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Structured Parallel Programming Patterns For

Structured Parallel Programming offers the simplest way for developers to learn patterns for high-performance parallel programming. Written by parallel computing experts and industry insiders Michael McCool, Arch Robison, and James Reinders, this book explains how to design and

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implement maintainable and efficient parallel algorithms using a composable, structured, scalable, and machine-independent approach to parallel computing.

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Structured Parallel Programming Patterns for Efficient Computation Michael McCool Arch D. Robison James Reinders AMSTERDAM • BOSTON • HEIDELBERG • LONDON NEW YORK • OXFORD • PARIS • SAN DIEGO SAN FRANCISCO • SINGAPORE • SYDNEY • TOKYO Morgan Kaufmann Publishers is an imprint of Elsevier

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This tutorial will present a set of algorithmic patterns for parallel programming. Patterns describe best known methods for solving recurring design problems. Algorithmic patterns in particular are the building blocks of algorithms. Using these patterns to develop parallel algorithms will lead to better structured, more scalable, and more maintainable programs.

Structured Parallel Programming

Much as structured programming revolutionized traditional serial programming decades ago, a new kind of structured programming, based on patterns, is relevant to parallel programming today. Parallel computing experts and industry insiders Michael McCool, Arch Robison, and James Reinders describe how to design and implement maintainable and efficient parallel algorithms using a pattern-based approach.

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Serial patterns are presented because structured parallel programming can be considered an extension of structured control flow in serial programming. We will emphasize deterministic patterns in order to support the development of systems that automatically avoid unsafe race conditions and deadlock.

Structured Parallel Programming with Deterministic Patterns

Structured Parallel Programming (ISBN 978-0-124-15993-8) by Michael McCool, Arch D. Robison, and James Reinders, is now available from Morgan Kaufmann. This book fills a need for learning and teaching parallel programming, using an approach based on structured patterns which should make the subject accessible to every software developer.

Structured Parallel Programming | Structured Parallel ...

Parallel Patterns Library (PPL) 11/04/2016; 3 minutes to read +2; In this article. The Parallel Patterns Library (PPL) provides an imperative programming model that promotes scalability and ease-of-use for developing concurrent applications. The PPL builds on the scheduling and resource management components of the Concurrency Runtime.

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Design patterns may be viewed as a structured approach to computer programming intermediate between the levels of a programming paradigm and a concrete algorithm. ... In 1987, Kent Beck and Ward Cunningham began experimenting with the idea of applying patterns to programming ... Parallel Programming Paradigms. Prentice Hall.

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Structured parallel programming with deterministic patterns

Structured Parallel Programming offers the simplest way for developers to learn patterns for high-performance parallel programming. Written by parallel computing experts and industry insiders Michael McCool, Arch Robison, and James Reinders, this book explains how to design and implement maintainable and efficient parallel algorithms using a composable, structured, scalable, and machine-independent approach to parallel computing.

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In computing, algorithmic skeletons, or parallelism patterns, are a high-level parallel programming model for parallel and distributed computing. Algorithmic skeletons take advantage of common

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programming patterns to hide the complexity of parallel and distributed applications.

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