Frank Mueller (Ed.)

LNCS 2026

High-Level Parallel Programming Models and Supportive Environments

6th International Workshop, HIPS 2001
San Francisco, CA, USA, April 2001
Proceedings

Springer

High Level Parallel Programming Models And Supportive Environments Hips 98

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High Level Parallel Programming Models And Supportive Environments Hips 98:

High-Level Parallel Programming Models and Supportive Environments Frank Mueller,2003-05-15 On the 23rd of April 2001 the 6th Workshop on High Level Parallel P gramming Models and Supportive Environments LCTES 98 was held in San Francisco HIPShas been held over the past six years in conjunction with IPDPS the Internation Parallel and Distributed Processing Symposium The HIPSworkshop focuses on high level programming of networks of wo stations computing clusters and of massively parallel machines Its goal is to bring together researchers working in the areas of applications language design compilers system architecture and programming tools to discuss new devel ments in programming such systems In recent years several standards have emerged with an increasing demand of support for parallel and distributed processing On one end message passing frameworks such as PVM MPI and VIA provide support for basic commu cation On the other hand distributed object standards such as CORBA and DCOM provide support for handling remote objects in a client server fashion but also ensure certain guarantees for the quality of services The key issues for the success of programming parallel and distributed en ronments are high level programming concepts and e ciency In addition other quality categories have to be taken into account such as scalability security bandwidth guarantees and fault tolerance just to name a few Today s challenge is to provide high level programming concepts without s ri cing e ciency This is only possible by carefully designing for those concepts and by providing supportive programming environments that facilitate program development and tuning

High-Level Parallel Programming Models and Supportive Environments Frank Mueller,2001-04-04 This book constitutes the refereed proceedings of the 6th International Workshop on High Level Parallel Programming Models and Supportive Environments HIPS 2001 held in San Francisco CA USA in April 2001 The 10 revised full papers presented were carefully reviewed and selected out of 20 submissions The focus of the book is on high level programming of networks of workstations computing clusters and massively parallel machines Among the issues addressed are language design compilers system architectures programming tools and advanced applications *Proceedings of the Fifth ACM SIGPLAN International Conference on Functional Programming (ICFP '00), Montréal, Canada, September 18-21, 2000* ,2000 **Eighth International Workshop on High-Level Parallel Programming Models and Supportive Environments** ,2003 HIPS 2003 is a forum for researchers in the areas of applications computational models language design compilers system architecture and programming tools to discuss new developments in programming parallel and grid systems The proceedings covers the design and implementation of high level programming models for parallel and grid environments It also looks at current programming models such as MPI and OpenMP and covers implementation techniques for OpenMP on SMP systems

Encyclopedia of Parallel Computing David Padua,2014-07-08 Containing over 300 entries in an A Z format the Encyclopedia of Parallel Computing provides easy intuitive access to relevant information for professionals and researchers seeking access to any aspect within the broad field of parallel computing Topics for this comprehensive reference were

selected written and peer reviewed by an international pool of distinguished researchers in the field The Encyclopedia is broad in scope covering machine organization programming languages algorithms and applications Within each area concepts designs and specific implementations are presented The highly structured essays in this work comprise synonyms a definition and discussion of the topic bibliographies and links to related literature Extensive cross references to other entries within the Encyclopedia support efficient user friendly searchers for immediate access to useful information Key concepts presented in the Encyclopedia of Parallel Computing include laws and metrics specific numerical and non numerical algorithms asynchronous algorithms libraries of subroutines benchmark suites applications sequential consistency and cache coherency machine classes such as clusters shared memory multiprocessors special purpose machines and dataflow machines specific machines such as Cray supercomputers IBM s cell processor and Intel s multicore machines race detection and auto parallelization parallel programming languages synchronization primitives collective operations message passing libraries checkpointing and operating systems Topics covered Speedup Efficiency Isoefficiency Redundancy Amdahls law Computer Architecture Concepts Parallel Machine Designs Benmarks Parallel Programming concepts design Algorithms Parallel applications This authoritative reference will be published in two formats print and online The online edition features hyperlinks to cross references and to additional significant research Related Subjects supercomputing high performance computing distributed computing **High Performance Computing** Mateo Valero,2000-09-27 This book constitutes the refereed proceedings of the Third International Symposium on High Performance Computing ISHPC 2000 held in Tokyo Japan in October 2000 The 15 revised full papers presented together with 16 short papers and five invited contributions were carefully reviewed and selected from 53 submissions Also included are 20 refereed papers from two related workshops The book offers topical sections on compilers architectures and evaluation algorithms models and applications OpenMP experiences and implementations and simulation and visualization **Euro-Par 2000 Parallel Processing** Arndt Bode,Thomas Ludwig,Wolfgang Karl,Roland Wismüller,2003-06-26 Euro Par the European Conference on Parallel Computing is an international conference series dedicated to the promotion and advancement of all aspects of parallel computing The major themes can be divided into the broad categories of hardware software algorithms and applications for parallel computing The objective of Euro Par is to provide a forum within which to promote the dev opment of parallel computing both as an industrial technique and an academic discipline extending the frontier of both the state of the art and the state of the practice This is particularlyimportant at a time when parallel computing is dergoing strong and sustained development and experiencing real industrial take up The main audience for and participants of Euro Par are seen as researchers in academic departments government laboratories and industrial organisations Euro Par s objective is to become the primarychoice of such professionals for the presentation of new results in their speci c areas Euro Par is also interested in applications that demonstrate the e ectiveness of the main Euro Par themes Euro Par now has its own Internet domain with a

permanent Web site where the historyof the conference series is described http www euro par org The Euro Par conference series is sponsored bythe Association of Computer Machineryand the International Federation of Information Processing

Parallel Computing Christian Bischof,2008 ParCo2007 marks a quarter of a century of the international conferences on parallel computing that started in Berlin in 1983 The aim of the conference is to give an overview of the developments applications and future trends in high performance computing for various platforms **Scientific Workflows** Jun Qin,Thomas Fahringer,2012-08-15 Creating scientific workflow applications is a very challenging task due to the complexity of the distributed computing environments involved the complex control and data flow requirements of scientific applications and the lack of high level languages and tools support Particularly sophisticated expertise in distributed computing is commonly required to determine the software entities to perform computations of workflow tasks the computers on which workflow tasks are to be executed the actual execution order of workflow tasks and the data transfer between them Qin and Fahringer present a novel workflow language called Abstract Workflow Description Language AWDL and the corresponding standards based knowledge enabled tool support which simplifies the development of scientific workflow applications AWDL is an XML based language for describing scientific workflow applications at a high level of abstraction It is designed in a way that allows users to concentrate on specifying such workflow applications without dealing with either the complexity of distributed computing environments or any specific implementation technology This research monograph is organized into five parts overview programming optimization synthesis and conclusion and is complemented by an appendix and an extensive reference list The topics covered in this book will be of interest to both computer science researchers e g in distributed programming grid computing or large scale scientific applications and domain scientists who need to apply workflow technologies in their work as well as engineers who want to develop distributed and high throughput workflow applications languages and tools *Applied Parallel Computing* Bo Kagström,Erik Elmroth,Jack Dongarra,Jerzy Wasniewski,2007-09-22 This book constitutes the thoroughly refereed post proceedings of the 8th International Workshop on Applied Parallel Computing PARA 2006 It covers partial differential equations parallel scientific computing algorithms linear algebra simulation environments algorithms and applications for blue gene L scientific computing tools and applications parallel search algorithms peer to peer computing mobility and security algorithms for single chip multiprocessors

Euro-Par 2006 Parallel Processing Wolfgang E. Nagel,Wolfgang V. Walter,Wolfgang Lehner,2006-11-24 This book constitutes the refereed proceedings of the 12th International Conference on Parallel Computing Euro Par 2006 The book presents 110 carefully reviewed revised papers Topics include support tools and environments performance prediction and evaluation scheduling and load balancing compilers for high performance parallel and distributed databases data mining and knowledge discovery grid and cluster computing models middleware and architectures parallel computer architecure and instruction level parallelism distributed systems and algorithms and more *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 **Applied Parallel Computing: Advanced**

Scientific Computing Juha Fagerholm,Juha Haataja,Jari Järvinen,Mikko Lyly,Peter Raback,Ville Savolainen,2003-08-03 This book constitutes the refereed proceedings of the 6th International Conference on Applied Parallel Computing PARA 2002 held in Espoo Finland in June 2002 The 50 revised full papers presented together with nine keynote lectures were carefully reviewed and selected for inclusion in the proceedings The papers are organized in topical sections on data mining and knowledge discovery parallel program development practical experience in parallel computing computer science numerical algorithms with hierarchical memory optimization numerical methods and algorithms cluster computing grid and network technologies and physics and applications *Index of Conference Proceedings* British Library. Document Supply Centre,2003 Parallel Computing Technologies Viktor Ėmmanuilovich Malyshkin,2005-08-18 This book constitutes the refereed proceedings of the 8th International Conference on Parallel Computing Technologies PaCT 2005 held in Krasnoyarsk Russia in September 2005 The 38 revised full papers presented together with 1 invited paper were carefully reviewed and selected from 78 submissions The papers are organized in topical sections on theory fine grain parallelism software tools and applications A broad variety of parallel processing issues and distributed computing in general are addressed as well **Applied Parallel Computing** Jack Dongarra,Kaj Madsen,Jerzy Wasniewski,2006-02-27 This book constitutes the refereed proceedings of the 7th International Conference on Applied Parallel Computing PARA 2004 held in June 2004 The 118 revised full papers presented together with five invited lectures and 15 contributed talks were carefully reviewed and selected for inclusion in the proceedings The papers are organized in topical sections *XcalableMP PGAS Programming Language* Mitsuhisa Sato,2020-11-19 XcalableMP is a directive based parallel programming language based on Fortran and C supporting a Partitioned Global Address Space PGAS model for distributed memory parallel systems This open access book presents XcalableMP language from its programming model and basic concept to the experience and performance of applications described in XcalableMP XcalableMP was taken as a parallel programming language project in the FLAGSHIP 2020 project which was to develop the Japanese flagship supercomputer Fugaku for improving the productivity of parallel programing XcalableMP is now available on Fugaku and its performance is enhanced by the Fugaku interconnect Tofu D The global view programming model of XcalableMP inherited from High Performance Fortran HPF provides an easy and useful solution to parallelize data parallel programs with directives for distributed global array and work distribution and shadow communication The local view programming adopts coarray notation from Coarray Fortran CAF to describe explicit communication in a PGAS model The language specification was designed and proposed by the XcalableMP Specification Working Group organized in the PC Consortium Japan The Omni XcalableMP compiler is a production level reference implementation of XcalableMP compiler for C and Fortran 2008 developed by RIKEN CCS and the University of Tsukuba The performance of the XcalableMP program was used in the Fugaku as well as the K computer A performance study showed that XcalableMP enables a scalable performance comparable to the message passing interface

MPI version with a clean and easy to understand programming style requiring little effort A Programmer's Guide to ZPL Lawrence Snyder,1999 ZPL is a new array programming language for science and engineering computation Designed for fast execution on both sequential and parallel computers it is intended to replace languages such as Fortran and C This guide provides a complete introduction to ZPL It assumes that the reader is experienced with an imperative language such as C Fortran or Pascal Though precise and thorough it does not attempt to be a complete reference manual but rather it illustrates typical ZPL usage and explains in an intuitive manner how the constructs work The emphasis is on teaching the reader to be a ZPL programmer Scientific computations are used as examples throughout and a list of common features is printed on the inside back cover for easy reference **Pattern Recognition and Machine Intelligence** Marzena Kryszkiewicz,Sanghamitra Bandyopadhyay,Henryk Rybinski,Sankar K. Pal,2015-06-22 This book constitutes the proceedings of the 6th International Conference on Pattern Recognition and Machine Intelligence PReMI 2015 held in Warsaw Poland in June July 2015 The total of 53 full papers and 1 short paper presented in this volume were carefully reviewed and selected from 90 submissions They were organized in topical sections named foundations of machine learning image processing image retrieval image tracking pattern recognition data mining techniques for large scale data fuzzy computing rough sets bioinformatics and applications of artificial intelligence **Workflows for e-Science** Ian J. Taylor,Ewa Deelman,Dennis B. Gannon,Matthew Shields,2007-12-31 This collection of articles on Work ows for e Science is very timely and portant Increasingly to attack the next generation of scienti c problems multidisciplinary and distributed teams of scientists need to collaborate to make progress on these new Grand Challenges Scientists now need to access and exploit computational resources and databases that are geographically distributed through theuseof high speed networks Virtual Organizations or VOs must be established that span multiple administrative domains and or institutions and which can provide appropriate authentication and author ation services and access controls to collaborating members Some of these VOsmayonlyhavea eetingexistencebutthelifetimeofothersmayrun into many years The Grid community is attempting to develop both sta ards and middleware to enable both scientists and industry to build such VOs routinely and robustly This of course has been the goal of research in distributed computing for many years but now these technologies come with a new twist service orie ation By specifying resources in terms of a service description rather than allowing direct access to the resources the IT industry believes that such an approach results in the construction of more robust distributed systems The industry has therefore united around web services as the standard technology toimplementsuchserviceorientedarchitecturesandtoensureinteroperability between di erent vendor systems

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