



Professional Parallel Programming with C#: Master Parallel Extensions with .NET 4

By Gastón C. Hillar



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Expert guidance for those programming today's dual-core processors PCs

As PC processors explode from one or two to now eight processors, there is an urgent need for programmers to master concurrent programming. This book dives deep into the latest technologies available to programmers for creating professional parallel applications using C#, .NET 4, and Visual Studio 2010. The book covers task-based programming, coordination data structures, PLINQ, thread pools, asynchronous programming model, and more. It also teaches other parallel programming techniques, such as SIMD and vectorization.

- Teaches programmers professional-level, task-based, parallel programming with C#, .NET 4, and Visual Studio 2010
- Covers concurrent collections, coordinated data structures, PLINQ, thread pools, asynchronous programming model, Visual Studio 2010 debugging, and parallel testing and tuning
- Explores vectorization, SIMD instructions, and additional parallel libraries

Master the tools and technology you need to develop thread-safe concurrent applications for multi-core systems, with *Professional Parallel Programming with C#*.



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Editorial Review

From the Back Cover

Gain a solid understanding of parallel programming with C# 4, Visual Studio 2010 and the .NET 4 Framework

Are you maximizing the processing power in your multi-core computer systems? With this resource, you discover how to do exactly that, while gaining insight into concurrent programming with tasks to create professional parallel applications using C# 4, .Net 4, and Visual Studio 2010. You learn other parallel programming techniques, including modern single instruction, multiple data instructions and vectorization. Plus, you explore the possibilities offered by modern parallel libraries and advanced Intel tools with C#. Use the new lightweight coordination structures to tackle the most complex concurrent programming problems and develop your own customized solutions.

Professional Parallel Programming with C#:

- Focuses on creating scalable and reliable parallelized designs targeting the new Task Parallel Library and .NET 4
- Walks you through imperative data parallelism, imperative task parallelism, concurrent collections, and coordination data structures
- Describes advanced declarative data parallelism with PLINQ
- Describes how to debug anonymous methods, tasks, and threads by using the new Visual Studio® 2010 parallel debugging features
- Demonstrates how to partition data sources to load-balance the workload among diverse tasks and threads

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About the Author

Gastón C. Hillar is an independent software consultant who has been researching parallel programming, multiprocessor, and multicore since 1997. He has years of experience designing and developing diverse types of complex parallelized solutions that take advantage of multiple processing cores with C# and .NET Framework.

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