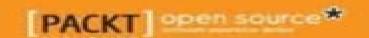


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R High Performance Programming

David Kirk

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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 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

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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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