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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.

Structured Parallel Programming: Patterns for Efficient ...

Description. 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.

Structured Parallel Programming | ScienceDirect

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Structured Parallel Programming: Patterns for Efficient ...

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 ...

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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

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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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 ...

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.

Software design pattern - Wikipedia

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.

Structured Parallel Programming: Patterns for Efficient ...

– Parallel Programming Environments do not focus on design issues. • Need a “cookbook” that will guide the programmers systematically to achieve peak parallel performance. – (decomposition, algorithm, program structure, programming environment, optimizations) • Provide common vocabulary to the programming community. • Software ...

Parallel Programming Patterns - University of Illinois at ...

This article discusses and advocates a structured approach to parallel programming. This approach is based on a core set of common and composable patterns of parallel computation and data management with an emphasis on determinism and scalability. By using these patterns and also paying attention to a small number of factors in algorithm design ...

Structured Parallel Programming with Deterministic Patterns

The use of patterns in parallel programming bears a strong resemblance to the use of structured control flow in serial programming. Both for reasons of analogy and because serial computation is an important sub-component of parallel computation, some basic patterns for supporting serial computation will be presented and discussed, along with some serial programming models based on universal subsets of these patterns.

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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