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Using Plapack: Parallel Linear Algebra Package

Robert A. Van de Geijn
225 pages
\$30.00
MIT Press
Cambridge, Mass.
1997
ISBN 0262772024

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 (solving 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 *PVTM: 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

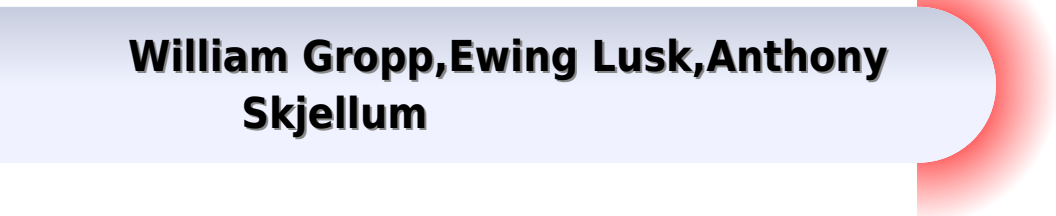
Book Reviews

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

By Roman Wyrzykowski, Technical University of Cracow

Using Plapack Scientific And Engineering Computation

**William Gropp, Ewing Lusk, Anthony
Skjellum**



Using Plapack Scientific And Engineering Computation:

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 MPIdupack

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

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

Beowulf Cluster Computing with Linux Thomas Lawrence Sterling, 2002 Enabling technologies An overview of cluster computing Thomas Sterling Node Hardware Thomas Sterling Linux Peter H Beckman Network Hardware Thomas Sterling Network Software Thomas Sterling Setting Up clusters installation and configuration How fast is my beowulf David Bailey Parallel programming Parallel programming with MPI William Gropp Advanced topics in MPI

programming William Gropp Parallel programming with PVM Al Geist Fault tolerant and adaptive programs with PVM Al Geist Managing clusters Cluster workload management James Patton Jones Condor a distributed job scheduler Maui scheduler A multifunction cluster scheduler David B Jackson PBS portable batch system James Patton Jones PVFS parallel virtual file system Walt Ligon Chiba city the Argonne scalable cluster

Using Advanced MPI William Gropp, Torsten Hoeft, Rajeev Thakur, Ewing Lusk, 2014-11-07 A guide to advanced features of MPI reflecting the latest version of the MPI standard that takes an example driven tutorial approach This book offers a practical guide to the advanced features of the MPI Message Passing Interface standard library for writing programs for parallel computers It covers new features added in MPI 3 the latest version of the MPI standard and updates from MPI 2 Like its companion volume *Using MPI* the book takes an informal example driven tutorial approach The material in each chapter is organized according to the complexity of the programs used as examples starting with the simplest example and moving to more complex ones *Using Advanced MPI* covers major changes in MPI 3 including changes to remote memory access and one sided communication that simplify semantics and enable better performance on modern hardware new features such as nonblocking and neighborhood collectives for greater scalability on large systems and minor updates to parallel I/O and dynamic processes It also covers support for hybrid shared memory message passing programming MPI_Message which aids in certain types of multithreaded programming features that handle very large data an interface that allows the programmer and the developer to access performance data and a new binding of MPI to Fortran

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 and Distributed Computing** Claudia Leopold, 2001 An all inclusive survey of the fundamentals of parallel and distributed computing The use of parallel and distributed computing has increased dramatically over the past few years giving rise to a variety of projects implementations and buzzwords surrounding the subject Although the areas of parallel and distributed computing have traditionally evolved separately these models have overlapping goals and characteristics *Parallel and Distributed Computing* surveys the models and paradigms in this

converging area of parallel and distributed computing and considers the diverse approaches within a common text Covering a comprehensive set of models and paradigms the material also skims lightly over more specific details and serves as both an introduction and a survey Novice readers will be able to quickly grasp a balanced overview with the review of central concepts problems and ideas while the more experienced researcher will appreciate the specific comparisons between models the coherency of the parallel and distributed computing field and the discussion of less well known proposals Other topics covered include Data parallelism Shared memory programming Message passing Client server computing Code mobility Coordination object oriented high level and abstract models And much more Parallel and Distributed Computing is a perfect tool for students and can be used as a foundation for parallel and distributed computing courses Application developers will find this book helpful to get an overview before choosing a particular programming style to study in depth and researchers and programmers will appreciate the wealth of information concerning the various areas of parallel and distributed computing

13th International Parallel Processing Symposium & 10th Symposium on Parallel and Distributed Processing IEEE Computer Society. Technical Committee on Parallel Processing, IEEE Computer Society, 1999 Contains 113 papers presented at the April 1999 meetings Arrangement is in 21 sections covering such topics as algorithmic paradigms and primitives latency tolerance and performance modeling communication run time systems scalable computing communication and protocols for clusters communication libraries routing and broadcasting miscellaneous architecture advanced software for applications support scientific engineering systems signal processing data mining and databases and biological and discrete systems Also included are abstracts of the panel discussions and the two keynote addresses from each of the symposiums No subject index Annotation copyrighted by Book News Inc Portland OR

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Proceedings of the 2nd Conference on Domain-Specific Languages (DSL '99) ,2000 ACM SIGPLAN Notices ,2000

Adopting the Tune of Expression: An Psychological Symphony within **Using Plapack Scientific And Engineering Computation**

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