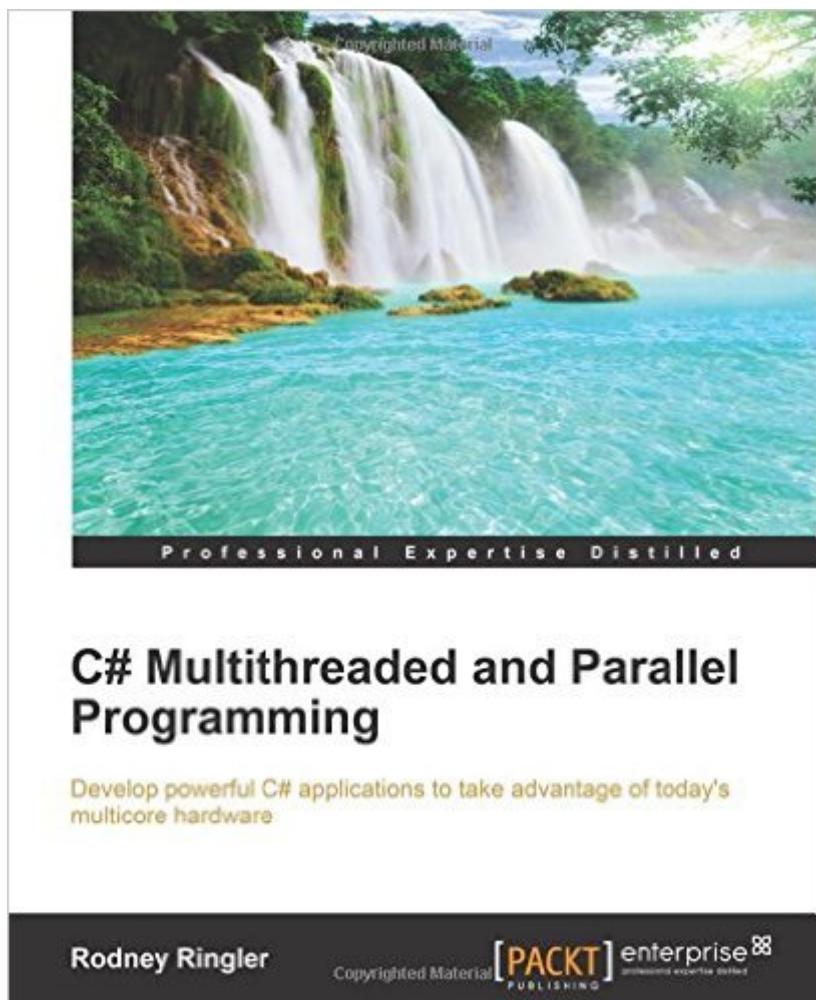


The book was found

# C# Multithreaded And Parallel Programming



## Synopsis

Develop powerful C# applications to take advantage of today's multicore hardware

**About This Book**

Make use of the latest Visual Studio debugging tools, to manage and debug multiple threads running simultaneously

Learn how to use the Thread, Task, and Parallel libraries in your C# applications

Explore the evolution of multithreaded development in C#, starting with BackgroundWorker classes and moving on to threads and tasks and finally covering AsyncWho

**This Book Is For**

If you are a C# developer and want to learn how to take advantage of the features of .NET for concurrent and multithreaded applications, then this book is for you. If you are already comfortable with C# but want to learn more about parallel design patterns, threads, tasks, and async, then look no further!

**What You Will Learn**

- Explore all the essential methods used for programming multithreaded applications
- Enhance the performance of an application by designing various parallel operations to achieve concurrency
- Build powerful applications using the Task Parallel Library (TPL), which makes concurrent processing of items in a data collection simple
- Implement data parallelism using the Parallel library, concurrent collections, and PLINQ
- Debug your multithreaded applications using the Threads view, Tasks window, Parallel Stacks window, and Parallel Watch window
- Accomplish any given parallel task using two of the most popular parallel patterns for development: Pipelining and producer-consumer
- Get to grips with the Asynchronous Programming Model (APM) to learn to begin and end asynchronous operations
- In Detail**
- Most modern machines have dual-core processors. This means that the present-day computer has the ability to multitask. Using multiple cores means your applications can process data faster and be more responsive to users. However, to fully exploit this in your applications, you need to write multithreading code.
- We will begin by covering some techniques that have been around since the beginning of .NET, including the BackgroundWorker component, timers, and the Thread class. We will use tasks, task factories, and parallel loops to develop multithreaded applications at a higher level than directly creating and managing individual threads. Finally, we will look at the tools Visual Studio provides for debugging parallel applications, common concurrent design patterns, and the latest updates in PLINQ and async.

## Book Information

Paperback: 482 pages

Publisher: Packt Publishing - ebooks Account (December 24, 2014)

Language: English

ISBN-10: 184968832X

ISBN-13: 978-1849688321

Product Dimensions: 7.5 x 0.8 x 9.2 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars See all reviews (2 customer reviews)

Best Sellers Rank: #327,150 in Books (See Top 100 in Books) #36 in Books > Computers & Technology > Programming > Web Programming > ASP.NET #37 in Books > Computers & Technology > Programming > Parallel Programming #154 in Books > Computers & Technology > Programming > Languages & Tools > C#

## Customer Reviews

As C# continues to evolve the need for appropriate multi-threading capability expands to meet the needs of the programmer. This book collates the requirements and history of multi-threaded programming in C# and introduces the advancements beyond use of the BackgroundWorker thread programming that have been introduced since 2010. The advancements include light, heavy, advanced, and TaskParallel thread programming. I have been using threads in my application programming since 1995 and this is the most complete and well written book on managing them properly that I have encountered in all that time, thus the five stars. Every enterprise software design job interview includes a heavy set of questions on thread programming no matter what language is being used. Even Java 8 is using similar object naming for threading procedures. So, reading this book will give you an expert understanding of modern thread programming. If you are serious about being an expert on thread programming, buy this book.

There are some errors, that needs to be corrected. If you can correct the errors, it will be a good book.

[Download to continue reading...](#)

Foundations of Multithreaded, Parallel, and Distributed Programming C# Multithreaded and Parallel Programming Parallel Programming: Techniques and Applications Using Networked Workstations and Parallel Computers (2nd Edition) Parallel Programming with Intel Parallel Studio XE

Multithreaded Programming with Win32 Win32 Multithreaded Programming Multithreaded Programming with Win32 by Pham, Thuan Q., Garg, Pankaj K. (1998) Paperback Parallel Scientific Computing in C++ and MPI: A Seamless Approach to Parallel Algorithms and their Implementation Introduction to Parallel Computing: Design and Analysis of Parallel Algorithms Short Stories in Spanish: New Penguin Parallel Text (New Penguin Parallel Texts) (Spanish and English Edition)

Learn German: Parallel Text - Easy, Funny Stories (German - English) - Bilingual (Learning German with Parallel Text Book 1) Learn German III: Parallel Text - Easy Stories (German - English) Bilingual - Dual Language (Learning German with Parallel Text 3) (German Edition) Java: The Simple Guide to Learn Java Programming In No Time (Programming,Database, Java for dummies, coding books, java programming) (HTML,Javascript,Programming,Developers,Coding,CSS,PHP) (Volume 2) Using OpenMP: Portable Shared Memory Parallel Programming (Scientific and Engineering Computation) Using MPI - 2nd Edition: Portable Parallel Programming with the Message Passing Interface (Scientific and Engineering Computation) Parallel Programming with Microsoft® .NET: Design Patterns for Decomposition and Coordination on Multicore Architectures (Patterns & Practices) CoArrays: Parallel Programming in Fortran (Chapman & Hall/CRC Computational Science) P-Prolog: A Parallel Logic Programming Language (World Scientific Series in Computer Science) CUDA Programming: A Developer's Guide to Parallel Computing with GPUs (Applications of Gpu Computing) Programming Massively Parallel Processors: A Hands-on Approach (Applications of GPU Computing Series)

[Dmca](#)