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Russian Supercomputing Days



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Supercomputing Lecture Notes In Computer Science

Volume 297

Tse-yun Feng



Supercomputing Lecture Notes In Computer Science Volume 297:

Supercomputing in Engineering Analysis Hojjat Adeli, 2020-08-13 The first volume in this new series has a companion in volume 2 unseen Parallel processing in computational mechanics The first six contributions present general aspects of supercomputing from both hardware and software engineering points of view Subsequent chapters discuss homotopy algorithms

Supercomputing Vladimir Voevodin, Sergey Sobolev, 2022-01-03 This book constitutes the refereed post conference proceedings of the 7th Russian Supercomputing Days RuSCDays 2021 held in Moscow Russia in September 2021 The 37 revised full papers and 3 short papers presented were carefully reviewed and selected from 99 submissions The papers are organized in the following topical sections supercomputer simulation HPC BigData AI architectures technologies tools and distributed and cloud computing

Supercomputational Science R.G. Evans, 2012-12-06 In contemporary research the supercomputer now ranks along with radio telescopes particle accelerators and the other apparatus of big science as an expensive resource which is nevertheless essential for state of the art research Supercomputers are usually provided as shared central facilities However unlike telescopes and accelerators they are found a wide range of applications which extends across a broad spectrum of research activity The difference in performance between a good and a bad computer program on a traditional serial computer may be a factor of two or three but on a contemporary supercomputer it can easily be a factor of one hundred or even more Furthermore this factor is likely to increase with future generations of machines In keeping with the large capital and recurrent costs of these machines it is appropriate to devote effort to training and familiarization so that supercomputers are employed to best effect This volume records the lectures delivered at a Summer School held at The Cosensers House in Abingdon which was an attempt to disseminate research methods in the different areas in which supercomputers are used It is hoped that the publication of the lectures in this form will enable the experiences and achievements of supercomputer users to be shared with a larger audience We thank all the lecturers and participants for making the Summer School an enjoyable and profitable experience Finally we thank the Science and Engineering Research Council and The Computer Board for supporting the Summer School

Advances on Computer Mathematics and Its Applications Elias A. Lipitakis, 1993 This volume contains selected papers of the proceedings of the first Hellenic Conference on Mathematics and Informatics HERMIS 92 The main theme for HERMIS 92 Conference was Computer Mathematics with special emphasis on Computational Mathematics Operational Research and Statistics and Mathematics in Economic Science The presented papers of the HERMIS Conference have been classified into the following technical sessions Numerical solution of Differential Equations Parallel Processing and Parallel Algorithms Optimization and Approximation Algorithms in Operational Research and Control Theory Statistical Methods and Analysis Mathematics in Economic Science Artificial Intelligence and Data Bases Technology In addition a number of selected research articles published recently in the Hellenic Mathematical Society Bulletin in the form of special issues on Computer Mathematics

Volumes 31 and 32 are also included **Proceedings 20th International Conference Parallel Processing 1991** Tse-yun Feng,1991-08-06 CSL'88 Egon Börger,Hans Kleine Büning,Michael M. Richter,1989-09-06 This volume contains the papers which were presented at the second workshop Computer Science Logic held in Duisburg FRG October 3 7 1988 These proceedings cover a wide range of topics both from theoretical and applied areas of computer science More specifically the papers deal with problems arising at the border of logic and computer science e g in complexity data base theory logic programming artificial intelligence and concurrency The volume should be of interest to all logicians and computer scientists working in the above fields 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 None theless 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

Algorithms Tetsuo Asano,1990-08-02 This is the proceedings of the SIGAL International Symposium on Algorithms held at CSK Information Education Center Tokyo Japan August 16 18 1990 SIGAL Special Interest Group on Algorithms was organized within the Information Processing Society of Japan in 1988 to encourage research in the field of discrete algorithms and held 6 8 research meetings each year This symposium is the first international symposium organized by SIGAL In response to the call for papers 88 papers were submitted from around the world The program committee selected 34 for presentation at the symposium The symposium also included 5 invited lectures and 10 invited presentations The subjects of the papers range widely in the field of discrete algorithms in theoretical computer science Keywords for these subjects are computational geometry graph algorithms complexity theory parallel algorithms distributed computing and computational algebra **Parallel Computational Fluid Dynamics** Rupak Biswas,2010 *High-Performance Computing on Complex Environments* Emmanuel Jeannot,Julius Zilinskas,2014-04-10 With recent changes in multicore and general purpose computing on graphics processing units the way parallel computers are used and programmed has drastically

changed It is important to provide a comprehensive study on how to use such machines written by specialists of the domain The book provides recent research results in high performance computing on complex environments information on how to efficiently exploit heterogeneous and hierarchical architectures and distributed systems detailed studies on the impact of applying heterogeneous computing practices to real problems and applications varying from remote sensing to tomography The content spans topics such as Numerical Analysis for Heterogeneous and Multicore Systems Optimization of Communication for High Performance Heterogeneous and Hierarchical Platforms Efficient Exploitation of Heterogeneous Architectures Hybrid CPU GPU and Distributed Systems Energy Awareness in High Performance Computing and Applications of Heterogeneous High Performance Computing Covers cutting edge research in HPC on complex environments following an international collaboration of members of the ComplexHPC Explains how to efficiently exploit heterogeneous and hierarchical architectures and distributed systems Twenty three chapters and over 100 illustrations cover domains such as numerical analysis communication and storage applications GPUs and accelerators and energy efficiency ESEC '89 Carlo Ghezzi,1989 The book is concerned with the broad topic of software engineering It comprises the proceedings of the European Software Engineering Conference ESEC held at the University of Warwick in the United Kingdom in September 1989 and its primary purpose is to summarise the state of the art in software engineering as represented by the papers at that conference The material covers both submitted papers and a number of invited papers given at the conference The topics covered include metrics and measurement software process modelling formal methods including their use in industry software configuration management software development environments and requirements engineering The book is most likely to be of interest to researchers and professionals working in the field of software development The primary value of the book is that it gives an up to date treatment of its subject material and includes some interesting discussions of the transfer of research ideas into industrial practice **Coding Theory and Applications** Gérard Cohen,Jacques Wolfmann,1989-09-20 A rich source of information about human voluntary movement in health and disease can be found in this book The most esteemed researchers in their respective fields bring you up to date articles Their collected work combines fundamental research in the life sciences with clinical neuroscience in a unique overview The interdisciplinary aspects of motor physiology uncover a wealth of information for researchers from neighboring disciplines For example oculomotor research vestibular research equilibrium sensory research and cognition evolution synaptic and elementary processes and the neurological sciences can be discovered **Categorical Methods in Computer Science** Hartmut Ehrig,Horst Herrlich,Hans-Jörg Kreowski,Gerhard Preuß,1989-10-11 This volume contains selected papers of the International Workshop on Categorical Methods in Computer Science with Aspects from Topology and of the 6th International Data Type Workshop held in August September 1988 in Berlin The 23 papers of this volume are grouped into three parts Part 1 includes papers on categorical foundations and fundamental concepts from category theory in computer

science Part 2 presents applications of categorical methods to algebraic specification languages and techniques data types data bases programming and process specifications Part 3 comprises papers on categorial aspects from topology which mainly concentrate on special adjoint situations like cartesian closeness Galois connections reflections and coreflections which are of growing interest in categorical topology and computer science

EUROCAL '87 James H. Davenport, James Harold Davenport, 1989-08-09 This is the sixth in a series of conference proceedings of international conferences on computer algebra held in Europe All the preceding ones have also been published as Lecture Notes in Computer Science They contain original research material not published elsewhere and a few invited lectures summarising the state of the art Computer algebra is the science of using computers to do algebraic calculations rather than the purely arithmetic calculations which we all know computers can do These calculations may be polynomial like calculations one thread of the conference was devoted to polynomial algorithms or may relate to other areas of mathematics such as integration the solution of differential equations or geometry a second thread was devoted to those topics The calculations can be applied in a wide range of scientific and engineering subjects and in branches of mathematics Physics has benefitted especially from these calculations and the proceedings contain many papers on this and also papers on applications in computer aided design and robotics to name but a few other applications The third thread of the proceedings was devoted to these applications and to the computer algebra systems which perform these calculations

PARLE '89 - Parallel Architectures and Languages Europe Eddy Odijk, Martin Rem, 1989 Since the first PARLE conference PARLE 87 attracted more than 300 participants it was considered a useful and successful forum and encouraged the organization of this second issue known as PARLE 89 The initiative for these conferences was taken by project 415 of ESPRIT the European Strategic Programme for Research and Development in Information Technology of the Commission of the European Communities Their scope covers central themes in the area of parallel architectures and languages including such topics as concurrent object oriented logic and functional programming MIMD dataflow inference and reduction machines design and verification of parallel systems VLSI WSI and RISC architectures performance evaluation memory management systolic arrays applications and special purpose architectures The four invited lectures present the state of the art and advanced developments in major research areas related to the topics of the conference Of the more than 150 submitted papers 45 were selected for presentation Furthermore the program of PARLE 89 comprises presentations on the subprojects which together constitute ESPRIT project 415 Parallel architectures based on a variety of programming styles object oriented logic functional dataflow are represented in these overviews

Formal Properties of Finite Automata and Applications Jean E. Pin, 1989-10-11 The volume contains the proceedings of the 16th Spring School on Theoretical Computer Science held in Ramatuelle France in May 1988 It is a unique combination of research level articles on various aspects of the theory of finite automata and its applications Advances made in the last five years on the mathematical foundations form the first part of the book The second part is

devoted to the important problems of the theory including star height concatenation hierarchies and connections with logic and word problems The last part presents a large variety of possible applications number theory distributed systems algorithms on strings theory of codes complexity of boolean circuits and others

Database Machines Haran Boral, Pascal Faudemay, 1989 This volume contains 24 papers presented at the Sixth International Workshop on Database Machines The papers cover a wide spectrum of topics including system architectures storage structures associative memory architectures memory resident systems deduction and retrospectives on maturing projects The nature of the papers is highly technical and presumes knowledge of database management systems and familiarity with database machines The book is representative of the dual trend in the field towards 1 search for new functionality and 2 attention to detail completeness and performance of prototype implementations

Parallel computing of partial differential equations-based applications Siham Tabik, 2008-05-12 La mayor a de los modelos matem ticos empleados para describir fen menos f sicos reales en ciencia e ingenier a est n gobernados por ecuaciones parciales diferenciales no lineales dependientes del tiempo PDEs Partial Differential Equations Generalmente la soluci n de dichas ecuaciones requiere una discretizaci n usando m todos como los de diferencias finitas elementos finitos vol menos finitos o m todos de los momentos El an lisis del comportamiento de los modelos matem ticos basados en PDEs para sistemas reales es muy costoso desde el punto de vista computacional y los costes pueden ser tan enormes que su implementaci n paralela se convierte en la nica soluci n Adicionalmente la reciente disponibilidad en el mercado de la computaci n de alta prestaci n de arquitecturas de nodos de memoria compartida conectados entre si ha incrementado la importancia de dise ar c digos eficientes apropiados para explotar estas plataformas Dichas plataformas soportan tres paradigmas de comunicaci n 1 el paradigma de memoria compartida 2 el paradigma de paso de mensajes y 3 el paradigma h brido que consiste en la combinaci n de los dos paradigmas anteriores Cada uno de los paradigmas ofrece ventajas y desventajas en funci n de las caracter sticas de la plataforma paralela y del problema Esta tesis analiza la soluci n num rica de tres aplicaciones cient ficas en f sica y en el campo del tratamiento de im genes gobernadas por ecuaciones diferenciales tridimensionales independientes del tiempo En particular la primera aplicaci n es un m todo dependiente del tiempo que resuelve la ecuaci n integral del campo el ctrico para el an lisis de la interacci n entre hilos finos conductores y ondas electromagn ticas la segunda aplicaci n es un m todo de diferencias finitas que resuelve la ecuaci n de difusi n altamente acoplada con un sistemas masivo para filtrar im genes 3D en biolog a celular y biomedicina y la tercera aplicaci n es un conjunto de cuatro ecuaciones de reacci n difusi n para simular el fen meno de bursting en tres dimensiones un fen meno com n en numerosos sistemas naturales Para ello se analizan las caracter sticas de los paradigmas de comunicaci n conforme se aplican para obtener las soluciones num ricas de las tres aplicaciones descritas anteriormente Los resultados indican que es posible establecer una abstracci n de los modelos de comunicaci n que permite un desarrollo eficiente simple y robusto de los modelos de comunicaci n que son independientes de las arquitecturas de las diferentes

plataformas usadas *Real-time Systems with Transputers* Occam User Group. Technical Meeting, 1990 **Methods in Computational Chemistry** Stephen Wilson, 2013-12-01 Recent years have seen the proliferation of new computer designs that employ parallel processing in one form or another in order to achieve maximum performance Although the idea of improving the performance of computing machines by carrying out parts of the computation concurrently is not new indeed the concept was known to Babbage such machines have until fairly recently been confined to a few specialist research laboratories Nowadays parallel computers are commercially available and they are finding a wide range of applications in chemical calculations The purpose of this volume is to review the impact that the advent of concurrent computation is already having and is likely to have in the future on chemical calculations Although the potential of concurrent computation is still far from its full realization it is already clear that it may turn out to be second in importance only to the introduction of the electronic digital computer itself

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