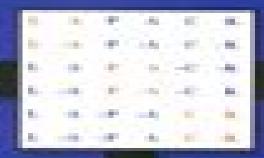
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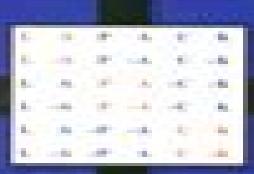
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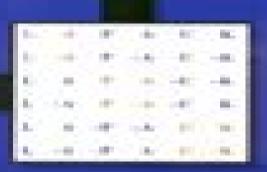
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David Padua

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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 ScaLAPACK Users' Guide L. S. Blackford, 1997-01-01 ScaLAPACK programs and the full set of LAPACK Working Notes 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

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

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