

Foundations of
Sequential and Parallel Algorithms

Ramsey A. Branson · Jerome L. Paul



Fundamentals Of Parallel Algorithms

Berman, Paul



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Introduction to Parallel Algorithms C. Xavier, S. S. Iyengar, 1998-08-05 Parallel algorithms Made Easy The complexity of today's applications coupled with the widespread use of parallel computing has made the design and analysis of parallel algorithms topics of growing interest This volume fills a need in the field for an introductory treatment of parallel algorithms appropriate even at the undergraduate level where no other textbooks on the subject exist It features a systematic approach to the latest design techniques providing analysis and implementation details for each parallel algorithm described in the book Introduction to Parallel Algorithms covers foundations of parallel computing parallel algorithms for trees and graphs parallel algorithms for sorting searching and merging and numerical algorithms This remarkable book Presents basic concepts in clear and simple terms Incorporates numerous examples to enhance students understanding Shows how to develop parallel algorithms for all classical problems in computer science mathematics and engineering Employs extensive illustrations of new design techniques Discusses parallel algorithms in the context of PRAM model Includes end of chapter exercises and detailed references on parallel computing This book enables universities to offer parallel algorithm courses at the senior undergraduate level in computer science and engineering It is also an invaluable text reference for graduate students scientists and engineers in computer science mathematics and engineering

Fundamentals of Sequential and Parallel Algorithms Kenneth A. Berman, Jerome L. Paul, 1997 Introduction from ancient to modern times Elementary data structures Design analysis of sequential algorithms Sequential sorting algorithms and their analysis Introduction to parallel algorithms and architectures parallel sorting Expanding the design and analysis of the algorithms toolkit Introduction correctness proofs and recurrence relations Graphs digraphs and sets Probability and average complexity of algorithms Introduction to Lower bound theory Parallel prefix matrix multiplication and pointer jumping Major design strategies The Greedy method Divide conquer Dynamic programming Backtracking and branch and bound Special topics Heuristic search A search game trees The dictionary problem hashing and balanced trees Probabilistic algorithms graph algorithms NP complete problems and the class NC The classes NC and P complete Closing remarks

Fundamentals of Parallel Computing Sanjay Razdan, 2014

Parallel Algorithms M H Alsuwaiyel, 2022-05-30 This book is an introduction to the field of parallel algorithms and the underpinning techniques to realize the parallelization The emphasis is on designing algorithms within the timeless and abstracted context of a high level programming language The focus of the presentation is on practical applications of the algorithm design using different models of parallel computation Each model is illustrated by providing an adequate number of algorithms to solve some problems that quite often arise in many applications in science and engineering The book is largely self contained presuming no special knowledge of parallel computers or particular mathematics In addition the solutions to all exercises are included at the end of each chapter The book is intended as a text in the field of the design and analysis of parallel algorithms It includes adequate material for a course in parallel algorithms

at both undergraduate and graduate levels **Parallel Algorithms and Architectures** Michel Cosnard, Denis Trystram, 1995 Efficient Parallel Algorithms Alan Gibbons, Wojciech Rytter, 1989-11-24 Mathematics of Computing Parallelism *Parallel Algorithms* Henri Casanova, Arnaud Legrand, Yves Robert, 2008-07-17 Focusing on algorithms for distributed memory parallel architectures Parallel Algorithms presents a rigorous yet accessible treatment of theoretical models of parallel computation parallel algorithm design for homogeneous and heterogeneous platforms complexity and performance analysis and essential notions of scheduling The book extract *Introduction to Parallel Algorithms and Architectures* Frank Thomson Leighton, 1992 Mathematics of Computing Parallelism *Fundamentals of Sequential and Parallel Algorithms* Berman, Paul, 1997-01-01 **Mathematical Foundations Of Parallel Computing** V V Voevodin, 1992-03-24 Parallel implementation of algorithms involves many difficult problems In particular among them are round off analysis the way to convert sequential programs and algorithms into the parallel mode the choice of appropriate or optimal computer architect and so on To solve these problems it is necessary to know very well the structure of algorithms This book deal with the mathematical mechanism that permits us to investigate structures of both sequential and parallel algorithms This mechanism allows us to recognize and explain the relations between different methods of constructing parallel algorithms the methods of analysing round off errors the methods of optimizing memory traffic the methods of working out the fastest implementation for a given parallel computer and other methods attending the joint investigation of algorithms and computers *Parallel Algorithms for VLSI Computer-aided Design* Prithviraj Banerjee, 1994-01-01 This text discusses the design and use of practical parallel algorithms for solving problems in a growing application area whose computational requirements are enormous VLSI CAD applications Parallel Processing and Parallel Algorithms Seyed H Roosta, 2012-12-06 Motivation It is now possible to build powerful single processor and multiprocessor systems and use them efficiently for data processing which has seen an explosive expansion in many areas of computer science and engineering One approach to meeting the performance requirements of the applications has been to utilize the most powerful single processor system that is available When such a system does not provide the performance requirements pipelined and parallel processing structures can be employed The concept of parallel processing is a departure from sequential processing In sequential computation one processor is involved and performs one operation at a time On the other hand in parallel computation several processors cooperate to solve a problem which reduces computing time because several operations can be carried out simultaneously Using several processors that work together on a given computation illustrates a new paradigm in computer problem solving which is completely different from sequential processing From the practical point of view this provides sufficient justification to investigate the concept of parallel processing and related issues such as parallel algorithms Parallel processing involves utilizing several factors such as parallel architectures parallel algorithms parallel programming languages and performance analysis which are strongly interrelated In general four steps are involved in

performing a computational problem in parallel The first step is to understand the nature of computations in the specific application domain

Algorithms and Parallel Computing Fayez Gebali, 2011-03-29 There is a software gap between the hardware potential and the performance that can be attained using today's software parallel program development tools The tools need manual intervention by the programmer to parallelize the code Programming a parallel computer requires closely studying the target algorithm or application more so than in the traditional sequential programming we have all learned The programmer must be aware of the communication and data dependencies of the algorithm or application This book provides the techniques to explore the possible ways to program a parallel computer for a given application

The Characteristics of Parallel Algorithms Leah H. Jamieson, Dennis B. Gannon, Robert J. Douglass, 1987 Mathematics of Computing Parallelism

Introduction to Parallel Computing Vipin Kumar, 1994 Mathematics of Computing Parallelism

Parallel Algorithms and Architectures M. Cosnard (Michel.), Denis Trystram, 1995 Progressing from theory to implementation the text develops the algorithms of vector processors shared memory parallel machines and distributed memory machines emphasising the link between architectures models and algorithms In addition the book addresses a number of issues that are of great practical importance to people developing parallel programs including coverage of LINPACK and BLAS vectorisation task placement and scheduling

Elements of Parallel Computing Eric Aubanel, 2016-12-08 Designed for introductory parallel computing courses at the advanced undergraduate or beginning graduate level Elements of Parallel Computing presents the fundamental concepts of parallel computing not from the point of view of hardware but from a more abstract view of algorithmic and implementation patterns The aim is to facilitate the teaching of parallel programming by surveying some key algorithmic structures and programming models together with an abstract representation of the underlying hardware The presentation is friendly and informal The content of the book is language neutral using pseudocode that represents common programming language models The first five chapters present core concepts in parallel computing SIMD shared memory and distributed memory machine models are covered along with a brief discussion of what their execution models look like The book also discusses decomposition as a fundamental activity in parallel algorithmic design starting with a naive example and continuing with a discussion of some key algorithmic structures Important programming models are presented in depth as well as important concepts of performance analysis including work depth analysis of task graphs communication analysis of distributed memory algorithms key performance metrics and a discussion of barriers to obtaining good performance The second part of the book presents three case studies that reinforce the concepts of the earlier chapters One feature of these chapters is to contrast different solutions to the same problem using select problems that aren't discussed frequently in parallel computing textbooks They include the Single Source Shortest Path Problem the Eikonal equation and a classical computational geometry problem computation of the two dimensional convex hull After presenting the problem and sequential algorithms each chapter first discusses the sources of parallelism then surveys parallel algorithms

Introduction to Parallel Algorithms and Architectures F. Thomson Leighton, 2014-05-12 Introduction to Parallel Algorithms and Architectures Arrays Trees Hypercubes provides an introduction to the expanding field of parallel algorithms and architectures This book focuses on parallel computation involving the most popular network architectures namely arrays trees hypercubes and some closely related networks Organized into three chapters this book begins with an overview of the simplest architectures of arrays and trees This text then presents the structures and relationships between the dominant network architectures as well as the most efficient parallel algorithms for a wide variety of problems Other chapters focus on fundamental results and techniques and on rigorous analysis of algorithmic performance This book discusses as well a hybrid of network architecture based on arrays and trees called the mesh of trees The final chapter deals with the most important properties of hypercubes This book is a valuable resource for readers with a general technical background

A Parallel Algorithm Synthesis Procedure for High-Performance Computer Architectures Ian N. Dunn, Gerard G.L. Meyer, 2003-04-30 Despite five decades of research parallel computing remains an exotic frontier technology on the fringes of mainstream computing Its much heralded triumph over sequential computing has yet to materialize This is in spite of the fact that the processing needs of many signal processing applications continue to eclipse the capabilities of sequential computing The culprit is largely the software development environment Fundamental shortcomings in the development environment of many parallel computer architectures thwart the adoption of parallel computing Foremost parallel computing has no unifying model to accurately predict the execution time of algorithms on parallel architectures Cost and scarce programming resources prohibit deploying multiple algorithms and partitioning strategies in an attempt to find the fastest solution As a consequence algorithm design is largely an intuitive art form dominated by practitioners who specialize in a particular computer architecture This coupled with the fact that parallel computer architectures rarely last more than a couple of years makes for a complex and challenging design environment To navigate this environment algorithm designers need a road map a detailed procedure they can use to efficiently develop high performance portable parallel algorithms The focus of this book is to draw such a road map The Parallel Algorithm Synthesis Procedure can be used to design reusable building blocks of adaptable scalable software modules from which high performance signal processing applications can be constructed The hallmark of the procedure is a semi systematic process for introducing parameters to control the partitioning and scheduling of computation and communication This facilitates the tailoring of software modules to exploit different configurations of multiple processors multiple floating point units and hierarchical memories To showcase the efficacy of this procedure the book presents three case studies requiring various degrees of optimization for parallel execution This book can be used as a reference for algorithm designers or as a text for an advanced course on parallel programming

Introduction to Parallel Computing Roman Trobec, Boštjan Slivnik, Patricio Bulić, Borut Robič, 2018-09-27 Advancements in microprocessor architecture interconnection technology and software development have fueled rapid growth in parallel and distributed

computing. However, this development is only of practical benefit if it is accompanied by progress in the design, analysis, and programming of parallel algorithms. This concise textbook provides in one place three mainstream parallelization approaches: OpenMP, MPI, and OpenCL for multicore computers, interconnected computers, and graphical processing units. An overview of practical parallel computing and principles will enable the reader to design efficient parallel programs for solving various computational problems on state-of-the-art personal computers and computing clusters. Topics covered range from parallel algorithms and programming tools (OpenMP, MPI, and OpenCL) followed by experimental measurements of parallel programs, run times, and by engineering analysis of obtained results for improved parallel execution performances. Many examples and exercises support the exposition.

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