

# ScaLAPACK Users' Guide

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# Scalapack Users Guide

**Jacek Blazewicz, Klaus Ecker, Brigitte  
Plateau, Denis Trystram**



## Scalapack Users Guide:

*ScaLAPACK Users' Guide* L. S. Blackford, J. Choi, A. Cleary, E. D'Azevedo, J. Demmel, I. Dhillon, J. Dongarra, S. Hammarling, G. Henry, A. Petitet, K. Stanley, D. Walker, R. C. Whaley, 1997-01-01 ScaLAPACK is an acronym for Scalable Linear Algebra Package or Scalable LAPACK It is a library of high performance linear algebra routines for distributed memory message passing MIMD computers and networks of workstations supporting parallel virtual machine PVM and or message passing interface MPI It is a continuation of the LAPACK project which designed and produced analogous software for workstations vector supercomputers and shared memory parallel computers Both libraries contain routines for solving systems of linear equations least squares problems and eigenvalue problems The goals of both projects are efficiency scalability reliability portability flexibility and ease of use ScaLAPACK Users' Guide L. S. Blackford, 1997-01-01

ScaLAPACK is an acronym for Scalable Linear Algebra Package or Scalable LAPACK It is a library of high performance linear algebra routines for distributed memory message passing MIMD computers and networks of workstations supporting parallel virtual machine PVM and or message passing interface MPI It is a continuation of the LAPACK project which designed and produced analogous software for workstations vector supercomputers and shared memory parallel computers Both libraries contain routines for solving systems of linear equations least squares problems and eigenvalue problems The goals of both projects are efficiency scalability reliability portability flexibility and ease of use ScaLAPACK includes routines for the solution of dense band and tridiagonal linear systems of equations condition estimation and iterative refinement for LU and Cholesky factorization matrix inversion full rank linear least squares problems orthogonal and generalized orthogonal factorizations orthogonal transformation routines reductions to upper Hessenberg bidiagonal and tridiagonal form reduction of a symmetric definite Hermitian definite generalized eigenproblem to standard form the symmetric Hermitian generalized symmetric Hermitian and nonsymmetric eigenproblem and the singular value decomposition Prototype codes are provided for out of core linear solvers for LU Cholesky and QR the matrix sign function for eigenproblems an HPF interface to a subset of ScaLAPACK routines and SuperLU Software is available in single precision real double precision real single precision complex and double precision complex The software has been written to be portable across a wide range of distributed memory environments such as the Cray T3 IBM SP Intel series TM CM 5 networks of workstations and any system for which PVM or MPI is available Each Users Guide includes a CD ROM containing the HTML version of the ScaLAPACK Users Guide the source code for ScaLAPACK and LAPACK testing and timing programs prebuilt versions of the library for a number of computers example programs and the full set of LAPACK Working Notes ScaLAPACK User's Guide L. S. Blackford, 1997

Accompanying CD ROM includes HTML version of the ScaLAPACK User's Guide the source code for the package testing and timing programs prebuilt versions of the library for a number of computers example programs and the full set of LAPACK working notes LAPACK Users' Guide E. Anderson, Z. Bai, C. Bischof, S. Blackford, J. Dongarra, J. Du Croz, A. Greenbaum, S.

Hammarling,A. McKenney,D. Sorensen,1999-01-01 LAPACK is a library of numerical linear algebra subroutines designed for high performance on workstations vector computers and shared memory multiprocessors Release 3.0 of LAPACK introduces new routines and extends the functionality of existing routines      **Applied Parallel Computing** Jack Dongarra,Kaj Madsen,Jerzy Wasniewski,2006-02-27 This book constitutes the refereed proceedings of the 7th International Conference on Applied Parallel Computing PARA 2004 held in June 2004 The 118 revised full papers presented together with five invited lectures and 15 contributed talks were carefully reviewed and selected for inclusion in the proceedings The papers are organized in topical sections      A Tutorial on Elliptic PDE Solvers and Their Parallelization Craig C. Douglas,Gundolf Haase,Ulrich Langer,2003-01-01 A Tutorial on Elliptic PDE Solvers and Their Parallelization is a valuable aid for learning about the possible errors and bottlenecks in parallel computing One of the highlights of the tutorial is that the course material can run on a laptop not just on a parallel computer or cluster of PCs thus allowing readers to experience their first successes in parallel computing in a relatively short amount of time This tutorial is intended for advanced undergraduate and graduate students in computational sciences and engineering however it may also be helpful to professionals who use PDE based parallel computer simulations in the field      *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      **The Science of Computer Benchmarking** Roger W. Hockney,1996-01-01 This book provides an introduction to computer benchmarking Hockney includes material concerned with the definition of performance parameters and metrics and defines a set of suitable metrics with which to measure performance and units with which to express them He also presents new ideas resulting from the application of dimensional analysis to the field of computer benchmarking This results in the definition of a dimensionless universal scaling diagram that completely describes the scaling properties of a class of computer benchmarks on a single diagram for all problem sizes and all computers describable by a defined set of hardware parameters      **Computational Science and Its Applications - ICCSA 2011** Beniamino Murgante,Osvaldo Gervasi,Andres Iglesias,David Taniar,Bernady O. Apduhan,2011-06-15 The five volume set LNCS 6782 6786 constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications ICCSA 2011 held in Santander Spain in June 2011 The five volumes contain papers presenting a wealth of original research results in the field of computational science from foundational issues in computer science and mathematics to advanced applications in virtually all sciences making use of computational techniques The topics of the fully refereed papers are structured according to the five major conference themes geographical analysis urban modeling spatial statistics cities technologies and planning computational geometry and applications computer aided modeling simulation and analysis and mobile communications

A Software Repository for Orthogonal Polynomials Walter Gautschi, 2018-03-20 A Software Repository for Orthogonal Polynomials is the first book that provides graphs and references to online datasets that enable the generation of a large number of orthogonal polynomials with classical quasi classical and nonclassical weight functions Useful numerical tables are also included The book will be of interest to scientists engineers applied mathematicians and statisticians **High Performance Computing - HiPC 2006** Yves L. Robert, Manish Parashar, Ramamurthy Badrinath, Viktor K. Prasanna, 2006-12-18 This book constitutes the refereed proceedings of the 13th International Conference on High Performance Computing HiPC 2006 held in Bangalore India December 2006 Coverage in this volume includes scheduling and load balancing network and distributed algorithms application software network services ad hoc networks systems software sensor networks and performance evaluation as well as routing and data management algorithms **Euro-Par 2005 Parallel Processing** José C. Cunha, Pedro D. Medeiros, 2005-08-25 Euro Par 2005 was the eleventh conference in the Euro Par series It was organized by the Centre for Informatics and Information Technology CITI and the Department of Informatics of the Faculty of Science and Technology of Universidade Nova de Lisboa at the Campus of Monte de Caparica **The Lanczos Method** Louis Komzsik, 2003-01-01 A valuable reference on the Lanczos method for graduate numerical analysts and engineers **Applied Parallel Computing. New Paradigms for HPC in Industry and Academia** Tor Sorevik, Fredrik Manne, Randi Moe, Assefaw H. Gebremedhin, 2003-06-29 The papers in this volume were presented at PARA 2000 the Fifth International Workshop on Applied Parallel Computing PARA 2000 was held in Bergen Norway June 18 21 2000 The workshop was organized by Parallab and the Department of Informatics at the University of Bergen The general theme for PARA 2000 was New paradigms for HPC in industry and academia focusing on High performance computing applications in academia and industry The use of Java in high performance computing Grid and Meta computing Directions in high performance computing and networking Education in Computational Science The workshop included 9 invited presentations and 39 contributed presentations The PARA 2000 meeting began with a one day tutorial on OpenMP programming led by Timothy Mattson This was followed by a three day workshop The first three PARA workshops were held at the Technical University of Denmark DTU Lyngby 1994 1995 and 1996 Following PARA 96 an international steering committee for the PARA meetings was appointed and the committee decided that a workshop should take place every second year in one of the Nordic countries The 1998 workshop was held at Umeå University Sweden One important aim of these workshops is to strengthen the ties between HPC centers academia and industry in the Nordic countries as well as worldwide The University of Bergen organized the 2000 workshop and the next workshop in the year 2002 will take place at the Helsinki University of Technology Espoo Finland Euro-Par 2001 Parallel Processing Rizos Sakellariou, John Keane, John Gurd, Len Freeman, 2003-06-30 Euro Par the European Conference on Parallel Computing is an international conference series dedicated to the promotion and advancement of all aspects of parallel computing The major themes can be divided into the broad categories of hardware

software algorithms and applications for parallel computing The objective of Euro Par is to provide a forum within which to promote the development of parallel computing both as an industrial technique and an academic discipline extending the frontiers of both the state of the art and the state of the practice This is particularly important at a time when parallel computing is undergoing strong and sustained development and experiencing real industrial take up The main audience for and participants in Euro Par are seen as researchers in academic departments government laboratories and industrial organisations Euro Par aims to become the primary choice of such professionals for the presentation of new results in their specific areas Euro Par is also interested in applications that demonstrate the effectiveness of the main Euro Par themes Euro Par has its own Internet domain with a permanent web site where the history of the conference series is described <http://www.euro-par.org> The Euro Par conference series is sponsored by the Association of Computer Machinery and the International Federation of Information Processing Euro Par 2001 Euro Par 2001 was organised by the University of Manchester and UMIST

*Handbook of Parallel Computing* Sanguthevar Rajasekaran, John Reif, 2007-12-20 The ability of parallel computing to process large data sets and handle time consuming operations has resulted in unprecedented advances in biological and scientific computing modeling and simulations Exploring these recent developments the *Handbook of Parallel Computing Models Algorithms and Applications* provides comprehensive coverage on a

**The Architecture of Scientific Software** Ronald F. Boisvert, Ping Tak Peter Tang, 2013-04-17 Scientific applications involve very large computations that strain the resources of whatever computers are available Such computations implement sophisticated mathematics require deep scientific knowledge depend on subtle interplay of different approximations and may be subject to instabilities and sensitivity to external input Software able to succeed in this domain invariably embeds significant domain knowledge that should be tapped for future use Unfortunately most existing scientific software is designed in an ad hoc way resulting in monolithic codes understood by only a few developers Software architecture refers to the way software is structured to promote objectives such as reusability maintainability extensibility and feasibility of independent implementation Such issues have become increasingly important in the scientific domain as software gets larger and more complex constructed by teams of people and evolved over decades In the context of scientific computation the challenge facing mathematical software practitioners is to design develop and supply computational components which deliver these objectives when embedded in end user application codes The *Architecture of Scientific Software* addresses emerging methodologies and tools for the rational design of scientific software including component integration frameworks network based computing formal methods of abstraction application programmer interface design and the role of object oriented languages This book comprises the proceedings of the International Federation for Information Processing IFIP Conference on the Architecture of Scientific Software which was held in Ottawa Canada in October 2000 It will prove invaluable reading for developers of scientific software as well as for researchers in computational sciences and engineering

*Handbook on Parallel and Distributed*

Processing Jacek Blazewicz,Klaus Ecker,Brigitte Plateau,Denis Trystram,2013-03-09 In this volume authors of academia and practice provide practitioners scientists and graduate students with a good overview of basic methods and paradigms as well as important issues and trends across the broad spectrum of parallel and distributed processing In particular the book covers fundamental topics such as efficient parallel algorithms languages for parallel processing parallel operating systems architecture of parallel and distributed systems management of resources tools for parallel computing parallel database systems and multimedia object servers and networking aspects of distributed and parallel computing Three chapters are dedicated to applications parallel and distributed scientific computing high performance computing in molecular sciences and multimedia applications for parallel and distributed systems Summing up the Handbook is indispensable for academics and professionals who are interested in learning the leading expert s view of the topic      **The Finite Element Method in Heat Transfer and Fluid Dynamics, Third Edition**

J. N. Reddy,D.K. Gartling,2010-04-06 As Computational Fluid Dynamics CFD and Computational Heat Transfer CHT evolve and become increasingly important in standard engineering design and analysis practice users require a solid understanding of mechanics and numerical methods to make optimal use of available software The Finite Element Method in Heat Transfer and Fluid Dynamics Third Edition illustrates what a user must know to ensure the optimal application of computational procedures particularly the Finite Element Method FEM to important problems associated with heat conduction incompressible viscous flows and convection heat transfer This book follows the tradition of the bestselling previous editions noted for their concise explanation and powerful presentation of useful methodology tailored for use in simulating CFD and CHT The authors update research developments while retaining the previous editions key material and popular style in regard to text organization equation numbering references and symbols This updated third edition features new or extended coverage of Coupled problems and parallel processing Mathematical preliminaries and low speed compressible flows Mode superposition methods and a more detailed account of radiation solution methods Variational multi scale methods VMM and least squares finite element models LSFEM Application of the finite element method to non isothermal flows Formulation of low speed compressible flows With its presentation of realistic applied examples of FEM in thermal and fluid design analysis this proven masterwork is an invaluable tool for mastering basic methodology competently using existing simulation software and developing simpler special purpose computer codes It remains one of the very best resources for understanding numerical methods used in the study of fluid mechanics and heat transfer phenomena      **Role of Seismic Testing Facilities in Performance-Based Earthquake Engineering**

Michael N. Fardis,Zoran T. Rakicevic,2011-10-07 Nowadays research in earthquake engineering is mainly experimental and in large scale advanced computations are integrated with large scale experiments to complement them and extend their scope even by coupling two different but simultaneous tests Earthquake engineering cannot give answers by testing and qualifying few small typical components or single large prototypes Besides the large diversity of Civil Engineering

structures does not allow drawing conclusions from only a few tests structures are large and their seismic response and performance cannot be meaningfully tested in an ordinary lab or in the field So seismic testing facilities should be much larger than in other scientific fields their staff has to be resourceful devising intelligent ways to carry out simultaneously different tests and advanced computations To better serve such a mission European testing facilities and researchers in earthquake engineering have shared their resources and activities in the framework of the European project SERIES combining their research and jointly developing advanced testing and instrumentation techniques that maximize testing capabilities and increase the value of the tests This volume presents the first outcomes of the SERIES and its contribution towards Performance based Earthquake Engineering i e to the most important development in Earthquake Engineering of the past three decades The concept and the methodologies for performance based earthquake engineering have now matured However they are based mainly on analytical numerical research large scale seismic testing has entered the stage recently The SERIES Workshop in Ohrid MK in Sept 2010 pooled together the largest European seismic testing facilities Europe s best experts in experimental earthquake engineering and select experts from the USA to present recent research achievements and to address future developments Audience This volume will be of interest to researchers and advanced practitioners in structural earthquake engineering geotechnical earthquake engineering engineering seismology and experimental dynamics including seismic qualification



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