



Technical Editor:
Marcin Paprzycki
Dept. of Computer Science
and Statistics
Univ. of Southern Mississippi
Southern Station 3506
Hattiesburg, MS 39406-1506
m.paprzycki@usm.edu

Using Plapack: Parallel Linear Algebra Package
Robert A. Van de Geijn
225 pages
\$30.00
MIT Press
Cambridge, Mass.
1997
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Book Reviews

Using Plapack: A solid part of the Scientific and Engineering Computation series

By Roman Wyrzykowski, Technical University of Czestochowa

The dominant cost in most large-scale computational science applications comes from writing new code. A pragmatic approach to overcoming this difficulty is to create an application-specific package (or library)—a software system that provides a coding interface to solve a target class of problems without focusing on implementation details. This approach originates from the era of sequential computers but has become especially popular for parallel machines, because their low-level programming was (and still is) a formidable task.

The library-based approach to programming parallel computers is especially widespread in computational linear algebra. Numerous parallel linear algebra packages exist, all differing in their orientation (a shared or distributed memory model of parallel programming), functionality (using direct or iterative methods, solving linear systems or eigenvalue problems), exploitation of sparsity of data, availability of support for using linear algebra methods in solving real-life problems, and so forth. Among these packages are Lapack and Scalapack, Plapack, Artec, PPARSLIB, PETSc, BlockSolve, and Parpack.

Using Plapack: Parallel Linear Algebra Package is part of the MIT Press's renowned *Scientific and Engineering Computation* series. The series includes such well-known publications as *Using MPI: Parallel Programming with the Message-Passing Interface* by William Gropp, Ewing Lusk, and Anthony Skjellum (1994) and *PVM: Parallel Virtual Machine*, by Al Geist, Adam Beguelin, Jack Dongarra, Weicheng Jiang, Robert Manchek, and Vaidy Sunderam (1994), both of which have played an impor-

tant role in the dissemination of the message-passing parallel-programming model. Van de Geijn's book follows the pattern established by these successful publications.

HOW TO BUILD AND USE PLAPACK

Van de Geijn's goal is to deliver the principles for building and using Plapack. This portable parallel linear-algebra library, developed at the University of Texas in Austin, is based on the MPI. However, thanks to object-based programming, Plapack hides many particulars from the user, such as indexing and the implementation details of data distribution and exchange.

Chapter 1 offers the most significant information, concisely summarizing Plapack's main ideas. It starts with the recursive formulation of the Cholesky factorization, and this simple example shows what programmers need to code parallel linear-algebra algorithms. The next four chapters—of which two and five are the most important—contain a guide to the basic routines of the Plapack infrastructure. Chapter 2 acquaints the reader with the routines Plapack provides. These routines initialize the environment, create a template describing the distribution of vectors and matrices among a logical topology of nodes, and create linear algebra objects that encapsulate the distributed vectors and matrices. Chapter 3 details the copy and reduce operations that Plapack uses to hide communication. Chapters 4 through 8 discuss the implementation of routines contained in the *Basic Linear Algebra Subprograms* library. Their contents are structured in accordance with the

Using Plapack Scientific And Engineering Computation

**Katrin Bergener, Michael
Räckers, Armin Stein**



Using Plapack Scientific And Engineering Computation:

Using PLAPACK--parallel Linear Algebra Package Robert A. Van de Geijn,1997 This book is a comprehensive introduction to all the components of a high performance parallel linear algebra library as well as a guide to the PLAPACK infrastructure PLAPACK is a library infrastructure for the parallel implementation of linear algebra algorithms and applications on distributed memory supercomputers such as the Intel Paragon IBM SP2 Cray T3D T3E SGI PowerChallenge and Convex Exemplar This infrastructure allows library developers scientists and engineers to exploit a natural approach to encoding so called blocked algorithms which achieve high performance by operating on submatrices and subvectors This feature as well as the use of an alternative more application centric approach to data distribution sets PLAPACK apart from other parallel linear algebra libraries allowing for strong performance and significantly less programming by the user This book is a comprehensive introduction to all the components of a high performance parallel linear algebra library as well as a guide to the PLAPACK infrastructure Scientific and Engineering Computation series Parallel Scientific Computation Rob H. Bisseling,2004-03-04 This is the first text explaining how to use the bulk synchronous parallel BSP model and the freely available BSPlib communication library in parallel algorithm design and parallel programming Aimed at graduate students and researchers in mathematics physics and computer science the main topics treated in the book are core topics in the area of scientific computation and many additional topics are treated in numerous exercises An appendix on the message passing interface MPI discusses how to program using the MPI communication library MPI equivalents of all the programs are also presented The main topics treated in the book are core in the area of scientific computation solving dense linear systems by Gaussian elimination computing fast Fourier transforms and solving sparse linear systems by iterative methods Each topic is treated in depth starting from the problem formulation and a sequential algorithm through a parallel algorithm and its analysis to a complete parallel program written in C and BSPlib and experimental results obtained using this program on a parallel computer Additional topics treated in the exercises include data compression random number generation cryptography eigensystem solving 3D and Strassen matrix multiplication wavelets and image compression fast cosine transform decimals of pi simulated annealing and molecular dynamics The book contains five small but complete example programs written in BSPlib which illustrate the methods taught The appendix on MPI discusses how to program in a structured bulk synchronous parallel style using the MPI communication library It presents MPI equivalents of all the programs in the book The complete programs of the book and their driver programs are freely available online in the packages BSPedupack and MPIedupack

Handbook of Parallel Computing and Statistics Erricos John Kontoghiorghes,2005-12-21 Technological improvements continue to push back the frontier of processor speed in modern computers Unfortunately the computational intensity demanded by modern research problems grows even faster Parallel computing has emerged as the most successful bridge to this computational gap and many popular solutions have emerged

based on its concepts

Cloud Computing for Science and Engineering Ian Foster, Dennis B. Gannon, 2017-09-29 A guide to cloud computing for students scientists and engineers with advice and many hands on examples The emergence of powerful always on cloud utilities has transformed how consumers interact with information technology enabling video streaming intelligent personal assistants and the sharing of content Businesses too have benefited from the cloud outsourcing much of their information technology to cloud services Science however has not fully exploited the advantages of the cloud Could scientific discovery be accelerated if mundane chores were automated and outsourced to the cloud Leading computer scientists Ian Foster and Dennis Gannon argue that it can and in this book offer a guide to cloud computing for students scientists and engineers with advice and many hands on examples The book surveys the technology that underpins the cloud new approaches to technical problems enabled by the cloud and the concepts required to integrate cloud services into scientific work It covers managing data in the cloud and how to program these services computing in the cloud from deploying single virtual machines or containers to supporting basic interactive science experiments to gathering clusters of machines to do data analytics using the cloud as a platform for automating analysis procedures machine learning and analyzing streaming data building your own cloud with open source software and cloud security The book is accompanied by a website Cloud4SciEng.org that provides a variety of supplementary material including exercises lecture slides and other resources helpful to readers and instructors

High Performance Computing in Science and Engineering '98 Egon Krause, Willi Jäger, 2012-12-06 The book contains reports about the most significant projects from science and industry that are using the supercomputers of the Federal High Performance Computing Center Stuttgart HLRS These projects are from different scientific disciplines with a focus on engineering physics and chemistry They were carefully selected in a peer review process and are showcases for an innovative combination of state of the art physical modeling novel algorithms and the use of leading edge parallel computer technology As HLRS is in close cooperation with industrial companies special emphasis has been put on the industrial relevance of results and methods

Using MPI William Gropp, Ewing Lusk, Anthony Skjellum, 1999 The authors introduce the core function of the Message Passing Interface MPI This edition adds material on the C and Fortran 90 binding for MPI

The Art of Structuring Katrin Bergener, Michael Räckers, Armin Stein, 2019-01-25 Structuring or as it is referred to in the title of this book the art of structuring is one of the core elements in the discipline of Information Systems While the world is becoming increasingly complex and a growing number of disciplines are evolving to help make it a better place structure is what is needed in order to understand and combine the various perspectives and approaches involved Structure is the essential component that allows us to bridge the gaps between these different worlds and offers a medium for communication and exchange The contributions in this book build these bridges which are vital in order to communicate between different worlds of thought and methodology be it between Information Systems IS research and practice or between IS research and other research disciplines They describe how structuring can

be and should be done so as to foster communication and collaboration The topics covered reflect various layers of structure that can serve as bridges models processes data organizations and technologies In turn these aspects are complemented by visionary outlooks on how structure influences the field

Domain-Specific Program Generation Christian Lengauer,2004-05-24 Program generation holds the promise of helping to bridge the gap between application level problem solutions and efficient implementations at the level of today s source programs as written in C or Java Thus program generation can substantially contribute to reducing production cost and time to market in future software production while improving the quality and stability of the product This book is about domain specific program generation it is the outcome of a Dagstuhl seminar on the topic held in March 2003 After an introductory preface by the volume editors the 18 carefully reviewed revised full papers presented are organized into topical sections on surveys of domain specific programming technologies domain specific programming languages tool support for program generation domain specific techniques for program optimization

Scientific Programming and Computer Architecture Divakar Viswanath,2017-07-28 A variety of programming models relevant to scientists explained with an emphasis on how programming constructs map to parts of the computer What makes computer programs fast or slow To answer this question we have to get behind the abstractions of programming languages and look at how a computer really works This book examines and explains a variety of scientific programming models programming models relevant to scientists with an emphasis on how programming constructs map to different parts of the computer s architecture Two themes emerge program speed and program modularity Throughout this book the premise is to get under the hood and the discussion is tied to specific programs The book digs into linkers compilers operating systems and computer architecture to understand how the different parts of the computer interact with programs It begins with a review of C C and explanations of how libraries linkers and Makefiles work Programming models covered include Pthreads OpenMP MPI TCP IP and CUDA The emphasis on how computers work leads the reader into computer architecture and occasionally into the operating system kernel The operating system studied is Linux the preferred platform for scientific computing Linux is also open source which allows users to peer into its inner workings A brief appendix provides a useful table of machines used to time programs The book s website https://github.com/divakarvi/bk_sPCA has all the programs described in the book as well as a link to the html text

Models, Mindsets, Meta: The What, the How, and the Why Not? Tiziana Margaria,Susanne Graf,Kim G. Larsen,2019-06-25 This Festschrift volume is published in honor of Bernhard Steffen Professor at the Technical University of Dortmund on the occasion of his 60th birthday His vision as well as his theoretical and practical work span the development and implementation of novel specific algorithms and the establishment of cross community relationships with the effect to obtain simpler yet more powerful solutions He initiated many new lines of research through seminal papers that pioneered various fields starting with the Concurrency Workbench a model checking toolbox that significantly influenced the research and development of mode based high assurance systems

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