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# Mastering Parallel Programming with R

Master the robust features of R parallel programming to accelerate your data science computations



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# Mastering Parallel Programming With R

**SB Merriam**



## **Mastering Parallel Programming With R:**

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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

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This book offers experts on programming and applications for commodity supercomputers It is organized into three areas programming environments and development tools Java for high performance computing and algorithms and applications These three areas have seen major advances in recent years and this book addresses these subjects with breadth and depth For developers researchers administrators managers and users interested in the future of computing **Forthcoming Books** Rose Army,1997 **The British National Bibliography** Arthur James Wells,2002 *Programming and Customizing PICmicro (R) Microcontrollers* Myke Predko,2000-12-25 This book is a fully updated and revised compendium of PIC programming information Comprehensive coverage of the PICMicros hardware architecture and software schemes will complement the host of experiments and projects making this a true Learn as you go tutorial New sections on basic electronics and basic programming have been added for less sophisticated users along with 10 new projects and 20 new experiments New pedagogical features have also been added such as Programmers Tips and Hardware Fast FAQs Key Features Printed Circuit Board for a PICMicro programmer included with the book This programmer will have the capability to program all the PICMicros used by the application Twice as many projects including a PICMicro based Webserver Twenty new Experiments to help the user better understand how the PICMicro works An introduction to Electronics and Programming in the Appendices along with engineering formulas and PICMicro web references **Index to IEEE Publications** Institute of Electrical and Electronics Engineers,1997 **Proceedings** ,2005 Arts & Humanities Citation Index ,1992 A multidisciplinary index covering the journal literature of the arts and humanities It fully covers 1 144 of the world s leading arts and humanities journals and it indexes individually selected relevant items from over 6 800 major science and social science journals Sigcse 98 John Lewis,1998 **Proceedings of the Twenty-ninth SIGCSE Technical Symposium on Computer Science Education** John Lewis,1998 Video Source Book Gale Group,1999-10-28 A guide to programs currently available on video in the areas of movies entertainment general interest education sports recreation fine arts health science business industry children juvenile how to instruction **Cumulative Book Index** ,1998 A world list of books in the English language **Books in Print** ,1993-09 V 1 Authors A D v 2 Authors E K v 3 Authors L R v 4 S Z v 5 Titles A D v 6 Titles E K v 7 Titles L Q v 8 Titles R Z v 9 Out of print out of stock indefinitely v 10 Publishers Predicasts Technology Update ,1990 *Industrial Robotics, Machine Vision, and Artificial Intelligence* Ken Stonecipher,1989

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