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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

David Kirk



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

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 speedup through 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

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

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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 P3MA 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

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

Big Data Analytics for Cyber-Physical Systems Guido Dartmann,Houbing Herbert Song,Anke Schmeink,2019-07-16 Approx 374 pages *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

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

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

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