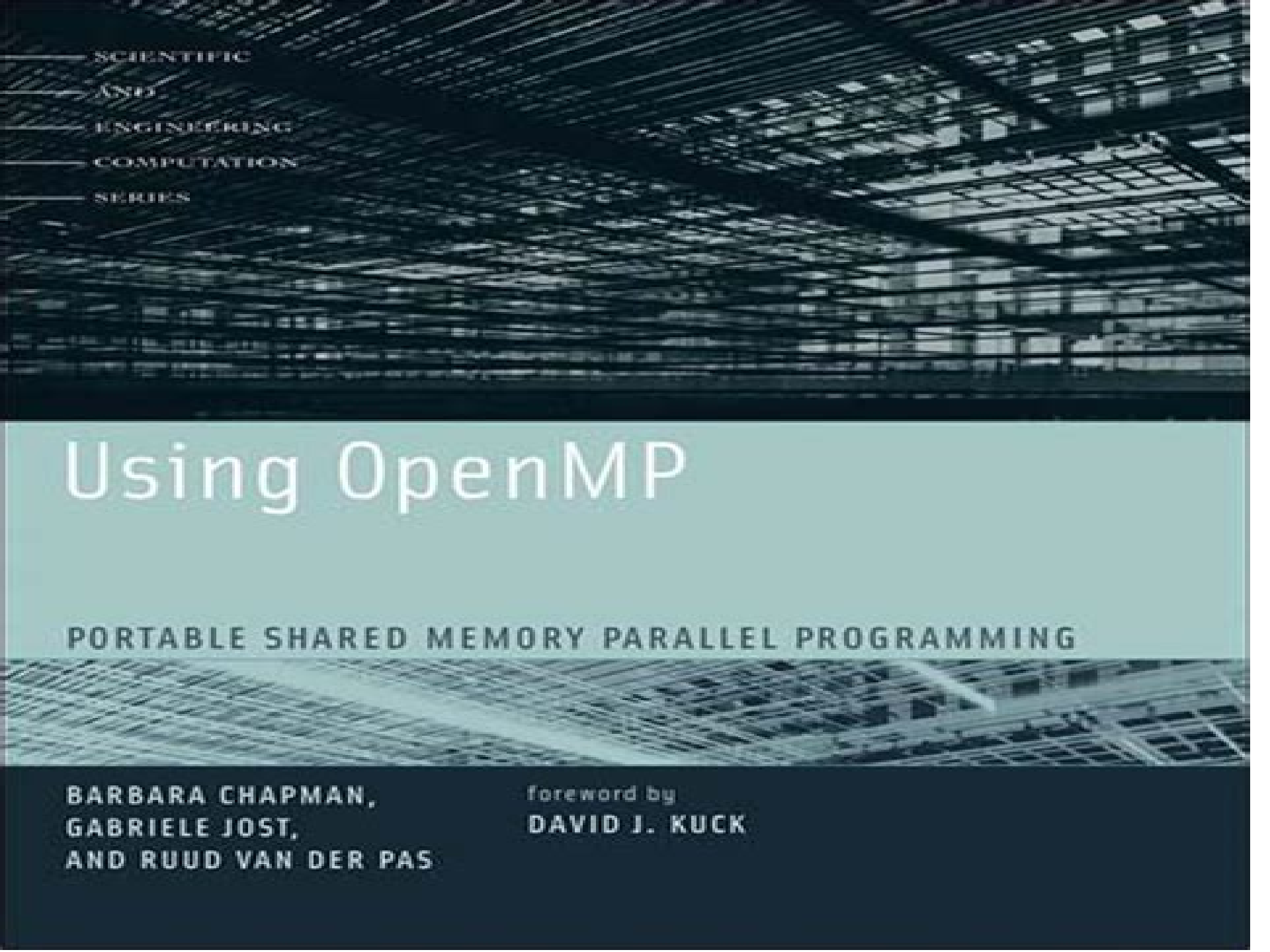




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Using OpenMP

PORTABLE SHARED MEMORY PARALLEL PROGRAMMING

BARBARA CHAPMAN,
GABRIELE JOST,
AND RUUD VAN DER PAS

foreword by
DAVID J. KUCK

Using Openmp Portable Shared Memory Parallel Programming

**Ruud Van Der Pas, Eric
Stotzer, Christian Terboven**



Using Openmp Portable Shared Memory Parallel Programming:

Using OpenMP Barbara Chapman, Gabriele Jost, Ruud Van Der Pas, 2007-10-12 A comprehensive overview of OpenMP the standard application programming interface for shared memory parallel computing a reference for students and professionals I hope that readers will learn to use the full expressibility and power of OpenMP This book should provide an excellent introduction to beginners and the performance section should help those with some experience who want to push OpenMP to its limits from the foreword by David J Kuck Intel Fellow Software and Solutions Group and Director Parallel and Distributed Solutions Intel Corporation OpenMP a portable programming interface for shared memory parallel computers was adopted as an informal standard in 1997 by computer scientists who wanted a unified model on which to base programs for shared memory systems OpenMP is now used by many software developers it offers significant advantages over both hand threading and MPI Using OpenMP offers a comprehensive introduction to parallel programming concepts and a detailed overview of OpenMP Using OpenMP discusses hardware developments describes where OpenMP is applicable and compares OpenMP to other programming interfaces for shared and distributed memory parallel architectures It introduces the individual features of OpenMP provides many source code examples that demonstrate the use and functionality of the language constructs and offers tips on writing an efficient OpenMP program It describes how to use OpenMP in full scale applications to achieve high performance on large scale architectures discussing several case studies in detail and offers in depth troubleshooting advice It explains how OpenMP is translated into explicitly multithreaded code providing a valuable behind the scenes account of OpenMP program performance Finally Using OpenMP considers trends likely to influence OpenMP development offering a glimpse of the possibilities of a future OpenMP 3.0 from the vantage point of the current OpenMP 2.5 With multicore computer use increasing the need for a comprehensive introduction and overview of the standard interface is clear Using OpenMP provides an essential reference not only for students at both undergraduate and graduate levels but also for professionals who intend to parallelize existing codes or develop new parallel programs for shared memory computer architectures

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OpenMP Shared Memory Parallel Programming Rudolf Eigenmann, 2001-07-18 This book constitutes the refereed proceedings of the International Workshop on OpenMP Applications and Tools WOMPAT 2001 held in West Lafayette IN USA in July 2001 The 15 full papers presented were carefully reviewed and revised for inclusion in the volume The book presents a state of the art overview on OpenMP shared memory parallel programming The papers are organized in topical sections on benchmarking compiler implementation and optimization tools and tool technology OpenMP

experience NUMA machines and clusters and OpenMP extensions Using OpenMP#The Next Step Ruud Van Der Pas,Eric Stotzer,Christian Terboven,2017-10-30 A guide to the most recent advanced features of the widely used OpenMP parallel programming model with coverage of major features in OpenMP 4.5 This book offers an up to date practical tutorial on advanced features in the widely used OpenMP parallel programming model Building on the previous volume Using OpenMP Portable Shared Memory Parallel Programming MIT Press this book goes beyond the fundamentals to focus on what has been changed and added to OpenMP since the 2.5 specifications It emphasizes four major and advanced areas thread affinity keeping threads close to their data accelerators special hardware to speed up certain operations tasking to parallelize algorithms with a less regular execution flow and SIMD hardware assisted operations on vectors As in the earlier volume the focus is on practical usage with major new features primarily introduced by example Examples are restricted to C and C++ but are straightforward enough to be understood by Fortran programmers After a brief recap of OpenMP 2.5 the book reviews enhancements introduced since 2.5 It then discusses in detail tasking a major functionality enhancement Non Uniform Memory Access NUMA architectures supported by OpenMP SIMD or Single Instruction Multiple Data heterogeneous systems a new parallel programming model to offload computation to accelerators and the expected further development of OpenMP

Languages and Compilers for Parallel Computing Călin Cașcaval,Pablo Montesinos,2014-09-30 This book constitutes the thoroughly refereed post conference proceedings of the 26th International Workshop on Languages and Compilers for Parallel Computing LCPC 2013 held in Tokyo Japan in September 2012 The 20 revised full papers and two keynote papers presented were carefully reviewed and selected from 44 submissions The focus of the papers is on following topics parallel programming models compiler analysis techniques parallel data structures and parallel execution models to GPGPU and other heterogeneous execution models code generation for power efficiency on mobile platforms and debugging and fault tolerance for parallel systems OpenMP: Portable Multi-Level Parallelism on Modern Systems Kent Milfeld,Bronis R. de

Supinski,Lars Koesterke,Jannis Klinkenberg,2020-09-01 This book constitutes the proceedings of the 16th International Workshop on OpenMP IWOMP 2020 held in Austin TX USA in September 2020 The conference was held virtually due to the COVID 19 pandemic The 21 full papers presented in this volume were carefully reviewed and selected for inclusion in this book The papers are organized in topical sections named performance methodologies applications OpenMP extensions performance studies tools NUMA compilation techniques heterogeneous computing and memory The chapters A Case Study on Addressing Complex Load Imbalance in OpenMP and A Study of Memory Anomalies in OpenMP Applications are available open access under a Creative Commons Attribution 4.0 License via link.springer.com **Recent Advances in Parallel**

Virtual Machine and Message Passing Interface Alexey Lastovetsky,Tahar Kechadi,Jack Dongarra,2008-08-28 This book constitutes the refereed proceedings of the 15th European PVM MPI Users Group Meeting held in Dublin Ireland in September 2008 The 29 revised full papers presented together with abstracts of 7 invited contributions 1 tutorial paper and

8 poster papers were carefully reviewed and selected from 55 submissions The papers are organized in topical sections on applications collective operations library internals message passing for multi core and multithreaded architectures MPI datatypes MPI I O synchronisation issues in point to point and one sided communications tools and verification of message passing programs The volume is rounded off with 4 contributions to the special ParSim session on current trends in numerical simulation for parallel engineering environments

Embedded Computing for High Performance João Manuel Paiva Cardoso, José Gabriel de Figueiredo Coutinho, Pedro C. Diniz, 2017-06-13 Embedded Computing for High Performance Design Exploration and Customization Using High level Compilation and Synthesis Tools provides a set of real life example implementations that migrate traditional desktop systems to embedded systems Working with popular hardware including Xilinx and ARM the book offers a comprehensive description of techniques for mapping computations expressed in programming languages such as C or MATLAB to high performance embedded architectures consisting of multiple CPUs GPUs and reconfigurable hardware FPGAs The authors demonstrate a domain specific language LARA that facilitates retargeting to multiple computing systems using the same source code In this way users can decouple original application code from transformed code and enhance productivity and program portability After reading this book engineers will understand the processes methodologies and best practices needed for the development of applications for high performance embedded computing systems Focuses on maximizing performance while managing energy consumption in embedded systems Explains how to retarget code for heterogeneous systems with GPUs and FPGAs Demonstrates a domain specific language that facilitates migrating and retargeting existing applications to modern systems Includes downloadable slides tools and tutorials

High Performance Embedded Computing Luis Miguel Pinho, Eduardo Quinones, Marko Bertogna, 2022-09-01 Nowadays the prevalence of computing systems in our lives is so ubiquitous that we live in a cyber physical world dominated by computer systems from pacemakers to cars and airplanes These systems demand for more computational performance to process large amounts of data from multiple data sources with guaranteed processing times Actuating outside of the required timing bounds may cause the failure of the system being vital for systems like planes cars business monitoring e trading etc High Performance and Time Predictable Embedded Computing presents recent advances in software architecture and tools to support such complex systems enabling the design of embedded computing devices which are able to deliver high performance whilst guaranteeing the application required timing bounds Technical topics discussed in the book include Parallel embedded platforms Programming models Mapping and scheduling of parallel computations Timing and schedulability analysis Runtimes and operating systems The work reflected in this book was done in the scope of the European project P SOCRATES funded under the FP7 framework program of the European Commission High performance and time predictable embedded computing is ideal for personnel in computer communication embedded industries as well as academic staff and master research students in computer science embedded systems cyber physical

systems and internet of things **Fundamentals of Multicore Software Development** Victor Pankratius, Ali-Reza Adl-Tabatabai, Walter Tichy, 2011-12-12 With multicore processors now in every computer server and embedded device the need for cost effective reliable parallel software has never been greater By explaining key aspects of multicore programming Fundamentals of Multicore Software Development helps software engineers understand parallel programming and master the multicore challenge *OpenMP Shared Memory Parallel Programming* Michael J. Voss, 2007-03-05 The refereed proceedings of the International Workshop on OpenMP Applications and Tools WOMPAT 2003 held in Toronto Canada in June 2003 The 20 revised full papers presented were carefully reviewed and selected for inclusion in the book The papers are organized in sections on tools and tool technology OpenMP implementations OpenMP experience and OpenMP on clusters *OpenMP Shared Memory Parallel Programming* Rudolf Eigenmann, Michael J. Voss, 2001-07-18 This book contains the presentations given at the Workshop on OpenMP Applications and Tools WOMPAT 2001 The workshop was held on July 30 and 31 2001 at Purdue University West Lafayette Indiana USA It brought together designers users and researchers of the OpenMP application programming interface OpenMP has emerged as the standard for shared memory parallel programming For the first time it is possible to write parallel programs that are portable across the majority of shared memory parallel computers WOMPAT 2001 served as a forum for all those interested in OpenMP and allowed them to meet share ideas and experiences and discuss the latest developments of OpenMP and its applications WOMPAT 2001 was co sponsored by the OpenMP Architecture Review Board ARB It followed a series of workshops on OpenMP including WOMPAT 2000 EWOMP 2000 and WOMPEI 2000 For WOMPAT 2001 we solicited papers formally and published them in the form of this book The authors submitted extended abstracts which were reviewed by the program committee All submitted papers were accepted The authors were asked to prepare a final paper in which they addressed the reviewers comments The proceedings in the form of this book were created in time to be available at the workshop In this way we hope to have brought out a timely report of ongoing OpenMP related research and development efforts as well as ideas for future improvements *Shared Memory Parallel Programming with Open MP* Barbara M. Chapman, 2005-01-25 This book contains the Proceedings of the 5th Workshop on OpenMP Applications and Tools WOMPAT 2004 which took place at the University of Houston Houston Texas on May 17 and 18 2004 Previous workshops in this series took place in Toronto Canada Fairbanks Alaska Purdue Indiana and San Diego California The purpose of the workshop was to bring together users and developers of the OpenMP API for shared memory parallel programming to disseminate their ideas and experiences and discuss the latest developments in OpenMP and its application To support this aim the program comprised a mixture of invited talks from research and industry experience reports and submitted papers the last of which are presented in this volume A tutorial introduction to OpenMP was held at the same location on May 18 by Ruud van der Pas from Sun Microsystems Further a two day lab session called OMPlab was held immediately following the workshop and the tutorial on May 19 and 20 and was attended by both novice and advanced

users Many of the hardware vendors and several researchers gave in depth tutorials on their software and made their systems available to both novice and advanced attendees during OMPlab Contributors to the WOMPAT 2004 OMPlab included IBM Intel Sun the University of Tennessee NASA the University of Greenwich Cornell University the University of Oregon and the University of Houston The OpenMP API is a widely accepted standard for high level shared memory parallel programming that was put forth by a consortium of vendors in 1997

Openmp Shared Memory Parallel Programming Michael J. Voss, 2014-01-15 **Parallel Combinatorial Optimization** El-Ghazali Talbi, 2006-10-13 This text provides an excellent balance of theory and application that enables you to deploy powerful algorithms frameworks and methodologies to solve complex optimization problems in a diverse range of industries Each chapter is written by leading experts in the fields of parallel and distributed optimization Collectively the contributions serve as a complete reference to the field of combinatorial optimization including details and findings of recent and ongoing investigations

Shared Memory Parallel Programming with Open MP Barbara M. Chapman, 2005-02-09 This book contains the Proceedings of the 5th Workshop on OpenMP Applications and Tools WOMPAT2004 which took place at the University of Houston Houston Texas on May 17 and 18 2004 Previous workshops in this series took place in Toronto Canada Fairbanks Alaska Purdue Indiana and San Diego California The purpose of the workshop was to bring together users and developers of the OpenMP API for shared memory parallel programming to disseminate their ideas and experiences and discuss the latest developments in OpenMP and its application To support this aim the program comprised a mixture of invited talks from research and industry experience reports and submitted papers the last of which are presented in this volume A tutorial introduction to OpenMP was held at the same location on May 18 by Ruud van der Pas from Sun Microsystems Further a two day lab session called OMPlab was held immediately following the workshop and the tutorial on May 19 and 20 and was attended by both novice and advanced users Many of the hardware vendors and several researchers gave in depth tutorials on their

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Parallelization of a Multigrid Incompressible Viscous Cavity Flow Solver Using OpenMP Kevin Roe, Institute for Computer Applications in Science and Engineering. (ICASE), 1999 Abstract We describe a multigrid scheme for solving the viscous incompressible driven cavity problem that has been parallelized using OpenMP The incremental parallelization allowed by OpenMP was of great help during the parallelization process Results show good parallel efficiencies for reasonable problem sizes on an SGI Origin 2000 Since OpenMP allowed us to specify the number of threads and in turn processors at runtime we were able to improve performance when solving on smaller coarser meshes This was accomplished by giving each processor a more reasonable amount of work rather than having many processors work on very small segments of the data and thereby adding significant overhead

Spaceflight Mechanics 2011, 2011

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