come on your reading sixth sense already alerted you so why you have to listening to another sixth sense.

Vickie Gilbert:

You will get this Mastering C# Concurrency by look at the bookstore or Mall. Only viewing or reviewing it may to be your solve challenge if you get difficulties for the knowledge. Kinds of this publication are various. Not only by written or printed but in addition can you enjoy this book by simply e-book. In the modern era including now, you just looking because of your mobile phone and searching what their problem. Right now, choose your personal ways to get more information about your guide. It is most important to arrange you to ultimately make your knowledge are still revise. Let's try to choose suitable ways for you.

Download and Read Online Mastering C# Concurrency By Eugene Agafonov, Andrew Koryavchenko #ZE18MCVSQOX

Read Mastering C# Concurrency By Eugene Agafonov, Andrew Koryavchenko for online ebook

Mastering C# Concurrency By Eugene Agafonov, Andrew Koryavchenko Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Mastering C# Concurrency By Eugene Agafonov, Andrew Koryavchenko books to read online.

Online Mastering C# Concurrency By Eugene Agafonov, Andrew Koryavchenko ebook PDF download

Mastering C# Concurrency By Eugene Agafonov, Andrew Koryavchenko Doc

Mastering C# Concurrency By Eugene Agafonov, Andrew Koryavchenko Mobipocket

Mastering C# Concurrency By Eugene Agafonov, Andrew Koryavchenko EPub

ZE18MCVSQOX: Mastering C# Concurrency By Eugene Agafonov, Andrew Koryavchenko