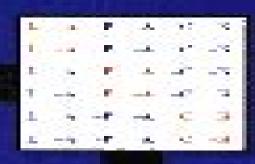
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L. S. Blackford

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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. 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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 The Lanczos Method Louis Komzsik, 2003-01-01 A valuable reference on the Lanczos method for graduate numerical analysts and engineers Lectures on Finite Precision Computations Françoise Chaitin-Chatelin, Valerie Fraysse, 1996-01-01 Mathematics of Computing Performance Optimization of Numerically Intensive Codes Stefan Goedecker, Adolfy Numerical Analysis Hoisie, 2001-01-01 Performance Optimization of Numerically Intensive Codes offers a comprehensive tutorial style hands on introductory and intermediate level treatment of all the essential ingredients for achieving high performance in numerical computations on modern computers The authors explain computer architectures data traffic and issues related to performance of serial and parallel code optimization exemplified by actual programs written for algorithms of wide interest The unique hands on style is achieved by extensive case studies using realistic computational problems. The performance gain obtained by applying the techniques described in this book can be very significant. 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known duality between a canonical representation of graphs as abstract collections of vertices and edges and a sparse adjacency matrix representation This linear algebraic approach is widely accessible to scientists and engineers who may not be formally trained in computer science The authors show how to leverage existing parallel matrix computation techniques and the large amount of software infrastructure that exists for these computations to implement efficient and scalable parallel graph algorithms The benefits of this approach are reduced algorithmic complexity ease of implementation and **Applied Parallel Computing** Jack Dongarra, 2006-03-03 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 **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 Numerical Linear Algebra on High-Performance Computers Jack J. Dongarra, Jain S. Duff, Danny C. Sorensen, Henk A. van der Vorst, 1998-01-01 Provides a rapid introduction to the world of vector and parallel processing for these linear algebra applications 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 Simulating, Analyzing, and Animating Dynamical Systems Bard Ermentrout, 2002-01-01 Simulating Analyzing and Animating Dynamical Systems A Guide to XPPAUT for Researchers and Students provides sophisticated numerical methods for the fast and accurate solution of a variety of equations including ordinary differential equations delay equations integral equations functional equations and some partial differential equations as well as boundary value problems It introduces many modeling techniques and methods for analyzing the resulting equations Instructors students and researchers will all benefit from this book which demonstrates how to use software tools to simulate and study sets of equations that arise in a variety of applications Instructors will learn how to use computer software in their differential equations and modeling classes while students will learn how to create animations of their equations that can be displayed on the World Wide Web Researchers will be introduced to useful tricks that will allow them to take full advantage of XPPAUT's capabilities Scientific Computing with Multicore and Accelerators Jakub Kurzak, David A. Bader, Jack Dongarra, 2010-12-07 The hybrid heterogeneous nature of future microprocessors and large high performance computing systems will result in a reliance on two major types of components multicore manycore central processing units and special purpose hardware massively parallel accelerators While these technologies have numerous High Performance Computing - HiPC 2006 Yves L. Robert, Manish benefits they also pose substantial perfo 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 **High-Performance Computing** R.J. Allan, M.F. Guest, A.D. Simpson, D.S. Henty, D. management algorithms Nicole, 2012-12-06 Over the past decade high performance computing has demonstrated the ability to model and predict accurately a wide range of physical properties and phenomena Many of these have had an important impact in contributing to wealth creation and improving the quality of life through the development of new products and processes with greater efficacy efficiency or reduced harmful side effects and in contributing to our ability to understand and describe the world around us Following a survey ofthe U K s urgent need for a supercomputingfacility for aca demic research see next chapter a 256 processor T3D system from Cray Research Inc went into operation at the University of Edinburgh in the summer of 1994 The High Performance Computing Initiative HPCI was established in November 1994 to support and ensure the efficient and effective exploitation of the T3D and future gen erations of HPC systems by a number of consortia working in the frontier areas of computational research The Cray T3D now comprising 512 processors and total of 32 CB memory represented a very significant increase in computing power allowing simulations to move forward on a number offronts The three fold aims of the HPCI may be summarised as follows 1 to seek and maintain a world class position incomputational scienceand engineering 2 to support and promote exploitation of HPC in industry commerce and business and 3 to support education and training in HPC and its application

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