

Parallel Programming with Microsoft® .NET: Design Patterns for Decomposition and Coordination on Multicore Architectures - 224 pages - 2010 - 9780735652330 - Microsoft Press, 2010 - Colin Campbell, Ralph Johnson, Ade Miller, Stephen Toub

@inproceedings{Campbell2010ParallelPW, title={Parallel Programming with Microsoft® .NET: Design Patterns for Decomposition and Coordination on Multicore Architectures}, author={C. Campbell and R. Johnson and A. Miller and Stephen Toub}, year={2010} }.
Your CPU meter shows a problem. One core is running at 100 percent, but all the other cores are idle. Your application is CPU-bound, but you are using only a fraction of the computing power of your multicore system. Is there a way to get better performance? The answer, in a nutshell, is parallel programming. Where you once would have written the kind of sequential code that is familiar to all programmers, you now find that this no longer meets your performance goals. Patterns for Parallel Programming: Understanding and Applying Parallel Patterns with the .NET Framework 4. Important! Selecting a language below will dynamically change the complete page content to that language.
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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One core is running at 100 percent, but all the other cores are idle. Your application is CPU-bound, but you are using only a fraction of the computing power of your multicore system. What next? The answer, in a nutshell, is parallel programming. Where you once would have written the kind of sequential code that is familiar to all
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