

## Parallel Programming With Microsoft Visual C Design Patterns For Decomposition And Coordination On Multicore Architectures Patterns Practices

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to their design portfolios. Tracy Monteith fflIntroduction Parallel programming truly redefines the programming model for multicore architecture, which has become commonplace.

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Parallel Programming with Microsoft Visual C++ by Colin Campbell, Ade Miller. This guide introduces you to the most important and frequently used patterns of parallel programming and provides executable code samples for them, using PPL.

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This version is for Visual Studio 2010, so you won't find information about async await. Only for beginners, more advanced developers should go for Parallel Programming with Microsoft .NET: Design Patterns for Decomposition and Coordination on Multicore Architectures (Patterns & Practices) or CLR Via C# 4th Edition (Developer Reference)

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To take advantage of the hardware, you can parallelize your code to distribute work across multiple processors. In the past, parallelization required low-level manipulation of threads and locks. Visual Studio and the .NET Framework enhance support for parallel programming by providing a runtime, class library types, and diagnostic tools. These features, which were introduced with the .NET Framework 4, simplify parallel development.

### **Parallel Programming in .NET | Microsoft Docs**

This document was written by Stephen Toub from the Parallel Computing Platform team at Microsoft. It is based on the .NET Framework 4 and Visual Studio 2010. Two versions of the document are available, one with code samples in C# and one with code samples in Visual Basic.

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supporting libraries with sophisticated algorithms that dynamically distribute computations on multicore architectures.

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In a post a while ago, I talked about sequential composition of asynchronous operations. Now that we have the `async/await` keywords in C# and Visual Basic, such composition is trivial, and `async/await` are indeed the recommended way to achieve such composition with these languages. However, in that post I also described a few “Then&rd

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