



Scientific Computing On Vector Computers Special Topics In Supercomputing

**Claude Brezinski, Gérard
Meurant, Michela Redivo-Zaglia**



Scientific Computing On Vector Computers Special Topics In Supercomputing:

Scientific Computing on Vector Computers Willi Schönauer, 1987 The goal of this volume is to gradually guide the reader from his usual base of general purpose computer knowledge to the highly specialized knowledge necessary for the efficient use of vector computers The basic rules for the selection of optimal data structures and algorithms for vector computers are presented The properties of the hardware and software of the following vector computers are discussed in the context of measurements CRAY 1 CRAY X MP CRAY 2 CYBER 205 ETA 10 Fujitsu VP 200 IBM VF and CONVEX C1 The FIDISOL program package developed by the author's research group is presented as an example of the full vectorization The advantages and the deficiencies of the most relevant vector computers are stressed Related questions of a large general purpose software package for vector computers are also discussed *The Science of Computer Benchmarking* Roger W. Hockney, 1996-01-01 This book provides an introduction to computer benchmarking Hockney includes material concerned with the definition of performance parameters and metrics and defines a set of suitable metrics with which to measure performance and units with which to express them He also presents new ideas resulting from the application of dimensional analysis to the field of computer benchmarking This results in the definition of a dimensionless universal scaling diagram that completely describes the scaling properties of a class of computer benchmarks on a single diagram for all problem sizes and all computers describable by a defined set of hardware parameters *High Performance Computing in Fluid Dynamics* P. Wesseling, 2012-12-06 Proceedings of the Summerschool on High Performance Computing in Fluid Dynamics held at Delft University of Technology the Netherlands June 24 28 1996 **End-User Training for Sci-Tech Databases** Ellis Mount, 2019-12-06 This book first published in 1990 analyses how to train end users to search with both natural language and controlled vocabularies in the sciences describes a planning assessment for implementing end user searching in a sci tech organization examines how the scientists at a major industrial research organization have begun to do more online searching with the encouragement of the information center and explores the proactive role that medical libraries have taken in training health care professionals to search MEDLINE Scientific Computing on Supercomputers II J.T. Devreese, 2012-12-06 The International Workshop on The Use of Supercomputers in Theoretical Science took place on November 29 and 30 1989 at the University of Antwerp UIA Antwerpen Belgium It was the fifth in a series of workshops the first of which took place in 1984 The principal aim of these workshops is to present the state of the art in scientific large scale and high speed computation Computational science has developed into a third methodology equally important now as its theoretical and experimental companions Gradually academic researchers acquired access to a variety of supercomputers and as a consequence computational science has become a major tool for their work It is a pleasure to thank the Belgian National Science Foundation NFWO FNRS and the Ministry of Scientific Affairs for sponsoring the workshop It was organized both in the framework of the Third Cycle Vectorization Parallel Processing and Supercomputers and the

Gouvernemental Program in Information Technology We also very much would like to thank the University of Antwerp Universitaire Instelling Antwerpen UIA for financial and material support Special thanks are due to Mrs H Evans for the typing and editing of the manuscripts and for the preparation of the author and subject index Scientific Computing on Supercomputers J.T. Devreese,P.E. Van Camp,2012-12-06 The International Workshops on The Use of Supercomputers in Theoretical Science have become a tradition at the University of Antwerp Belgium The first one took place in 1984 This volume combines the proceedings of the second workshop December 12 1985 of the third June 16 1987 and of the fourth June 9 1988 The principal aim of the International Workshops is to present the state of the art in scientific high speed computation Indeed during the past ten years computational science has become a third methodology with merits equal to the theoretical and experimental sciences Regrettably access to supercomputers remains limited for academic researchers Nonetheless supercomputers have become a major tool for scientists in a wide variety of scientific fields and they lead to a realistic solution of problems that could not be solved a decade ago It is a pleasure to thank the Belgian National Science Foundation NFWO FNRS for the sponsoring of all the workshops These workshops are organized in the framework of the Third Cycle Vectorization Parallel Processing and Supercomputers which is also funded by the NFWO FNRS The other sponsor I want to thank is the University of Antwerp where the workshops took place The University of Antwerp UIA together with the NFWO FNRS are also the main sponsors of the ALPHA project which gives the scientists of Belgium the opportunity to obtain an easy supercomputer connection **Scientific Computing on Supercomputers III** J.T. Devreese,P.E. Van Camp,2013-06-29 The International Workshop on The Use of Supercomputers in Theoretical Science took place on January 24 and 25 1991 at the University of Antwerp UIA Antwerpen Belgium It was the sixth in a series of workshops the first of which took place in 1984 The principal aim of these workshops is to present the state of the art in scientific large scale and high speed computation Computational science has developed into a third methodology equally important now as its theoretical and experimental companions Gradually academic researchers acquired access to a variety of supercomputers and as a consequence computational science has become a major tool for their work It is a pleasure to thank the Belgian National Science Foundation NFWO FNRS and the Ministry of Scientific Affairs for sponsoring the workshop It was organized both in the framework of the Third Cycle Vectorization Parallel Processing and Supercomputers and the Gouvernemental Program in Information Technology We also very much would like to thank the University of Antwerp Universitaire Instelling Antwerpen UIA for financial and material support Special thanks are due to Mrs H Evans for the typing and editing of the manuscripts and for the preparation of the author and subject indexes J T Devreese P E Van Camp University of Antwerp July 1991 v CONTENTS High Performance Numerically Intensive Applications on Distributed Memory Parallel Computers F W Wray Abstract **Advances in Software Tools for Scientific Computing** Hans P. Langtangen,Are M. Bruaset,Ewald Quak,2012-12-06 To make full use of the ever increasing hardware capabilities of modern

computers it is necessary to speedily enhance the performance and reliability of the software as well and often without having a suitable mathematical theory readily available In the handling of more and more complex real life numerical problems in all sorts of applications a modern object oriented design and implementation of software tools has become a crucial component The considerable challenges posed by the demand for efficient object oriented software in all areas of scientific computing make it necessary to exchange ideas and experiences from as many different sources as possible Motivated by the success of the first meeting of this kind in Norway in 1996 we decided to organize another International Workshop on Modern Software Tools for Scientific Computing often referred to as SciTools 98 This workshop took place in Oslo Norway September 14-16 1998 The objective was again to provide an open forum for exchange and discussion of modern state of the art software techniques applied to challenging numerical problems The organization was undertaken jointly by the research institute SINTEF Applied Mathematics the Departments of Mathematics and Informatics at the University of Oslo and the company Numerical Objects AS

A Journey through the History of Numerical Linear Algebra Claude Brezinski, Gérard Meurant, Michela Redivo-Zaglia, 2022-12-06 This expansive volume describes the history of numerical methods proposed for solving linear algebra problems from antiquity to the present day The authors focus on methods for linear systems of equations and eigenvalue problems and describe the interplay between numerical methods and the computing tools available at the time The second part of the book consists of 78 biographies of important contributors to the field A Journey through the History of Numerical Linear Algebra will be of special interest to applied mathematicians especially researchers in numerical linear algebra people involved in scientific computing and historians of mathematics

Applications of Supercomputers in Engineering: Algorithms, computer systems and user experience C. A.

Brebbia, Alexander Peters, 1989 **Computer Solution of Large Linear Systems** Gerard Meurant, 1999-06-16 This book deals with numerical methods for solving large sparse linear systems of equations particularly those arising from the discretization of partial differential equations It covers both direct and iterative methods Direct methods which are considered are variants of Gaussian elimination and fast solvers for separable partial differential equations in rectangular domains The book reviews the classical iterative methods like Jacobi Gauss Seidel and alternating directions algorithms A particular emphasis is put on the conjugate gradient as well as conjugate gradient like methods for non symmetric problems Most efficient preconditioners used to speed up convergence are studied A chapter is devoted to the multigrid method and the book ends with domain decomposition algorithms that are well suited for solving linear systems on parallel computers

Department of Housing and Urban Development--Independent Agencies Appropriations for 1985: Office of Science and Technology Policy; National Science Foundation United States. Congress. House. Committee on Appropriations. Subcommittee on HUD-Independent Agencies, 1984

Encyclopedia of Computer Science and Technology Allen Kent, James G. Williams, 1994-02-08 This comprehensive reference work provides immediate fingertip

access to state of the art technology in nearly 700 self contained articles written by over 900 international authorities Each article in the Encyclopedia features current developments and trends in computers software vendors and applications extensive bibliographies of leading figures in the field such as Samuel Alexander John von Neumann and Norbert Wiener and in depth analysis of future directions Department of Housing and Urban Development--independent Agencies Appropriations for 1985 United States. Congress. House. Committee on Appropriations. Subcommittee on HUD-Independent Agencies,1984 Scientific and Technical Aerospace Reports ,1995 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 **Getting Up to Speed** National Research Council,Division on Engineering and Physical Sciences,Computer Science and Telecommunications Board,Committee on the Future of Supercomputing,2005-02-03 Supercomputers play a significant and growing role in a variety of areas important to the nation They are used to address challenging science and technology problems In recent years however progress in supercomputing in the United States has slowed The development of the Earth Simulator supercomputer by Japan that the United States could lose its competitive advantage and more importantly the national competence needed to achieve national goals In the wake of this development the Department of Energy asked the NRC to assess the state of U S supercomputing capabilities and relevant R D Subsequently the Senate directed DOE in S Rpt 107 220 to ask the NRC to evaluate the Advanced Simulation and Computing program of the National Nuclear Security Administration at DOE in light of the development of the Earth Simulator This report provides an assessment of the current status of supercomputing in the United States including a review of current demand and technology infrastructure and institutions and international activities The report also presents a number of recommendations to enable the United States to meet current and future needs for capability supercomputers United States Geological Survey Yearbook Geological Survey (U.S.),1988 **Scientific Computing with Multicore and Accelerators** Jakub Kurzak,David A. Bader,Jack Dongarra,2010-12-07 The hybrid heterogeneous nature of future microprocessors and large high performance computing systems will result in a reliance on two major types of components multicore manycore central processing units and special purpose hardware massively parallel accelerators While these technologies have numerous benefits they also pose substantial perfo **The Architecture of Supercomputers** Daniel P. Siewiorek,Philip John Koopman,2014-05-10 The Architecture of Supercomputers Titan A Case Study describes the architecture of the first member of an entirely new computing class the graphic supercomputing workstation known as Titan This book is divided into seven chapters Chapter 1 provides an overview of the Titan architecture including the motivation organization and processes that created it A survey of all the techniques to speed up computation is presented in Chapter 2 Chapter 3 reviews the issue of particular benchmarks and measures while Chapter 4 analyzes a model of a concurrency hierarchy extending from the register set to the entire operating system The architecture of Titan

graphics supercomputer and its implementation are considered in Chapter 5 Chapter 6 examines the performance of Titan in terms of the various information flow data rates The last chapter is devoted to the actual performance on benchmark kernels and how the architecture and implementation affect performance This publication is recommended for architects and engineers designing processors and systems

Parallel Programming Thomas Rauber, Gudula Rünger, 2023-04-04 This textbook covers the new development in processor architecture and parallel hardware It provides detailed descriptions of parallel programming techniques that are necessary for developing efficient programs for multicore processors as well as for parallel cluster systems and supercomputers The book is structured in three main parts covering all areas of parallel computing the architecture of parallel systems parallel programming models and environments and the implementation of efficient application algorithms The emphasis lies on parallel programming techniques needed for different architectures In particular this third edition includes an extended update of the chapter on computer architecture and performance analysis taking new developments such as the aspect of energy consumption into consideration The description of OpenMP has been extended and now also captures the task concept of OpenMP The chapter on message passing programming has been extended and updated to include new features of MPI such as extended reduction operations and non blocking collective communication operations The chapter on GPU programming also has been updated All other chapters also have been revised carefully The main goal of this book is to present parallel programming techniques that can be used in many situations for many application areas and to enable the reader to develop correct and efficient parallel programs Many example programs and exercises are provided to support this goal and to show how the techniques can be applied to further applications The book can be used as a textbook for students as well as a reference book for professionals The material of the book has been used for courses in parallel programming at different universities for many years

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