Efstratios Gallopoulos
Bernard Philippe
Ahmed H. Sameh

Parallelism in Matrix Computations

Parallelism In Matrix Computations Scientific Computation

Virendrakumar Chhabulal Bhavsar,Uday G. Gujar

Parallelism In Matrix Computations Scientific Computation:

Parallelism in Matrix Computations Efstratios Gallopoulos,Bernard Philippe,Ahmed H. Sameh,2015-07-25 This book is primarily intended as a research monograph that could also be used in graduate courses for the design of parallel algorithms in matrix computations It assumes general but not extensive knowledge of numerical linear algebra parallel architectures and parallel programming paradigms The book consists of four parts I Basics II Dense and Special Matrix Computations III Sparse Matrix Computations and IV Matrix functions and characteristics Part I deals with parallel programming paradigms and fundamental kernels including reordering schemes for sparse matrices Part II is devoted to dense matrix computations such as parallel algorithms for solving linear systems linear least squares the symmetric algebraic eigenvalue problem and the singular value decomposition It also deals with the development of parallel algorithms for special linear systems such as banded Vandermonde Toeplitz and block Toeplitz systems Part III addresses sparse matrix computations a the development of parallel iterative linear system solvers with emphasis on scalable preconditioners b parallel schemes for obtaining a few of the extreme eigenpairs or those contained in a given interval in the spectrum of a standard or generalized symmetric eigenvalue problem and c parallel methods for computing a few of the extreme singular triplets Part IV focuses on the development of parallel algorithms for matrix functions and special characteristics such as the matrix pseudospectrum and the determinant The book also reviews the theoretical and practical background necessary when designing these algorithms and includes an extensive bibliography that will be useful to researchers and students alike The book brings together many existing algorithms for the fundamental matrix computations that have a proven track record of efficient implementation in terms of data locality and data transfer on state of the art systems as well as several algorithms that are presented for the first time focusing on the opportunities for parallelism and algorithm robustness **Parallel Algorithms for Matrix Computations** K. Gallivan,M. Heath,E. Ng,B. Peyton,R. Plemmons,J. Ortega,C. Romine,A. Sameh,R. Voigt,1990-01-01 Describes a selection of important parallel algorithms for matrix computations Reviews the current status and provides an overall perspective of parallel algorithms for solving problems arising in the major areas of numerical linear algebra including 1 direct solution of dense structured or sparse linear systems 2 dense or structured least squares computations 3 dense or structured eigenvaluen and singular value computations and 4 rapid elliptic solvers The book emphasizes computational primitives whose efficient execution on parallel and vector computers is essential to obtain high performance algorithms Consists of two comprehensive survey papers on important parallel algorithms for solving problems arising in the major areas of numerical linear algebra direct solution of linear systems least squares computations eigenvalue and singular value computations and rapid elliptic solvers plus an extensive up to date bibliography 2 000 items on related research **Parallel Algorithms for Matrix Computations** K. Gallivan,M. Heath,E. Ng,B. Peyton,R. Plemmons,C. Romine,A. Sameh,R. Voigt,1990-01-01 Mathematics of Computing Parallelism Parallel Algorithms in Computational Science and

Engineering Ananth Grama,Ahmed H. Sameh,2020-07-06 This contributed volume highlights two areas of fundamental interest in high performance computing core algorithms for important kernels and computationally demanding applications The first few chapters explore algorithms numerical techniques and their parallel formulations for a variety of kernels that arise in applications The rest of the volume focuses on state of the art applications from diverse domains By structuring the volume around these two areas it presents a comprehensive view of the application landscape for high performance computing while also enabling readers to develop new applications using the kernels Readers will learn how to choose the most suitable parallel algorithms for any given application ensuring that theory and practicality are clearly connected Applications using these techniques are illustrated in detail including Computational materials science and engineering Computational cardiovascular analysis Multiscale analysis of wind turbines and turbomachinery Weather forecasting Machine learning techniques Parallel Algorithms in Computational Science and Engineering will be an ideal reference for applied mathematicians engineers computer scientists and other researchers who utilize high performance computing in their work **Parallel Scientific Computing and Optimization** Raimondas Ciegis,David Henty,Bo Kågström,Julius Žilinskas,2008-10-08 Parallel Scientific Computing and Optimization introduces new developments in the construction analysis and implementation of parallel computing algorithms This book presents 23 self contained chapters including survey chapters and surveys written by distinguished researchers in the field of parallel computing Each chapter is devoted to some aspects of the subject parallel algorithms for matrix computations parallel optimization management of parallel programming models and data with the largest focus on parallel scientific computing in industrial applications This volume is intended for scientists and graduate students specializing in computer science and applied mathematics who are engaged in parallel scientific computing *Parallel Scientific Computation* Rob H. Bisseling,2020 Parallel Scientific Computation presents a methodology for designing parallel algorithms and writing parallel computer programs for modern computer architectures with multiple processors *Parallel Scientific Computing and Optimization* Raimondas Ciegis,David Henty,Bo Kågström,Julius Žilinskas,2010-11-25 Parallel Scientific Computing and Optimization introduces new developments in the construction analysis and implementation of parallel computing algorithms This book presents 23 self contained chapters including survey chapters and surveys written by distinguished researchers in the field of parallel computing Each chapter is devoted to some aspects of the subject parallel algorithms for matrix computations parallel optimization management of parallel programming models and data with the largest focus on parallel scientific computing in industrial applications This volume is intended for scientists and graduate students specializing in computer science and applied mathematics who are engaged in parallel scientific computing A Parallel Software Infrastructure for Dynamic Block-irregular Scientific Calculations Scott R. Kohn,1995 Scientific and Technical Aerospace Reports ,1987 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into

the NASA Scientific and Technical Information Database   Computational Science - ICCS ... ,2002   **Vector and Parallel Processors in Computational Science** ,1981   *Parallel Processing for Scientific Computing* Michael A. Heroux,Padma Raghavan,Horst D. Simon,2006-01-01 Scientific computing has often been called the third approach to scientific discovery emerging as a peer to experimentation and theory Historically the synergy between experimentation and theory has been well understood experiments give insight into possible theories theories inspire experiments experiments reinforce or invalidate theories and so on As scientific computing has evolved to produce results that meet or exceed the quality of experimental and theoretical results it has become indispensable Parallel processing has been an enabling technology in scientific computing for more than 20 years This book is the first in depth discussion of parallel computing in 10 years it reflects the mix of topics that mathematicians computer scientists and computational scientists focus on to make parallel processing effective for scientific problems Presently the impact of parallel processing on scientific computing varies greatly across disciplines but it plays a vital role in most problem domains and is absolutely essential in many of them Parallel Processing for Scientific Computing is divided into four parts The first concerns performance modeling analysis and optimization the second focuses on parallel algorithms and software for an array of problems common to many modeling and simulation applications the third emphasizes tools and environments that can ease and enhance the process of application development and the fourth provides a sampling of applications that require parallel computing for scaling to solve larger and realistic models that can advance science and engineering This edited volume serves as an up to date reference for researchers and application developers on the state of the art in scientific computing It also serves as an excellent overview and introduction especially for graduate and senior level undergraduate students interested in computational modeling and simulation and related computer science and applied mathematics aspects Contents List of Figures List of Tables Preface Chapter 1 Frontiers of Scientific Computing An Overview Part I Performance Modeling Analysis and Optimization Chapter 2 Performance Analysis From Art to Science Chapter 3 Approaches to Architecture Aware Parallel Scientific Computation Chapter 4 Achieving High Performance on the BlueGene L Supercomputer Chapter 5 Performance Evaluation and Modeling of Ultra Scale Systems Part II Parallel Algorithms and Enabling Technologies Chapter 6 Partitioning and Load Balancing Chapter 7 Combinatorial Parallel and Scientific Computing Chapter 8 Parallel Adaptive Mesh Refinement Chapter 9 Parallel Sparse Solvers Preconditioners and Their Applications Chapter 10 A Survey of Parallelization Techniques for Multigrid Solvers Chapter 11 Fault Tolerance in Large Scale Scientific Computing Part III Tools and Frameworks for Parallel Applications Chapter 12 Parallel Tools and Environments A Survey Chapter 13 Parallel Linear Algebra Software Chapter 14 High Performance Component Software Systems Chapter 15 Integrating Component Based Scientific Computing Software Part IV Applications of Parallel Computing Chapter 16 Parallel Algorithms for PDE Constrained Optimization Chapter 17 Massively Parallel Mixed Integer Programming Chapter 18 Parallel Methods and Software for Multicomponent Simulations

Chapter 19 Parallel Computational Biology Chapter 20 Opportunities and Challenges for Parallel Computing in Science and Engineering Index *Supercomputing Symposium '91, June 3-5, 1991, Fredericton, N.B., Canada* Virendrakumar Chhabulal Bhavsar,Uday G. Gujar,1991 **Analysis and Design of Scalable Parallel Algorithms for Scientific Computing** Anshul Gupta,1995 **SIAM Journal on Scientific and Statistical Computing** Society for Industrial and Applied Mathematics,1990 The Characteristics of Parallel Algorithms Leah H. Jamieson,Dennis B. Gannon,Robert J. Douglass,1987 Mathematics of Computing Parallelism **Algorithm Restructuring for Parallelism and Data Locality in Scientific Computing** Dingju Chen,1992 **High Performance Computing for Computational Science - VECPAR ...** ,2004 **Vector and Parallel Processors in Computational Science** Iain S. Duff,John Ker Reid,1985 Proceedings, ... International Parallel Processing Symposium & ... Symposium on Parallel and Distributed Processing ,2000

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