

1. Record Nr.	UNINA9910410459803321
Autore	Boatti, Giorgio
Titolo	Piazza Fontana : 12 dicembre 1969: il giorno dell'innocenza perduta / Giorgio Boatti ; con una nuova introduzione dell'autore
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2. Record Nr.	UNINA9910462474603321
Autore	McCool Michael
Titolo	Structured parallel programming [[electronic resource]] : patterns for efficient computation / / Michael McCool, Arch D. Robison, James Reinders
Pubbl/distr/stampa	Amsterdam ; ; Boston, Mass., : Elsevier/Morgan Kaufmann, 2012
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Altri autori (Persone)	RobisonArch D ReindersJames
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Nota di contenuto	Front Cover; Structured Parallel Programming: Patterns for Efficient Computation; Copyright; Table of Contents; Listings; Preface; Preliminaries; 1 Introduction; 1.1 Think Parallel; 1.2 Performance; 1.3 Motivation: Pervasive Parallelism; 1.3.1 Hardware Trends Encouraging Parallelism; 1.3.2 Observed Historical Trends in Parallelism; 1.3.3 Need for Explicit Parallel Programming; 1.4 Structured Pattern-Based Programming; 1.5 Parallel Programming Models; 1.5.1 Desired Properties; 1.5.2 Abstractions Instead of Mechanisms; 1.5.3 Expression of Regular Data Parallelism; 1.5.4 Composability 1.5.5 Portability of Functionality1.5.6 Performance Portability; 1.5.7 Safety, Determinism, and Maintainability; 1.5.8 Overview of Programming Models Used; Cilk Plus; Threading Building Blocks (TBB); OpenMP; Array Building Blocks (ArBB); OpenCL; 1.5.9 When to Use Which Model?; 1.6 Organization of this Book; 1.7 Summary; 2 Background; 2.1 Vocabulary and Notation; 2.2 Strategies; 2.3 Mechanisms; 2.4 Machine Models; 2.4.1 Machine Model; Instruction

Parallelism; Memory Hierarchy; Virtual Memory; Multiprocessor Systems; Attached Devices; 2.4.2 Key Features for Performance; Data Locality
 Parallel Slack2.4.3 Flynn's Characterization; 2.4.4 Evolution; 2.5 Performance Theory; 2.5.1 Latency and Throughput; 2.5.2 Speedup, Efficiency, and Scalability; 2.5.3 Power; 2.5.4 Amdahl's Law; 2.5.5 Gustafson-Barsis' Law; 2.5.6 Work-Span Model; 2.5.7 Asymptotic Complexity; 2.5.8 Asymptotic Speedup and Efficiency; 2.5.9 Little's Formula; 2.6 Pitfalls; 2.6.1 Race Conditions; 2.6.2 Mutual Exclusion and Locks; 2.6.3 Deadlock; 2.6.4 Strangled Scaling; 2.6.5 Lack of Locality; 2.6.6 Load Imbalance; 2.6.7 Overhead; 2.7 Summary; I Patterns; 3 Patterns; 3.1 Nesting Pattern
 3.2 Structured Serial Control Flow Patterns3.2.1 Sequence; 3.2.2 Selection; 3.2.3 Iteration; 3.2.4 Recursion; 3.3 Parallel Control Patterns; 3.3.1 Fork-Join; 3.3.2 Map; 3.3.3 Stencil; 3.3.4 Reduction; 3.3.5 Scan; 3.3.6 Recurrence; 3.4 Serial Data Management Patterns; 3.4.1 Random Read and Write; 3.4.2 Stack Allocation; 3.4.3 Heap Allocation; 3.4.4 Closures; 3.4.5 Objects; 3.5 Parallel Data Management Patterns; 3.5.1 Pack; 3.5.2 Pipeline; 3.5.3 Geometric Decomposition; 3.5.4 Gather; 3.5.5 Scatter; 3.6 Other Parallel Patterns; 3.6.1 Superscalar Sequences; 3.6.2 Futures
 3.6.3 Speculative Selection3.6.4 Workpile; 3.6.5 Search; 3.6.6 Segmentation; 3.6.7 Expand; 3.6.8 Category Reduction; 3.6.9 Term Graph Rewriting; 3.7 Non-Deterministic Patterns; 3.7.1 Branch and Bound; 3.7.2 Transactions; 3.8 Programming Model Support for Patterns; 3.8.1 Cilk Plus; Nesting, Recursion, Fork-Join; Reduction; Map, Workpile; Scatter, Gather; 3.8.2 Threading Building Blocks; Nesting, Recursion, Fork-Join; Map; Workpile; Reduction; Scan; Pipeline; Speculative Selection, Branch and Bound; 3.8.3 OpenMP; Map, Workpile; Reduction; Fork-Join
 Stencil, Geometric Decomposition, Gather, Scatter

Sommario/riassunto

Programming is now 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. They present both theory and practice, and give detailed concrete examples using multiple programming models. Examples are primarily given using two of

3. Record Nr.	UNINA9910778447903321
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ISBN	0-674-04434-7
Descrizione fisica	143 p. : ill
Collana	The developing child
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Nota di bibliografia	Includes bibliographical references (p. 129-137) and index.
Nota di contenuto	Frontmatter -- Acknowledgments -- Contents -- 1/Why Children's Problem- Solving Is Interesting -- 2/A Historical Perspective on Children's Problem-Solving: Inference and the Development of Logic -- 3/Conceptual Tools for Solving Problems: Inherent Skills and Information -- 4/Working through a Problem and Discovering New Strategies -- 5/The Social Context of Children's Problem-Solving -- 6/Conclusions -- Notes -- Suggested Reading -- Credits -- Index