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R High Performance Programming

Overcome performance difficulties in R with a range of exciting techniques and solutions

Aloysius Lim William Tjhi

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R High Performance Programming

**Michela Taufer, Bernd Mohr, Julian M.
Kunkel**



R High Performance Programming:

R High Performance Programming Aloysius Lim, William Tjhi, 2015-01-29 This book is for programmers and developers who want to improve the performance of their R programs by making them run faster with large data sets or who are trying to solve a pesky performance problem

Intel Xeon Phi Coprocessor High Performance Programming James Jeffers, James Reinders, 2013-02-11 Authors Jim Jeffers and James Reinders spent two years helping educate customers about the prototype and pre production hardware before Intel introduced the first Intel Xeon Phi coprocessor They have distilled their own experiences coupled with insights from many expert customers Intel Field Engineers Application Engineers and Technical Consulting Engineers to create this authoritative first book on the essentials of programming for this new architecture and these new products This book is useful even before you ever touch a system with an Intel Xeon Phi coprocessor To ensure that your applications run at maximum efficiency the authors emphasize key techniques for programming any modern parallel computing system whether based on Intel Xeon processors Intel Xeon Phi coprocessors or other high performance microprocessors Applying these techniques will generally increase your program performance on any system and better prepare you for Intel Xeon Phi coprocessors and the Intel MIC architecture A practical guide to the essentials of the Intel Xeon Phi coprocessor Presents best practices for portable high performance computing and a familiar and proven threaded scalar vector programming model Includes simple but informative code examples that explain the unique aspects of this new highly parallel and high performance computational product Covers wide vectors many cores many threads and high bandwidth cache memory architecture

Mastering Parallel Programming with R Simon R. Chapple, Eilidh Troup, Thorsten Forster, Terence Sloan, 2016-05-31 Master the robust features of R parallel programming to accelerate your data science computations About This Book Create R programs that exploit the computational capability of your cloud platforms and computers to the fullest Become an expert in writing the most efficient and highest performance parallel algorithms in R Get to grips with the concept of parallelism to accelerate your existing R programs Who This Book Is For This book is for R programmers who want to step beyond its inherent single threaded and restricted memory limitations and learn how to implement highly accelerated and scalable algorithms that are a necessity for the performant processing of Big Data No previous knowledge of parallelism is required This book also provides for the more advanced technical programmer seeking to go beyond high level parallel frameworks What You Will Learn Create and structure efficient load balanced parallel computation in R using R's built in parallel package Deploy and utilize cloud based parallel infrastructure from R including launching a distributed computation on Hadoop running on Amazon Web Services AWS Get accustomed to parallel efficiency and apply simple techniques to benchmark measure speed and target improvement in your own code Develop complex parallel processing algorithms with the standard Message Passing Interface MPI using RMPI pbdMPI and SPRINT packages Build and extend a parallel R package SPRINT with your own MPI based routines Implement accelerated numerical

functions in R utilizing the vector processing capability of your Graphics Processing Unit GPU with OpenCL Understand parallel programming pitfalls such as deadlock and numerical instability and the approaches to handle and avoid them Build a task farm master worker spatial grid and hybrid parallel R programs In Detail R is one of the most popular programming languages used in data science Applying R to big data and complex analytic tasks requires the harnessing of scalable compute resources Mastering Parallel Programming with R presents a comprehensive and practical treatise on how to build highly scalable and efficient algorithms in R It will teach you a variety of parallelization techniques from simple use of R s built in parallel package versions of lapply to high level AWS cloud based Hadoop and Apache Spark frameworks It will also teach you low level scalable parallel programming using RMPI and pbdMPI for message passing applicable to clusters and supercomputers and how to exploit thousand fold simple processor GPUs through ROpenCL By the end of the book you will understand the factors that influence parallel efficiency including assessing code performance and implementing load balancing pitfalls to avoid including deadlock and numerical instability issues how to structure your code and data for the most appropriate type of parallelism for your problem domain and how to extract the maximum performance from your R code running on a variety of computer systems Style and approach This book leads you chapter by chapter from the easy to more complex forms of parallelism The author s insights are presented through clear practical examples applied to a range of different problems with comprehensive reference information for each of the R packages employed The book can be read from start to finish or by dipping in chapter by chapter as each chapter describes a specific parallel approach and technology so can be read as a standalone

Julia: High Performance Programming Ivo Balbaert,Avik Sengupta,Malcolm Sherrington,2016-11-28

Leverage the power of Julia to design and develop high performing programs About This Book Get to know the best techniques to create blazingly fast programs with Julia Stand out from the crowd by developing code that runs faster than your peers code Complete an extensive data science project through the entire cycle from ETL to analytics and data visualization Who This Book Is For This learning path is for data scientists and for all those who work in technical and scientific computation projects It will be great for Julia developers who are interested in high performance technical computing This learning path assumes that you already have some basic working knowledge of Julia s syntax and high level dynamic languages such as MATLAB R Python or Ruby What You Will Learn Set up your Julia environment to achieve the highest productivity Solve your tasks in a high level dynamic language and use types for your data only when needed Apply Julia to tackle problems concurrently and in a distributed environment Get a sense of the possibilities and limitations of Julia s performance Use Julia arrays to write high performance code Build a data science project through the entire cycle of ETL analytics and data visualization Display graphics and visualizations to carry out modeling and simulation in Julia Develop your own packages and contribute to the Julia Community In Detail In this learning path you will learn to use an interesting and dynamic programming language Julia You will get a chance to tackle your numerical and data problems with Julia You ll

begin the journey by setting up a running Julia platform before exploring its various built in types We ll then move on to the various functions and constructs in Julia We ll walk through the two important collection types arrays and matrices in Julia You will dive into how Julia uses type information to achieve its performance goals and how to use multiple dispatch to help the compiler emit high performance machine code You will see how Julia s design makes code fast and you ll see its distributed computing capabilities By the end of this learning path you will see how data works using simple statistics and analytics and you ll discover its high and dynamic performance its real strength which makes it particularly useful in highly intensive computing tasks This learning path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Getting Started with Julia by Ivo Balvaert Julia High Performance by Avik Sengupta Mastering Julia by Malcolm Sherrington Style and approach This hands on manual will give you great explanations of the important concepts related to Julia programming

High Performance Computing - HiPC 2000 Mateo Valero,Viktor K. Prasanna,Sriram Vajapeyam,2003-06-29 This book constitutes the refereed proceedings of the 7th International Conference on High Performance Computing HiPC 2000 held in Bangalore India in December 2000 The 46 revised papers presented together with five invited contributions were carefully reviewed and selected from a total of 127 submissions The papers are organized in topical sections on system software algorithms high performance middleware applications cluster computing architecture applied parallel processing networks wireless and mobile communication systems and large scale data mining

High Performance Computing Julian M. Kunkel,Rio Yokota,Michela Taufer,John Shalf,2017-10-18 This book constitutes revised selected papers from 10 workshops that were held as the ISC High Performance 2017 conference in Frankfurt Germany in June 2017 The 59 papers presented in this volume were carefully reviewed and selected for inclusion in this book They stem from the following workshops Workshop on Virtualization in High Performance Cloud Computing VHPC Visualization at Scale Deployment Case Studies and Experience Reports International Workshop on Performance Portable Programming Models for Accelerators P 3MA OpenPOWER for HPC IWOPH International Workshop on Data Reduction for Big Scientific Data DRBSD International Workshop on Communication Architectures for HPC Big Data Deep Learning and Clouds at Extreme Scale Workshop on HPC Computing in a Post Moore s Law World HCPM HPC I O in the Data Center HPC IODC Workshop on Performance and Scalability of Storage Systems WOPSSS IXPUG Experiences on Intel Knights Landing at the One Year Mark International Workshop on Communication Architectures for HPC Big Data Deep Learning and Clouds at Extreme Scale ExaComm

High Performance Computing Michela Taufer,Bernd Mohr,Julian M. Kunkel,2016-10-05 This book constitutes revised selected papers from 7 workshops that were held in conjunction with the ISC High Performance 2016 conference in Frankfurt Germany in June 2016 The 45 papers presented in this volume were carefully reviewed and selected for inclusion in this book They stem from the following workshops Workshop on Exascale Multi Many Core Computing Systems E MuCoCoS Second International Workshop on

Communication Architectures at Extreme Scale ExaComm HPC I O in the Data Center Workshop HPC IODC International Workshop on OpenPOWER for HPC IWOPH Workshop on the Application Performance on Intel Xeon Phi Being Prepared for KNL and Beyond IXPUG Workshop on Performance and Scalability of Storage Systems WOPSSS and International Workshop on Performance Portable Programming Models for Accelerators P3MA A Practical Approach to High-Performance Computing Sergei Kurgalin, Sergei Borzunov, 2019-11-10 The book discusses the fundamentals of high performance computing The authors combine visualization comprehensibility and strictness in their material presentation and thus influence the reader towards practical application and learning how to solve real computing problems They address both key approaches to programming modern computing systems multithreading based parallelizing in shared memory systems and applying message passing technologies in distributed systems The book is suitable for undergraduate and graduate students and for researchers and practitioners engaged with high performance computing systems Each chapter begins with a theoretical part where the relevant terminology is introduced along with the basic theoretical results and methods of parallel programming and concludes with a list of test questions and problems of varying difficulty The authors include many solutions and hints and often sample code *High-Performance Tensor Computations in Scientific Computing and Data*

Science Edoardo Angelo Di Napoli, Paolo Bientinesi, Jiajia Li, André Uschmajew, 2022-11-08 **High Performance Computing for Computational Science - VECPAR 2002** José M.L.M. Palma, 2003-04-07 This book constitutes the thoroughly refereed post proceedings of the 5th International Conference on High Performance Computing for Computational Science VECPAR 2002 held in Porto Portugal in June 2002 The 45 revised full papers presented together with 4 invited papers were carefully selected during two rounds of reviewing and improvement The papers are organized in topical sections on fluids and structures data mining computing in chemistry and biology problem solving environments computational linear and non linear algebra cluster computing imaging and software tools and environments

Supercomputing Vladimir Voevodin, Sergey Sobolev, Mikhail Yakobovskiy, Rashit Shagaliyev, 2022-12-15 This book constitutes the refereed proceedings of the 8th Russian Supercomputing Days on Supercomputing RuSCDays 2022 which took place in Moscow Russia in September 2022 The 49 full papers and 1 short paper presented in this volume were carefully reviewed and selected from 94 submissions The papers are organized in the following topical sections Supercomputer Simulation HPC BigData AI Architectures Technologies Tools Distributed and Cloud Computing **High Performance**

Algorithms and Software for Nonlinear Optimization Gianni Pillo, Amerigo Murli, 2013-12-01 This volume contains the edited texts of the lectures presented at the Workshop on High Performance Algorithms and Software for Nonlinear Optimization held in Erice Sicily at the G Stampacchia School of Mathematics of the E Majorana Centre for Scientific Culture June 30 July 8 2001 In the first year of the new century the aim of the Workshop was to assess the past and to discuss the future of Nonlinear Optimization and to highlight recent achievements and promising research trends in this field An

emphasis was requested on algorithmic and high performance software developments and on new computational experiences as well as on theoretical advances We believe that such goal was basically achieved The Workshop was attended by 71 people from 22 countries Although not all topics were covered the presentations gave indeed a wide overview of the field from different and complementary stand points Besides the lectures several formal and informal discussions took place We wish to express our appreciation for the active contribution of all the participants in the meeting The 18 papers included in this volume represent a significant selection of the most recent developments in nonlinear programming theory and practice They show that there is plenty of exciting ideas implementation issues and new applications which produce a very fast evolution in the field

Big Data Analytics for Cyber-Physical Systems Guido Dartmann,Houbing Herbert Song,Anke Schmeink,2019-07-16 Approx 374 pages Energy Research Abstracts ,1995 *Scientific Computing in Object-Oriented Parallel Environments* Yutaka Ishikawa,1997-11-19 Content Description Includes bibliographical references and index

Algorithms and Architectures for Parallel Processing Arrems Hua,Shih-Liang Chang,2009-07-10 This book constitutes the refereed proceedings of the 9th International Conference on Algorithms and Architectures for Parallel Processing ICA3PP 2009 held in Taipei Taiwan in June 2009 The 80 revised full papers were carefully reviewed and selected from 243 submissions The papers are organized in topical sections on bioinformatics in parallel computing cluster grid and fault tolerant computing cluster distributed parallel operating systems dependability issues in computer networks and communications dependability issues in distributed and parallel systems distributed scheduling and load balancing industrial applications information security internet multi core programming software tools multimedia in parallel computing parallel distributed databases parallel algorithms parallel architectures parallel IO systems and storage systems performance of parallel ditributed computing systems scientific applications self healing self protecting and fault tolerant systems tools and environments for parallel and distributed software development and Web service *Pattern Recognition and Information Processing* Alexander V. Tuzikov,Alexei M. Belotserkovsky,Marina M. Lukashevich,2022-03-17 This book constitutes the refereed proceedings of the 15th International Conference on Pattern Recognition and Information Processing PRIP 2021 held in Minsk Belarus in September 2021 Due to the COVID 19 pandemic the conference was held online The 17 revised full papers were carefully reviewed and selected from 90 submissions The papers present a discussion on theoretical and applied aspects of computer vision recognition of signals and images the use of distributed resources and high performance systems

Encyclopedia of Parallel Computing David Padua,2011-09-08 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

User-Defined Tensor Data Analysis Bin Dong,Kesheng Wu,Suren Byna,2021-09-29 The SpringerBrief introduces FasTensor a powerful parallel data programming model developed for big data applications This book also provides a user s guide for installing and using FasTensor FasTensor enables users to easily express many data analysis operations which may come from neural networks scientific computing or queries from traditional database management systems DBMS FasTensor frees users from all underlying and tedious data management tasks such as data partitioning communication and parallel execution This SpringerBrief gives a high level overview of the state of the art in parallel data programming model and a motivation for the design of FasTensor It illustrates the FasTensor application programming interface API with an abundance of examples and two real use cases from cutting edge scientific applications FasTensor can achieve multiple orders of magnitude speedup over Spark and other peer systems in executing big data analysis operations FasTensor makes programming for data analysis operations at large scale on supercomputers as productively and efficiently as possible A complete reference of FasTensor includes its theoretical foundations C implementation and usage in applications Scientists in domains such as physical and geosciences who analyze large amounts of data will want to purchase this SpringerBrief Data engineers who design and develop data analysis software and data scientists and who use Spark or TensorFlow to perform data analyses such as training a deep neural network will also find this SpringerBrief useful as a reference tool

Performance Tuning of Scientific Applications David H. Bailey,Robert F. Lucas,Samuel Williams,2010-11-23 With contributions from some of the most notable experts in the field Performance Tuning of Scientific Applications presents current research in performance analysis The book focuses on the following areas Performance monitoring Describes the state of the art in hardware and software tools that are commonly used for monitoring

and measuring perf

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