

Keywords in Context for the NAG Fortran 77 Library

Single 1-D complex discrete Fourier transform, extra workspace...	C06FCF
Single 1-D complex discrete Fourier transform, no extra...	C06ECF
1-D complex discrete Fourier transform of...	C06FFF
Multiple 1-D complex discrete Fourier transforms	C06FRF
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Single 1-D Hermitian discrete Fourier transform, extra...	C06BBF
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1-D quadrature, adaptive, finite interval, strategy due...	D01AJF
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1-D quadrature, adaptive, finite interval, variant of...	D01AUF
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1-D quadrature, adaptive, finite interval, weight...	D01ANF
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1-D quadrature, adaptive, semi-infinite interval, weight...	D01AMF
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...of finite difference equations by SIP, seven-point	D03UBF
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1-norm, ∞ -norm, Frobenius norm, largest	F06UAF
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1-norm, ∞ -norm, Frobenius norm, largest	F06UEF
absolute element, complex Hermitian band matrix	
1-norm, ∞ -norm, Frobenius norm, largest	F06UCF
absolute element, complex Hermitian matrix	
1-norm, ∞ -norm, Frobenius norm, largest	F06UDF
absolute element, complex Hessenberg matrix	
1-norm, ∞ -norm, Frobenius norm, largest	F06UMF
absolute element, complex symmetric band matrix	
1-norm, ∞ -norm, Frobenius norm, largest	F06UHF
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1-norm, ∞ -norm, Frobenius norm, largest	F06ULF
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1-norm, ∞ -norm, Frobenius norm, largest	F06UKF
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1-norm, ∞ -norm, Frobenius norm, largest	F06REF
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1-norm, ∞ -norm, Frobenius norm, largest	F06RDF
absolute element, real symmetric matrix, packed storage	
1-norm, ∞ -norm, Frobenius norm, largest	F06RJF
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1-norm, ∞ -norm, Frobenius norm, largest	F06RLF
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1-D quadrature, adaptive, finite interval, method suitable for...	D01AKF
1-D quadrature, adaptive, finite interval, strategy due to Patterson,...	D01AHF
1-D quadrature, adaptive, finite interval, strategy due to Piessens and...	D01AJF
1-D quadrature, adaptive, finite interval, variant of D01AJF efficient...	D01ATF
1-D quadrature, adaptive, finite interval, variant of D01AKF efficient...	D01AUF
1-D quadrature, adaptive, finite interval, weight function $1/(x - c)$,...	D01AQF
1-D quadrature, adaptive, finite interval, weight function $\cos(\omega \dots$	D01ANF
1-D quadrature, adaptive, finite interval, weight function with...	D01APF
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Airy functions $Ai(z)$ and $Ai'(z)$, complex z	S17DGF
Airy function $Ai(x)$	S17AGF
Airy function $Ai'(x)$	S17AJF
Airy function $Bi(x)$	S17AHF
Airy function $Bi'(x)$	S17AKF
Airy functions $Ai(z)$ and $Ai'(z)$, complex z	S17DGF
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Performs principal component analysis	G03AAF
Performs canonical variate analysis	G03ACF
Performs canonical correlation analysis	G03ADF
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...the zeros of a vector autoregressive (or moving average) operator	G13DXF
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...factorization of complex Hermitian positive-definite	band matrix (CPBTRF/ZPBTRF)	F07HRF
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...factorization of real symmetric positive-definite	band matrix	F01BUF
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...norm, largest absolute element, real symmetric	band matrix	F06REF
...norm, largest absolute element, real triangular	band matrix	F06RLF
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...norm, largest absolute element, complex symmetric	band matrix	F06UHF
...norm, largest absolute element, complex triangular	band matrix	F06ULF
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Estimate condition number of complex	band matrix, matrix already factorized by F07BRF...	F07BUF
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...condition number of complex Hermitian positive-definite	band matrix, matrix already factorized by F07HRF...	F07HUF
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...factorization of real symmetric positive-definite	band matrix (SPBTRF/DPBTRF)	F07HDF
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...error bounds of complex Hermitian positive-definite	band system of linear equations, multiple right-hand...	F07HVF
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Solution of real symmetric positive-definite	band system of linear equations, multiple right-hand...	F07HEF
Solution of complex Hermitian positive-definite	band system of linear equations, multiple right-hand...	F07HSF
Refined solution with error bounds of real	band system of linear equations, multiple right-hand...	F07BHF
...with error bounds of real symmetric positive-definite	band system of linear equations, multiple right-hand...	F07HHF
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Complex inner product added to initial value,	basic/additional precision	X03ABF
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Modified Bessel function $e^{- x }I_1(x)$		S18CFF
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Modified Bessel function $e^xK_1(x)$		S18CDF
Modified Bessel function $I_0(x)$		S18AEF
Modified Bessel function $I_1(x)$		S18AFF
Bessel function $J_0(x)$		S17AEF
Bessel function $J_1(x)$		S17AFF
Modified Bessel function $K_0(x)$		S18ACF
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Modified Bessel functions $I_{\nu+a}(z)$, real $a \geq 0$,...		S18DEF
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Airy function $\text{Bi}'(x)$		S17AKF
Airy functions $\text{Bi}(z)$ and $\text{Bi}'(z)$, complex z		S17DHF
Airy functions $\text{Bi}(z)$ and $\text{Bi}'(z)$, complex z		S17DHF
...unsymmetric linear systems, preconditioned RGMRES, CGS or	Bi-CGSTAB	F11BBF
...real sparse unsymmetric linear system, RGMRES, CGS, or	Bi-CGSTAB method, Jacobi or SSOR preconditioner (Black Box)	F11DEF
...real sparse unsymmetric linear system, RGMRES, CGS or	Bi-CGSTAB method, preconditioner computed by F11DAF...	F11DCF
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Sort 2-D data into panels for fitting	bicubic splines	E02ZAF
Least-squares surface fit by	bicubic splines with automatic knot placement, data on...	E02DCF
Least-squares surface fit by	bicubic splines with automatic knot placement,...	E02DDF
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...orthogonal transformation matrices from reduction to	bidiagonal form determined by F08KEF (SORGBR/DORGBR)	F08KFF
Apply orthogonal transformations from reduction to	bidiagonal form determined by F08KEF (SORMBR/DORMBR)	F08KGF

...unitary transformation matrices from reduction to	bidagonal form determined by F08KSF (CUNGBR/ZUNGBR)	F08KTF
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...reduction of real general rectangular matrix to	bidagonal form (SGBERD/DGBERD)	F08KEF
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	Binary search for interval containing zero of...	C05AVF
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...reference vector for generating pseudo-random integers,	binomial distribution	G05EDF
...vector for generating pseudo-random integers, negative	binomial distribution	G05EEF
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...eigenvalues of real symmetric tridiagonal matrix by	bisection (SSTEBZ/DSTEBZ)	F08JJF
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...time series, gain, phase, bounds, univariate and	bivariate (cross) spectra	G13CFP
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ODEs, IVP, Blend method, set-up for D02M-N routines		D02NWF
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Solution of real almost	block diagonal simultaneous linear equations...	F04LHF
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ODEs,	boundary value problem, collocation and least-squares...	D02JAF
ODEs,	boundary value problem, collocation and least-squares...	D02JBF
ODEs, general nonlinear	boundary value problem, collocation technique	D02TKF
ODEs, general nonlinear	boundary value problem, continuation facility for...	D02TXF
ODEs, general nonlinear	boundary value problem, diagnostics for D02TKF	D02TZF
ODEs, general nonlinear	boundary value problem, finite difference technique...	D02RAF
ODEs,	boundary value problem, finite difference technique...	D02GBF
ODEs,	boundary value problem, finite difference technique...	D02GAF
ODEs, general nonlinear	boundary value problem, interpolation for D02TKF	D02TYF
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ODEs,	boundary value problem, shooting and matching, general...	D02HBF
ODEs,	boundary value problem, shooting and matching...	D02AGF
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Refined solution with error	bounds of complex Hermitian indefinite system of linear...	F07PVF
Refined solution with error	bounds of complex Hermitian positive-definite band...	F07HVF
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Refined solution with error	bounds of complex symmetric system of linear equations...	F07QVF
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Refined solution with error	bounds of real symmetric indefinite system of linear...	F07MHF
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Refined solution with error	bounds of real symmetric positive-definite system of...	F07GHF
Refined solution with error	bounds of real symmetric positive-definite system of...	F07FFH
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...series, cross amplitude spectrum, squared coherency,	bounds , univariate and bivariate (cross) spectra	G13CEF
Multivariate time series, gain, phase,	bounds , univariate and bivariate (cross) spectra	G13CFP
...of several variables, modified Newton algorithm, simple	bounds , using 1st and 2nd derivatives (comprehensive)	E04LBF
...function of several variables, modified Newton algorithm, simple	bounds , using 1st and 2nd derivatives (easy-to-use)	E04LYF
...of several variables, modified Newton algorithm, simple	bounds , using 1st derivatives (comprehensive)	E04KDF
...function of several variables, quasi-Newton algorithm, simple	bounds , using 1st derivatives (easy-to-use)	E04KYF
...function of several variables, modified Newton algorithm, simple	bounds , using 1st derivatives (easy-to-use)	E04KZF
...function of several variables, quasi-Newton algorithm, simple	bounds , using function values only (easy-to-use)	E04JYF
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...system of 1st order PDEs, method of lines, Keller	box discretisation, one space variable	D03PEF
...1st order PDEs, coupled DAEs, method of lines, Keller	box discretisation, one space variable	D03PKF
...1st order PDEs, coupled DAEs, method of lines, Keller	box discretisation, remeshing, one space variable	D03PRF
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...and eigenvectors of real nonsymmetric matrix (Black Box)		F02ECF
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...Schur factorization of complex general matrix (Black Box)		F02GAF
...and eigenvectors of complex general matrix (Black Box)		F02GBF
...and eigenvectors of complex nonsymmetric matrix (Black Box)		F02GCF
...and eigenvectors of complex Hermitian matrix (Black Box)		F02HAF
...and eigenvectors of complex Hermitian matrix (Black Box)		F02HCF
...complex Hermitian-definite generalized problem (Black Box)		F02HDF
SVD of real matrix (Black Box)		F02WEF
SVD of a real upper triangular matrix (Black Box)		F02WUF
SVD of complex matrix (Black Box)		F02XEF
SVD of complex upper triangular matrix (Black Box)		F02XUF
Determinant of real matrix (Black Box)		F03AAF
...of real symmetric positive-definite matrix (Black Box)		F03ABF
...of real symmetric positive-definite band matrix (Black Box)		F03ACF
Determinant of complex matrix (Black Box)		F03ADF
...linear equations with multiple right-hand sides (Black Box)		F04AAF
...right-hand sides using iterative refinement (Black Box)		F04ABF

...linear equations with multiple right-hand sides (Black Box)	F04ACF
...linear equations with multiple right-hand sides (Black Box)	F04ADF
...right-hand sides using iterative refinement (Black Box)	F04AEF
...rank = n , $m \geq n$ using iterative refinement (Black Box)	F04AMF
...linear equations, one right-hand side (Black Box)	F04ARF
...one right-hand side using iterative refinement (Black Box)	F04ASF
...one right-hand side using iterative refinement (Black Box)	F04ATF
...linear equations, one right-hand side (Black Box)	F04EAF
...linear equations, one right-hand side (Black Box)	F04FAF
...method, preconditioner computed by F11JAF (Black Box)	F11JCF
...method, Jacobi or SSOR preconditioner (Black Box)	F11JEF
Integer programming problem, branch and bound method	H02BBF
...interval, allowing for singularities at user-specified break-points	D01ALF
...finite/infinite range, eigenvalue only, user-specified break-points	D02KDF
...range, eigenvalue and eigenfunction, user-specified break-points	D02KEF
Broadcast scalar into complex vector	F06HBF
Broadcast scalar into integer vector	F06DBF
Broadcast scalar into real vector	F06FBF
B-splines	E02
Bunch–Kaufman factorization of complex Hermitian...	F07MRF
Bunch–Kaufman factorization of complex Hermitian...	F07PRF
Bunch–Kaufman factorization of complex symmetric matrix...	F07NRF
Bunch–Kaufman factorization of complex symmetric...	F07QRF
Bunch–Kaufman factorization of real symmetric...	F07PDF
Bunch–Kaufman factorization of real symmetric...	F07MDF
Zero of continuous function in given interval, Bus and Dekker algorithm	C05ADF
Zero of continuous function, Bus and Dekker algorithm, from given starting value,...	C05AGF
Zero in given interval of continuous function by Bus and Dekker algorithm (reverse communication)	C05AZF
Fresnel integral $C(x)$	S20ADF
Performs canonical correlation analysis	G03ADF
Performs canonical variate analysis	G03ACF
...quadrature over hyper-rectangle, Monte Carlo method	D01GBF
Elliptic PDE, Helmholtz equation, 3-D Cartesian co-ordinates	D03FAF
Pseudo-random real numbers, Cauchy distribution	G05DFF
...adaptive, finite interval, weight function $1/(x - c)$, Cauchy principal value (Hilbert transform)	D01AQF
...of the Normal distribution from grouped and/or censored data	G07BBF
Regression using ranks, right- censored data	G08RBF
Computes probabilities for the non- central beta distribution	G01GEF
Computes probabilities for the non- central F -distribution	G01GDF
Computes probabilities for the non- central Student's t -distribution	G01GBF
Computes probabilities for the non- central χ^2 distribution	G01GCF
...lower tail probability for a linear combination of (central) χ^2 variables	G01JDF
Real sparse unsymmetric linear systems, preconditioned RGMRES, CGS or Bi-CGSTAB	F11BBF
Solution of real sparse unsymmetric linear system, RGMRES, CGS or Bi-CGSTAB method, Jacobi or SSOR preconditioner...	F11DEF
Solution of real sparse unsymmetric linear system, RGMRES, CGS or Bi-CGSTAB method, preconditioner computed by F11DAF...	F11DCF
Sort a vector, character data	M01CCF
Rank a vector, character data	M01DCF
Rearrange a vector according to given ranks, character data	M01ECF
Convert array of integers representing date and time to character string	X05ABF
Compare two character strings representing date and time	X05ACF
General system of parabolic PDEs, method of lines, Chebyshev C^0 collocation, one space variable	D03PDF
...of parabolic PDEs, coupled DAEs, method of lines, Chebyshev C^0 collocation, one space variable	D03PJF
Sum of a Chebyshev series	C06DBF
Derivative of fitted polynomial in Chebyshev series form	E02AHF
Integral of fitted polynomial in Chebyshev series form	E02AJF
Evaluation of fitted polynomial in one variable, from Chebyshev series form	E02AKF
Evaluation of fitted polynomial in one variable from Chebyshev series form (simplified parameter list)	E02AEF
Check initial grid data in D03RBF	D03RYF
Check user's routine for calculating 1st derivatives	C05ZAF
Check user's routine for calculating 1st derivatives of...	E04HCF
Check user's routine for calculating 2nd derivatives of...	E04HDF
Check user's routine for calculating Hessian of a sum...	E04YBF
Check user's routine for calculating Jacobian of 1st...	E04YAF
Check user's routines for calculating 1st derivatives...	E04ZCF
Check validity of a permutation	M01ZBF
Univariate time series, diagnostic checking of residuals, following G13AEF or G13AFF	G13ASF
Multivariate time series, diagnostic checking of residuals, following G13DCF	G13DSF
Real sparse symmetric matrix, incomplete Cholesky factorization	F11JAF
Cholesky factorization of a real symmetric...	F07GDF
Cholesky factorization of complex Hermitian...	F07HRF
Cholesky factorization of complex Hermitian...	F07FRF
Cholesky factorization of complex Hermitian...	F07GRF
Cholesky factorization of real symmetric...	F07HDF
Cholesky factorization of real symmetric...	F07FDF
Circular convolution or correlation of two real...	C06FKF
Circular convolution or correlation of two real...	C06EKF
Performs principal coordinate analysis, classical metric scaling	G03FAF
Computes multiway table from set of classification factors using given percentile/quantile	G11BBF
Computes multiway table from set of classification factors using selected statistic	G11BAF
Two-way analysis of variance, hierarchical classification , subgroups of unequal size	G04AGF
...orthogonal polynomials or dummy variables for factor/ classification variable	G04EAF
Performs the Cochran Q test on cross- classified binary data	G08ALF
Interpolating functions, method of Renka and Cline , two variables	E01SAF
Hierarchical cluster analysis	G03ECF
K -means cluster analysis	G03EFF
Computes cluster indicator variable (for use after G03ECF)	G03EJF
Jacobian elliptic functions sn, cn and dn	S21CAF

Performs the Cochran Q test on cross-classified binary data	G08ALF
Kendall's coefficient of concordance	G08DAF
Correlation-like coefficients (about zero), all variables, casewise...	G02BEF
Correlation-like coefficients (about zero), all variables, no missing...	G02BDF
Correlation-like coefficients (about zero), all variables, pairwise...	G02BFF
Correlation-like coefficients (about zero), subset of variables,...	G02BLF
Correlation-like coefficients (about zero), subset of variables, no...	G02BKF
Correlation-like coefficients (about zero), subset of variables,...	G02BMF
Pearson product-moment correlation coefficients , all variables, casewise treatment of...	G02BBF
Pearson product-moment correlation coefficients , all variables, no missing values	G02BAF
Pearson product-moment correlation coefficients , all variables, pairwise treatment of...	G02BCF
Kendall/Spearman non-parametric rank correlation coefficients , casewise treatment of missing values,...	G02BPF
Kendall/Spearman non-parametric rank correlation coefficients , casewise treatment of missing values,...	G02BRF
Computes factor score coefficients (for use after G03CAF)	G03CCF
Korobov optimal coefficients for use in D01GCF or D01GDF, when number...	D01GYF
Korobov optimal coefficients for use in D01GCF or D01GDF, when number...	D01GZF
Kendall/Spearman non-parametric rank correlation coefficients , no missing values, overwriting input data	G02BNF
Kendall/Spearman non-parametric rank correlation coefficients , no missing values, preserving input data	G02BQF
Kendall/Spearman non-parametric rank correlation coefficients , pairwise treatment of missing values	G02BSF
Pearson product-moment correlation coefficients , subset of variables, casewise treatment...	G02BHF
Pearson product-moment correlation coefficients , subset of variables, no missing values	G02BGF
Pearson product-moment correlation coefficients , subset of variables, pairwise treatment...	G02BJF
Multiple linear regression, from correlation coefficients , with constant term	G02CGF
Multiple linear regression, from correlation-like coefficients , without constant term	G02CHF
...time series, cross amplitude spectrum, squared coherency , bounds, univariate and bivariate (cross)...	G13CEF
n th order linear ODEs, boundary value problem, collocation and least-squares	D02TGF
ODEs, boundary value problem, collocation and least-squares, single n th order...	D02JAF
ODEs, boundary value problem, collocation and least-squares, system of 1st order...	D02JBF
...of parabolic PDEs, method of lines, Chebyshev C^0 collocation , one space variable	D03PDF
...PDEs, coupled DAEs, method of lines, Chebyshev C^0 collocation , one space variable	D03PJF
ODEs, general nonlinear boundary value problem, collocation technique	D02TKF
Analysis of variance, general row and column design, treatment means and standard errors	G04BCF
QR factorization with column pivoting of complex general rectangular matrix...	F08BSF
QR factorization with column pivoting of real general rectangular matrix...	F08BEF
Permute rows or columns , complex rectangular matrix, permutations...	F06VKF
Permute rows or columns , complex rectangular matrix, permutations...	F06VJF
...or LP solutions with user specified names for rows and columns	H02BVF
Rank columns of a matrix, integer numbers	M01DKF
Rank columns of a matrix, real numbers	M01DJF
Permute rows or columns , real rectangular matrix, permutations...	F06QKF
Permute rows or columns , real rectangular matrix, permutations...	F06QJF
...parameters of a factor analysis model, factor loadings, communalities and residual correlations	G03CAF
Compare two character strings representing date and...	X05ACF
Complement of cumulative normal distribution function...	S15ACF
Scaled complex complement of error function, $e^{-z^2} \operatorname{erfc}(-iz)$	S15DDF
Complement of error function $\operatorname{erfc}(x)$	S15ADF
Analysis of variance, complete factorial design, treatment means and standard...	G04CAF
Kendall's coefficient of concordance	G08DAF
Norm estimation (for use in condition estimation), complex matrix	F04ZCF
Norm estimation (for use in condition estimation), real matrix	F04YCF
Estimate condition number of complex band matrix, matrix already...	F07BUF
Estimate condition number of complex band triangular matrix...	F07VUF
Estimate condition number of complex Hermitian indefinite...	F07MUF
Estimate condition number of complex Hermitian indefinite...	F07PUF
Estimate condition number of complex Hermitian positive-definite...	F07HUF
Estimate condition number of complex Hermitian positive-definite...	F07FUF
Estimate condition number of complex Hermitian positive-definite...	F07GUF
Estimate condition number of complex matrix, matrix already...	F07AUF
Estimate condition number of complex symmetric matrix, matrix...	F07NUF
Estimate condition number of complex symmetric matrix, matrix...	F07QUF
Estimate condition number of complex triangular matrix...	F07TUF
Estimate condition number of complex triangular matrix, packed...	F07UUF
Estimate condition number of real band matrix, matrix already...	F07BGF
Estimate condition number of real band triangular matrix...	F07VGF
Estimate condition number of real matrix, matrix already...	F07AGF
Estimate condition number of real symmetric indefinite matrix,...	F07MGF
Estimate condition number of real symmetric indefinite matrix,...	F07PGF
Estimate condition number of real symmetric positive-definite...	F07HGF
Estimate condition number of real symmetric positive-definite...	F07FGF
Estimate condition number of real symmetric positive-definite...	F07GGF
Estimate condition number of real triangular matrix, packed...	F07UGF
Estimate condition number of real triangular matrix...	F07TGF
Unconstrained minimum, preconditioned conjugate gradient algorithm, function of...	E04DGF
Computes confidence interval for the parameter of a binomial...	G07AAF
Computes confidence interval for the parameter of a Poisson...	G07ABF
...a difference in means between two Normal populations, confidence interval	G07CAF
Robust confidence intervals, 1 sample	G07EAF
Robust confidence intervals, 2 sample	G07EBF
Computes confidence intervals for differences between means...	G04DBF
Unconstrained minimum, preconditioned conjugate gradient algorithm, function of several...	E04DGF
Real sparse symmetric linear systems, preconditioned conjugate gradient or Lanczos	F11GBF
Solution of real sparse symmetric linear system, conjugate gradient/Lanczos method, Jacobi or SSOR/	F11JEF
Solution of real sparse symmetric linear system, conjugate gradient/Lanczos method, preconditioner/	F11JCF
Complex conjugate of complex sequence	C06GCF
Complex conjugate of Hermitian sequence	C06GBF
Complex conjugate of multiple Hermitian sequences	C06GQF
Dot product of two complex sparse vector, conjugated (CDOTCI/ZDOTCI)	F06GSF
Dot product of two complex vectors, conjugated (CDOTC/ZDOTC)	F06GBF
Rank-1 update, complex rectangular matrix, conjugated vector (CGERC/ZGERC)	F06SNF
... $AX + XB = C$, A and B are upper triangular or conjugate-transposes (CTRSYL/ZTRSYL)	F08QVF

...of convection-diffusion PDEs with source terms in	conservative form, coupled DAEs, method of lines,...	D03PLF
...of convection-diffusion PDEs with source terms in	conservative form, coupled DAEs, method of lines,...	D03PSF
Roe's approximate Riemann solver for Euler equations in	conservative form, for use with D03PFF, D03PLF and...	D03PUF
Modified HLL Riemann solver for Euler equations in	conservative form, for use with D03PFF, D03PLF and D03PSF	D03PWF
Exact Riemann Solver for Euler equations in	conservative form, for use with D03PFF, D03PLF and D03PSF	D03PXF
...approximate Riemann solver for Euler equations in	conservative form, for use with D03PFF, D03PLF and...	D03PVF
...of convection-diffusion PDEs with source terms in	conservative form, method of lines, upwind scheme using...	D03PFF
Machine	Constants	X02
Mathematical	Constants	X01
...polynomial fit, values and derivatives may be	constrained , arbitrary data points,	E02AGF
	Equality- constrained complex linear least-squares	F04KMF
Convex QP problem or linearly-	constrained linear least-squares problem	E04NCF
	Equality- constrained real linear least squares problem	F04JMF
...by general linear function subject to linear inequality	constraints	E02GBF
...for calculating 1st derivatives of function and	constraints	E04ZCF
...of a general linear regression model for given	constraints	G02DKF
...of parameters of a general linear model for given	constraints	G02GKF
Minimum of a sum of squares, nonlinear	constraints , sequential QP method, using function...	E04UNF
...of several variables, sequential QP method, nonlinear	constraints , using function values and optionally 1st...	E04UCF
...function of several variables, sequential QP method, nonlinear	constraints , using function values and optionally 1st derivatives...	E04UFF
Two-way	contingency table analysis, with χ^2 /Fisher's...	G01AFF
χ^2 statistics for two-way	contingency table	G11AAF
	Contingency table, latent variable model for binary...	G11SAF
ODEs, IVP, set-up for	continuation calls to integrator, for use with D02M-N...	D02NZF
...finite difference technique with deferred correction,	continuation facility	D02RAF
ODEs, general nonlinear boundary value problem,	continuation facility for D02TKF	D02TXF
Zero of continuous function,	continuation method, from a given starting value	C05AJF
Zero of continuous function by	continuation method, from given starting value (reverse...	C05AXF
...the χ^2 goodness of fit test, for standard	continuous distributions	G08CGF
Zero of	continuous function, Bus and Dekker algorithm, from...	C05AGF
Zero in given interval of	continuous function by Bus and Dekker algorithm...	C05AZF
Zero of	continuous function by continuation method, from given...	C05AXF
Zero of	continuous function, continuation method, from a given...	C05AJF
Zero of	continuous function in given interval, Bus and Dekker...	C05ADF
Binary search for interval containing zero of	continuous function (reverse communication)	C05AVF
Computes sum of squares for	contrast between means	G04DAF
General system of	convection-diffusion PDEs with source terms in...	D03PLF
General system of	convection-diffusion PDEs with source terms in...	D03PSF
General system of	convection-diffusion PDEs with source terms in...	D03PFF
	Convert array of integers representing date and time to...	X05ABF
	Convert complex matrix between packed banded and...	F01ZDF
	Convert complex matrix between packed triangular and...	F01ZBF
	Convert Hermitian sequences to general complex...	C06GSF
	Convert real matrix between packed banded and...	F01ZCF
	Convert real matrix between packed triangular and...	F01ZAF
	Convex QP problem or linearly-constrained linear...	E04NCF
Nonlinear Volterra	convolution equation, 2nd kind	D05BAF
Circular	convolution or correlation of two real vectors, extra...	C06FKF
Circular	convolution or correlation of two real vectors, no...	C06EKF
Nonlinear	convolution Volterra-Abel equation, 1st kind, weakly...	D05BEF
Nonlinear	convolution Volterra-Abel equation, 2nd kind, weakly...	D05BDF
Matrix	copy , complex rectangular or trapezoidal matrix	F06TFF
	Copy complex vector (CCOPY/ZCOPY)	F06GFF
	Copy integer vector	F06DFF
Matrix	copy , real rectangular or trapezoidal matrix	F06QFF
	Copy real vector (SCOPY/DCOPY)	F06EFF
	Copy real vector to complex vector	F06KFF
...problem, finite difference technique with deferred	correction , continuation facility	D02RAF
...problem, finite difference technique with deferred	correction , general linear problem	D02CBF
...problem, finite difference technique with deferred	correction , simple nonlinear problem	D02GAF
Performs canonical	correlation analysis	G03ADF
Computes (optionally weighted)	correlation and covariance matrices	G02BXF
Pearson product-moment	correlation coefficients, all variables, casewise...	G02BBF
Pearson product-moment	correlation coefficients, all variables, no missing...	G02BAF
Pearson product-moment	correlation coefficients, all variables, pairwise...	G02BCF
Kendall/Spearman non-parametric rank	correlation coefficients, casewise treatment of missing...	G02BPF
Kendall/Spearman non-parametric rank	correlation coefficients, casewise treatment of missing...	G02BRF
Kendall/Spearman non-parametric rank	correlation coefficients, no missing values,...	G02BNF
Kendall/Spearman non-parametric rank	correlation coefficients, no missing values, preserving...	G02BQF
Kendall/Spearman non-parametric rank	correlation coefficients, pairwise treatment of missing...	G02BSF
Pearson product-moment	correlation coefficients, subset of variables, casewise...	G02BHF
Pearson product-moment	correlation coefficients, subset of variables, no...	G02BGF
Pearson product-moment	correlation coefficients, subset of variables, pairwise...	G02BJF
Multiple linear regression, from	correlation coefficients, with constant term	G02CGF
Multivariate time series, sample partial lag	correlation matrices, χ^2 statistics and...	G13DNF
Computes a	correlation matrix from a sum of squares matrix	G02BWF
Computes random	correlation matrix	G05GBF
Calculates a robust estimation of a	correlation matrix, Huber's weight function	G02HKF
Calculates a robust estimation of a	correlation matrix, user-supplied weight function	G02HMF
Calculates a robust estimation of a	correlation matrix, user-supplied weight function plus...	G02HLF
Circular convolution or	correlation of two real vectors, extra workspace for...	C06FKF
Circular convolution or	correlation of two real vectors, no extra workspace	C06EKF
Multivariate time series, sample cross-	correlation or cross-covariance matrices	G13DMF
	Correlation-like coefficients (about zero), all...	G02BEF
	Correlation-like coefficients (about zero), all...	G02BDF
	Correlation-like coefficients (about zero), all...	G02BFF
	Correlation-like coefficients (about zero), subset of...	G02BLF
	Correlation-like coefficients (about zero), subset of...	G02BKF
	Correlation-like coefficients (about zero), subset of...	G02BMF
Multiple linear regression, from	correlation-like coefficients, without constant term	G02CHF
...model, factor loadings, communalities and residual	correlations	G03CAF
Multivariate time series, cross-	correlations	G13BCF

...partial correlation/variance-covariance matrix from	correlation/variance-covariance matrix computed by...	G02BYF
Computes partial	correlation/variance-covariance matrix from...	G02BYF
Largest permissible argument for SIN and	COS	X02AHF
	cosh x	S10ACF
...of plane rotations, complex rectangular matrix, real	cosine and complex sine	F06TXF
...of plane rotations, complex rectangular matrix, complex	cosine and real sine	F06TYF
...of plane rotations, complex rectangular matrix, real	cosine and sine	F06VXF
Recover	cosine and sine from given complex tangent, real cosine	F06CCF
Recover	cosine and sine from given complex tangent, real sine	F06CDF
Recover	cosine and sine from given real tangent	F06BCF
Generate complex plane rotation, storing tangent, real	cosine	F06CAF
...cosine and sine from given complex tangent, real	cosine	F06CCF
	Cosine integral $Ci(x)$	S13ACF
Compute	cosine of angle between two real vectors	F06FAF
Discrete	cosine transform	C06HBF
Discrete quarter-wave	cosine transform	C06HDF
General system of parabolic PDEs,	coupled DAEs, method of lines, Chebyshev C^0 ...	D03PJF
General system of parabolic PDEs,	coupled DAEs, method of lines, finite differences, one...	D03PHF
General system of parabolic PDEs,	coupled DAEs, method of lines, finite differences,...	D03PPF
General system of 1st order PDEs,	coupled DAEs, method of lines, Keller box...	D03PKF
General system of 1st order PDEs,	coupled DAEs, method of lines, Keller box...	D03PRF
...PDEs with source terms in conservative form,	coupled DAEs, method of lines, upwind scheme using...	D03PLF
...PDEs with source terms in conservative form,	coupled DAEs, method of lines, upwind scheme using...	D03PSF
...iteration of Kalman filter, time-varying, square root	covariance filter	G13EAF
...of Kalman filter, time-invariant, square root	covariance filter	G13EBF
Computes test statistic for equality of within-group	covariance matrices and matrices for discriminant...	G03DAF
...squared distances for group or pooled variance	covariance matrices (for use after G03DAF)	G03DBF
Computes (optionally weighted) correlation and	covariance matrices	G02BXF
...time series, sample cross-correlation or cross-	covariance matrices	G13DMF
...matrix from correlation/variance-	covariance matrix computed by G02BXF	G02BYF
Robust regression, variance-	covariance matrix following G02HDF	G02HFF
	Covariance matrix for linear least-squares problems,...	F04YAF
	Covariance matrix for nonlinear least-squares problem	E04YCF
Computes partial correlation/variance-	covariance matrix from correlation/variance-covariance...	G02BYF
Normal scores, approximate variance-	covariance matrix	G01DCF
	Fits Cox's proportional hazard model	G12BAF
	Return the CPU time	X05BAF
	Multivariate time series, cross amplitude spectrum, squared coherency, bounds,...	G13CEF
...squared coherency, bounds, univariate and bivariate	(cross) spectra	G13CEF
...series, gain, phase, bounds, univariate and bivariate	(cross) spectra	G13CFF
Multivariate time series, smoothed sample	cross spectrum using rectangular, Bartlett, Tukey or...	G13CCF
Multivariate time series, smoothed sample	cross spectrum using spectral smoothing by the...	G13CDF
	Performs the Cochran Q test on cross-classified binary data	G08ALF
	Multivariate time series, sample cross-correlation or cross-covariance matrices	G13DMF
	Multivariate time series, cross-correlations	G13BCF
Multivariate time series, sample cross-correlation or	cross-covariance matrices	G13DMF
	Inverse Laplace transform, Crump's method	C06LAF
...functions, monotonicity-preserving, piecewise	cubic Hermite, one variable	E01BEF
	Fit cubic smoothing spline, smoothing parameter estimated	G10ACF
	Fit cubic smoothing spline, smoothing parameter given	G10ABF
Least-squares	cubic spline curve fit, automatic knot placement	E02BEF
Evaluation of fitted	cubic spline, definite integral	E02BDF
Least-squares curve	cubic spline fit (including interpolation)	E02BAF
Evaluation of fitted	cubic spline, function and derivatives	E02BCF
Evaluation of fitted	cubic spline, function only	E02BBF
Interpolating functions,	cubic spline interpolant, one variable	E01BAF
	Cumulants and moments of quadratic forms in Normal...	G01NAF
Set up reference vector from supplied	cumulative distribution function or probability...	G05EXF
	Cumulative normal distribution function $P(x)$	S15ABF
Complement of	cumulative normal distribution function $Q(x)$	S15ACF
Least-squares	curve cubic spline fit (including interpolation)	E02BAF
Least-squares cubic spline	curve fit, automatic knot placement	E02BEF
Least-squares	curve fit, by polynomials, arbitrary data points	E02ADF
Minimax	curve fit by polynomials	E02ACF
General system of parabolic PDEs, coupled	DAEs , method of lines, Chebyshev C^0 collocation, one...	D03PJF
General system of parabolic PDEs, coupled	DAEs , method of lines, finite differences, one space...	D03PHF
General system of parabolic PDEs, coupled	DAEs , method of lines, finite differences, remeshing,...	D03PPF
General system of 1st order PDEs, coupled	DAEs , method of lines, Keller box discretisation, one...	D03PKF
General system of 1st order PDEs, coupled	DAEs , method of lines, Keller box discretisation,...	D03PRF
...PDEs with source terms in conservative form, coupled	DAEs , method of lines, upwind scheme using numerical...	D03PLF
...PDEs with source terms in conservative form, coupled	DAEs , method of lines, upwind scheme using numerical...	D03PSF
...using spectral smoothing by the trapezium frequency	(Daniell) window	G13CBF
...using spectral smoothing by the trapezium frequency	(Daniell) window	G13CDF
	ODEs, IVP, DASSL method, set-up for D02M-N routines	D02MVF
	Return date and time as an array of integers	X05AAF
Convert array of integers representing	date and time to character string	X05ABF
Compare two character strings representing	date and time	X05ACF
	Mood's and David's tests on two samples of unequal size	G08BAF
	Dawson's integral	S15AFF
	Decompose a permutation into cycles	M01ZCF
...value problem, finite difference technique with	deferred correction, continuation facility	D02RAF
...value problem, finite difference technique with	deferred correction, general linear problem	D02GBF
...value problem, finite difference technique with	deferred correction, simple nonlinear problem	D02GAF

Determinant of real symmetric positive- definite band matrix (Black Box)	F03ACF
Cholesky factorization of complex Hermitian positive- definite band matrix (CPBTRF/ZPBTRF)	F07HRF
...factorization of real symmetric positive- definite band matrix	F01BUF
Estimate condition number of real symmetric positive- definite band matrix, matrix already factorized by...	F07HGF
...condition number of complex Hermitian positive- definite band matrix, matrix already factorized by...	F07HUF
Cholesky factorization of real symmetric positive- definite band matrix (SPBTRF/DPBTRF)	F07HDF
...with error bounds of complex Hermitian positive- definite band system of linear equations, multiple...	F07HVF
Solution of real symmetric positive- definite band system of linear equations, multiple...	F07HEF
Solution of complex Hermitian positive- definite band system of linear equations, multiple...	F07HSF
...solution with error bounds of real symmetric positive- definite band system of linear equations, multiple...	F07HHF
Reduction to standard form, generalized real symmetric- definite banded eigenproblem	F01BVF
Solution of real symmetric positive- definite banded simultaneous linear equations with...	F04ACF
All eigenvalues of generalized banded real symmetric- definite eigenproblem (Black Box)	F02FFF
Reduction to standard form of complex Hermitian- definite generalized eigenproblem $Ax = \lambda Bx, \dots$	F08SSF
Reduction to standard form of real symmetric- definite generalized eigenproblem $Ax = \lambda Bx, \dots$	F08SEF
Reduction to standard form of complex Hermitian- definite generalized eigenproblem $Ax = \lambda Bx, \dots$	F08TSF
Reduction to standard form of real symmetric- definite generalized eigenproblem $Ax = \lambda Bx, \dots$	F08TEF
All eigenvalues and eigenvectors of real symmetric- definite generalized problem (Black Box)	F02FDF
All eigenvalues and eigenvectors of complex Hermitian- definite generalized problem (Black Box)	F02HDF
Evaluation of fitted cubic spline, definite integral	E02BDF
Interpolated values, interpolant computed by E01BEF, definite integral, one variable	E01BHF
Determinant of real symmetric positive- definite matrix (Black Box)	F03ABF
Cholesky factorization of complex Hermitian positive- definite matrix (CPOTRF/ZPOTRF)	F07FRF
...matrix, reduced from complex Hermitian positive definite matrix (CPTEQR/ZPTEQR)	F08JUF
Inverse of real symmetric positive- definite matrix	F01ADF
...and determinant of real symmetric positive- definite matrix	F03AEF
Estimate condition number of real symmetric positive- definite matrix, matrix already factorized by F07FDF...	F07FGF
Inverse of a real symmetric positive- definite matrix, matrix already factorized by F07FDF...	F07FJF
...condition number of complex Hermitian positive- definite matrix, matrix already factorized by F07FRF...	F07FUF
Inverse of a complex Hermitian positive- definite matrix, matrix already factorized by F07FRF...	F07FWF
Estimate condition number of real symmetric positive- definite matrix, matrix already factorized by F07GDF...	F07GGF
Inverse of a real symmetric positive- definite matrix, matrix already factorized by F07GDF...	F07GJF
...condition number of complex Hermitian positive- definite matrix, matrix already factorized by F07GRF...	F07GUF
Inverse of a complex Hermitian positive- definite matrix, matrix already factorized by F07GRF...	F07GWF
Cholesky factorization of complex Hermitian positive- definite matrix, packed storage (CPPTRF/ZPPTRF)	F07GRF
Cholesky factorization of real symmetric positive- definite matrix, packed storage (SPPTRF/DPPTRF)	F07GDF
Cholesky factorization of real symmetric positive- definite matrix (SPOTRF/DPOTRF)	F07FDF
...matrix, reduced from real symmetric positive definite matrix (SPTEQR/DPTEQR)	F08JGF
Inverse of real symmetric positive- definite matrix using iterative refinement	F01ABF
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Solution of real symmetric positive- definite simultaneous linear equations, one right-hand...	F04ASF
Solution of real symmetric positive- definite simultaneous linear equations using iterative...	F04AFF
Solution of real symmetric positive- definite simultaneous linear equations with multiple...	F04ABF
...with error bounds of complex Hermitian positive- definite system of linear equations, multiple...	F07FVF
Solution of real symmetric positive- definite system of linear equations, multiple...	F07FEF
Solution of complex Hermitian positive- definite system of linear equations, multiple...	F07FSF
Solution of real symmetric positive- definite system of linear equations, multiple...	F07GEF
Solution of complex Hermitian positive- definite system of linear equations, multiple...	F07GSF
...with error bounds of complex Hermitian positive- definite system of linear equations, multiple...	F07GVF
...solution with error bounds of real symmetric positive- definite system of linear equations, multiple...	F07HGF
...solution with error bounds of real symmetric positive- definite system of linear equations, multiple...	F07FHF
...Yule-Walker equations for a real symmetric positive- definite Toeplitz matrix	F04MEF
...Yule-Walker equations for a real symmetric positive- definite Toeplitz matrix, one right-hand side	F04FEF
Update solution of real symmetric positive- definite Toeplitz system	F04MFF
Solution of real symmetric positive- definite Toeplitz system, one right-hand side	F04FFF
...eigenvalues and eigenvectors of real symmetric positive definite tridiagonal matrix, reduced from complex...	F08JUF
...eigenvalues and eigenvectors of real symmetric positive definite tridiagonal matrix, reduced from real...	F08JGF
Solution of real symmetric positive- definite tridiagonal simultaneous linear equations, one...	F04FAF
LDL^T factorization of real symmetric positive- definite variable-bandwidth matrix	F01MCF
Solution of real symmetric positive- definite variable-bandwidth simultaneous linear...	F04MCF
Degenerate symmetrised elliptic integral of 1st kind...	S21BAF
Zero of continuous function in given interval, Bus and Dekker algorithm	C05ADF
Zero of continuous function, Bus and Dekker algorithm, from given starting value, binary...	C05AGF
...in given interval of continuous function by Bus and Dekker algorithm (reverse communication)	C05AZF
Delete a variable from a general linear regression...	G02DFF
Add/delete an observation to/from a general linear...	G02DCF
Constructs dendrogram (for use after G03ECF)	G03EHF
Kernel density estimate using Gaussian kernel	G10BAF
...upper and lower tail probabilities and probability density function for the beta distribution	G01EEF
Minimum, function of one variable, using 1st derivative	E04BBF
Derivative of fitted polynomial in Chebyshev series...	E02AHF
...interpolant computed by E01BEF, function and 1st derivative , one variable	E01BGF
...functions, polynomial interpolant, data may include derivative values, one variable	E01AEF
Check user's routine for calculating 1st derivatives	C05ZAF
Solution of system of nonlinear equations using 1st derivatives (comprehensive)	C05PCF
...algorithm, function of several variables using 1st derivatives (comprehensive)	E04DGF
...Gauss-Newton and quasi-Newton algorithm using 1st derivatives (comprehensive)	E04GBF
...Gauss-Newton and modified Newton algorithm using 1st derivatives (comprehensive)	E04GDF
...Gauss-Newton and modified Newton algorithm, using 2nd derivatives (comprehensive)	E04HEF
...modified Newton algorithm, simple bounds, using 1st derivatives (comprehensive)	E04KDF
...Newton algorithm, simple bounds, using 1st and 2nd derivatives (comprehensive)	E04LBF
...constraints, using function values and optionally 1st derivatives (comprehensive)	E04UCF
...QP method, using function values and optionally 1st derivatives (comprehensive)	E04UNF
Evaluation of fitted cubic spline, function and derivatives	E02BCF
Check user's routine for calculating Jacobian of 1st derivatives	E04YAF
Solution of system of nonlinear equations using 1st derivatives (easy-to-use)	C05PBF
...combined Gauss-Newton and quasi-Newton algorithm, using 1st derivatives (easy-to-use)	E04GYF
...Gauss-Newton and modified Newton algorithm using 1st derivatives (easy-to-use)	E04GZF
...Gauss-Newton and modified Newton algorithm, using 2nd derivatives (easy-to-use)	E04HYF
...variables, quasi-Newton algorithm, simple bounds, using 1st derivatives (easy-to-use)	E04KYF
...variables, modified Newton algorithm, simple bounds, using 1st derivatives (easy-to-use)	E04KZF
...modified Newton algorithm, simple bounds, using 1st and 2nd derivatives (easy-to-use)	E04LYF
...correlation matrix, user-supplied weight function plus derivatives	G02HLF
Least-squares polynomial fit, values and derivatives may be constrained, arbitrary data points,	E02AGF
Check user's routines for calculating 1st derivatives of function and constraints	E04ZCF
Check user's routine for calculating 1st derivatives of function	E04HCF
Check user's routine for calculating 2nd derivatives of function	E04HDF
Scaled derivatives of $\psi(x)$	S14ADF
Solution of systems of nonlinear equations using 1st derivatives (reverse communication)	C05PDF
...nonlinear constraints, using function values and optionally 1st derivatives (reverse communication, comprehensive)	E04UFF
Numerical differentiation, derivatives up to order 14, function of one real...	D04AAF
Analysis of variance, general row and column design , treatment means and standard errors	G04BCF
...of variance, randomized block or completely randomized design , treatment means and standard errors	G04BBF
Analysis of variance, complete factorial design , treatment means and standard errors	G04CAF

	Determinant of complex matrix (Black Box)	F03ADF
	Determinant of real matrix (Black Box)	F03AAF
LU factorization and	determinant of real matrix	F03AFF
	Determinant of real symmetric positive-definite band...	F03ACF
	Determinant of real symmetric positive-definite matrix...	F03ABF
LL^T factorization and	determinant of real symmetric positive-definite matrix	F03AEF
Computes	deviates for Student's t -distribution	G01FBF
Computes	deviates for the beta distribution	G01FEF
Computes	deviates for the F -distribution	G01FDF
Computes	deviates for the gamma distribution	G01FFF
Computes	deviates for the standard Normal distribution	G01FAF
Computes	deviates for the Studentized range statistic	G01FMF
Computes	deviates for the χ^2 distribution	G01FCF
...median, median absolute deviation, robust standard	deviation	G07DAF
Robust estimation, median, median absolute	deviation , robust standard deviation	G07DAF
Computes quantities needed for range-mean or standard	deviation-mean plot	G13AUF
Univariate time series,	diagnostic checking of residuals, following G13AEF or...	G13ASF
Multivariate time series,	diagnostic checking of residuals, following G13DCF	G13DSF
Real sparse unsymmetric linear systems,	diagnostic for F11BBF	F11BCF
Real sparse symmetric linear systems,	diagnostic for F11GBF	F11GCF
2nd order ODEs, IVP,	diagnostics for D02LAF	D02LYF
ODEs, IVP, integration	diagnostics for D02PCF and D02PDF	D02PYF
ODEs, IVP, error assessment	diagnostics for D02PCF and D02PDF	D02PZF
ODEs, IVP,	diagnostics for D02QFF and D02QGF	D02QXF
ODEs, IVP, root-finding	diagnostics for D02QFF and D02QGF	D02QYF
ODEs, general nonlinear boundary value problem,	diagnostics for D02TKF	D02TZF
ODEs, IVP, sparse Jacobian, linear algebra	diagnostics , for use with D02M-N routines	D02NXF
ODEs, IVP, integrator	diagnostics , for use with D02M-N routines	D02NYF
LU factorization of real almost block	diagonal matrix	F01LHF
Multiply real vector by	diagonal matrix	F06FCF
Multiply complex vector by complex	diagonal matrix	F06HCF
Multiply complex vector by real	diagonal matrix	F06KCF
Solution of real almost block	diagonal simultaneous linear equations (coefficient...	F04LHF
Elliptic PDE, solution of finite	difference equations by a multigrid technique	D03EDF
Elliptic PDE, solution of finite	difference equations by SIP, five-point 2-D molecule,...	D03EBF
Elliptic PDE, solution of finite	difference equations by SIP, five-point 2-D molecule,...	D03UAF
Elliptic PDE, solution of finite	difference equations by SIP, seven-point 3-D...	D03ECF
Elliptic PDE, solution of finite	difference equations by SIP, seven-point 3-D molecule,...	D03UBF
Computes t -test statistic for a	difference in means between two Normal populations,...	G07CAF
Sum or	difference of two complex matrices, optional scaling...	F01CWF
Sum or	difference of two real matrices, optional scaling and...	F01CTF
ODEs, general nonlinear boundary value problem, finite	difference technique with deferred correction,...	D02RAF
ODEs, boundary value problem, finite	difference technique with deferred correction, general...	D02GBF
ODEs, boundary value problem, finite	difference technique with deferred correction, simple...	D02GAF
Multivariate time series,	differences and/or transforms (for use before G13DCF)	G13DLF
Computes confidence intervals for	differences between means computed by G04BBF or G04BCF	G04DBF
...system of parabolic PDEs, method of lines, finite	differences , one space variable	D03PCF
...parabolic PDEs, coupled DAEs, method of lines, finite	differences , one space variable	D03PHF
...parabolic PDEs, coupled DAEs, method of lines, finite	differences , remeshing, one space variable	D03PPF
General system of 2nd order PDEs, method of lines, finite	differences , remeshing, two space variables, rectangular region	D03RAF
General system of 2nd order PDEs, method of lines, finite	differences , remeshing, two space variables, rectilinear region	D03RBF
Univariate time series, seasonal and non-seasonal	differencing	G13AAF
Ordinary	Differential Equations See ODEs	
Partial	Differential Equations See PDEs	
	Differential/algebraic equations	D02M-N
Numerical	differentiation , derivatives up to order 14, function...	D04AAF
Estimate (using numerical	differentiation) gradient and/or Hessian of a function	E04XAF
General system of convection-	diffusion PDEs with source terms in conservative form,...	D03PLF
General system of convection-	diffusion PDEs with source terms in conservative form,...	D03PSF
General system of convection-	diffusion PDEs with source terms in conservative form,...	D03PFF
Shortest path problem,	Dijkstra's algorithm	H03ADF
	Discrete cosine transform	C06HBF
2-D complex	discrete Fourier transform	C06FUF
3-D complex	discrete Fourier transform	C06FXF
Single 1-D real	discrete Fourier transform, extra workspace for greater...	C06FAF
Single 1-D Hermitian	discrete Fourier transform, extra workspace for greater...	C06FBF
Single 1-D complex	discrete Fourier transform, extra workspace for greater...	C06FCF
Single 1-D real	discrete Fourier transform, no extra workspace	C06EAF
Single 1-D Hermitian	discrete Fourier transform, no extra workspace	C06EBF
Single 1-D complex	discrete Fourier transform, no extra workspace	C06ECF
1-D complex	discrete Fourier transform of multi-dimensional data	C06FFF
Multi-dimensional complex	discrete Fourier transform of multi-dimensional data	C06FJF
Multiple 1-D real	discrete Fourier transforms	C06FPF
Multiple 1-D Hermitian	discrete Fourier transforms	C06FQF
Multiple 1-D complex	discrete Fourier transforms	C06FRF
	Discrete quarter-wave cosine transform	C06HDF
	Discrete quarter-wave sine transform	C06HCF
	Discrete sine transform	C06HAF
	Discretize a 2nd order elliptic PDE on a rectangle	D03EEF
...of within-group covariance matrices and matrices for	discriminant analysis	G03DAF
	Dispersion tests	G08
Computes	distance matrix	G03EAF
Computes Mahalanobis squared	distances for group or pooled variance-covariance...	G03DBF
...likelihood estimates for parameters of the Normal	distribution from grouped and/or censored data	G07BBF
Binomial	distribution function	G01BJF
Poisson	distribution function	G01BKF
Hypergeometric	distribution function	G01BLF

...cumulative distribution function or probability	distribution function	G05EXF
Set up reference vector from supplied cumulative	distribution function or probability distribution...	G05EXF
Cumulative normal	distribution function $P(x)$	S15ABF
Complement of cumulative normal	distribution function $Q(x)$	S15ACF
Computes probabilities for the standard Normal	distribution	G01EAF
Computes probabilities for Student's t -	distribution	G01EBF
Computes probabilities for χ^2	distribution	G01ECF
Computes probabilities for F -	distribution	G01EDF
...and probability density function for the beta	distribution	G01EEF
Computes probabilities for the gamma	distribution	G01EFF
Computes probability for Von Mises	distribution	G01ERF
...probabilities for the one-sample Kolmogorov–Smirnov	distribution	G01EYF
...probabilities for the two-sample Kolmogorov–Smirnov	distribution	G01EZF
Computes deviates for the standard Normal	distribution	G01FAF
Computes deviates for Student's t -	distribution	G01FBB
Computes deviates for the χ^2	distribution	G01FCF
Computes deviates for the F -	distribution	G01FDF
Computes deviates for the beta	distribution	G01FEF
Computes deviates for the gamma	distribution	G01FFF
...probabilities for the non-central Student's t -	distribution	G01GBF
Computes probabilities for the non-central χ^2	distribution	G01GCF
Computes probabilities for the non-central F -	distribution	G01GDF
Computes probabilities for the non-central beta	distribution	G01GEF
Computes probability for the bivariate Normal	distribution	G01HAF
Computes probabilities for the multivariate Normal	distribution	G01HBF
Pseudo-random real numbers, (negative) exponential	distribution	G05DBF
Pseudo-random real numbers, logistic	distribution	G05DCF
Pseudo-random real numbers, Normal	distribution	G05DDF
Pseudo-random real numbers, lognormal	distribution	G05DEF
Pseudo-random real numbers, Cauchy	distribution	G05DFF
Pseudo-random real numbers, χ^2	distribution	G05DHF
Pseudo-random real numbers, Student's t -	distribution	G05DJF
Pseudo-random real numbers, F	distribution	G05DKF
Pseudo-random real numbers, Weibull	distribution	G05DPF
Pseudo-random integer, Poisson	distribution	G05DRF
Pseudo-random integer from uniform	distribution	G05DYF
Set up reference vector for multivariate Normal	distribution	G05EAF
...vector for generating pseudo-random integers, uniform	distribution	G05EBF
...vector for generating pseudo-random integers, Poisson	distribution	G05ECF
...vector for generating pseudo-random integers, binomial	distribution	G05EDF
...generating pseudo-random integers, negative binomial	distribution	G05EEF
...for generating pseudo-random integers, hypergeometric	distribution	G05EFF
Generates a vector of random numbers from a uniform	distribution	G05FAF
...vector of random numbers from an (negative) exponential	distribution	G05FBF
Generates a vector of random numbers from a Normal	distribution	G05FDF
Generates a vector of pseudo-random numbers from a beta	distribution	G05FEF
...a vector of pseudo-random numbers from a gamma	distribution	G05FFF
...vector of pseudo-random variates from Von Mises	distribution	G05FSF
...confidence interval for the parameter of a binomial	distribution	G07AAF
...confidence interval for the parameter of a Poisson	distribution	G07ABF
...likelihood estimates for parameters of the Weibull	distribution	G07BEF
...one-sample Kolmogorov–Smirnov test for a user-supplied	distribution	G08CCF
Pseudo-random real numbers, uniform	distribution over (0,1)	G05CAF
Pseudo-random real numbers, uniform	distribution over (a, b)	G05DAF
Gaussian	distribution See Normal distribution	
...the one-sample Kolmogorov–Smirnov test for standard	distributions	G08CBF
...goodness of fit test, for standard continuous	distributions	G08CGF
Inverse	distributions	G01F
Jacobian elliptic functions sn, cn and dn		S21CAF
...finite interval, strategy due to Piessens and de Doncker, allowing for badly-behaved integrands		D01AJF
Dot product of two complex sparse vector, conjugated...		F06GSF
Dot product of two complex sparse vector, unconjugated...		F06GRF
Dot product of two complex vectors, conjugated...		F06GBF
Dot product of two complex vectors, unconjugated...		F06GAF
Dot product of two real sparse vectors (SDOT1/DDOT1)		F06ERF
Dot product of two real vectors (SDOT/DDOT)		F06EAF
Performs the runs up or runs	down test for randomness	G08EAF
Computes bounds for the significance of a	Durbin–Watson statistic	G01EPF
Computes	Durbin–Watson test statistic	G02FCF
...system, finite/infinite range, eigenvalue and	eigenfunction, user-specified break-points	D02KEF
...standard form of complex Hermitian-definite generalized	eigenproblem $Ax = \lambda Bx$, $ABx = \lambda x$ or...	F08SSF
...to standard form of real symmetric-definite generalized	eigenproblem $Ax = \lambda Bx$, $ABx = \lambda x$ or...	F08SEF
...standard form of complex Hermitian-definite generalized	eigenproblem $Ax = \lambda Bx$, $ABx = \lambda x$ or...	F08TSF
...to standard form of real symmetric-definite generalized	eigenproblem $Ax = \lambda Bx$, $ABx = \lambda x$ or...	F08TEF
...of generalized banded real symmetric-definite	eigenproblem (Black Box)	F02FHF
...eigenvalues and eigenvectors of sparse symmetric	eigenproblem (Black Box)	F02JFF
Eigenvector of generalized real banded	eigenproblem by inverse iteration	F02SDF
...and optionally eigenvectors of generalized complex	eigenproblem by QZ algorithm (Black Box)	F02GJF
...eigenvalues and optionally eigenvectors of generalized	eigenproblem by QZ algorithm, real matrices (Black...	F02BJF
...form, generalized real symmetric-definite banded	eigenproblem	F01BVF
...regular/singular system, finite/infinite range,	eigenvalue and eigenfunction, user-specified...	D02KEF
Compute	eigenvalue of 2 by 2 real symmetric matrix	F06BPF
...Sturm–Liouville problem, regular system, finite range,	eigenvalue only	D02KAF
...regular/singular system, finite/infinite range,	eigenvalue only, user-specified break-points	D02KDF
All	eigenvalues and eigenvectors of complex general matrix...	F02GBF
All	eigenvalues and eigenvectors of complex Hermitian...	F02HAF
Selected	eigenvalues and eigenvectors of complex Hermitian...	F02HCF
All	eigenvalues and eigenvectors of complex...	F02HDF
Selected	eigenvalues and eigenvectors of complex nonsymmetric...	F02GCF
Estimates of sensitivities of selected	eigenvalues and eigenvectors of complex upper...	F08QYF
All	eigenvalues and eigenvectors of real general matrix...	F02EBF
Selected	eigenvalues and eigenvectors of real nonsymmetric...	F02ECF
All	eigenvalues and eigenvectors of real symmetric matrix...	F02FAF
Selected	eigenvalues and eigenvectors of real symmetric matrix...	F02FCF
All	eigenvalues and eigenvectors of real symmetric positive...	F08JUF
All	eigenvalues and eigenvectors of real symmetric positive...	F08JGF
All	eigenvalues and eigenvectors of real symmetric...	F08JSF
All	eigenvalues and eigenvectors of real symmetric...	F08JEF
All	eigenvalues and eigenvectors of real symmetric-definite...	F02FDF
Estimates of sensitivities of selected	eigenvalues and eigenvectors of real upper...	F08QLF
Selected	eigenvalues and eigenvectors of sparse symmetric...	F02FJF
All	eigenvalues and optionally eigenvectors of generalized...	F02GJF
All	eigenvalues and optionally eigenvectors of generalized...	F02BJF
All	eigenvalues and Schur factorization of complex general...	F02GAF
Eigenvalues and Schur factorization of complex upper...		F08PSF

All eigenvalues and Schur factorization of real general...	F02EAF
Eigenvalues and Schur factorization of real upper...	F08PEF
All eigenvalues of generalized banded real...	F02FHF
Selected eigenvalues of real symmetric tridiagonal matrix by...	F08JFF
All eigenvalues of real symmetric tridiagonal matrix,...	F08JFF
...basis of right invariant subspace for selected eigenvalues , with estimates of sensitivities...	F08QUF
...basis of right invariant subspace for selected eigenvalues , with estimates of sensitivities...	F08QGF
Eigenvector of generalized real banded eigenproblem by...	F02SDF
...tridiagonal matrix by inverse iteration, storing eigenvectors in complex array (CSTEIN/ZSTEIN)	F08JXF
...tridiagonal matrix by inverse iteration, storing eigenvectors in real array (SSTEIN/DSTEIN)	F08JKF
Left and right eigenvectors of a complex upper triangular matrix...	F08QXF
Left and right eigenvectors of a real upper quasi-triangular matrix...	F08QKF
Transform eigenvectors of complex balanced matrix to those of...	F08NWF
All eigenvalues and eigenvectors of complex general matrix (Black Box)	F02GBF
All eigenvalues and eigenvectors of complex Hermitian matrix (Black Box)	F02HAF
Selected eigenvalues and eigenvectors of complex Hermitian matrix (Black Box)	F02HCF
All eigenvalues and eigenvectors of complex Hermitian-definite generalized...	F02HDF
Selected eigenvalues and eigenvectors of complex nonsymmetric matrix (Black Box)	F02GCF
Selected right and/or left eigenvectors of complex upper Hessenberg matrix by...	F08PXF
Estimates of sensitivities of selected eigenvalues and eigenvectors of complex upper triangular matrix...	F08QYF
All eigenvalues and optionally eigenvectors of generalized complex eigenproblem by...	F02GJF
All eigenvalues and optionally eigenvectors of generalized eigenproblem by QZ ...	F02BJF
Transform eigenvectors of real balanced matrix to those of...	F08NJF
All eigenvalues and eigenvectors of real general matrix (Black Box)	F02EBF
Selected eigenvalues and eigenvectors of real nonsymmetric matrix (Black Box)	F02ECF
All eigenvalues and eigenvectors of real symmetric matrix (Black Box)	F02FAF
Selected eigenvalues and eigenvectors of real symmetric matrix (Black Box)	F02FCF
All eigenvalues and eigenvectors of real symmetric positive definite...	F08JUF
All eigenvalues and eigenvectors of real symmetric positive definite...	F08JGF
Selected eigenvectors of real symmetric tridiagonal matrix by...	F08JXF
Selected eigenvectors of real symmetric tridiagonal matrix by...	F08JKF
All eigenvalues and eigenvectors of real symmetric tridiagonal matrix,...	F08JSF
All eigenvalues and eigenvectors of real symmetric tridiagonal matrix,...	F08JEF
All eigenvalues and eigenvectors of real symmetric-definite generalized...	F02PDF
Selected right and/or left eigenvectors of real upper Hessenberg matrix by inverse...	F08PKF
Estimates of sensitivities of selected eigenvalues and eigenvectors of real upper quasi-triangular matrix...	F08QLF
Selected eigenvalues and eigenvectors of sparse symmetric eigenproblem (Black...	F02JFJ
Generate complex elementary reflection	F06HRF
Apply complex elementary reflection	F06HTF
Generate real elementary reflection, LINPACK style	F06FSF
Apply real elementary reflection, LINPACK style	F06FUF
Generate real elementary reflection, NAG style	F06FRF
Apply real elementary reflection, NAG style	F06FTF
Gaussian elimination See <i>LU</i> factorization	
Jacobian elliptic functions sn , cn and dn	S21CAF
Degenerate symmetrised elliptic integral of 1st kind $R_C(x, y)$	S21BAF
Symmetrised elliptic integral of 1st kind $R_F(x, y, z)$	S21BBF
Symmetrised elliptic integral of 2nd kind $R_D(x, y, z)$	S21BCF
Symmetrised elliptic integral of 3rd kind $R_J(x, y, z, r)$	S21BDF
Elliptic PDE, Helmholtz equation, 3-D Cartesian...	D03FAF
Elliptic PDE, Laplace's equation, 2-D arbitrary domain	D03EAF
Discretize a 2nd order elliptic PDE on a rectangle	D03EEF
Elliptic PDE, solution of finite difference equations...	D03EDF
Elliptic PDE, solution of finite difference equations...	D03EBF
Elliptic PDE, solution of finite difference equations...	D03UAF
Elliptic PDE, solution of finite difference equations...	D03ECF
Elliptic PDE, solution of finite difference equations...	D03UBF
ODEs, IVP, resets end of range for D02PDF	D02PWF
...adaptive, finite interval, weight function with end-point singularities of algebraico-logarithmic type	D01APF
...of convergence of sequence, Shanks' transformation and epsilon algorithm	C06BAF
ODEs, IVP, error assessment diagnostics for D02PCF and D02PDF	D02PZF
Error bounds for solution of complex band triangular...	F07VVF
Error bounds for solution of complex triangular system...	F07TVF
Error bounds for solution of complex triangular system...	F07UVF
Error bounds for solution of real band triangular...	F07VHF
Error bounds for solution of real triangular system of...	F07UHF
Error bounds for solution of real triangular system of...	F07THF
Refined solution with error bounds of complex band system of linear...	F07BVF
Refined solution with error bounds of complex Hermitian indefinite system of...	F07MVF
Refined solution with error bounds of complex Hermitian indefinite system of...	F07PVF
Refined solution with error bounds of complex Hermitian positive-definite...	F07HVF
Refined solution with error bounds of complex Hermitian positive-definite...	F07FVF
Refined solution with error bounds of complex Hermitian positive-definite...	F07GVF
Refined solution with error bounds of complex symmetric system of linear...	F07NVF
Refined solution with error bounds of complex symmetric system of linear...	F07QVF
Refined solution with error bounds of complex system of linear equations,...	F07AVF
Refined solution with error bounds of real band system of linear equations,...	F07BHF
Refined solution with error bounds of real symmetric indefinite system of...	F07PHF
Refined solution with error bounds of real symmetric indefinite system of...	F07MHF
Refined solution with error bounds of real symmetric positive-definite band...	F07HHF
Refined solution with error bounds of real symmetric positive-definite system...	F07GHF
Refined solution with error bounds of real symmetric positive-definite system...	F07FFH
Refined solution with error bounds of real system of linear equations,...	F07AHF
ODEs, IVP, weighted norm of local error estimate for D02M-N routines	D02ZAF
Scaled complex complement of error function, $e^{-z^2} \operatorname{erfc}(-iz)$	S15DDF
Complement of error function $\operatorname{erfc}(x)$	S15ADF
Error function $\operatorname{erf}(x)$	S15AEF
...of a general linear regression model and its standard error	G02DNF
...function of a generalized linear model and its standard error	G02GNF
...bounds, impulse response function and its standard error	G13CGF
Return value of error indicator/terminate with error message	P01ABF
Return value of error indicator/terminate with error message	P01ABF
Return or set unit number for error messages	X04AAF
Fits a generalized linear model with Normal errors	G02GAF
Fits a generalized linear model with binomial errors	G02GBF
Fits a generalized linear model with Poisson errors	G02GCF

Fits a generalized linear model with gamma	errors	G02GDF
...randomized design, treatment means and standard	errors	G04BBF
...row and column design, treatment means and standard	errors	G04BCF
...complete factorial design, treatment means and standard	errors	G04CAF
Multivariate time series, forecasts and their standard	errors	G13DJF
...time series, updates forecasts and their standard	errors	G13DKF
Estimates and standard	errors of parameters of a general linear model for...	G02GKF
Estimates and standard	errors of parameters of a general linear regression...	G02DKF
Computes	estimable function of a general linear regression model...	G02DNF
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	Estimate condition number of complex band triangular...	F07VUF
	Estimate condition number of complex Hermitian...	F07MUF
	Estimate condition number of complex Hermitian...	F07PUF
	Estimate condition number of complex Hermitian...	F07HUF
	Estimate condition number of complex Hermitian...	F07FUF
	Estimate condition number of complex Hermitian...	F07GUF
	Estimate condition number of complex matrix, matrix...	F07AUF
	Estimate condition number of complex symmetric matrix,...	F07NUF
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	Estimate condition number of complex triangular matrix,...	F07UUF
	Estimate condition number of real band matrix, matrix...	F07BGF
	Estimate condition number of real band triangular...	F07VGF
	Estimate condition number of real matrix, matrix...	F07AGF
	Estimate condition number of real symmetric indefinite...	F07MGF
	Estimate condition number of real symmetric indefinite...	F07PGF
	Estimate condition number of real symmetric...	F07HGF
	Estimate condition number of real symmetric...	F07FGF
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	Estimate (using numerical differentiation) gradient...	E04XAF
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	Estimates and standard errors of parameters of a...	G02DKF
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	Estimates of linear parameters and general linear...	G02DDF
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...right invariant subspace for selected eigenvalues, with	estimates of sensitivities (STRSEN/DTRSEN)	F08QGF
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...a trimmed and winsorized mean of a single sample with	estimates of their variance	G07DDF
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Calculates a robust	estimation of a correlation matrix, user-supplied...	G02HMF
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Multivariate time series,	estimation of VARMA model	G13DCF
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Compute	Euclidean norm of complex vector (SCNRM2/DZNRM2)	F06JJF
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	Evaluate inverse Laplace transform as computed by...	C06LCF
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	Evaluation of a fitted bicubic spline at a vector of...	E02DEF
	Evaluation of fitted cubic spline, definite integral	E02BDF
	Evaluation of fitted cubic spline, function and...	E02BCF
	Evaluation of fitted cubic spline, function only	E02BBF
	Evaluation of fitted polynomial in one variable, from...	E02AKF
	Evaluation of fitted polynomial in one variable from...	E02AEF
	Evaluation of fitted polynomial in two variables	E02CBF
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Explicit ODEs, stiff IVP, full Jacobian (comprehensive)	D02NBF
Explicit ODEs, stiff IVP (reverse communication,...	D02NMF
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...estimates of the parameters of a factor analysis model, factor loadings, communalities and residual...	G03CAF
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...with orthogonal matrices, form rows of Q , after RQ factorization by F01QJF	F01QKF
...with unitary matrices, form rows of Q , after RQ factorization by F01RJF	F01RKF
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QR factorization by sequence of plane rotations, rank-1...	F06TPF
QR factorization by sequence of plane rotations, rank-1...	F06QPF
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QR or RQ factorization by sequence of plane rotations, real...	F06QSF
QR factorization by sequence of plane rotations, real...	F06QQF
Form all or part of orthogonal Q from QR factorization determined by F08AEF or F08BEF...	F08AFF
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Bunch–Kaufman factorization of complex Hermitian indefinite matrix...	F07MRF
Bunch–Kaufman factorization of complex Hermitian indefinite matrix...	F07PRF
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Cholesky factorization of complex Hermitian positive-definite...	F07FRF
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Reorder Schur factorization of complex matrix, form orthonormal basis...	F08QUF
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All eigenvalues and Schur factorization of real general matrix (Black Box)	F02EAF
LQ factorization of real general rectangular matrix...	F08AHF
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LU factorization of real m by n band matrix...	F07BDF
RQ factorization of real m by n matrix ($m \leq n$)	F01QJF
LU factorization of real m by n matrix (SGETRF/DGETRF)	F07ADF
RQ factorization of real m by n upper trapezoidal...	F01QGF
Reorder Schur factorization of real matrix, form orthonormal basis of...	F08QGF
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Bunch–Kaufman factorization of real symmetric indefinite matrix...	F07PDF
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$ULDL^T U^T$ factorization of real symmetric positive-definite band...	F01BUF
Cholesky factorization of real symmetric positive-definite band...	F07HDF
Cholesky factorization of real symmetric positive-definite...	F07FDF
LDL^T factorization of real symmetric positive-definite...	F01MCF
LU factorization of real tridiagonal matrix	F01LEF
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QR factorization of UZ or RQ factorization of ZU ,...	F06TTF
QR factorization of UZ or RQ factorization of ZU ,...	F06QTF
QR factorization of UZ or RQ factorization of ZU , U complex upper triangular,...	F06TTF
QR factorization of UZ or RQ factorization of ZU , U real upper triangular, Z a...	F06QTF
QR factorization , possibly followed by SVD	F02WDF
QR factorization with column pivoting of complex general...	F08BSF
QR factorization with column pivoting of real general...	F08BEF
Hard fail	P01
Soft fail	P01
Failures	P01
...measurement and time update, one iteration of Kalman filter , time-invariant, square root covariance filter	G13EBF
...measurement and time update, one iteration of Kalman filter , time-varying, square root covariance filter	G13EAF
...of Kalman filter, time-varying, square root covariance filter	G13EAF
...Kalman filter, time-invariant, square root covariance filter	G13EBF
Multivariate time series, filtering by a transfer function model	G13BBF
Multivariate time series, filtering (pre-whitening) by an ARIMA model	G13BAF
ODEs, IVP, root-finding diagnostics for D02QFF and D02QGF	D02QYF

ODEs, IVP, Adams method with root-finding (forward communication, comprehensive)	D02QFF
ODEs, IVP, Adams method with root-finding (reverse communication, comprehensive)	D02QGF
Elliptic PDE, solution of finite difference equations by a multigrid technique	D03EDF
Elliptic PDE, solution of finite difference equations by SIP, five-point 2-D...	D03EBF
Elliptic PDE, solution of finite difference equations by SIP, five-point 2-D...	D03UAF
Elliptic PDE, solution of finite difference equations by SIP, seven-point 3-D...	D03ECF
Elliptic PDE, solution of finite difference equations by SIP, seven-point 3-D...	D03UBF
ODEs, general nonlinear boundary value problem, finite difference technique with deferred correction,...	D02RAF
ODEs, boundary value problem, finite difference technique with deferred correction,...	D02GBF
ODEs, boundary value problem, finite difference technique with deferred correction,...	D02GAF
General system of parabolic PDEs, method of lines, finite differences, one space variable	D03PCF
...of parabolic PDEs, coupled DAEs, method of lines, finite differences, one space variable	D03PHF
...of parabolic PDEs, coupled DAEs, method of lines, finite differences, remeshing, one space variable	D03PPF
General system of 2nd order PDEs, method of lines, finite differences, remeshing, two space variables, rectangular region	D03RAF
General system of 2nd order PDEs, method of lines, finite differences, remeshing, two space variables, rectilinear region	D03RBF
1-D quadrature, adaptive, finite interval, allowing for singularities at...	D01ALF
1-D quadrature, non-adaptive, finite interval	D01BDF
1-D quadrature, adaptive, finite interval, method suitable for oscillating...	D01AKF
1-D quadrature, adaptive, finite interval, strategy due to Patterson, suitable...	D01AHF
1-D quadrature, adaptive, finite interval, strategy due to Piessens and de...	D01AJF
1-D quadrature, adaptive, finite interval, variant of D01AJF efficient on vector...	D01ATF
1-D quadrature, adaptive, finite interval, variant of D01AKF efficient on vector...	D01AUF
1-D quadrature, adaptive, finite interval, weight function $1/(x - c)$, Cauchy...	D01AQF
1-D quadrature, adaptive, finite interval, weight function $\cos(\omega x)$ or...	D01ANF
1-D quadrature, adaptive, finite interval, weight function with end-point...	D01APF
1-D quadrature, non-adaptive, finite interval with provision for indefinite integrals	D01ARF
2nd order Sturm–Liouville problem, regular system, finite range, eigenvalue only	D02KAF
2-D quadrature, finite region	D01DAF
...order Sturm–Liouville problem, regular/singular system, finite/infinite range, eigenvalue and eigenfunction,...	D02KEF
...order Sturm–Liouville problem, regular/singular system, finite/infinite range, eigenvalue only, user-specified...	D02KDF
Two-way contingency table analysis, with χ^2 /Fisher's exact test	G01AFF
Least-squares cubic spline curve fit, automatic knot placement	E02BEF
Least-squares surface fit, bicubic splines	E02DAF
Least-squares surface fit by bicubic splines with automatic knot placement,...	E02DCF
Least-squares surface fit by bicubic splines with automatic knot placement,...	E02DDF
Least-squares curve fit, by polynomials, arbitrary data points	E02ADF
Least-squares surface fit by polynomials, data on lines	E02CAF
Minimax curve fit by polynomials	E02ACF
Fit cubic smoothing spline, smoothing parameter...	G10ACF
Fit cubic smoothing spline, smoothing parameter given	G10ABF
Least-squares curve cubic spline fit (including interpolation)	E02BAF
Least-squares polynomial fit, special data points (including interpolation)	E02AFF
Performs the χ^2 goodness of fit test, for standard continuous distributions	G08CGF
Goodness of fit tests	G08
Least-squares polynomial fit, values and derivatives may be constrained,...	E02AGF
Fits a general linear regression model for new...	G02DGF
Fits a general (multiple) linear regression model	G02DAF
Fits a generalized linear model with binomial errors	G02GBF
Fits a generalized linear model with gamma errors	G02GDF
Fits a generalized linear model with Normal errors	G02GAF
Fits a generalized linear model with Poisson errors	G02GCF
Fits a linear regression model by forward selection	G02EEF
Fits Cox's proportional hazard model	G12BAF
Evaluation of a fitted bicubic spline at a mesh of points	E02DFF
Evaluation of a fitted bicubic spline at a vector of points	E02DEF
Evaluation of fitted bicubic spline, definite integral	E02BDF
Evaluation of fitted cubic spline, function and derivatives	E02BCF
Evaluation of fitted cubic spline, function only	E02BBF
Derivative of fitted polynomial in Chebyshev series form	E02AHF
Integral of fitted polynomial in Chebyshev series form	E02AJF
Evaluation of fitted polynomial in one variable, from Chebyshev...	E02AKF
Evaluation of fitted polynomial in one variable from Chebyshev series...	E02AEF
Evaluation of fitted polynomial in two variables	E02CBF
Evaluation of fitted rational function as computed by E02RAF	E02RBF
Interpolating functions, fitting bicubic spline, data on rectangular grid	E01DAF
Sort 2-D data into panels for fitting bicubic splines	E02ZAF
...PDE, solution of finite difference equations by SIP, five-point 2-D molecule, iterate to convergence	D03EBF
...PDE, solution of finite difference equations by SIP, five-point 2-D molecule, one iteration	D03UAF
Computes a five-point summary (median, hinges and extremes)	G01ALF
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Parameter of floating-point arithmetic model, e_{\max}	X02BLF
Parameter of floating-point arithmetic model, e_{\min}	X02BKF
Parameter of floating-point arithmetic model, p	X02BJF
Parameter of floating-point arithmetic model, ROUNDS	X02DJF
Safe range of floating-point arithmetic	X02AMF
Safe range of complex floating-point arithmetic	X02ANF
...DAEs, method of lines, upwind scheme using numerical flux function based on Riemann solver, one space	D03PLF
...form, method of lines, upwind scheme using numerical flux function based on Riemann solver, one space...	D03PPF
...DAEs, method of lines, upwind scheme using numerical flux function based on Riemann solver, remeshing	D03PSF
Multivariate time series, update state set for forecasting from multi-input model	G13BGF
Univariate time series, forecasting from state set	G13AHF
Multivariate time series, forecasting from state set of multi-input model	G13BHF
Univariate time series, update state set for forecasting	G13AGF
Multivariate time series, forecasts and their standard errors	G13DJF
Multivariate time series, updates forecasts and their standard errors	G13DKF
Multivariate time series, state set and forecasts from fully specified multi-input model	G13BJF
Univariate time series, state set and forecasts, from fully specified seasonal ARIMA model	G13AJF
ODEs, IVP, Adams method with root-finding (forward communication, comprehensive)	D02QFF
Fits a linear regression model by forward selection	G02EEF
2-D complex discrete Fourier transform	C06FUF
3-D complex discrete Fourier transform	C06FXF
Single 1-D real discrete Fourier transform, extra workspace for greater speed	C06FAF
Single 1-D Hermitian discrete Fourier transform, extra workspace for greater speed	C06FBF
Single 1-D complex discrete Fourier transform, extra workspace for greater speed	C06FCF

Single 1-D real discrete	Fourier transform, no extra workspace	C06EAF
Single 1-D Hermitian discrete	Fourier transform, no extra workspace	C06EBF
Single 1-D complex discrete	Fourier transform, no extra workspace	C06ECF
1-D complex discrete	Fourier transform of multi-dimensional data	C06FFF
Multi-dimensional complex discrete	Fourier transform of multi-dimensional data	C06FJF
Multiple 1-D real discrete	Fourier transforms	C06FFP
Multiple 1-D Hermitian discrete	Fourier transforms	C06FQF
Multiple 1-D complex discrete	Fourier transforms	C06FRF
Linear non-singular	Fredholm integral equation, 2nd kind, smooth kernel	D05ABF
Linear non-singular	Fredholm integral equation, 2nd kind, split kernel	D05AAF
	Frequency count for G11SAF	G11SBF
...spectrum using spectral smoothing by the trapezium	frequency (Daniell) window	G13CBF
...spectrum using spectral smoothing by the trapezium	frequency (Daniell) window	G13CDF
	Frequency table from raw data	G01AEF
...variance, skewness, kurtosis etc, one variable, from	frequency table	G01ADF
	Fresnel integral $C(x)$	S20ADF
	Fresnel integral $S(x)$	S20ACF
	Friedman two-way analysis of variance on k matched...	G08AEF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex band...	F06UBF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UAF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UEF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UCF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UDF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UMF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UHF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UFF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UGF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UJF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06ULF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UKF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real band...	F06RBF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real general...	F06RAF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real...	F06RMF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real...	F06REF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real...	F06RCF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real...	F06RDF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real...	F06RLF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real...	F06RKF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real...	F06RKF
Multivariate time series, gain , phase, bounds, univariate and bivariate (cross)...		G13CFF
Computes probabilities for the	gamma distribution	G01EFF
Computes deviates for the	gamma distribution	G01FFF
Generates a vector of pseudo-random numbers from a	gamma distribution	G05FFF
Fits a generalized linear model with	gamma errors	G02GDF
	Gamma function	S14AAF
	Log Gamma function	S14ABF
	Incomplete gamma functions $P(a, x)$ and $Q(a, x)$	S14BAF
Euler's constant, γ		X01ABF
	Performs the gaps test for randomness	G08EDF
	Gather a complex sparse vector (CGTHR/ZGTHR)	F06GUF
	Gather a real sparse vector (SGTHR/DGTHR)	F06EUF
	Gather and set to zero a complex sparse vector...	F06GVF
	Gather and set to zero a real sparse vector...	F06EVF
Kernel density estimate using	Gaussian kernel	G10BAF
1-D	Gaussian quadrature	D01BAF
Multi-dimensional	Gaussian quadrature over hyper-rectangle	D01BBF
Calculation of weights and abscissae for	Gaussian quadrature rules, general choice of rule	D01BCF
Pre-computed weights and abscissae for	Gaussian quadrature rules, restricted choice of rule	D01BBF
Real general	Gauss–Markov linear model (including weighted...	F04JLF
Complex general	Gauss–Markov linear model (including weighted...	F04KLF
Unconstrained minimum of a sum of squares, combined	Gauss–Newton and modified Newton algorithm using 1st...	E04GDF
Unconstrained minimum of a sum of squares, combined	Gauss–Newton and modified Newton algorithm using 1st...	E04GZF
Unconstrained minimum of a sum of squares, combined	Gauss–Newton and modified Newton algorithm, using 2nd...	E04HEF
Unconstrained minimum of a sum of squares, combined	Gauss–Newton and modified Newton algorithm, using 2nd...	E04HYF
Unconstrained minimum of a sum of squares, combined	Gauss–Newton and modified Newton algorithm using...	E04FCF
Unconstrained minimum of a sum of squares, combined	Gauss–Newton and modified Newton algorithm using...	E04FYF
Unconstrained minimum of a sum of squares, combined	Gauss–Newton and quasi-Newton algorithm using 1st...	E04GBF
Unconstrained minimum of a sum of squares, combined	Gauss–Newton and quasi-Newton algorithm, using 1st...	E04GYF
All eigenvalues and optionally eigenvectors of	generalized banded real symmetric-definite eigenproblem...	F02FHF
...to standard form of complex Hermitian-definite	generalized complex eigenproblem by QZ algorithm...	F02GJF
Reduction to standard form of real symmetric-definite	generalized eigenproblem $Ax = \lambda Bx$, $ABx = \dots$	F08SSF
...to standard form of complex Hermitian-definite	generalized eigenproblem $Ax = \lambda Bx$, $ABx = \dots$	F08SEF
Reduction to standard form of real symmetric-definite	generalized eigenproblem $Ax = \lambda Bx$, $ABx = \lambda \dots$	F08TSF
All eigenvalues and optionally eigenvectors of	generalized eigenproblem $Ax = \lambda Bx$, $ABx = \lambda \dots$	F08TEF
Computes estimable function of a	generalized eigenproblem by QZ algorithm, real...	F02BJF
Fits a	generalized linear model and its standard error	G02GNF
Fits a	generalized linear model with binomial errors	G02GBF
Fits a	generalized linear model with gamma errors	G02GDF
Fits a	generalized linear model with Normal errors	G02GAF
Fits a	generalized linear model with Poisson errors	G02GCF
Computes orthogonal rotations for loading matrix,	generalized orthomax criterion	G03BAF
...eigenvalues and eigenvectors of real symmetric-definite	generalized problem (Black Box)	F02FDF
...and eigenvectors of complex Hermitian-definite	generalized problem (Black Box)	F02HDF
Eigenvector of	generalized real banded eigenproblem by inverse...	F02SDF
Reduction to standard form,	generalized real symmetric-definite banded eigenproblem	F01BVF
	Generate complex elementary reflection	F06HRF
	Generate complex plane rotation, storing tangent, real...	F06CAF
	Generate complex plane rotation, storing tangent, real...	F06CBF
	Generate next term from reference vector for ARMA time...	G05EWF
	Generate orthogonal transformation matrices from...	F08KFF
	Generate orthogonal transformation matrix from...	F08NFF
	Generate orthogonal transformation matrix from...	F08FFF
	Generate orthogonal transformation matrix from...	F08GFF
	Generate real elementary reflection, LINPACK style	F06FSF
	Generate real elementary reflection, NAG style	F06FRF
	Generate real Jacobi plane rotation	F06BEF
	Generate real plane rotation (SROTG/DROTG)	F06AAF

	Generate real plane rotation, storing tangent	F06BAF
	Generate sequence of complex plane rotations	F06HQF
	Generate sequence of real plane rotations	F06FQF
	Generate unitary transformation matrices from reduction...	F08KTF
	Generate unitary transformation matrix from reduction...	F08NTF
	Generate unitary transformation matrix from reduction...	F08FTF
	Generate unitary transformation matrix from reduction...	F08GTF
	Generate weights for use in solving Volterra equations	D05BWF
	Generate weights for use in solving weakly singular...	D05BYF
	Generates a realisation of a multivariate time series...	G05HDF
	Generates a vector of pseudo-random numbers from a beta...	G05FEF
	Generates a vector of pseudo-random numbers from a...	G05FFF
	Generates a vector of random numbers from a Normal...	G05FDF
	Generates a vector of random numbers from a uniform...	G05FAF
	Generates a vector of random numbers from an (negative)...	G05FBF
	Generates vector of pseudo-random variates from Von...	G05FSF
Set up reference vector for	generating pseudo-random integers, binomial...	G05EDF
Set up reference vector for	generating pseudo-random integers, hypergeometric...	G05EFF
Set up reference vector for	generating pseudo-random integers, negative binomial...	G05EEF
Set up reference vector for	generating pseudo-random integers, Poisson distribution	G05ECF
Set up reference vector for	generating pseudo-random integers, uniform distribution	G05EBF
Save state of random number	generating routines	G05CFF
Restore state of random number	generating routines	G05CGF
Initialise random number	generating routines to give non-repeatable sequence	G05CCF
Initialise random number	generating routines to give repeatable sequence	G05CBF
...integration of function defined by data values,	Gill–Miller method	D01GAF
Performs the χ^2	goodness of fit test, for standard continuous...	G08CGF
	Goodness of fit tests	G08
Unconstrained minimum, preconditioned conjugate	gradient algorithm, function of several variables using...	E04DGF
Estimate (using numerical differentiation)	gradient and/or Hessian of a function	E04XAF
...symmetric linear systems, preconditioned conjugate	gradient or Lanczos	F11GBF
...of real sparse symmetric linear system, conjugate	gradient/Lanczos method, Jacobi or SSOR preconditioner...	F11JEF
...of real sparse symmetric linear system, conjugate	gradient/Lanczos method, preconditioner computed by...	F11JCF
	Gram–Schmidt orthogonalisation of n vectors of order...	F05AAF
Extract	grid data from D03RBF	D03RZF
Check initial	grid data in D03RBF	D03RYF
Computes test statistic for equality of within-	group covariance matrices and matrices for discriminant...	G03DAF
Computes Mahalanobis squared distances for	group or pooled variance-covariance matrices (for use...	G03DBF
...for parameters of the Normal distribution from	grouped and/or censored data	G07BBF
Allocates observations to	groups according to selected rules (for use after...	G03DCF
	Hankel functions $H_{\nu+a}^{(j)}(z)$, $j = 1, 2$, real $a...$	S17DLF
	Hard fail	P01
Fits Cox's proportional	hazard model	G12BAF
Elliptic PDE,	Helmholtz equation, 3-D Cartesian co-ordinates	D03FAF
...functions, monotonicity-preserving, piecewise cubic	Hermite , one variable	E01BEF
Matrix-vector product, complex	Hermitian band matrix (CHBMV/ZHBMV)	F06SDF
...Frobenius norm, largest absolute element, complex	Hermitian band matrix	F06UEF
Unitary reduction of complex	Hermitian band matrix to real symmetric tridiagonal...	F08HSF
Single 1-D	Hermitian discrete Fourier transform, extra workspace...	C06BBF
Single 1-D	Hermitian discrete Fourier transform, no extra...	C06EBF
Multiple 1-D	Hermitian discrete Fourier transforms	C06FQF
Bunch–Kaufman factorization of complex	Hermitian indefinite matrix (CHETRF/ZHETRF)	F07MRF
Estimate condition number of complex	Hermitian indefinite matrix, matrix already factorized...	F07MUF
Inverse of a complex	Hermitian indefinite matrix, matrix already factorized...	F07MWF
Estimate condition number of complex	Hermitian indefinite matrix, matrix already factorized...	F07PUF
Inverse of a complex	Hermitian indefinite matrix, matrix already factorized...	F07PWF
Bunch–Kaufman factorization of complex	Hermitian indefinite matrix, packed storage...	F07PRF
Refined solution with error bounds of complex	Hermitian indefinite system of linear equations,...	F07MYF
Solution of complex	Hermitian indefinite system of linear equations,...	F07MSF
Solution of complex	Hermitian indefinite system of linear equations,...	F07PSF
Refined solution with error bounds of complex	Hermitian indefinite system of linear equations,...	F07PVF
Unitary similarity transformation of a	Hermitian matrix as a sequence of plane rotations	F06TMF
All eigenvalues and eigenvectors of complex	Hermitian matrix (Black Box)	F02HAF
Selected eigenvalues and eigenvectors of complex	Hermitian matrix (Black Box)	F02HCF
Matrix-vector product, complex	Hermitian matrix (CHEMV/ZHEMV)	F06SCF
Rank-2k update of a complex	Hermitian matrix (CHER2K/ZHER2K)	F06ZRF
Rank-2 update, complex	Hermitian matrix (CHER2/ZHER2)	F06SRF
Rank-k update of a complex	Hermitian matrix (CHERK/ZHERK)	F06ZPF
Rank-1 update, complex	Hermitian matrix (CHER/ZHER)	F06SPF
Apply complex similarity rotation to 2 by 2	Hermitian matrix	F06CHF
...Frobenius norm, largest absolute element, complex	Hermitian matrix	F06UCF
Matrix-matrix product, one complex	Hermitian matrix, one complex rectangular matrix...	F06ZCF
...Frobenius norm, largest absolute element, complex	Hermitian matrix, packed storage	F06UDF
Unitary reduction of complex	Hermitian matrix to real symmetric tridiagonal form...	F08FSF
Unitary reduction of complex	Hermitian matrix to real symmetric tridiagonal form,...	F08GSF
...real symmetric tridiagonal matrix, reduced from complex	Hermitian matrix, using implicit QL or $QR...$	F08JSF
Matrix-vector product, complex	Hermitian packed matrix (CHPMV/ZHPMV)	F06SEF
Rank-2 update, complex	Hermitian packed matrix (CHPR2/ZHPR2)	F06SSF
Rank-1 update, complex	Hermitian packed matrix (CHPR/ZHPR)	F06SQF
...definite tridiagonal matrix, reduced from complex	Hermitian positive definite matrix (CPTEQR/ZPTEQR)	F08JUF
Cholesky factorization of complex	Hermitian positive-definite band matrix (CPBTRF/ZPBTRF)	F07HRF
Estimate condition number of complex	Hermitian positive-definite band matrix, matrix already...	F07HUF
Refined solution with error bounds of complex	Hermitian positive-definite band system of linear...	F07HVF
Solution of complex	Hermitian positive-definite band system of linear...	F07HSF
Cholesky factorization of complex	Hermitian positive-definite matrix (CPOTRF/ZPOTRF)	F07FRF
Estimate condition number of complex	Hermitian positive-definite matrix, matrix already...	F07FUF
Inverse of a complex	Hermitian positive-definite matrix, matrix already...	F07FWF
Estimate condition number of complex	Hermitian positive-definite matrix, matrix already...	F07GUF
Inverse of a complex	Hermitian positive-definite matrix, matrix already...	F07GWF
Cholesky factorization of complex	Hermitian positive-definite matrix, packed storage...	F07GRF
Refined solution with error bounds of complex	Hermitian positive-definite system of linear equations,...	F07FVF
Solution of complex	Hermitian positive-definite system of linear equations,...	F07FSF
Solution of complex	Hermitian positive-definite system of linear equations,...	F07GSF
Refined solution with error bounds of complex	Hermitian positive-definite system of linear equations,...	F07GVF
Complex conjugate of	Hermitian sequence	C06GBF
Complex conjugate of multiple	Hermitian sequences	C06GQF
Convert	Hermitian sequences to general complex sequences	C06GSF

Reduction to standard form of complex	Hermitian-definite generalized eigenproblem $Ax = \dots$	F08SSF
Reduction to standard form of complex	Hermitian-definite generalized eigenproblem $Ax = \lambda \dots$	F08TSF
All eigenvalues and eigenvectors of complex	Hermitian-definite generalized problem (Black Box)	F02HDF
Unitary reduction of complex general matrix to upper	Hessenberg form (CGEHRD/ZGEHRD)	F08NSF
...orthogonal transformation matrix from reduction to	Hessenberg form determined by F08NEF (SORGHR/DORGHR)	F08NFF
...orthogonal transformation matrix from reduction to	Hessenberg form determined by F08NEF (SORMHR/DORMHR)	F08NGF
...unitary transformation matrix from reduction to	Hessenberg form determined by F08NSF (CUNGHR/ZUNGHR)	F08NTF
Apply unitary transformation matrix from reduction to	Hessenberg form determined by F08NSF (CUNMHR/ZUNMHR)	F08NUF
Orthogonal reduction of real general matrix to upper	Hessenberg form (SGEHRD/DGEHRD)	F08NEF
...right and/or left eigenvectors of complex upper	Hessenberg matrix by inverse iteration (CHSEIN/ZHSEIN)	F08PXF
Selected right and/or left eigenvectors of real upper	Hessenberg matrix by inverse iteration (SHSEIN/DHSEIN)	F08PKF
Compute upper	Hessenberg matrix by sequence of plane rotations,...	F06TVF
Compute upper	Hessenberg matrix by sequence of plane rotations, real...	F06QVF
...by sequence of plane rotations, real upper	Hessenberg matrix	F06QRF
...Frobenius norm, largest absolute element, real	Hessenberg matrix	F06RMF
...by sequence of plane rotations, complex upper	Hessenberg matrix	F06TRF
...Frobenius norm, largest absolute element, complex	Hessenberg matrix	F06UMF
Eigenvalues and Schur factorization of complex upper	Hessenberg matrix reduced from complex general matrix...	F08PSF
Eigenvalues and Schur factorization of real upper	Hessenberg matrix reduced from real general matrix...	F08PEF
...(using numerical differentiation) gradient and/or	Hessian of a function	E04XAF
Check user's routine for calculating	Hessian of a sum of squares	E04YBF
Two-way analysis of variance,	hierarchical classification, subgroups of unequal size	G04AGF
	Hierarchical cluster analysis	G03ECF
...weight function $1/(x - c)$, Cauchy principal value	(Hilbert transform)	D01AQF
Computes a five-point summary (median, hinges and extremes)		G01ALF
Lineprinter	histogram of one variable	G01AJF
Modified	HLL Riemann solver for Euler equations in conservative form,...	D03PWF
	Householder matrix	F06
Calculates a robust estimation of a correlation matrix,	Huber's weight function	G02HKF
	Hyperbolic Functions	S10
	Hypergeometric distribution function	G01BLF
...reference vector for generating pseudo-random integers,	hypergeometric distribution	G05EFF
Multi-dimensional Gaussian quadrature over	hyper-rectangle	D01FBF
Multi-dimensional adaptive quadrature over	hyper-rectangle	D01FCF
Multi-dimensional quadrature over	hyper-rectangle , Monte Carlo method	D01GBF
Multi-dimensional adaptive quadrature over	hyper-rectangle , multiple integrands	D01EAF
	IFAIL parameter	P01
...matrix, reduced from complex Hermitian matrix, using	implicit QL or QR (CSTEQR/ZSTEQR)	F08JSF
...matrix, reduced from real symmetric matrix using	implicit QL or QR (SSTEQR/DSTEQR)	F08JEF
	Implicit/algebraic ODEs, stiff IVP, banded Jacobian...	D02NHF
	Implicit/algebraic ODEs, stiff IVP, full Jacobian...	D02NGF
	Implicit/algebraic ODEs, stiff IVP (reverse...	D02NNF
	Implicit/algebraic ODEs, stiff IVP, sparse Jacobian...	D02NJF
Multivariate time series, noise spectrum, bounds,	impulse response function and its standard error	G13CGF
Real sparse symmetric matrix,	incomplete Cholesky factorization	F11JAF
Solution of linear system involving	incomplete Cholesky preconditioning matrix generated by...	F11JBF
	Incomplete gamma functions $P(a, x)$ and $Q(a, x)$	S14BAF
Real sparse unsymmetric linear systems,	incomplete LU factorization	F11DAF
Solution of linear system involving	incomplete LU preconditioning matrix generated by F11DAF	F11DBF
...non-adaptive, finite interval with provision for	indefinite integrals	D01ARF
Bunch-Kaufman factorization of complex Hermitian	indefinite matrix (CHETRF/ZHETRF)	F07MRF
Estimate condition number of real symmetric	indefinite matrix, matrix already factorized by F07MDF...	F07MGF
Inverse of a real symmetric	indefinite matrix, matrix already factorized by F07MDF...	F07MJF
Estimate condition number of complex Hermitian	indefinite matrix, matrix already factorized by F07MRF...	F07MUF
Inverse of a complex Hermitian	indefinite matrix, matrix already factorized by F07MRF...	F07MWF
Estimate condition number of real symmetric	indefinite matrix, matrix already factorized by F07PDF...	F07PGF
Inverse of a real symmetric	indefinite matrix, matrix already factorized by F07PDF...	F07PJF
Estimate condition number of complex Hermitian	indefinite matrix, matrix already factorized by F07PRF...	F07PUF
Inverse of a complex Hermitian	indefinite matrix, matrix already factorized by F07PRF...	F07PWF
Bunch-Kaufman factorization of complex Hermitian	indefinite matrix, packed storage (CHPTRF/ZHPTRF)	F07PRF
Bunch-Kaufman factorization of real symmetric	indefinite matrix, packed storage (SSPTRF/DSPTRF)	F07PDF
Bunch-Kaufman factorization of real symmetric	indefinite matrix (SSYTRF/DSYTRF)	F07MDF
Refined solution with error bounds of complex Hermitian	indefinite system of linear equations, multiple...	F07MVF
Solution of complex Hermitian	indefinite system of linear equations, multiple...	F07MEF
Solution of complex Hermitian	indefinite system of linear equations, multiple...	F07MSF
Solution of real symmetric	indefinite system of linear equations, multiple...	F07PEF
Solution of complex Hermitian	indefinite system of linear equations, multiple...	F07PSF
Refined solution with error bounds of complex Hermitian	indefinite system of linear equations, multiple...	F07PVF
Refined solution with error bounds of real symmetric	indefinite system of linear equations, multiple...	F07PHF
Refined solution with error bounds of real symmetric	indefinite system of linear equations, multiple...	F07MHF
	Index , complex vector element with largest absolute...	F06JMF
	Index , real vector element with largest absolute value...	F06JLF
Computes cluster	indicator variable (for use after G03ECF)	G03EJF
Return value of error	indicator/terminate with error message	P01ABF
...by general linear function subject to linear	inequality constraints	E02GBF
1-D quadrature, adaptive, infinite or semi-infinite interval		D01AMF
1-D quadrature, adaptive, semi-infinite interval, weight function $\cos(\omega x)$ or...		D01ASF
1-D quadrature, adaptive, infinite or semi-infinite interval		D01AMF
...problem, regular/singular system, finite/infinite range, eigenvalue and eigenfunction,...		D02KEF
...problem, regular/singular system, finite/infinite range, eigenvalue only, user-specified...		D02KDF
Bounded	Influence See Robust	
Calculates standardized residuals and	influence statistics	G02FAF
Real inner product added to	initial value, basic/additional precision	X03AAF
Complex inner product added to	initial value, basic/additional precision	X03ABF
Matrix	initialisation , complex rectangular matrix	F06THF

Matrix initialisation , real rectangular matrix	F06QHF
Initialise random number generating routines to give...	G05CCF
Initialise random number generating routines to give...	G05CBF
Real inner product added to initial value, basic/additional...	X03AAF
Complex inner product added to initial value, basic/additional...	X03ABF
Multivariate time series, estimation of multi- input model	G13BEF
...series, update state set for forecasting from multi- input model	G13BGF
...time series, forecasting from state set of multi- input model	G13BHF
...state set and forecasts from fully specified multi- input model	G13BJF
Input output utilities	X04
...real rectangular matrix, permutations represented by an integer array	F06QJF
...rectangular matrix, permutations represented by an integer array	F06VJF
Pseudo-random integer , Poisson distribution	G05DRF
Integer programming problem, branch and bound method	H02BBF
Integer programming solution, supplies further...	H02BZF
Largest representable integer	X02BBF
Fresnel integral $C(x)$	S20ADF
Evaluation of fitted cubic spline, definite integral	E02BDF
Exponential integral $E_1(x)$	S13AAF
Linear non-singular Fredholm integral equation, 2nd kind, smooth kernel	D05ABF
Linear non-singular Fredholm integral equation, 2nd kind, split kernel	D05AAF
Degenerate symmetrised elliptic integral of 1st kind $R_C(x, y)$	S21BAF
Symmetrised elliptic integral of 1st kind $R_F(x, y, z)$	S21BBF
Symmetrised elliptic integral of 2nd kind $R_D(x, y, z)$	S21BCF
Symmetrised elliptic integral of 3rd kind $R_J(x, y, z, r)$	S21BDF
Integral of fitted polynomial in Chebyshev series form	E02AJF
...values, interpolant computed by E01BEF, definite integral , one variable	E01BHF
Cosine integral $Ci(x)$	S13ACF
Sine integral $Si(x)$	S13ADF
Dawson's integral	S15AAF
Fresnel integral $S(x)$	S20ACF
...finite interval with provision for indefinite integrals	D01ARF
Numerical integration	D01
ODEs, IVP, integration diagnostics for D02PCF and D02PDF	D02PYF
1-D quadrature, integration of function defined by data values,...	D01GAF
ODEs, IVP, Runge-Kutta method, integration over one step	D02PDF
...Runge-Kutta method, until function of solution is zero, integration over range with intermediate output (simple driver)	D02BJF
ODEs, IVP, Runge-Kutta method, integration over range with output	D02PCF
ODEs, IVP, integrator diagnostics, for use with D02M-N routines	D02NYF
ODEs, IVP, set-up for continuation calls to integrator , for use with D02M-N routines,	D02NZF
...problem, shooting and matching technique, allowing interior matching point, general parameters to be...	D02AGF
Interpolated values, interpolant computed by E01BEF, definite integral, one...	E01BHF
Interpolated values, interpolant computed by E01BEF, function and 1st...	E01BGF
Interpolated values, interpolant computed by E01BEF, function only, one...	E01BBF
Interpolated values, evaluate rational interpolant computed by E01RAF, one variable	E01RBF
Interpolated values, evaluate interpolant computed by E01SAF, two variables	E01SBF
ODEs, IVP, interpolation for D02M-N routines, natural interpolant	D02MZF
ODEs, IVP, interpolation for D02M-N routines, natural interpolant	D02XJF
ODEs, IVP, interpolation for D02M-N routines, C_1 interpolant	D02XKF
Interpolating functions, polynomial interpolant , data may include derivative values, one...	E01AEF
Interpolating functions, cubic spline interpolant , one variable	E01BAF
Interpolating functions, rational interpolant , one variable	E01RAF
Interpolated values, Aitken's technique, unequally...	E01AAF
Interpolated values, evaluate interpolant computed by...	E01SBF
Interpolated values, evaluate rational interpolant...	E01RBF
Interpolated values, Everett's formula, equally spaced...	E01ABF
Interpolated values, interpolant computed by E01BEF,...	E01BHF
Interpolated values, interpolant computed by E01BEF,...	E01BGF
Interpolated values, interpolant computed by E01BEF,...	E01BFF
Interpolating functions, cubic spline interpolant, one...	E01BAF
Interpolating functions, fitting bicubic spline, data...	E01DAF
Interpolating functions, method of Renka and Cline, two...	E01SAF
Interpolating functions, modified Shepard's method, two...	E01SGF
Interpolating functions, monotonicity-preserving,...	E01BEF
Interpolating functions, polynomial interpolant, data...	E01AEF
Interpolating functions, rational interpolant, one...	E01RAF
...polynomial fit, special data points (including interpolation)	E02AFF
Least-squares curve cubic spline fit (including interpolation)	E02BAF
2nd order ODEs, IVP, interpolation for D02LAF	D02LZF
ODEs, IVP, interpolation for D02M-N routines, C_1 interpolant	D02XKF
ODEs, IVP, interpolation for D02M-N routines, natural interpolant	D02MZF
ODEs, IVP, interpolation for D02M-N routines, natural interpolant	D02XJF
ODEs, IVP, interpolation for D02PDF	D02PXF
ODEs, IVP, interpolation for D02QFF or D02QGF	D02QZF
ODEs, general nonlinear boundary value problem, interpolation for D02TKF	D02TYF
PDEs, spatial interpolation with D03PCF, D03PEF, D03PFF, D03PHF,...	D03PZF
PDEs, spatial interpolation with D03PDF or D03PJF	D03PYF
...and time update, one iteration of Kalman filter, time- invariant , square root covariance filter	G13EBF
...of complex matrix, form orthonormal basis of right invariant subspace for selected eigenvalues, with...	F08QUF
...of real matrix, form orthonormal basis of right invariant subspace for selected eigenvalues, with...	F08QGF
Pseudo- inverse and rank of a real m by n matrix ($m \geq \dots$)	F01BLF
Inverse distributions	G01F
...left eigenvectors of complex upper Hessenberg matrix by inverse iteration (CHSEIN/ZHSEIN)	F08PXF
Eigenvector of generalized real banded eigenproblem by inverse iteration	F02SDF
...left eigenvectors of real upper Hessenberg matrix by inverse iteration (SHSEIN/DHSEIN)	F08PKF
...eigenvectors of real symmetric tridiagonal matrix by inverse iteration, storing eigenvectors in complex...	F08JXF
...eigenvectors of real symmetric tridiagonal matrix by inverse iteration, storing eigenvectors in real array...	F08JKF
Evaluate inverse Laplace transform as computed by C06LBF	C06LCF

	Inverse Laplace transform, Crump's method	C06LAF
	Inverse Laplace transform, modified Weeks' method	C06LBF
	Inverse of a complex Hermitian indefinite matrix,...	F07MWF
	Inverse of a complex Hermitian indefinite matrix,...	F07PWF
	Inverse of a complex Hermitian positive-definite,...	F07FWF
	Inverse of a complex Hermitian positive-definite,...	F07GWF
	Inverse of a complex matrix, matrix already factorized...	F07AWF
	Inverse of a complex symmetric matrix, matrix already...	F07NWF
	Inverse of a complex symmetric matrix, matrix already...	F07QWF
	Inverse of a complex triangular matrix (CTRTRI/ZTRTRI)	F07TWF
	Inverse of a complex triangular matrix, packed storage...	F07UWF
	Inverse of a real matrix, matrix already factorized by...	F07AJF
	Inverse of a real symmetric indefinite matrix, matrix...	F07MJF
	Inverse of a real symmetric indefinite matrix, matrix...	F07PJF
	Inverse of a real symmetric positive-definite matrix,...	F07JFJ
	Inverse of a real symmetric positive-definite matrix,...	F07GJF
	Inverse of a real triangular matrix, packed storage...	F07UJF
	Inverse of a real triangular matrix (STRTRI/DTRTRI)	F07TJF
	Inverse of real symmetric positive-definite matrix	F01ADF
	Inverse of real symmetric positive-definite matrix...	F01ABF
	Invert a permutation	M01ZAF
Interpret MPSX data file defining	IP or LP problem, optimize and print solution	H02BFF
Converts MPSX data file defining	IP or LP problem to format required by H02BBF or E04MFF	H02BUF
Prints	IP or LP solutions with user specified names for rows...	H02BVF
...difference equations by SIP, five-point 2-D molecule,	iterate to convergence	D03EBF
...equations by SIP, seven-point 3-D molecule,	iterate to convergence	D03ECF
...of complex upper Hessenberg matrix by inverse	iteration (CHSEIN/ZHSEIN)	F08PXF
...equations by SIP, five-point 2-D molecule, one	iteration	D03UAF
...equations by SIP, seven-point 3-D molecule, one	iteration	D03UBF
...of generalized real banded eigenproblem by inverse	iteration	F02SDF
Combined measurement and time update, one	iteration of Kalman filter, time-invariant, square...	G13EBF
Combined measurement and time update, one	iteration of Kalman filter, time-varying, square root...	G13EAF
...eigenvectors of real upper Hessenberg matrix by inverse	iteration (SHSEIN/DHSEIN)	F08PKF
...of real symmetric tridiagonal matrix by inverse	iteration, storing eigenvectors in complex array...	F08JXF
...of real symmetric tridiagonal matrix by inverse	iteration, storing eigenvectors in real array...	F08JKF
...linear equations with multiple right-hand sides using	iterative refinement (Black Box)	F04ABF
...linear equations with multiple right-hand sides using	iterative refinement (Black Box)	F04AEF
...equations in n unknowns, rank = n , $m \geq n$ using	iterative refinement (Black Box)	F04AMF
...linear equations, one right-hand side using	iterative refinement (Black Box)	F04ASF
...linear equations, one right-hand side using	iterative refinement (Black Box)	F04ATF
...positive-definite simultaneous linear equations using	iterative refinement (coefficient matrix already...	F04AFJ
Solution of real simultaneous linear equations using	iterative refinement (coefficient matrix already...	F04AHF
...of real symmetric positive-definite matrix using	iterative refinement	F01ABF
	ODEs, IVP, Adams method, until function of solution is zero,...	D02CJF
	ODEs, IVP, Adams method with root-finding (forward...	D02QFF
	ODEs, IVP, Adams method with root-finding (reverse...	D02QGF
Explicit ODEs, stiff IVP, banded Jacobian (comprehensive)		D02NCF
Implicit/algebraic ODEs, stiff IVP, banded Jacobian (comprehensive)		D02NHF
	ODEs, IVP, BDF method, set-up for D02M-N routines	D02NVF
ODEs, stiff IVP, BDF method, until function of solution is zero,...		D02EJF
	ODEs, IVP, Blend method, set-up for D02M-N routines	D02NWF
	ODEs, IVP, DASSL method, set-up for D02M-N routines	D02MVJ
2nd order ODEs, IVP, diagnostics for D02LAF		D02LYF
	ODEs, IVP, diagnostics for D02QFF and D02QGF	D02QXF
	ODEs, IVP, error assessment diagnostics for D02PCF and D02PDF	D02PZF
	ODEs, IVP, for use with D02M-N routines, banded Jacobian,...	D02NTF
	ODEs, IVP, for use with D02M-N routines, full Jacobian,...	D02NSF
	ODEs, IVP, for use with D02M-N routines, sparse Jacobian,...	D02NRF
	ODEs, IVP, for use with D02M-N routines, sparse Jacobian,...	D02NUF
Explicit ODEs, stiff IVP, full Jacobian (comprehensive)		D02NBF
Implicit/algebraic ODEs, stiff IVP, full Jacobian (comprehensive)		D02NGF
	ODEs, IVP, integration diagnostics for D02PCF and D02PDF	D02PYF
	ODEs, IVP, integrator diagnostics, for use with D02M-N...	D02NYF
2nd order ODEs, IVP, interpolation for D02LAF		D02LZF
	ODEs, IVP, interpolation for D02M-N routines, C_1 ...	D02XKF
	ODEs, IVP, interpolation for D02M-N routines, natural...	D02MZJ
	ODEs, IVP, interpolation for D02M-N routines, natural...	D02XJF
	ODEs, IVP, interpolation for D02PDF	D02PJF
	ODEs, IVP, interpolation for D02QFF or D02QGF	D02QZF
	ODEs, IVP, resets end of range for D02PDF	D02PWJ
Explicit ODEs, stiff IVP (reverse communication, comprehensive)		D02NMF
Implicit/algebraic ODEs, stiff IVP (reverse communication, comprehensive)		D02NNF
	ODEs, IVP, root-finding diagnostics for D02QFF and D02QGF	D02QYF
	ODEs, IVP, Runge-Kutta method, integration over one step	D02PDF
	ODEs, IVP, Runge-Kutta method, integration over range with...	D02PCF
	ODEs, IVP, Runge-Kutta method, until function of solution is zero,...	D02BJF
	ODEs, IVP, Runge-Kutta-Merson method, until a component...	D02BGF
	ODEs, IVP, Runge-Kutta-Merson method, until function of...	D02BHF
2nd order ODEs, IVP, Runge-Kutta-Nystrom method		D02LAF
	ODEs, IVP, set-up for continuation calls to integrator, for...	D02NZF
2nd order ODEs, IVP, set-up for D02LAF		D02LXF
	ODEs, IVP, set-up for D02PCF and D02PDF	D02PVJ
	ODEs, IVP, set-up for D02QFF and D02QGF	D02QWF
Explicit ODEs, stiff IVP, sparse Jacobian (comprehensive)		D02NDF
Implicit/algebraic ODEs, stiff IVP, sparse Jacobian (comprehensive)		D02NJF
	ODEs, IVP, sparse Jacobian, linear algebra diagnostics, for...	D02NXF
	ODEs, IVP, weighted norm of local error estimate for D02M-N...	D02ZAF
...linear system, RGMRES, CGS, or Bi-CGSTAB method,	Jacobi or SSOR preconditioner (Black Box)	F11DEF
...linear system, conjugate gradient/Lanczos method,	Jacobi or SSOR preconditioner (Black Box)	F11JEF
Generate real	Jacobi plane rotation	F06BEF
Explicit ODEs, stiff IVP, full	Jacobian (comprehensive)	D02NBF
Explicit ODEs, stiff IVP, banded	Jacobian (comprehensive)	D02NCF
Explicit ODEs, stiff IVP, sparse	Jacobian (comprehensive)	D02NDF
Implicit/algebraic ODEs, stiff IVP, full	Jacobian (comprehensive)	D02NGF
Implicit/algebraic ODEs, stiff IVP, banded	Jacobian (comprehensive)	D02NHF
Implicit/algebraic ODEs, stiff IVP, sparse	Jacobian (comprehensive)	D02NJF
	Jacobian elliptic functions sn, cn and dn	S21CAF
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ODEs, IVP, sparse	Jacobian, linear algebra diagnostics, for use with...	D02NXF
ODEs, IVP, for use with D02M-N routines, full	Jacobian, linear algebra set-up	D02NSF
ODEs, IVP, for use with D02M-N routines, banded	Jacobian, linear algebra set-up	D02NTF
ODEs, IVP, for use with D02M-N routines, sparse	Jacobian, linear algebra set-up	D02NUF

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Combined measurement and time update, one iteration of Kalman filter, time-varying, square root covariance...	G13EAF
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Bunch– Kaufman factorization of complex Hermitian indefinite...	F07MRF
Bunch– Kaufman factorization of complex Hermitian indefinite...	F07PRF
Bunch– Kaufman factorization of complex symmetric matrix...	F07NRF
Bunch– Kaufman factorization of complex symmetric matrix,...	F07QRF
Bunch– Kaufman factorization of real symmetric indefinite...	F07PDF
Bunch– Kaufman factorization of real symmetric indefinite...	F07MDF
General system of 1st order PDEs, method of lines, Keller box discretisation, one space variable	D03PEF
...of 1st order PDEs, coupled DAEs, method of lines, Keller box discretisation, one space variable	D03PKF
...of 1st order PDEs, coupled DAEs, method of lines, Keller box discretisation, remeshing, one space...	D03PRF
Kelvin function bei x	S19ABF
Kelvin function ber x	S19AAF
Kelvin function kei x	S19ADF
Kelvin function ker x	S19ACF
Kendall's coefficient of concordance	G08DAF
Kendall/Spearman non-parametric rank correlation...	G02BPF
Kendall/Spearman non-parametric rank correlation...	G02BRF
Kendall/Spearman non-parametric rank correlation...	G02BNF
Kendall/Spearman non-parametric rank correlation...	G02BQF
Kendall/Spearman non-parametric rank correlation...	G02BSF
...Fredholm integral equation, 2nd kind, split kernel	D05AAF
...Fredholm integral equation, 2nd kind, smooth kernel	D05ABF
Kernel density estimate using Gaussian kernel	G10BAF
Kernel density estimate using Gaussian kernel	G10BAF
...surface fit by bicubic splines with automatic knot placement, data on rectangular grid	E02DCF
Least-squares cubic spline curve fit, automatic knot placement	E02BEF
...surface fit by bicubic splines with automatic knot placement, scattered data	E02DDF
Computes probabilities for the one-sample Kolmogorov–Smirnov distribution	G01EYF
Computes probabilities for the two-sample Kolmogorov–Smirnov distribution	G01EEF
Performs the one-sample Kolmogorov–Smirnov test for a user-supplied...	G08CCF
Performs the one-sample Kolmogorov–Smirnov test for standard distributions	G08CBF
Performs the two-sample Kolmogorov–Smirnov test	G08CDF
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Korobov optimal coefficients for use in D01GCF or...	D01GZF
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Mean, variance, skewness, kurtosis etc, one variable, from raw data	G01AAF
Mean, variance, skewness, kurtosis etc, two variables, from raw data	G01ABF
ODEs, IVP, Runge– Kutta method, integration over one step	D02PDF
ODEs, IVP, Runge– Kutta method, integration over range with output	D02PCF
ODEs, IVP, Runge– Kutta method, until function of solution is zero,...	D02BJF
ODEs, IVP, Runge– Kutta–Merson method, until a component attains given...	D02BGF
ODEs, IVP, Runge– Kutta–Merson method, until function of solution is zero...	D02BHF
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...spectrum using rectangular, Bartlett, Tukey or Parzen lag window	G13CAF
...spectrum using rectangular, Bartlett, Tukey or Parzen lag window	G13CCF
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All zeros of real polynomial, modified Laguerre method	C02AGF
...linear systems, preconditioned conjugate gradient or Lanczos	F11GBF
...sparse symmetric linear system, conjugate gradient/ Lanczos method, Jacobi or SSOR preconditioner (Black...	F11JEF
...sparse symmetric linear system, conjugate gradient/ Lanczos method, preconditioner computed by F11JAF...	F11JCF
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1-norm, ∞ -norm, Frobenius norm, largest absolute element, complex band matrix	F06UBF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, complex general matrix	F06UAF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, complex Hermitian band matrix	F06UEF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, complex Hermitian matrix	F06UCF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, complex Hermitian matrix,...	F06UDF
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1-norm, ∞ -norm, Frobenius norm, largest absolute element, complex symmetric band matrix	F06UHF
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1-norm, ∞ -norm, Frobenius norm, largest absolute element, complex symmetric matrix,...	F06UGF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, complex...	F06UJF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, complex triangular band...	F06ULF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, complex triangular matrix,...	F06UKF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, real band matrix	F06RBF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, real general matrix	F06RAF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, real Hessenberg matrix	F06RMF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, real symmetric band matrix	F06REF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, real symmetric matrix	F06RCF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, real symmetric matrix, packed...	F06RDF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, real trapezoidal/triangular...	F06RJF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, real triangular band matrix	F06RLF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, real triangular matrix,...	F06RKf
Index, complex vector element with largest absolute value (ICAMAX/IZAMAX)	F06JMF
Index, real vector element with largest absolute value (ISAMAX/IDAMAX)	F06JLF
Elements of real vector with largest and smallest absolute value	F06FLF
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Largest positive model number	X02ALF
Largest representable integer	X02BBF
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Constructs a stem and leaf plot	G01ARF
Equality-constrained real linear least squares problem	F04JMF
Least-squares cubic spline curve fit, automatic knot...	E02BEF
Least-squares curve cubic spline fit (including...	E02BAF
Least-squares curve fit, by polynomials, arbitrary data...	E02ADF
...linear ODEs, boundary value problem, collocation and least-squares	D02TGF
...general Gauss–Markov linear model (including weighted least-squares)	F04JLF
...general Gauss–Markov linear model (including weighted least-squares)	F04KLF
Equality-constrained complex linear least-squares	F04KMF
Least-squares (if rank = n) or minimal least-squares...	F04JGF
Least-squares (if rank = n) or minimal least-squares (if rank < n) solution of m real...	F04JGF
Least-squares polynomial fit, special data points...	E02AFF
Least-squares polynomial fit, values and derivatives...	E02AGF
Convex QP problem or linearly-constrained linear least-squares problem	E04NCF
Covariance matrix for nonlinear least-squares problem	E04YCF
Sparse linear least-squares problem, m real equations in n ...	F04QAF
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ODEs, boundary value problem, collocation and least-squares , single n th order linear equation	D02JAF
Minimal least-squares solution of m real equations in n ...	F04JDF
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Least-squares surface fit by bicubic splines with...	E02DCF
Least-squares surface fit by bicubic splines with...	E02DDF
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ODEs, boundary value problem, collocation and least-squares , system of 1st order linear equations	D02JBF
...matrices, χ^2 statistics and significance levels	G13DNF
Computes maximum likelihood estimates for parameters of the Normal...	G07BBF
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Computes Kaplan–Meier (product-limit) estimates of survival probabilities	G12AAF
ODEs, IVP, sparse Jacobian, linear algebra diagnostics, for use with D02M-N...	D02NXF
ODEs, IVP, for use with D02M-N routines, full Jacobian, linear algebra set-up	D02NSF
...IVP, for use with D02M-N routines, banded Jacobian, linear algebra set-up	D02NTF
...IVP, for use with D02M-N routines, sparse Jacobian, linear algebra set-up	D02NUF
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Computes lower tail probability for a linear combination of (central) χ^2 variables	G01JDF
Computes probability for a positive linear combination of χ^2 variables	G01JCF
...collocation and least-squares, single n th order linear equation	D02JAF
Solution of real tridiagonal simultaneous linear equations (coefficient matrix already factorized...	F04LFF
Solution of real almost block diagonal simultaneous linear equations (coefficient matrix already factorized...	F04LHF
...positive-definite variable-bandwidth simultaneous linear equations (coefficient matrix already factorized...	F04MCF
...of real symmetric positive-definite simultaneous linear equations (coefficient matrix already factorized...	F04ACF
Solution of real simultaneous linear equations (coefficient matrix already factorized...	F04AJF
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...collocation and least-squares, system of 1st order linear equations	D02JBF
...solution with error bounds of complex band system of linear equations, multiple right-hand sides...	F07BVF
Refined solution with error bounds of complex system of linear equations, multiple right-hand sides...	F07AVF
...error bounds of complex Hermitian indefinite system of linear equations, multiple right-hand sides...	F07MVF
...of complex Hermitian positive-definite band system of linear equations, multiple right-hand sides...	F07HVF
...bounds of complex Hermitian positive-definite system of linear equations, multiple right-hand sides...	F07FVF
...with error bounds of complex symmetric system of linear equations, multiple right-hand sides...	F07NVF
...for solution of complex band triangular system of linear equations, multiple right-hand sides...	F07VVF
Solution of complex band triangular system of linear equations, multiple right-hand sides...	F07VSF
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Solution of complex triangular system of linear equations, multiple right-hand sides...	F07TSF
Solution of real system of linear equations, multiple right-hand sides, matrix...	F07AEF
Solution of complex system of linear equations, multiple right-hand sides, matrix...	F07ASF
Solution of real band system of linear equations, multiple right-hand sides, matrix...	F07BEF
Solution of complex band system of linear equations, multiple right-hand sides, matrix...	F07BSF
Solution of real symmetric positive-definite system of linear equations, multiple right-hand sides, matrix...	F07FEF
...of complex Hermitian positive-definite system of linear equations, multiple right-hand sides, matrix...	F07FSF
Solution of real symmetric positive-definite system of linear equations, multiple right-hand sides, matrix...	F07GEF
...of complex Hermitian positive-definite system of linear equations, multiple right-hand sides, matrix...	F07GSF
...of real symmetric positive-definite band system of linear equations, multiple right-hand sides, matrix...	F07HEF
...of complex Hermitian positive-definite band system of linear equations, multiple right-hand sides, matrix...	F07HSF
Solution of real symmetric indefinite system of linear equations, multiple right-hand sides, matrix...	F07MEF
Solution of complex Hermitian indefinite system of linear equations, multiple right-hand sides, matrix...	F07MSF
Solution of complex symmetric system of linear equations, multiple right-hand sides, matrix...	F07NSF
Solution of real symmetric indefinite system of linear equations, multiple right-hand sides, matrix...	F07PEF
Solution of complex Hermitian indefinite system of linear equations, multiple right-hand sides, matrix...	F07PSF
Solution of complex symmetric system of linear equations, multiple right-hand sides, matrix...	F07QSF
...error bounds of complex Hermitian indefinite system of linear equations, multiple right-hand sides, packed...	F07PVF
...bounds of complex Hermitian positive-definite system of linear equations, multiple right-hand sides, packed...	F07GVF
...with error bounds of complex symmetric system of linear equations, multiple right-hand sides, packed...	F07QVF
...bounds for solution of complex triangular system of linear equations, multiple right-hand sides, packed...	F07UVF
Solution of complex triangular system of linear equations, multiple right-hand sides, packed...	F07USF
...bounds of real symmetric positive-definite system of linear equations, multiple right-hand sides, packed...	F07GHF
...error bounds of real symmetric indefinite system of linear equations, multiple right-hand sides, packed...	F07PHF
Error bounds for solution of real triangular system of linear equations, multiple right-hand sides, packed...	F07UHF
Solution of real triangular system of linear equations, multiple right-hand sides, packed...	F07UEF
...solution with error bounds of real band system of linear equations, multiple right-hand sides...	F07BHF
Refined solution with error bounds of real system of linear equations, multiple right-hand sides...	F07AHF
...of real symmetric positive-definite band system of linear equations, multiple right-hand sides...	F07HHF
...bounds of real symmetric positive-definite system of linear equations, multiple right-hand sides...	F07FFF
...error bounds of real symmetric indefinite system of linear equations, multiple right-hand sides...	F07MHF
...bounds for solution of real band triangular system of linear equations, multiple right-hand sides...	F07VHF
Solution of real band triangular system of linear equations, multiple right-hand sides...	F07VEF
Error bounds for solution of real triangular system of linear equations, multiple right-hand sides...	F07THF
Solution of real triangular system of linear equations, multiple right-hand sides...	F07TEF
Solution of real simultaneous linear equations, one right-hand side (Black Box)	F04ARF
Solution of real tridiagonal simultaneous linear equations, one right-hand side (Black Box)	F04EAF
...symmetric positive-definite tridiagonal simultaneous linear equations, one right-hand side (Black Box)	F04FAF
...of real symmetric positive-definite simultaneous linear equations, one right-hand side using iterative...	F04ASF
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...of real symmetric positive-definite simultaneous	linear equations using iterative refinement...	F04AFF
Solution of real simultaneous	linear equations using iterative refinement...	F04AHF
Solution of real simultaneous	linear equations with multiple right-hand sides (Black...	F04AAF
...of real symmetric positive-definite banded simultaneous	linear equations with multiple right-hand sides (Black...	F04ACF
Solution of complex simultaneous	linear equations with multiple right-hand sides (Black...	F04ADF
...of real symmetric positive-definite simultaneous	linear equations with multiple right-hand sides using...	F04ABF
Solution of real simultaneous	linear equations with multiple right-hand sides using...	F04AEF
L_1 -approximation by general	linear function	E02GAF
L_∞ -approximation by general	linear function	E02GCF
L_1 -approximation by general	linear function subject to linear inequality...	E02GBF
...by general linear function subject to	linear inequality constraints	E02GBF
Equality-constrained real	linear least squares problem	F04JMF
Equality-constrained complex	linear least-squares	F04KMF
Convex QP problem or linearly-constrained	linear least-squares problem	E04NCF
Sparse	linear least-squares problem, m real equations in $n...$	F04QAF
Covariance matrix for	linear least-squares problems, m real equations in...	F04YAF
Computes estimable function of a generalized	linear model and its standard error	G02GNF
...and standard errors of parameters of a general	linear model for given constraints	G02KGF
Real general Gauss–Markov	linear model (including weighted least-squares)	F04JLF
Complex general Gauss–Markov	linear model (including weighted least-squares)	F04KLF
Fits a generalized	linear model with binomial errors	G02GBF
Fits a generalized	linear model with gamma errors	G02GDF
Fits a generalized	linear model with Normal errors	G02GAF
Fits a generalized	linear model with Poisson errors	G02GCF
	Linear non-singular Fredholm integral equation, 2nd...	D05ABF
	Linear non-singular Fredholm integral equation, 2nd...	D05AAF
	n th order linear ODEs, boundary value problem, collocation and...	D02TGF
Estimates of	linear parameters and general linear regression model...	G02DDF
...difference technique with deferred correction, general	linear problem	D02GBF
	Multiple linear regression, from correlation coefficients, with...	G02CGF
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Computes estimable function of a general	linear regression model and its standard error	G02DNF
Fits a	linear regression model by forward selection	G02EEF
...and standard errors of parameters of a general	linear regression model for given constraints	G02DKF
Fits a general	linear regression model for new dependent variable	G02DGF
Estimates of linear parameters and general	linear regression model from updated model	G02DDF
Fits a general (multiple)	linear regression model	G02DAF
Add/delete an observation to/from a general	linear regression model	G02DCF
Add a new variable to a general	linear regression model	G02DEF
Delete a variable from a general	linear regression model	G02DDF
Service routines for multiple	linear regression, re-order elements of vectors and...	G02CCF
Service routines for multiple	linear regression, select elements from vectors and...	G02CEF
Simple	linear regression with constant term, missing values	G02CCF
Simple	linear regression with constant term, no missing values	G02CAF
Simple	linear regression without constant term, missing values	G02CDF
Simple	linear regression without constant term, no missing...	G02CBF
Computes residual sums of squares for all possible	linear regressions for a set of independent variables	G02EAF
Solution of real sparse symmetric	linear system, conjugate gradient/Lanczos method,...	F11JEF
Solution of real sparse symmetric	linear system, conjugate gradient/Lanczos method,...	F11JCF
Solution of real sparse unsymmetric	linear system, RGMRES, CGS, or Bi-CGSTAB method,...	F11DEF
Solution of real sparse unsymmetric	linear system, RGMRES, CGS or Bi-CGSTAB method,...	F11DCF
Solution of	linear system involving incomplete Cholesky...	F11JBF
Solution of	linear system involving incomplete LU preconditioning matrix...	F11DBF
Solution of	linear system involving preconditioning matrix...	F11DDF
Solution of	linear system involving preconditioning matrix...	F11JDF
Real sparse unsymmetric	linear systems, diagnostic for F11BBF	F11BCF
Real sparse symmetric	linear systems, diagnostic for F11GBF	F11GCF
Real sparse unsymmetric	linear systems, incomplete LU factorization	F11DAF
Real sparse symmetric	linear systems, preconditioned conjugate gradient or...	F11GBF
Real sparse unsymmetric	linear systems, preconditioned RGMRES, CGS or Bi-CGSTAB	F11BBF
Real sparse unsymmetric	linear systems, set-up for F11BBF	F11BAF
Real sparse symmetric	linear systems, set-up for F11GBF	F11GAF
Convex QP problem or linearly-constrained	linear least-squares problem	E04NCF
	Lineprinter histogram of one variable	G01AJF
	Lineprinter scatterplot of one variable against Normal...	G01AHF
	Lineprinter scatterplot of two variables	G01AGF
General system of parabolic PDEs, method of lines, Chebyshev C^0 collocation, one space variable		D03PDF
...system of parabolic PDEs, coupled DAEs, method of lines, Chebyshev C^0 collocation, one space variable		D03PJF
Least-squares surface fit by polynomials, data on lines		E02CAF
General system of parabolic PDEs, method of lines, finite differences, one space variable		D03PCF
...system of parabolic PDEs, coupled DAEs, method of lines, finite differences, one space variable		D03PHF
...system of parabolic PDEs, coupled DAEs, method of lines, finite differences, remeshing, one space...		D03PPF
General system of 2nd order PDEs, method of lines, finite differences, remeshing, two space variables, rectangular...		D03RAF
General system of 2nd order PDEs, method of lines, finite differences, remeshing, two space variables, rectilinear...		D03RBF
General system of 1st order PDEs, method of lines, Keller box discretisation, one space variable		D03PEF
...system of 1st order PDEs, coupled DAEs, method of lines, Keller box discretisation, one space variable		D03PKF
...system of 1st order PDEs, coupled DAEs, method of lines, Keller box discretisation, remeshing, one space...		D03PRF
...terms in conservative form, coupled DAEs, method of lines, upwind scheme using numerical flux function...		D03PLF
...PDEs with source terms in conservative form, method of lines, upwind scheme using numerical flux function...		D03PPF
...terms in conservative form, coupled DAEs, method of lines, upwind scheme using numerical flux function...		D03PSF
Generate real elementary reflection, LINPACK style		F06FSF
Apply real elementary reflection, LINPACK style		F06FUF
2nd order Sturm–Liouville problem, regular system, finite range,...		D02KAF
2nd order Sturm–Liouville problem, regular/singular system,...		D02KEF
2nd order Sturm–Liouville problem, regular/singular system,...		D02KDF
Computes orthogonal rotations for loading matrix, generalized orthomax criterion		G03BAF
...of the parameters of a factor analysis model, factor loadings, communalities and residual correlations		G03CAF
ODEs, IVP, weighted norm of local error estimate for D02M–N routines		D02ZAF
Robust estimation, M -estimates for location and scale parameters, standard weight...		G07DBF
Robust estimation, M -estimates for location and scale parameters, user-defined weight...		G07DCF
	Location tests	G08
	Log Gamma function	S14ABF
...function with end-point singularities of algebraico-logarithmic type		D01APF
Pseudo-random real numbers, logistic distribution		G05DCF
Pseudo-random real numbers, lognormal distribution		G05DEF
Computes upper and lower tail probabilities and probability density...		G01EEF

Computes lower tail probability for a linear combination of...	G01JDF
Converts MPSX data file defining LP problem	E04MFF
Interpret MPSX data file defining IP or LP or QP problem to format required by E04NKF	E04MZF
Converts MPSX data file defining IP or LP problem, optimize and print solution	E04NKF
Prints IP or LP solutions with user specified names for rows and...	H02BBF
Form all or part of orthogonal Q from LQ factorization determined by F08AHF (SORGLQ/DORGLQ)	H02BUF
Form all or part of unitary Q from LQ factorization determined by F08AVF (CUNGLQ/ZUNGLQ)	H02BVF
Real sparse unsymmetric linear systems, incomplete LU factorization	F08AJF
LU factorization and determinant of real matrix	F08AWF
LU factorization of complex m by n band matrix...	F08AVF
LU factorization of complex m by n matrix...	F08AHF
LU factorization of real almost block diagonal matrix	F11DAF
LU factorization of real m by n band matrix...	F03AFF
LU factorization of real m by n matrix...	F07BRF
LU factorization of real sparse matrix	F07ARF
LU factorization of real sparse matrix with known...	F01LHF
LU factorization of real tridiagonal matrix	F07BDF
LU preconditioning matrix generated by F11DAF	F07ADF
Machine Constants	F01BRF
Machine precision	F01BSF
Computes Mahalanobis squared distances for group or pooled...	F01LEF
Computes the exact probabilities for the Mann-Whitney U statistic, no ties in pooled sample	F11DBF
Computes the exact probabilities for the Mann-Whitney U statistic, ties in pooled sample	X02
Performs the Mann-Whitney U test on two independent samples	X02AJF
Computes marginal tables for multiway table computed by G11BAF...	G03DBF
Real general Gauss- Markov linear model (including weighted least-squares)	G08AJF
Complex general Gauss- Markov linear model (including weighted least-squares)	G08AKF
Performs the Wilcoxon one-sample (matched pairs) signed rank test	G08AHF
Friedman two-way analysis of variance on k matched samples	G11BCF
ODEs, boundary value problem, shooting and matching , boundary values to be determined	F04JLF
ODEs, boundary value problem, shooting and matching , general parameters to be determined	F04KLF
...shooting and matching technique, allowing interior matching point, general parameters to be determined	G08AGF
ODEs, boundary value problem, shooting and matching technique, allowing interior matching point,...	G08AEF
ODEs, boundary value problem, shooting and matching technique, subject to extra algebraic...	D02HAF
Mathematical Constants	D02HBF
Maximization	D02AGF
Computes maximum likelihood estimates for parameters of the...	D02AGF
Computes maximum likelihood estimates for parameters of the...	D02SAF
Computes the maximum likelihood estimates of the parameters of a...	X01
Maximum number of decimal digits that can be...	E04/H02
Computes a trimmed and winsorized mean of a single sample with estimates of their...	G07BBF
Computes quantities needed for range- mean or standard deviation-mean plot	G07BEF
...quantities needed for range-mean or standard deviation- mean plot	G03CAF
Mean , variance, skewness, kurtosis etc, one variable,...	X02BEF
Mean , variance, skewness, kurtosis etc, one variable,...	G07DDF
Mean , variance, skewness, kurtosis etc, two variables,...	G13AUF
...of variance, general row and column design, treatment means and standard errors	G13AUF
...block or completely randomized design, treatment means and standard errors	G04BCF
...of variance, complete factorial design, treatment means and standard errors	G04BBF
Computes t -test statistic for a difference in means between two Normal populations, confidence...	G04CAF
K - means cluster analysis	G07CAF
Computes confidence intervals for differences between means computed by G04BBF or G04BCF	G03EFF
Computes sum of squares for contrast between means	G04DBF
Combined measurement and time update, one iteration of Kalman...	G04DAF
Combined measurement and time update, one iteration of Kalman...	G13EBF
Robust estimation, median, median absolute deviation, robust standard deviation	G13EAF
Computes a five-point summary (median , hinges and extremes)	G07DAF
Robust estimation, median , median absolute deviation, robust standard...	G01ALF
Compute smoothed data sequence using running median smoothers	G07DAF
Median test on two samples of unequal size	G10CAF
Computes Kaplan- Meier (product-limit) estimates of survival...	G08ACF
ODEs, IVP, Runge-Kutta- Merson method, until a component attains given value...	G12AAF
ODEs, IVP, Runge-Kutta- Merson method, until function of solution is zero...	D02BGF
Evaluation of a fitted bicubic spline at a mesh of points	D02BHF
Performs non- metric (ordinal) multidimensional scaling	E02DFF
Performs principal coordinate analysis, classical metric scaling	G03FCF
...integration of function defined by data values, Gill-Miller method	G03FAF
Computes reciprocal of Mills' Ratio	D01GAF
Least-squares (if rank = n) or minimal least-squares (if rank < n) solution of m ...	G01MBF
Minimal least-squares solution of m real equations in...	F04JGF
Minimal least-squares solution of m real equations in...	F04JDF
Minimax curve fit by polynomials	F04JAF
Minimization	E02ACF
Minimum , function of one variable, using 1st derivative	E04/H02
Minimum , function of one variable using function values...	E04BBF
Minimum , function of several variables, modified Newton...	E04ABF
Minimum , function of several variables, modified Newton...	E04LYF
Minimum , function of several variables, modified Newton...	E04KZF
Minimum , function of several variables, modified Newton...	E04LBF
Minimum , function of several variables, modified Newton...	E04KDF
Minimum , function of several variables, quasi-Newton...	E04KYF

	Minimum, function of several variables, quasi-Newton...	E04JYF
	Minimum, function of several variables, sequential QP...	E04UCF
	Minimum, function of several variables, sequential QP...	E04UFF
Unconstrained	minimum of a sum of squares, combined Gauss–Newton and...	E04GDF
Unconstrained	minimum of a sum of squares, combined Gauss–Newton and...	E04GZF
Unconstrained	minimum of a sum of squares, combined Gauss–Newton and...	E04HEF
Unconstrained	minimum of a sum of squares, combined Gauss–Newton and...	E04HYF
Unconstrained	minimum of a sum of squares, combined Gauss–Newton and...	E04FCF
Unconstrained	minimum of a sum of squares, combined Gauss–Newton and...	E04FYF
Unconstrained	minimum of a sum of squares, combined Gauss–Newton and...	E04GBF
Unconstrained	minimum of a sum of squares, combined Gauss–Newton and...	E04GYF
	Minimum of a sum of squares, nonlinear constraints,...	E04UNF
Unconstrained	minimum, preconditioned conjugate gradient algorithm,...	E04DGF
Unconstrained	minimum, simplex algorithm, function of several...	E04CCF
Computes probability for Von Mises distribution		G01ERF
Generates vector of pseudo-random variates from Von Mises distribution		G05FSF
...correlation coefficients, all variables, no	missing values	G02BAF
...coefficients, all variables, casewise treatment of	missing values	G02BBF
...coefficients, all variables, pairwise treatment of	missing values	G02BCF
...coefficients (about zero), all variables, no	missing values	G02BDF
...(about zero), all variables, casewise treatment of	missing values	G02BEF
...(about zero), all variables, pairwise treatment of	missing values	G02BFF
...correlation coefficients, subset of variables, no	missing values	G02BGF
...subset of variables, casewise treatment of	missing values	G02BHF
...subset of variables, pairwise treatment of	missing values	G02BJF
...coefficients (about zero), subset of variables, no	missing values	G02BKF
...zero), subset of variables, casewise treatment of	missing values	G02BLF
...zero), subset of variables, pairwise treatment of	missing values	G02BMF
...rank correlation coefficients, pairwise treatment of	missing values	G02BSF
Simple linear regression with constant term, no	missing values	G02CAF
Simple linear regression without constant term, no	missing values	G02CBF
Simple linear regression with constant term,	missing values	G02CCF
Simple linear regression without constant term,	missing values	G02CDF
...non-parametric rank correlation coefficients, no	missing values, overwriting input data	G02BNF
...rank correlation coefficients, casewise treatment of	missing values, overwriting input data	G02BPF
...non-parametric rank correlation coefficients, no	missing values, preserving input data	G02BQF
...rank correlation coefficients, casewise treatment of	missing values, preserving input data	G02BRF
...estimable function of a general linear regression	model and its standard error	G02DNF
Computes estimable function of a generalized linear	model and its standard error	G02GNF
Fits a linear regression	model by forward selection	G02EEF
Univariate time series, estimation, seasonal ARIMA	model (comprehensive)	G13AEF
Univariate time series, estimation, seasonal ARIMA	model (easy-to-use)	G13AFF
Parameter of floating-point arithmetic	model, ϵ_{max}	X02BLF
Parameter of floating-point arithmetic	model, ϵ_{min}	X02BKF
...estimates of the parameters of a factor analysis	model, factor loadings, communalities and residual...	G03CAF
Contingency table, latent variable	model for binary data	G11SAF
...errors of parameters of a general linear regression	model for given constraints	G02DKF
...and standard errors of parameters of a general linear	model for given constraints	G02GKF
Fits a general linear regression	model for new dependent variable	G02DGF
...of linear parameters and general linear regression	model from updated model	G02DDF
Fits a general (multiple) linear regression	model	G02DAF
...an observation to/from a general linear regression	model	G02DCF
...and general linear regression model from updated	model	G02DDF
Add a new variable to a general linear regression	model	G02DEF
Delete a variable from a general linear regression	model	G02DFF
Set up reference vector for univariate ARMA time series	model	G05EGF
...next term from reference vector for ARMA time series	model	G05EWF
...realisation of a multivariate time series from a VARMA	model	G05HDF
Fits Cox's proportional hazard	model	G12BAF
...time series, preliminary estimation, seasonal ARIMA	model	G13ADF
...set and forecasts, from fully specified seasonal ARIMA	model	G13AJF
...time series, filtering (pre-whitening) by an ARIMA	model	G13BAF
...time series, filtering by a transfer function	model	G13BBF
...series, preliminary estimation of transfer function	model	G13BDF
Multivariate time series, estimation of multi-input	model	G13BEF
...update state set for forecasting from multi-input	model	G13BGF
...time series, forecasting from state set of multi-input	model	G13BHF
...set and forecasts from fully specified multi-input	model	G13BJF
Multivariate time series, estimation of VARMA	model	G13DCF
Real general Gauss–Markov linear	model (including weighted least-squares)	F04JLF
Complex general Gauss–Markov linear	model (including weighted least-squares)	F04KLF
Smallest positive	model number	X02AKF
Largest positive	model number	X02ALF
Parameter of floating-point arithmetic	model, p	X02BJF
Parameter of floating-point arithmetic	model, ROUNDS	X02DJF
Fits a generalized linear	model with binomial errors	G02GBF
Fits a generalized linear	model with gamma errors	G02GDF
Fits a generalized linear	model with Normal errors	G02GAF
Fits a generalized linear	model with Poisson errors	G02GCF
	Modified Bessel function $e^{- x }I_0(x)$	S18CEF
	Modified Bessel function $e^{- x }I_1(x)$	S18CFF
	Modified Bessel function $e^xK_0(x)$	S18CCF
	Modified Bessel function $e^xK_1(x)$	S18CDF
	Modified Bessel function $I_0(x)$	S18AEF
	Modified Bessel function $I_1(x)$	S18AFF
	Modified Bessel function $K_0(x)$	S18ACF
	Modified Bessel function $K_1(x)$	S18ADF
	Modified Bessel functions $I_{\nu+a}(z)$, real $a \geq \dots$	S18DEF
	Modified Bessel functions $K_{\nu+a}(z)$, real $a \geq \dots$	S18DCF
All zeros of complex polynomial,	modified Laguerre method	C02AFF
All zeros of real polynomial,	modified Laguerre method	C02AGF
Minimum, function of several variables,	modified Newton algorithm, simple bounds, using 1st and...	E04LBF
Minimum, function of several variables,	modified Newton algorithm, simple bounds, using 1st and...	E04LYF
Minimum, function of several variables,	modified Newton algorithm, simple bounds, using 1st...	E04KDF
Minimum, function of several variables,	modified Newton algorithm, simple bounds, using 1st...	E04KZF
...minimum of a sum of squares, combined Gauss–Newton and	modified Newton algorithm using 1st derivatives...	E04GDF
...minimum of a sum of squares, combined Gauss–Newton and	modified Newton algorithm using 1st derivatives...	E04GZF
...minimum of a sum of squares, combined Gauss–Newton and	modified Newton algorithm, using 2nd derivatives...	E04HEF
...minimum of a sum of squares, combined Gauss–Newton and	modified Newton algorithm, using 2nd derivatives...	E04HYF
...minimum of a sum of squares, combined Gauss–Newton and	modified Newton algorithm using function values only...	E04FCF
...minimum of a sum of squares, combined Gauss–Newton and	modified Newton algorithm using function values only...	E04FYF
Interpolating functions,	modified Shepard's method, two variables	E01SGF
Inverse Laplace transform,	modified Weeks' method	C06LBF

	Modulus of a complex number	A02ABF
...of finite difference equations by SIP, five-point 2-D	molecule, iterate to convergence	D03EBF
...finite difference equations by SIP, seven-point 3-D	molecule, iterate to convergence	D03ECF
...of finite difference equations by SIP, five-point 2-D	molecule, one iteration	D03UAF
...of finite difference equations by SIP, seven-point 3-D	molecule, one iteration	D03UBF
Pearson product-moment correlation coefficients, all variables,...		G02BBF
Pearson product-moment correlation coefficients, all variables, no...		G02BAF
Pearson product-moment correlation coefficients, all variables,...		G02BCF
Pearson product-moment correlation coefficients, subset of variables,...		G02BHF
Pearson product-moment correlation coefficients, subset of variables,...		G02BGF
Pearson product-moment correlation coefficients, subset of variables,...		G02BJF
Cumulants and moments of quadratic forms in Normal variables		G01NAF
Moments of ratios of quadratic forms in Normal...		G01NBF
Interpolating functions, monotonicity-preserving, piecewise cubic Hermite, one...		E01BEF
Multi-dimensional quadrature over hyper-rectangle, Monte Carlo method		D01GBF
Mood's and David's tests on two samples of unequal size		G08BAF
Calculates the zeros of a vector autoregressive (or moving average) operator		G13DXF
Interpret MPSX data file defining IP or LP problem, optimize and...		H02BFF
Converts MPSX data file defining IP or LP problem to format...		H02BUF
Converts MPSX data file defining LP or QP problem to format...		E04MZF
Multi-dimensional adaptive quadrature over...		D01FCF
Multi-dimensional adaptive quadrature over...		D01EAF
Multi-dimensional complex discrete Fourier transform of...		C06FJF
1-D complex discrete Fourier transform of multi-dimensional data		C06FFF
Multi-dimensional complex discrete Fourier transform of multi-dimensional data		C06FJF
Multi-dimensional Gaussian quadrature over...		D01FBF
Multi-dimensional quadrature, general product region,...		D01GCF
Multi-dimensional quadrature, general product region,...		D01GDF
Multi-dimensional quadrature over an n-simplex		D01PAF
Multi-dimensional quadrature over an n-sphere,...		D01JAF
Multi-dimensional quadrature over hyper-rectangle,...		D01GBF
Multi-dimensional quadrature, Sag-Szekeres method,...		D01FDF
...PDE, solution of finite difference equations by a multigrid technique		D03EDF
Multivariate time series, estimation of multi-input model		G13BEF
...time series, update state set for forecasting from multi-input model		G13BGF
Multivariate time series, forecasting from state set of multi-input model		G13BHF
...series, state set and forecasts from fully specified multi-input model		G13BJF
Multiple 1-D complex discrete Fourier transforms		C06FRF
Multiple 1-D Hermitian discrete Fourier transforms		C06FQF
Multiple 1-D real discrete Fourier transforms		C06FPF
Complex conjugate of multiple Hermitian sequences		C06GQF
...adaptive quadrature over hyper-rectangle, multiple integrands		D01EAF
Multiple linear regression, from correlation...		G02CGF
Multiple linear regression, from correlation-like...		G02CHF
Fits a general (multiple) linear regression model		G02DAF
Service routines for multiple linear regression, re-order elements of...		G02CFF
Service routines for multiple linear regression, select elements from...		G02CEF
Solution of real simultaneous linear equations with multiple right-hand sides (Black Box)		F04AAF
...banded simultaneous linear equations with multiple right-hand sides (Black Box)		F04ACF
Solution of complex simultaneous linear equations with multiple right-hand sides (Black Box)		F04ADF
...bounds of complex band system of linear equations, multiple right-hand sides (CGBRFS/ZGBRFS)		F07BVF
...error bounds of complex system of linear equations, multiple right-hand sides (CGERFS/ZGERFS)		F07AVF
...Hermitian indefinite system of linear equations, multiple right-hand sides (CHERFS/ZHERFS)		F07MVF
Solves system of equations with multiple right-hand sides, complex triangular...		F06ZJF
...positive-definite band system of linear equations, multiple right-hand sides (CPBRFS/ZPBRFS)		F07HVF
...Hermitian positive-definite system of linear equations, multiple right-hand sides (CPORFS/ZPORFS)		F07FVF
...bounds of complex symmetric system of linear equations, multiple right-hand sides (CSYRFS/ZSYRFS)		F07NVF
...of complex band triangular system of linear equations, multiple right-hand sides (CTBRFS/ZTBRFS)		F07VVF
...of complex band triangular system of linear equations, multiple right-hand sides (CTBTRS/ZTBTRS)		F07VTF
...of complex triangular system of linear equations, multiple right-hand sides (CTRRFS/ZTRRFS)		F07TVF
...of complex triangular system of linear equations, multiple right-hand sides (CTRTRS/ZTRTRS)		F07TSF
Solution of real system of linear equations, multiple right-hand sides, matrix already factorized by...		F07AEF
Solution of complex system of linear equations, multiple right-hand sides, matrix already factorized by...		F07ASF
Solution of real band system of linear equations, multiple right-hand sides, matrix already factorized by...		F07BEF
Solution of complex band system of linear equations, multiple right-hand sides, matrix already factorized by...		F07BSF
...symmetric positive-definite system of linear equations, multiple right-hand sides, matrix already factorized by...		F07FEF
...Hermitian positive-definite system of linear equations, multiple right-hand sides, matrix already factorized by...		F07FSF
...symmetric positive-definite system of linear equations, multiple right-hand sides, matrix already factorized by...		F07GEF
...Hermitian positive-definite system of linear equations, multiple right-hand sides, matrix already factorized by...		F07GSF
...positive-definite band system of linear equations, multiple right-hand sides, matrix already factorized by...		F07HEF
...positive-definite band system of linear equations, multiple right-hand sides, matrix already factorized by...		F07HSF
...real symmetric indefinite system of linear equations, multiple right-hand sides, matrix already factorized by...		F07MEF
...Hermitian indefinite system of linear equations, multiple right-hand sides, matrix already factorized by...		F07MSF
...of complex symmetric system of linear equations, multiple right-hand sides, matrix already factorized by...		F07NSF
...real symmetric indefinite system of linear equations, multiple right-hand sides, matrix already factorized by...		F07PEF
...Hermitian indefinite system of linear equations, multiple right-hand sides, matrix already factorized by...		F07PSF
...of complex symmetric system of linear equations, multiple right-hand sides, matrix already factorized by...		F07QSF
...Hermitian indefinite system of linear equations, multiple right-hand sides, packed storage...		F07PVF
...Hermitian positive-definite system of linear equations, multiple right-hand sides, packed storage...		F07GVF
...bounds of complex symmetric system of linear equations, multiple right-hand sides, packed storage...		F07QVF
...of complex triangular system of linear equations, multiple right-hand sides, packed storage...		F07UVF
...symmetric positive-definite system of linear equations, multiple right-hand sides, packed storage...		F07USF
...real symmetric indefinite system of linear equations, multiple right-hand sides, packed storage...		F07GHF
...solution of real triangular system of linear equations, multiple right-hand sides, packed storage...		F07PHF
...solution of real triangular system of linear equations, multiple right-hand sides, packed storage...		F07UHF
Solution of real triangular system of linear equations, multiple right-hand sides, packed storage...		F07UEF
Solves a system of equations with multiple right-hand sides, real triangular coefficient...		F06YJF
...error bounds of real band system of linear equations, multiple right-hand sides (SGBRFS/DGBRFS)		F07BHF
...with error bounds of real system of linear equations, multiple right-hand sides (SGERFS/DGERFS)		F07AHF
...positive-definite band system of linear equations, multiple right-hand sides (SPBRFS/DPBRFS)		F07HHF
...symmetric positive-definite system of linear equations, multiple right-hand sides (SPORFS/DPORFS)		F07FHF
...real symmetric indefinite system of linear equations, multiple right-hand sides (SSYRFS/DSYRFS)		F07MHF
...of real band triangular system of linear equations, multiple right-hand sides (STBRFS/DTBRFS)		F07VHF
...of real band triangular system of linear equations, multiple right-hand sides (STBTRS/DTBTRS)		F07VEF
...solution of real triangular system of linear equations, multiple right-hand sides (STRRFS/DTRRFS)		F07THF
Solution of real triangular system of linear equations, multiple right-hand sides (STRTRS/DTRTRS)		F07TEF
...positive-definite simultaneous linear equations with multiple right-hand sides using iterative refinement...		F04ABF

Solution of real simultaneous linear equations with	multiple right-hand sides using iterative refinement...	F04AEF
Multivariate time series,	multiple squared partial autocorrelations	G13DBF
Matrix	multiplication	F01CKF
	Multiply complex vector by complex diagonal matrix	F06HCF
	Multiply complex vector by complex scalar (CSCAL/ZSCAL)	F06GDF
	Multiply complex vector by complex scalar, preserving...	F06HDF
	Multiply complex vector by real diagonal matrix	F06KCF
	Multiply complex vector by real scalar (CSSCAL/ZDSCAL)	F06JDF
	Multiply complex vector by real scalar, preserving...	F06KDF
Real sparse unsymmetric matrix vector	multiply	F11XAF
Real sparse symmetric matrix vector	multiply	F11XEF
	Multiply real vector by diagonal matrix	F06FCF
	Multiply real vector by scalar, preserving input vector	F06FDF
	Multiply real vector by scalar (SSCAL/DSCAL)	F06EDF
Computes probabilities for the	multivariate Normal distribution	G01HBF
Set up reference vector for	multivariate Normal distribution	G05EAF
Pseudo-random	multivariate Normal vector from reference vector	G05EZF
	Multivariate time series, cross amplitude spectrum,...	G13CEF
	Multivariate time series, cross-correlations	G13BCF
	Multivariate time series, diagnostic checking of...	G13DSF
	Multivariate time series, differences and/or transforms...	G13DLF
	Multivariate time series, estimation of multi-input...	G13BEF
	Multivariate time series, estimation of VARMA model	G13DCF
	Multivariate time series, filtering by a transfer...	G13BBF
	Multivariate time series, filtering (pre-whitening) by...	G13BAF
	Multivariate time series, forecasting from state set of...	G13BHF
	Multivariate time series, forecasts and their standard...	G13DJF
Generates a realisation of a	multivariate time series from a VARMA model	G05HDF
	Multivariate time series, gain, phase, bounds,...	G13CFF
	Multivariate time series, multiple squared partial...	G13DBF
	Multivariate time series, noise spectrum, bounds,...	G13CGF
	Multivariate time series, partial autoregression...	G13DPF
	Multivariate time series, preliminary estimation of...	G13BDF
	Multivariate time series, sample cross-correlation or...	G13DMF
	Multivariate time series, sample partial lag...	G13DNF
	Multivariate time series, smoothed sample cross...	G13CCF
	Multivariate time series, smoothed sample cross...	G13CDF
	Multivariate time series, state set and forecasts from...	G13BJF
	Multivariate time series, update state set for...	G13BGF
	Multivariate time series, updates forecasts and their...	G13DKF
ODEs, IVP, interpolation for D02M-N routines,	natural interpolant	D02MZF
ODEs, IVP, interpolation for D02M-N routines,	natural interpolant	D02XJF
	Negate complex vector	F06HGF
	Negate real vector	F06FGF
...reference vector for generating pseudo-random integers,	negative binomial distribution	G05EEF
Pseudo-random real numbers, (negative) exponential distribution		G05DBF
Generates a vector of random numbers from an (negative) exponential distribution		G05FBF
Last non-negligible element of real vector		F06KLF
Minimum, function of several variables, modified	Newton algorithm, simple bounds, using 1st and 2nd...	E04LBF
Minimum, function of several variables, modified	Newton algorithm, simple bounds, using 1st and 2nd...	E04LYF
Minimum, function of several variables, modified	Newton algorithm, simple bounds, using 1st derivatives...	E04KDF
Minimum, function of several variables, quasi-	Newton algorithm, simple bounds, using 1st derivatives...	E04KYF
Minimum, function of several variables, modified	Newton algorithm, simple bounds, using 1st derivatives...	E04KZF
Minimum, function of several variables, quasi-	Newton algorithm, simple bounds, using function values...	E04JYF
...of a sum of squares, combined Gauss-Newton and quasi-	Newton algorithm using 1st derivatives (comprehensive)	E04GBF
...of a sum of squares, combined Gauss-Newton and modified	Newton algorithm using 1st derivatives (comprehensive)	E04GDF
...of a sum of squares, combined Gauss-Newton and quasi-	Newton algorithm, using 1st derivatives...	E04GYF
...of a sum of squares, combined Gauss-Newton and modified	Newton algorithm using 1st derivatives (easy-to-use)	E04GZF
...of a sum of squares, combined Gauss-Newton and modified	Newton algorithm, using 2nd derivatives (comprehensive)	E04HEF
...of a sum of squares, combined Gauss-Newton and modified	Newton algorithm, using 2nd derivatives (easy-to-use)	E04HYF
...of a sum of squares, combined Gauss-Newton and modified	Newton algorithm using function values only...	E04FCF
...of a sum of squares, combined Gauss-Newton and modified	Newton algorithm using function values only (easy-to-use)	E04FYF
...minimum of a sum of squares, combined Gauss-	Newton and modified Newton algorithm using 1st...	E04GDF
Unconstrained minimum of a sum of squares, combined Gauss-	Newton and modified Newton algorithm using 1st...	E04GZF
...minimum of a sum of squares, combined Gauss-	Newton and modified Newton algorithm, using 2nd...	E04HEF
Unconstrained minimum of a sum of squares, combined Gauss-	Newton and modified Newton algorithm, using 2nd...	E04HYF
...minimum of a sum of squares, combined Gauss-	Newton and modified Newton algorithm using function...	E04FCF
Unconstrained minimum of a sum of squares, combined Gauss-	Newton and modified Newton algorithm using function...	E04FYF
...minimum of a sum of squares, combined Gauss-	Newton and quasi-Newton algorithm using 1st derivatives...	E04GBF
Unconstrained minimum of a sum of squares, combined Gauss-	Newton and quasi-Newton algorithm, using 1st derivatives...	E04GYF
Multivariate time series,	noise spectrum, bounds, impulse response function and...	G13CGF
1-D quadrature,	non-adaptive , finite interval	D01BDF
1-D quadrature,	non-adaptive , finite interval with provision for...	D01ARF
Computes probabilities for the	non-central beta distribution	G01GEF
Computes probabilities for the	non-central F -distribution	G01GDF
Computes probabilities for the	non-central Student's t -distribution	G01GBF
Computes probabilities for the	non-central χ^2 distribution	G01GCF
ODEs, general	nonlinear boundary value problem, collocation technique	D02TKF
ODEs, general	nonlinear boundary value problem, continuation facility...	D02TXF
ODEs, general	nonlinear boundary value problem, diagnostics for...	D02TZF
ODEs, general	nonlinear boundary value problem, finite difference...	D02RAF
ODEs, general	nonlinear boundary value problem, interpolation for...	D02TYF
ODEs, general	nonlinear boundary value problem, set-up for D02TKF	D02TVF
Minimum of a sum of squares,	nonlinear constraints, sequential QP method, using...	E04UNF
...function of several variables, sequential QP method,	nonlinear constraints, using function values and...	E04UCF
...function of several variables, sequential QP method,	nonlinear constraints, using function values and...	E04UFF
	Nonlinear convolution Volterra-Abel equation, 1st kind,...	D05BEF
	Nonlinear convolution Volterra-Abel equation, 2nd kind,...	D05BDF
Solution of system of	nonlinear equations using 1st derivatives...	C05PCF
Solution of system of	nonlinear equations using 1st derivatives (easy-to-use)	C05PBF
Solution of systems of	nonlinear equations using 1st derivatives (reverse...	C05PDF
Solution of system of	nonlinear equations using function values only...	C05NCF
Solution of system of	nonlinear equations using function values only...	C05NBF
Solution of systems of	nonlinear equations using function values only (reverse...	C05NDF
Covariance matrix for	nonlinear least-squares problem	E04YCF
	Nonlinear optimization	E04

...difference technique with deferred correction, simple	nonlinear problem	D02GAF
	Nonlinear regression	E04
	Nonlinear Volterra convolution equation, 2nd kind	D05BAF
Performs	non-metric (ordinal) multidimensional scaling	G03FCF
Last	non-negligible element of real vector	F06KLF
Kendall/Spearman	non-parametric rank correlation coefficients, casewise...	G02BPF
Kendall/Spearman	non-parametric rank correlation coefficients, casewise...	G02BRF
Kendall/Spearman	non-parametric rank correlation coefficients, no...	G02BNF
Kendall/Spearman	non-parametric rank correlation coefficients, no...	G02BQF
Kendall/Spearman	non-parametric rank correlation coefficients, pairwise...	G02BSF
	Non-parametric tests	G08
Initialise random number generating routines to give	non-repeatable sequence	G05CCF
Univariate time series, seasonal and	non-seasonal differencing	G13AAF
Linear	non-singular Fredholm integral equation, 2nd kind,...	D05ABF
Linear	non-singular Fredholm integral equation, 2nd kind,...	D05AAF
	Norm estimation (for use in condition estimation),...	F04ZCF
	Norm estimation (for use in condition estimation), real...	F04YCF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UBF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UAF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UEF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UCF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UDF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UMF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UHF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UFF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UGF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UJF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06ULF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UKF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real...	F06RBF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real...	F06RAF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real...	F06RMF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real...	F06REF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real...	F06RCF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real...	F06RDF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real...	F06RJF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real...	F06RLF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real...	F06RKF
Compute Euclidean	norm from scaled form	F06BMF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06UBF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06UAF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06UEF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06UCF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06UDF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06UMF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06UHF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06UFF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06UGF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06UJF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06ULF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06UKF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06RBF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06RAF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06RMF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06REF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06RCF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06RDF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06RJF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06RLF
1-norm, ∞ -norm,	Frobenius norm, largest absolute...	F06RKF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex band matrix	F06UBF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex general matrix	F06UAF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex Hermitian band...	F06UEF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex Hermitian...	F06UCF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex Hermitian...	F06UDF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex Hessenberg...	F06UMF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex symmetric band...	F06UHF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex symmetric...	F06UFF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex symmetric...	F06UGF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex...	F06UJF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex triangular band...	F06ULF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex triangular...	F06UKF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real band matrix	F06RBF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real general matrix	F06RAF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real Hessenberg matrix	F06RMF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real symmetric band...	F06RCF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real symmetric matrix	F06RDF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real symmetric matrix,...	F06RJF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real...	F06RLF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real triangular band...	F06RKF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real triangular matrix,...	F06RKF
Update Euclidean	norm of complex vector in scaled form	F06KJF
Compute Euclidean	norm of complex vector (SCNRM2/DZNRM2)	F06JJF
ODEs, IVP, weighted	norm of local error estimate for D02M-N routines	D02ZAF
Compute weighted Euclidean	norm of real vector	F06FKF
Update Euclidean	norm of real vector in scaled form	F06FJF
Compute Euclidean	norm of real vector (SNRM2/DNRM2)	F06EJF
...maximum likelihood estimates for parameters of the	Normal distribution from grouped and/or censored data	G07BBF
Cumulative	normal distribution function $P(x)$	S15ABF
Complement of cumulative	normal distribution function $Q(x)$	S15ACF
Computes probabilities for the standard	Normal distribution	G01EAF
Computes deviates for the standard	Normal distribution	G01FAF
Computes probability for the bivariate	Normal distribution	G01HAF
Computes probabilities for the multivariate	Normal distribution	G01HBF
Pseudo-random real numbers,	Normal distribution	G05DDF
Set up reference vector for multivariate	Normal distribution	G05EAF
Generates a vector of random numbers from a	Normal distribution	G05FDF
Fits a generalized linear model with	Normal errors	G02GAF
...statistic for a difference in means between two	Normal populations, confidence interval	G07CAF
	Normal scores, accurate values	G01DAF
Ranks,	Normal scores, approximate Normal scores or exponential...	G01DHF

	Normal scores, approximate values	G01DBF
	Normal scores, approximate variance-covariance matrix	G01DCF
Lineprinter scatterplot of one variable against	Normal scores	G01AHF
Ranks, Normal scores, approximate	Normal scores or exponential (Savage) scores	G01DHF
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	Numerical differentiation, derivatives up to order 14,...	D04AAF
Estimate (using	numerical differentiation) gradient and/or Hessian of a...	E04XAF
...coupled DAEs, method of lines, upwind scheme using	numerical flux function based on Riemann solver, one...	D03PLF
...conservative form, method of lines, upwind scheme using	numerical flux function based on Riemann solver, one...	D03PFF
...coupled DAEs, method of lines, upwind scheme using	numerical flux function based on Riemann solver,...	D03PSF
	Numerical integration	D01
2nd order ODEs, IVP, Runge–Kutta–	Nystrom method	D02LAF
Update a weighted sum of squares matrix with a new	observation	G02BTF
Add/delete an	observation to/from a general linear regression model	G02DCF
Reorder data to give ordered distinct	observations	G10ZAF
Allocates	observations to groups according to selected rules (for...	G03DCF
nth order linear	ODEs, boundary value problem, collocation and...	D02TGF
	ODEs, boundary value problem, collocation and...	D02JAF
	ODEs, boundary value problem, collocation and...	D02JBF
	ODEs, boundary value problem, finite difference...	D02GBF
	ODEs, boundary value problem, finite difference...	D02GAF
	ODEs, boundary value problem, shooting and matching...	D02HAF
	ODEs, boundary value problem, shooting and matching...	D02HBF
	ODEs, boundary value problem, shooting and matching...	D02AGF
	ODEs, boundary value problem, shooting and matching...	D02SAF
	ODEs, general nonlinear boundary value problem,...	D02TKF
	ODEs, general nonlinear boundary value problem,...	D02TXF
	ODEs, general nonlinear boundary value problem,...	D02TZF
	ODEs, general nonlinear boundary value problem, finite...	D02RAF
	ODEs, general nonlinear boundary value problem,...	D02TYF
	ODEs, general nonlinear boundary value problem, set-up...	D02TVF
	ODEs, IVP, Adams method, until function of solution is...	D02CJF
	ODEs, IVP, Adams method with root-finding (forward...	D02QFF
	ODEs, IVP, Adams method with root-finding (reverse...	D02QGF
	ODEs, IVP, BDF method, set-up for D02M-N routines	D02NVF
	ODEs, IVP, Blend method, set-up for D02M-N routines	D02NWF
	ODEs, IVP, DASSL method, set-up for D02M-N routines	D02MVF
2nd order	ODEs, IVP, diagnostics for D02LAF	D02LYF
	ODEs, IVP, diagnostics for D02QFF and D02QGF	D02QXF
	ODEs, IVP, error assessment diagnostics for D02PCF and...	D02PZF
	ODEs, IVP, for use with D02M-N routines, banded...	D02NTF
	ODEs, IVP, for use with D02M-N routines, full Jacobian...	D02NSF
	ODEs, IVP, for use with D02M-N routines, sparse...	D02NRF
	ODEs, IVP, for use with D02M-N routines, sparse...	D02NUF
	ODEs, IVP, integration diagnostics for D02PCF and...	D02PYF
	ODEs, IVP, integrator diagnostics, for use with D02M-N...	D02NYF
2nd order	ODEs, IVP, interpolation for D02LAF	D02LZF
	ODEs, IVP, interpolation for D02M-N routines, C_1 ...	D02XKF
	ODEs, IVP, interpolation for D02M-N routines, natural...	D02MZF
	ODEs, IVP, interpolation for D02M-N routines, natural...	D02XJF
	ODEs, IVP, interpolation for D02PDF	D02PXF
	ODEs, IVP, interpolation for D02QFF or D02QGF	D02QZF
	ODEs, IVP, resets end of range for D02PDF	D02PWF
	ODEs, IVP, root-finding diagnostics for D02QFF and...	D02QYF
	ODEs, IVP, Runge–Kutta method, integration over one...	D02PDF
	ODEs, IVP, Runge–Kutta method, integration over range...	D02PCF
	ODEs, IVP, Runge–Kutta method, until function of...	D02BJF
	ODEs, IVP, Runge–Kutta–Merson method, until a component...	D02BGF
	ODEs, IVP, Runge–Kutta–Merson method, until function of...	D02BHF
2nd order	ODEs, IVP, Runge–Kutta–Nystrom method	D02LAF
	ODEs, IVP, set-up for continuation calls to integrator...	D02NZF
2nd order	ODEs, IVP, set-up for D02LAF	D02LXF
	ODEs, IVP, set-up for D02PCF and D02PDF	D02PVF
	ODEs, IVP, set-up for D02QFF and D02QGF	D02QWF
	ODEs, IVP, sparse Jacobian, linear algebra diagnostics...	D02NXF
	ODEs, IVP, weighted norm of local error estimate for...	D02ZAF
Explicit	ODEs, stiff IVP, banded Jacobian (comprehensive)	D02NCF
Implicit/algebraic	ODEs, stiff IVP, banded Jacobian (comprehensive)	D02NHF
	ODEs, stiff IVP, BDF method, until function of solution...	D02EJF
Explicit	ODEs, stiff IVP, full Jacobian (comprehensive)	D02NBF
Implicit/algebraic	ODEs, stiff IVP, full Jacobian (comprehensive)	D02NGF
Explicit	ODEs, stiff IVP (reverse communication, comprehensive)	D02NMF
Implicit/algebraic	ODEs, stiff IVP (reverse communication, comprehensive)	D02NNF
Explicit	ODEs, stiff IVP, sparse Jacobian (comprehensive)	D02NDF
Implicit/algebraic	ODEs, stiff IVP, sparse Jacobian (comprehensive)	D02NJF
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Performs the	one-sample Kolmogorov–Smirnov test for a user-supplied...	G08CCF
Performs the	one-sample Kolmogorov–Smirnov test for standard...	G08CBF
Performs the Wilcoxon	one-sample (matched pairs) signed rank test	G08AGF
Kruskal–Wallis	one-way analysis of variance on k samples of unequal...	G08AFF
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	Operations with orthogonal matrices, form rows of Q ,...	F01QKF
	Operations with unitary matrices, form rows of Q ,...	F01RKF
...zeros of a vector autoregressive (or moving average)	operator	G13DXF
Korobov	optimal coefficients for use in D01GCF or D01GDF, when...	D01GYF
Korobov	optimal coefficients for use in D01GCF or D01GDF, when...	D01GZF
Nonlinear	optimization	E04
	Order statistics	G01D
Reorder data to give	ordered distinct observations	G10ZAF
Performs non-metric (ordinal) multidimensional scaling		G03FCF
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Computes random	orthogonal matrix	G05GAF
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Form all or part of	orthogonalQ from LQ factorization determined by...	F08AJF
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	Orthogonal reduction of real general matrix to upper...	F08NEF
	Orthogonal reduction of real general rectangular matrix...	F08KEF
	Orthogonal reduction of real symmetric band matrix to...	F08HEF
	Orthogonal reduction of real symmetric matrix to...	F08GEF
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	Apply orthogonal transformation determined by F08AHF...	F08AKF
	Apply orthogonal transformation determined by F08FEF...	F08FGF
	Apply orthogonal transformation determined by F08GEF...	F08GGF
	Generate orthogonal transformation matrices from reduction to...	F08KFF
	Generate orthogonal transformation matrix from reduction to...	F08NFF
	Apply orthogonal transformation matrix from reduction to...	F08NGF
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	Generate orthogonal transformation matrix from reduction to...	F08GFF
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Gram-Schmidt	orthogonalisation of n vectors of order m	F05AAF
...orthogonal rotations for loading matrix, generalized	orthomax criterion	G03BAF
...adaptive, finite interval, method suitable for	oscillating functions	D01AKF
	Osher's approximate Riemann solver for Euler equations...	D03PVF
Compute quotient of two real scalars, with	overflow flag	F06BLF
Compute quotient of two complex scalars, with	overflow flag	F06CLF
Incomplete gamma functions	$P(a, x)$ and $Q(a, x)$	S14BAF
Cumulative normal distribution function	$P(x)$	S15ABF
Convert real matrix between	packed banded and rectangular storage schemes	F01ZCF
Convert complex matrix between	packed banded and rectangular storage schemes	F01ZDF
	Print a real packed banded matrix (comprehensive)	X04CFF
	Print a complex packed banded matrix (comprehensive)	X04DFF
	Print a real packed banded matrix (easy-to-use)	X04CEF
	Print a complex packed banded matrix (easy-to-use)	X04DEF
Matrix-vector product, complex Hermitian	packed matrix (CHPMV/ZHPMV)	F06SEF
Rank-2 update, complex Hermitian	packed matrix (CHPR2/ZHPR2)	F06SSF
Rank-1 update, complex Hermitian	packed matrix (CHPR/ZHPR)	F06SQF
Matrix-vector product, complex triangular	packed matrix (CTPMV/ZTPMV)	F06SHF
System of equations, complex triangular	packed matrix (CTPSV/ZTPSV)	F06SLF
Matrix-vector product, real symmetric	packed matrix (SSPMV/DSPMV)	F06PEF
Rank-2 update, real symmetric	packed matrix (SSPR2/DSPR2)	F06PSF
Rank-1 update, real symmetric	packed matrix (SSPR/DSPR)	F06PQF
Matrix-vector product, real triangular	packed matrix (STPMV/DTPMV)	F06PHF
System of equations, real triangular	packed matrix (STPSV/DTPSV)	F06PLF
... $Ax = \lambda Bx$, $ABx = \lambda x$ or $BAx = \lambda x$,	packed storage, B factorized by F07GDF...	F08TEF
... $Ax = \lambda Bx$, $ABx = \lambda x$ or $BAx = \lambda x$,	packed storage, B factorized by F07GRF...	F08TSF
...indefinite matrix, matrix already factorized by F07PRF,	packed storage (CHPCON/ZHPCON)	F07PUF
...system of linear equations, multiple right-hand sides,	packed storage (CHPRFS/ZHPRFS)	F07PVF
...Hermitian matrix to real symmetric tridiagonal form,	packed storage (CHPTRD/ZHPTRD)	F08GSF
...factorization of complex Hermitian indefinite matrix,	packed storage (CHPTRF/ZHPTRF)	F07PRF
...indefinite matrix, matrix already factorized by F07PRF,	packed storage (CHPTRI/ZHPTRI)	F07PWF
...right-hand sides, matrix already factorized by F07PRF,	packed storage (CHPTRS/ZHPTRS)	F07PSF
...matrix, matrix already factorized by F07GRF,	packed storage (CPPCON/ZPPCON)	F07GUF
...system of linear equations, multiple right-hand sides,	packed storage (CPRFS/ZPPRFS)	F07GVF
...of complex Hermitian positive-definite matrix,	packed storage (CPPTRF/ZPPTRF)	F07GRF
...matrix, matrix already factorized by F07GRF,	packed storage (CPPTRI/ZPPTRI)	F07GWF
...right-hand sides, matrix already factorized by F07GRF,	packed storage (CPPTRS/ZPPTRS)	F07GSF
...symmetric matrix, matrix already factorized by F07QRF,	packed storage (CSPCON/ZSPCON)	F07QUF
...system of linear equations, multiple right-hand sides,	packed storage (CSPRFS/ZSPRFS)	F07QVF
...factorization of complex symmetric matrix,	packed storage (CSPTRF/ZSPTRF)	F07QRF
...symmetric matrix, matrix already factorized by F07QRF,	packed storage (CSPTRI/ZSPTRI)	F07QWF
...right-hand sides, matrix already factorized by F07QRF,	packed storage (CSPTRS/ZSPTRS)	F07QSF
Estimate condition number of complex triangular matrix,	packed storage (CTPCON/ZTPCON)	F07UUF
...system of linear equations, multiple right-hand sides,	packed storage (CTPRFS/ZTPRFS)	F07UVF
Inverse of a complex triangular matrix,	packed storage (CTPTRI/ZTPTRI)	F07UWF
...system of linear equations, multiple right-hand sides,	packed storage (CTPTRS/ZTPTRS)	F07USF
...norm, largest absolute element, real symmetric matrix,	packed storage	F06RDF
...norm, largest absolute element, real triangular matrix,	packed storage	F06RKF
...largest absolute element, complex Hermitian matrix,	packed storage	F06UDF
...largest absolute element, complex symmetric matrix,	packed storage	F06UGF
...largest absolute element, complex triangular matrix,	packed storage	F06UKF
...matrix, matrix already factorized by F07GDF,	packed storage (SPPCON/DPPCON)	F07GGF
...system of linear equations, multiple right-hand sides,	packed storage (SPPRFS/DPPRFS)	F07GHF
...of a real symmetric positive-definite matrix,	packed storage (SPPTRF/DPPTRF)	F07GDF
...matrix, matrix already factorized by F07GDF,	packed storage (SPPTRI/DPPTRI)	F07GJF
...right-hand sides, matrix already factorized by F07GDF,	packed storage (SPPTRS/DPPTRS)	F07GEF
...indefinite matrix, matrix already factorized by F07PDF,	packed storage (SSPCON/DSPCON)	F07PGF
...system of linear equations, multiple right-hand sides,	packed storage (SSPRFS/DSPRFS)	F07PHF
...of real symmetric matrix to symmetric tridiagonal form,	packed storage (SSPTRD/DSPTRD)	F08GEF
...factorization of real symmetric indefinite matrix,	packed storage (SSPTRF/DSPTRF)	F07PDF
...indefinite matrix, matrix already factorized by F07PDF,	packed storage (SSPTRI/DSPTRI)	F07PJF
...right-hand sides, matrix already factorized by F07PDF,	packed storage (SSPTRS/DSPTRS)	F07PEF
Estimate condition number of real triangular matrix,	packed storage (STPCON/DTPCON)	F07UGF
...system of linear equations, multiple right-hand sides,	packed storage (STPRFS/DTPRFS)	F07UHF
Inverse of a real triangular matrix,	packed storage (STPTRI/DTPTRI)	F07UJF
...system of linear equations, multiple right-hand sides,	packed storage (STPTRS/DTPTRS)	F07UEF
Convert real matrix between	packed triangular and square storage schemes	F01ZAF
Convert complex matrix between	packed triangular and square storage schemes	F01ZBF
	Print a real packed triangular matrix (comprehensive)	X04CDF
	Print a complex packed triangular matrix (comprehensive)	X04DDF
	Print a real packed triangular matrix (easy-to-use)	X04CCF
	Print a complex packed triangular matrix (easy-to-use)	X04DCF
Sign test on two	paired samples	G08AAF
	Performs the pairs (serial) test for randomness	G08EBF
Performs the Wilcoxon one-sample (matched	pairs) signed rank test	G08AGF
...product-moment correlation coefficients, all variables,	pairwise treatment of missing values	G02BCF
...coefficients (about zero), all variables,	pairwise treatment of missing values	G02BFF
...correlation coefficients, subset of variables,	pairwise treatment of missing values	G02BJF
...coefficients (about zero), subset of variables,	pairwise treatment of missing values	G02BMF
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General system of	parabolic PDEs, coupled DAEs, method of lines, finite...	D03PHF
General system of	parabolic PDEs, coupled DAEs, method of lines, finite...	D03PPF

General system of parabolic PDEs, method of lines, Chebyshev C^0 ...	D03PDF
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Kendall/Spearman non- parametric rank correlation coefficients, casewise...	G02BPF
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Kendall/Spearman non- parametric rank correlation coefficients, no missing...	G02BNF
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Univariate time series, partial autocorrelations from autocorrelations	G13ACF
Multivariate time series, multiple squared partial autocorrelations	G13DBF
Multivariate time series, partial autoregression matrices	G13DPF
Computes partial correlation/variance-covariance matrix from...	G02BYF
Multivariate time series, sample partial lag correlation matrices, χ^2 ...	G13DNF
...sample spectrum using rectangular, Bartlett, Tukey or Parzen lag window	G13CAF
...cross spectrum using rectangular, Bartlett, Tukey or Parzen lag window	G13CCF
...quadrature, adaptive, finite interval, strategy due to Patterson , suitable for well-behaved integrands	D01AHF
Elliptic PDE , Helmholtz equation, 3-D Cartesian co-ordinates	D03FAF
Elliptic PDE , Laplace's equation, 2-D arbitrary domain	D03EAF
Discretize a 2nd order elliptic PDE on a rectangle	D03EEF
Elliptic PDE , solution of finite difference equations by a...	D03EDF
Elliptic PDE , solution of finite difference equations by SIP,...	D03EBF
Elliptic PDE , solution of finite difference equations by SIP,...	D03UAF
Elliptic PDE , solution of finite difference equations by SIP for...	D03ECF
Elliptic PDE , solution of finite difference equations by SIP,...	D03UBF
General system of parabolic PDEs , coupled DAEs, method of lines, Chebyshev C^0 ...	D03PJF
General system of parabolic PDEs , coupled DAEs, method of lines, finite...	D03PHF
General system of parabolic PDEs , coupled DAEs, method of lines, finite...	D03PPF
General system of 1st order PDEs , coupled DAEs, method of lines, Keller box...	D03PKF
General system of 1st order PDEs , coupled DAEs, method of lines, Keller box...	D03PRF
General system of parabolic PDEs , method of lines, Chebyshev C^0 collocation, one...	D03PDF
General system of parabolic PDEs , method of lines, finite differences, one space...	D03PCF
General system of 2nd order PDEs , method of lines, finite differences, remeshing, two space...	D03RAF
General system of 2nd order PDEs , method of lines, finite differences, remeshing, two space...	D03RBF
General system of 1st order PDEs , method of lines, Keller box discretisation, one...	D03PEF
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General system of convection-diffusion PDEs with source terms in conservative form, coupled...	D03PLF
General system of convection-diffusion PDEs with source terms in conservative form, coupled...	D03PSF
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Pearson product-moment correlation coefficients, all...	G02BBF
Pearson product-moment correlation coefficients, all...	G02BAF
Pearson product-moment correlation coefficients, all...	G02BCF
Pearson product-moment correlation coefficients, subset...	G02BHF
Pearson product-moment correlation coefficients, subset...	G02BGF
Pearson product-moment correlation coefficients, subset...	G02BJF
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Invert a permutation	M01ZAF
Check validity of a permutation	M01ZBF
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Permute rows or columns, complex rectangular matrix, permutations represented by a real array	F06VKF
Permute rows or columns, real rectangular matrix, permutations represented by an integer array	F06QJF
Permute rows or columns, complex rectangular matrix, permutations represented by an integer array	F06VJF
Permute rows or columns, complex rectangular matrix,...	F06VKF
Permute rows or columns, complex rectangular matrix,...	F06VJF
Permute rows or columns, real rectangular matrix,...	F06QKF
Permute rows or columns, real rectangular matrix,...	F06QJF
Multivariate time series, gain, phase , bounds, univariate and bivariate (cross) spectra	G13CFF
π	X01AAF
Interpolating functions, monotonicity-preserving, piecewise cubic Hermite, one variable	E01BEF
...quadrature, adaptive, finite interval, strategy due to Piessens and de Doncker, allowing for badly-behaved...	D01AJF
<i>QR</i> factorization with column pivoting of complex general rectangular matrix...	F08BSF
<i>QR</i> factorization with column pivoting of real general rectangular matrix...	F08BEF
Triangulation of a plane region	D03MAF
Generate real Jacobi plane rotation	F06BEF
Apply complex plane rotation	F06HPF
Apply real plane rotation (SROT/DROT)	F06EPF
Generate real plane rotation (SROTG/DROTG)	F06AAF
Generate real plane rotation, storing tangent	F06BAF
Generate complex plane rotation, storing tangent, real cosine	F06CAF
Generate complex plane rotation, storing tangent, real sine	F06CBF
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Apply plane rotation to two real sparse vectors (SROTI/DROTI)	F06EXF
Apply real symmetric plane rotation to two vectors	F06FPF
Apply sequence of plane rotations, complex rectangular matrix, complex...	F06TYF
Apply sequence of plane rotations, complex rectangular matrix, real...	F06TXF
Apply sequence of plane rotations, complex rectangular matrix, real...	F06VXF
<i>QR</i> or <i>RQ</i> factorization by sequence of plane rotations, complex upper Hessenberg matrix	F06TRF
<i>QR</i> or <i>RQ</i> factorization by sequence of plane rotations, complex upper spiked matrix	F06TSF
<i>QR</i> factorization by sequence of plane rotations, complex upper triangular matrix...	F06TQF
Compute upper Hessenberg matrix by sequence of plane rotations, complex upper triangular matrix	F06TVF
Compute upper spiked matrix by sequence of plane rotations, complex upper triangular matrix	F06TWF
Generate sequence of real plane rotations	F06QFQ
Generate sequence of complex plane rotations	F06HQF
...of a real symmetric matrix as a sequence of plane rotations	F06QMF
...of <i>ZU</i> , <i>U</i> real upper triangular, <i>Z</i> a sequence of plane rotations	F06QTF
...transformation of a Hermitian matrix as a sequence of plane rotations	F06TMF
... <i>ZU</i> , <i>U</i> complex upper triangular, <i>Z</i> a sequence of plane rotations	F06TTF
<i>QR</i> factorization by sequence of plane rotations, rank-1 update of complex upper...	F06TPF
<i>QR</i> factorization by sequence of plane rotations, rank-1 update of real upper triangular...	F06QPF
Apply sequence of plane rotations, real rectangular matrix	F06QXF
<i>QR</i> or <i>RQ</i> factorization by sequence of plane rotations, real upper Hessenberg matrix	F06QRF
<i>QR</i> or <i>RQ</i> factorization by sequence of plane rotations, real upper spiked matrix	F06QSF
<i>QR</i> factorization by sequence of plane rotations, real upper triangular matrix augmented...	F06QQF

Compute upper Hessenberg matrix by sequence of	plane rotations, real upper triangular matrix	F06QVF
Compute upper spiked matrix by sequence of	plane rotations, real upper triangular matrix	F06QWF
Constructs a stem and leaf	plot	G01ARF
Constructs a box and whisker	plot	G01ASF
...needed for range-mean or standard deviation-mean	plot	G13AUF
	Poisson distribution function	G01BKF
Pseudo-random integer,	Poisson distribution	G05DRF
...reference vector for generating pseudo-random integers,	Poisson distribution	G05ECF
Computes confidence interval for the parameter of a	Poisson distribution	G07ABF
Fits a generalized linear model with	Poisson errors	G02GCF
Least-squares	polynomial fit, special data points (including...	E02AFF
Least-squares	polynomial fit, values and derivatives may be...	E02AGF
Derivative of fitted	polynomial in Chebyshev series form	E02AHF
Integral of fitted	polynomial in Chebyshev series form	E02AJF
Evaluation of fitted	polynomial in one variable, from Chebyshev series form	E02AKF
Evaluation of fitted	polynomial in one variable from Chebyshev series form...	E02AEF
Evaluation of fitted	polynomial in two variables	E02CBF
Interpolating functions,	polynomial interpolant, data may include derivative...	E01AEF
All zeros of complex	polynomial , modified Laguerre method	C02AFF
All zeros of real	polynomial , modified Laguerre method	C02AGF
Least-squares curve fit, by	polynomials , arbitrary data points	E02ADF
Least-squares surface fit by	polynomials , data on lines	E02CAF
Minimax curve fit by	polynomials	E02ACF
Computes orthogonal	polynomials or dummy variables for...	G04EAF
...for the Mann-Whitney U statistic, no ties in	pooled sample	G08AJF
...for the Mann-Whitney U statistic, ties in	pooled sample	G08AKF
Computes Mahalanobis squared distances for group or	pooled variance-covariance matrices (for use after...	G03DBF
...statistic for a difference in means between two Normal	populations , confidence interval	G07CAF
Machine	precision	X02AJF
...inner product added to initial value, basic/additional	precision	X03AAF
...inner product added to initial value, basic/additional	precision	X03ABF
	Pre-computed weights and abscissae for Gaussian...	D01BBF
Unconstrained minimum,	preconditioned conjugate gradient algorithm, function...	E04DGF
...RGMRES, CGS, or Bi-CGSTAB method, Jacobi or SSOR	preconditioner (Black Box)	F11DEF
...linear system, RGMRES, CGS or Bi-CGSTAB method,	preconditioner computed by F11DAF (Black Box)	F11DCF
Solution of linear system involving	preconditioning matrix generated by applying SSOR to...	F11DDF
Solution of linear system involving	preconditioning matrix generated by applying SSOR to...	F11JDF
Solution of linear system involving incomplete LU	preconditioning matrix generated by F11DAF	F11DBF
Solution of linear system involving incomplete Cholesey	preconditioning matrix generated by F11JAF	F11JBF
Multivariate time series,	preliminary estimation of transfer function model	G13BDF
Univariate time series,	preliminary estimation, seasonal ARIMA model	G13ADF
Interpolating functions, monotonicity-	preserving , piecewise cubic Hermite, one variable	E01BEF
Multivariate time series, filtering (pre-whitening) by an ARIMA model		G13BAF
...for use in D01GCF or D01GDF, when number of points is	prime	D01GYF
...or D01GDF, when number of points is product of two	primes	D01GZF
Performs	principal component analysis	G03AAF
Performs	principal coordinate analysis, classical metric scaling	G03FAF
...finite interval, weight function $1/(x - c)$, Cauchy	principal value (Hilbert transform)	D01AQF
	Print a complex general matrix (comprehensive)	X04DBF
	Print a complex general matrix (easy-to-use)	X04DAF
	Print a complex packed banded matrix (comprehensive)	X04DFF
	Print a complex packed banded matrix (easy-to-use)	X04DEF
	Print a complex packed triangular matrix...	X04DDF
	Print a complex packed triangular matrix (easy-to-use)	X04DCF
	Print a real general matrix (comprehensive)	X04CBF
	Print a real general matrix (easy-to-use)	X04CAF
	Print a real packed banded matrix (comprehensive)	X04CFF
	Print a real packed banded matrix (easy-to-use)	X04CEF
	Print a real packed triangular matrix (comprehensive)	X04CDF
	Print a real packed triangular matrix (easy-to-use)	X04CCF
	Print an integer matrix (comprehensive)	X04EBF
	Print an integer matrix (easy-to-use)	X04EAF
...MPSX data file defining IP or LP problem, optimize and	print solution	H02BFF
Computes upper and lower tail	probabilities and probability density function for the...	G01EEF
Computes	probabilities for F -distribution	G01EDF
Computes	probabilities for Student's t -distribution	G01EBF
Computes	probabilities for the gamma distribution	G01EFF
Computes the exact	probabilities for the Mann-Whitney U statistic, no...	G08AJF
Computes the exact	probabilities for the Mann-Whitney U statistic, ties...	G08AKF
Computes	probabilities for the multivariate Normal distribution	G01HBF
Computes	probabilities for the non-central beta distribution	G01GEF
Computes	probabilities for the non-central F -distribution	G01GDF
Computes	probabilities for the non-central Student's...	G01GBF
Computes	probabilities for the non-central χ^2 ...	G01GCF
Computes	probabilities for the one-sample Kolmogorov-Smirnov...	G01EYF
Computes	probabilities for the standard Normal distribution	G01EAF
Computes	probabilities for the two-sample Kolmogorov-Smirnov...	G01EZF
Computes	probabilities for χ^2 distribution	G01ECF
...Kaplan-Meier (product-limit) estimates of survival	probabilities	G12AAF
Computes upper and lower tail probabilities and	probability density function for the beta distribution	G01EEF
...from supplied cumulative distribution function or	probability distribution function	G05EXF
Computes lower tail	probability for a linear combination of (central)...	G01JDF
Computes	probability for a positive linear combination of...	G01JCF
Computes	probability for the bivariate Normal distribution	G01HAF
Computes	probability for the Studentized range statistic	G01EMF
Computes	probability for Von Mises distribution	G01ERF
Computes	Procrustes rotations	G03BCF
Real inner	product added to initial value, basic/additional...	X03AAF
Complex inner	product added to initial value, basic/additional...	X03ABF
Matrix-vector	product , complex Hermitian band matrix (CHBMV/ZHBMV)	F06SDF
Matrix-vector	product , complex Hermitian matrix (CHEMV/ZHEMV)	F06SCF

Matrix-vector	product , complex Hermitian packed matrix (CHPMV/ZHPMV)	F06SEF
Matrix-vector	product , complex rectangular band matrix (CGBMV/ZGBMV)	F06SBF
Matrix-vector	product , complex rectangular matrix (CGEMV/ZGEMV)	F06SAF
Matrix-vector	product , complex triangular band matrix (CTBMV/ZTBMV)	F06SGF
Matrix-vector	product , complex triangular matrix (CTRMV/ZTRMV)	F06SFF
Matrix-vector	product , complex triangular packed matrix (CTPMV/ZTPMV)	F06SHF
	Dot product of two complex sparse vector, conjugated...	F06GSF
	Dot product of two complex sparse vector, unconjugated...	F06GRF
	Dot product of two complex vectors, conjugated...	F06GBF
	Dot product of two complex vectors, unconjugated...	F06GAF
...for use in D01GCF or D01GDF, when number of points is	product of two primes	D01GZF
	Dot product of two real sparse vectors (SDOTI/DDOTI)	F06ERF
	Dot product of two real vectors (SDOT/DDOT)	F06EAF
Matrix-matrix	product , one complex Hermitian matrix, one complex...	F06ZCF
Matrix-matrix	product , one complex symmetric matrix, one complex...	F06ZTF
Matrix-matrix	product , one complex triangular matrix, one complex...	F06ZFF
Matrix-matrix	product , one real symmetric matrix, one real...	F06YCF
Matrix-matrix	product , one real triangular matrix, one real...	F06YFF
Matrix-vector	product , real rectangular band matrix (SGBMV/DGBMV)	F06PBF
Matrix-vector	product , real rectangular matrix (SGEMV/DGEMV)	F06PAF
Matrix-vector	product , real symmetric band matrix (SSBMV/DSBMV)	F06PDF
Matrix-vector	product , real symmetric matrix (SSYMV/DSYMV)	F06PCF
Matrix-vector	product , real symmetric packed matrix (SSPMV/DSPMV)	F06PEF
Matrix-vector	product , real triangular band matrix (STBMV/DTBMV)	F06PGF
Matrix-vector	product , real triangular matrix (STRMV/DTRMV)	F06PFF
Matrix-vector	product , real triangular packed matrix (STPMV/DTPMV)	F06PHF
Multi-dimensional quadrature, general	product region, number-theoretic method	D01GCF
Multi-dimensional quadrature, general	product region, number-theoretic method, variant of...	D01GDF
...quadrature, Sag-Szekeres method, general	product region or n -sphere	D01DFF
Matrix-matrix	product , two complex rectangular matrices (CGEMM/ZGEMM)	F06ZAF
Matrix-matrix	product , two real rectangular matrices (SGEMM/DGEMM)	F06YAF
Computes Kaplan–Meier	(product-limit) estimates of survival probabilities	G12AAF
Pearson	product-moment correlation coefficients, all variables,...	G02BBF
Pearson	product-moment correlation coefficients, all variables,...	G02BAF
Pearson	product-moment correlation coefficients, all variables,...	G02BCF
Pearson	product-moment correlation coefficients, subset of...	G02BHF
Pearson	product-moment correlation coefficients, subset of...	G02BGF
Pearson	product-moment correlation coefficients, subset of...	G02BJF
Integer	programming problem, branch and bound method	H02BBF
Integer	Programming See IP	
Linear	Programming See LP	
Quadratic	Programming See QP	
Integer	programming solution, supplies further information on...	H02BZF
Fits Cox's	proportional hazard model	G12BAF
	Pseudo-inverse and rank of a real m by n matrix ($m...$	F01BLF
	Pseudo-random integer from reference vector	G05EYF
	Pseudo-random integer from uniform distribution	G05DYF
	Pseudo-random integer, Poisson distribution	G05DRF
Set up reference vector for generating	pseudo-random integers, binomial distribution	G05EDF
Set up reference vector for generating	pseudo-random integers, hypergeometric distribution	G05EFF
Set up reference vector for generating	pseudo-random integers, negative binomial distribution	G05EEF
Set up reference vector for generating	pseudo-random integers, Poisson distribution	G05ECF
Set up reference vector for generating	pseudo-random integers, uniform distribution	G05EBF
	Pseudo-random logical (boolean) value	G05DZF
	Pseudo-random multivariate Normal vector from reference...	G05EZF
Generates a vector of	pseudo-random numbers from a beta distribution	G05FEF
Generates a vector of	pseudo-random numbers from a gamma distribution	G05FFF
	Pseudo-random permutation of an integer vector	G05EHF
	Pseudo-random real numbers, Cauchy distribution	G05DFF
	Pseudo-random real numbers, F distribution	G05DKF
	Pseudo-random real numbers, logistic distribution	G05DCF
	Pseudo-random real numbers, lognormal distribution	G05DEF
	Pseudo-random real numbers, (negative) exponential...	G05DBF
	Pseudo-random real numbers, Normal distribution	G05DDF
	Pseudo-random real numbers, Student's t -distribution	G05DJF
	Pseudo-random real numbers, uniform distribution over...	G05CAF
	Pseudo-random real numbers, uniform distribution over...	G05DAF
	Pseudo-random real numbers, Weibull distribution	G05DPF
	Pseudo-random real numbers, χ^2 distribution	G05DHF
	Pseudo-random sample from an integer vector	G05EJF
Generates vector of	pseudo-random variates from Von Mises distribution	G05FSF
Scaled derivatives of $\psi(x)$		S14ADF
Complement of cumulative normal distribution function $Q(x)$		S15ACF
...reduced from complex Hermitian matrix, using implicit	QL or QR (CSTEQR/ZSTEQR)	F08JSF
...reduced from real symmetric matrix using implicit	QL or QR (SSTEQR/DSTEQR)	F08JEF
...real symmetric tridiagonal matrix, root-free variant of	QL or QR (SSTERF/DSTERF)	F08JFF
Minimum, function of several variables, sequential	QP method, nonlinear constraints, using function values...	E04UCF
Minimum, function of several variables, sequential	QP method, nonlinear constraints, using function values...	E04UFF
...of a sum of squares, nonlinear constraints, sequential	QP method, using function values and optionally 1st...	E04UNF
	QP problem	E04NFF
	LP or QP problem (sparse)	E04NKF
Convex	QP problem or linearly-constrained linear least-squares...	E04NCF
Converts MPSX data file defining LP or	QP problem to format required by E04NKF	E04MZF
...from complex Hermitian matrix, using implicit QL or	QR (CSTEQR/ZSTEQR)	F08JSF
	QR factorization by sequence of plane rotations,...	F06TQF
	QR factorization by sequence of plane rotations,...	F06TPF
	QR factorization by sequence of plane rotations,...	F06QPF
	QR factorization by sequence of plane rotations, real...	F06QQF
Form all or part of orthogonal Q from	QR factorization determined by F08AEF or F08BEF...	F08AFF
Form all or part of unitary Q from	QR factorization determined by F08ASF or F08BSF...	F08ATF
	QR factorization of complex general rectangular...	F08ASF
	QR factorization of real general rectangular matrix...	F08AEF
	QR factorization of UZ or RQ factorization of...	F06TTF
	QR factorization of UZ or RQ factorization of...	F06QTF
	QR factorization, possibly followed by SVD	F02WDF

	<i>QR</i> factorization with column pivoting of complex...	F08BSF
	<i>QR</i> factorization with column pivoting of real general...	F08BEF
	<i>QR</i> or <i>RQ</i> factorization by sequence of plane...	F06TRF
	<i>QR</i> or <i>RQ</i> factorization by sequence of plane...	F06TSF
	<i>QR</i> or <i>RQ</i> factorization by sequence of plane...	F06QRF
	<i>QR</i> or <i>RQ</i> factorization by sequence of plane...	F06QSF
...from real symmetric matrix using implicit <i>QL</i> or	<i>QR</i> (SSTEQR/DSTEQR)	F08JEF
...tridiagonal matrix, root-free variant of <i>QL</i> or	<i>QR</i> (STERF/DSTERF)	F08JFF
All zeros of complex	quadratic	C02AHF
All zeros of real	quadratic	C02AJF
Moments of ratios of	quadratic forms in Normal variables, and related...	G01NBF
Cumulants and moments of	quadratic forms in Normal variables	G01NAF
1-D	quadrature , adaptive, finite interval, allowing for...	D01ALF
1-D	quadrature , adaptive, finite interval, method suitable...	D01AKF
1-D	quadrature , adaptive, finite interval, strategy due to...	D01AHF
1-D	quadrature , adaptive, finite interval, strategy due to...	D01AJF
1-D	quadrature , adaptive, finite interval, variant of...	D01ATF
1-D	quadrature , adaptive, finite interval, variant of...	D01AUF
1-D	quadrature , adaptive, finite interval, weight function...	D01AQF
1-D	quadrature , adaptive, finite interval, weight function...	D01ANF
1-D	quadrature , adaptive, finite interval, weight function...	D01APF
1-D	quadrature , adaptive, infinite or semi-infinite...	D01AMF
1-D	quadrature , adaptive, semi-infinite interval, weight...	D01ASF
1-D Gaussian	quadrature	D01BAF
2-D	quadrature , finite region	D01DAF
Multi-dimensional	quadrature , general product region, number-theoretic...	D01GCF
Multi-dimensional	quadrature , general product region, number-theoretic...	D01GDF
1-D	quadrature , integration of function defined by data...	D01GAF
1-D	quadrature , non-adaptive, finite interval	D01BDF
1-D	quadrature , non-adaptive, finite interval with...	D01ARF
Multi-dimensional	quadrature over an n -simplex	D01PAF
Multi-dimensional	quadrature over an n -sphere, allowing for...	D01JAF
Multi-dimensional Gaussian	quadrature over hyper-rectangle	D01BBF
Multi-dimensional adaptive	quadrature over hyper-rectangle	D01FCF
Multi-dimensional	quadrature over hyper-rectangle, Monte Carlo method	D01GBF
Multi-dimensional adaptive	quadrature over hyper-rectangle, multiple integrands	D01EAF
Calculation of weights and abscissae for Gaussian	quadrature rules, general choice of rule	D01BCF
Pre-computed weights and abscissae for Gaussian	quadrature rules, restricted choice of rule	D01BBF
Multi-dimensional	quadrature , Sag-Szekeres method, general product region...	D01FDF
...set of classification factors using given percentile/ quantile		G11BBF
Discrete	quarter-wave cosine transform	C06HDF
Discrete	quarter-wave sine transform	C06HCF
Minimum, function of several variables,	quasi-Newton algorithm, simple bounds, using 1st...	E04KYF
Minimum, function of several variables,	quasi-Newton algorithm, simple bounds, using function...	E04JYF
...minimum of a sum of squares, combined Gauss–Newton and	quasi-Newton algorithm using 1st derivatives...	E04GBF
...minimum of a sum of squares, combined Gauss–Newton and	quasi-Newton algorithm, using 1st derivatives (easy-to-use)	E04GYF
Left and right eigenvectors of a real upper	quasi-triangular matrix (STREVC/DTREVC)	F08QKF
...of selected eigenvalues and eigenvectors of real upper	quasi-triangular matrix (STRSNA/DTRSNA)	F08QLF
...matrix equation $AX + XB = C$, A and B are upper	quasi-triangular or transposes (STRSYL/DTRSYL)	F08QHF
	Quotient of two complex numbers	A02ACF
Compute	quotient of two complex scalars, with overflow flag	F06CLF
Compute	quotient of two real scalars, with overflow flag	F06BLF
...eigenvectors of generalized complex eigenproblem by <i>QZ</i> algorithm (Black Box)		F02GJF
...optionally eigenvectors of generalized eigenproblem by <i>QZ</i> algorithm, real matrices (Black Box)		F02BJF
Incomplete gamma functions $P(a, x)$ and $Q(a, x)$		S14BAF
Computes	random correlation matrix	G05GBF
Pseudo- random	integer from reference vector	G05EYF
Pseudo- random	integer from uniform distribution	G05DYF
Pseudo- random	integer, Poisson distribution	G05DRF
Set up reference vector for generating pseudo- random	integers, binomial distribution	G05EDF
Set up reference vector for generating pseudo- random	integers, hypergeometric distribution	G05EFF
Set up reference vector for generating pseudo- random	integers, negative binomial distribution	G05EEF
Set up reference vector for generating pseudo- random	integers, Poisson distribution	G05ECF
Set up reference vector for generating pseudo- random	integers, uniform distribution	G05EBF
Pseudo- random	logical (boolean) value	G05DZF
Pseudo- random	multivariate Normal vector from reference vector	G05EZF
Save state of random	number generating routines	G05CFF
Restore state of random	number generating routines	G05CGF
Initialise random	number generating routines to give...	G05CCF
Initialise random	number generating routines to give repeatable...	G05CBF
Generates a vector of pseudo- random	numbers from a beta distribution	G05FEF
Generates a vector of pseudo- random	numbers from a gamma distribution	G05FFF
Generates a vector of random	numbers from a Normal distribution	G05FDF
Generates a vector of random	numbers from a uniform distribution	G05FAF
Generates a vector of random	numbers from an (negative) exponential...	G05FBF
Computes	random orthogonal matrix	G05GAF
Pseudo- random	permutation of an integer vector	G05EHF
Pseudo- random	real numbers, Cauchy distribution	G05DF
Pseudo- random	real numbers, F distribution	G05DKF
Pseudo- random	real numbers, logistic distribution	G05DCF
Pseudo- random	real numbers, lognormal distribution	G05DEF
Pseudo- random	real numbers, (negative) exponential...	G05DBF
Pseudo- random	real numbers, Normal distribution	G05DDF
Pseudo- random	real numbers, Student's t -distribution	G05DJF
Pseudo- random	real numbers, uniform distribution over (0,1)	G05CAF
Pseudo- random	real numbers, uniform distribution over (a, b)	G05DAF
Pseudo- random	real numbers, Weibull distribution	G05DPF
Pseudo- random	real numbers, χ^2 distribution	G05DHF
Pseudo- random	sample from an integer vector	G05EJF
Generates vector of pseudo- random	variates from Von Mises distribution	G05FSF
Analysis of variance, randomized block or completely randomized design,...		G04BBF
Analysis of variance, randomized block or completely	randomized design, treatment means and standard errors	G04BBF
Performs the runs up or runs down test for randomness		G08EAF
Performs the pairs (serial) test for randomness		G08EBF
Performs the triplets test for randomness		G08ECF
Performs the gaps test for randomness		G08EDF
...problem, regular/singular system, finite/infinite	range , eigenvalue and eigenfunction, user-specified...	D02KEF
...order Sturm–Liouville problem, regular system, finite	range , eigenvalue only	D02KAF
...problem, regular/singular system, finite/infinite	range , eigenvalue only, user-specified break-points	D02KDF

ODEs, IVP, resets end of	range for D02PDF	D02PWF
	Safe range of complex floating-point arithmetic	X02ANF
	Safe range of floating-point arithmetic	X02AMF
Computes probability for the Studentized	range statistic	G01EMF
Computes deviates for the Studentized	range statistic	G01FMF
...method, until function of solution is zero, integration over	range with intermediate output (simple driver)	D02BJF
ODEs, IVP, Runge-Kutta method, integration over	range with output	D02PCF
Computes quantities needed for	range-mean or standard deviation-mean plot	G13AUF
	Rank a vector, character data	M01DCF
	Rank a vector, integer numbers	M01DBF
	Rank a vector, real numbers	M01DAF
	Rank arbitrary data	M01DZF
	Rank columns of a matrix, integer numbers	M01DKF
	Rank columns of a matrix, real numbers	M01DJF
Kendall/Spearman non-parametric	rank correlation coefficients, casewise treatment of...	G02BPF
Kendall/Spearman non-parametric	rank correlation coefficients, casewise treatment of...	G02BRF
Kendall/Spearman non-parametric	rank correlation coefficients, no missing values,...	G02BNF
Kendall/Spearman non-parametric	rank correlation coefficients, no missing values,...	G02BQF
Kendall/Spearman non-parametric	rank correlation coefficients, pairwise treatment of...	G02BSF
Pseudo-inverse and	rank of a real m by n matrix ($m \geq n$)	F01BLF
	Rank rows of a matrix, integer numbers	M01DFF
	Rank rows of a matrix, real numbers	M01DEF
Performs the Wilcoxon one-sample (matched pairs) signed	rank test	G08AGF
	Rank-1 update, complex Hermitian matrix (CHER/ZHER)	F06SPF
	Rank-1 update, complex Hermitian packed matrix...	F06SQF
	Rank-1 update, complex rectangular matrix, conjugated...	F06SNF
	Rank-1 update, complex rectangular matrix, unconjugated...	F06SMF
QR factorization by sequence of plane rotations,	rank-1 update of complex upper triangular matrix	F06TPF
QR factorization by sequence of plane rotations,	rank-1 update of real upper triangular matrix	F06QPF
	Rank-1 update, real rectangular matrix (SGER/DGER)	F06PMF
	Rank-1 update, real symmetric matrix (SSYR/DSYR)	F06PPF
	Rank-1 update, real symmetric packed matrix (SSPR/DSPR)	F06PQF
	Rank-2 update, complex Hermitian matrix (CHER2/ZHER2)	F06SRF
	Rank-2 update, complex Hermitian packed matrix...	F06SSF
	Rank-2 update, real symmetric matrix (SSYR2/DSYR2)	F06PRF
	Rank-2 update, real symmetric packed matrix...	F06PSF
	Rank-2k update of a complex Hermitian matrix...	F06ZRF
	Rank-2k update of a complex symmetric matrix...	F06ZWF
	Rank-2k update of a real symmetric matrix...	F06YRF
	Rank-k update of a complex Hermitian matrix...	F06ZPF
	Rank-k update of a complex symmetric matrix...	F06ZUF
	Rank-k update of a real symmetric matrix...	F06YPF
Rearrange a vector according to given	ranks , character data	M01ECF
Rearrange a vector according to given	ranks , integer numbers	M01EBF
	Ranks , Normal scores, approximate Normal scores or...	G01DHF
Rearrange a vector according to given	ranks , real numbers	M01EAF
Regression using	ranks , right-censored data	G08RBF
Regression using	ranks , uncensored data	G08RAF
Evaluation of fitted	rational function as computed by E02RAF	E02RBF
Interpolated values, evaluate	rational interpolant computed by E01RAF, one variable	E01RBF
Interpolating functions,	rational interpolant, one variable	E01RAF
Generates a	realisation of a multivariate time series from a VARMA...	G05HDF
	Rearrange a vector according to given ranks, character...	M01ECF
	Rearrange a vector according to given ranks, integer...	M01EBF
	Rearrange a vector according to given ranks, real...	M01EAF
Computes	reciprocal of Mills' Ratio	G01MBF
	Recover cosine and sine from given complex tangent,...	F06CCF
	Recover cosine and sine from given complex tangent,...	F06CDF
	Recover cosine and sine from given real tangent	F06BCF
Multi-dimensional Gaussian quadrature over hyper-	rectangle	D01FBF
Multi-dimensional adaptive quadrature over hyper-	rectangle	D01FCF
Discretize a 2nd order elliptic PDE on a	rectangle	D03EEF
Multi-dimensional quadrature over hyper-	rectangle , Monte Carlo method	D01GBF
Multi-dimensional adaptive quadrature over hyper-	rectangle , multiple integrands	D01EAF
Matrix-vector product, complex	rectangular band matrix (CGBMV/ZGBMV)	F06SBF
Matrix-vector product, real	rectangular band matrix (SGBMV/DGBMV)	F06PBF
Univariate time series, smoothed sample spectrum using	rectangular , Bartlett, Tukey or Parzen lag window	G13CAF
...time series, smoothed sample cross spectrum using	rectangular , Bartlett, Tukey or Parzen lag window	G13CCF
...functions, fitting bicubic spline, data on	rectangular grid	E01DAF
...bicubic splines with automatic knot placement, data on	rectangular grid	E02DCF
Matrix-matrix product, two complex	rectangular matrices (CGEMM/ZGEMM)	F06ZAF
Matrix-matrix product, two real	rectangular matrices (SGEMM/DGEMM)	F06YAF
LQ factorization of complex general	rectangular matrix (CGELQF/ZGELQF)	F08AVF
Matrix-vector product, complex	rectangular matrix (CGEMV/ZGEMV)	F06SAF
...factorization with column pivoting of complex general	rectangular matrix (CGEQPF/ZGEQPF)	F08BSF
QR factorization of complex general	rectangular matrix (CGEQRF/ZGEQRF)	F08ASF
...product, one complex Hermitian matrix, one complex	rectangular matrix (CHEMM/ZHEMM)	F06ZCF
Apply sequence of plane rotations, complex	rectangular matrix, complex cosine and real sine	F06TYF
Rank-1 update, complex	rectangular matrix, conjugated vector (CGERC/ZGERC)	F06SNF
...product, one complex symmetric matrix, one complex	rectangular matrix (CSYMM/ZSYMM)	F06ZTF
...product, one complex triangular matrix, one complex	rectangular matrix (CTRMM/ZTRMM)	F06ZFF
Matrix initialisation, real	rectangular matrix	F06QHF
Apply sequence of plane rotations, real	rectangular matrix	F06QXF
Matrix initialisation, complex	rectangular matrix	F06THF
Permute rows or columns, real	rectangular matrix, permutations represented by a real...	F06QKF
Permute rows or columns, complex	rectangular matrix, permutations represented by a real...	F06VKF
Permute rows or columns, real	rectangular matrix, permutations represented by an...	F06QJF
Permute rows or columns, complex	rectangular matrix, permutations represented by an...	F06VJF
Apply sequence of plane rotations, complex	rectangular matrix, real cosine and complex sine	F06TXF
Apply sequence of plane rotations, complex	rectangular matrix, real cosine and sine	F06VXF
LQ factorization of real general	rectangular matrix (SGELQF/DGELQF)	F08AHF
Matrix-vector product, real	rectangular matrix (SGEMV/DGEMV)	F06PAF
QR factorization with column pivoting of real general	rectangular matrix (SGEQPF/DGEQPF)	F08BEF

QR factorization of real general	rectangular matrix (SGEQRF/DGEQRF)	F08AEF
Rank-1 update, real	rectangular matrix (SGER/DGER)	F06PMF
...product, one real symmetric matrix, one real	rectangular matrix (SSYMM/DSYMM)	F06YCF
...product, one real triangular matrix, one real	rectangular matrix (STRMM/DTRMM)	F06YFF
Unitary reduction of complex general	rectangular matrix to bidiagonal form (CGEBRD/ZGEBRD)	F08KSF
Orthogonal reduction of real general	rectangular matrix to bidiagonal form (SGBRD/DGBRD)	F08KEF
Rank-1 update, complex	rectangular matrix, unconjugated vector (CGERU/ZGERU)	F06SMF
Matrix copy, real	rectangular or trapezoidal matrix	F06QFF
Matrix copy, complex	rectangular or trapezoidal matrix	F06TFF
...finite differences, remeshing, two space variables,	rectangular region	D03RAF
Convert real matrix between packed banded and	rectangular storage schemes	F01ZCF
Convert complex matrix between packed banded and	rectangular storage schemes	F01ZDF
...finite differences, remeshing, two space variables,	rectilinear region	D03RBF
SVD of real bidiagonal matrix	reduced from complex general matrix (CBDSQR/ZBDSQR)	F08MSF
...Schur factorization of complex upper Hessenberg matrix	reduced from complex general matrix (CHSEQR/ZHSEQR)	F08PSF
...and eigenvectors of real symmetric tridiagonal matrix,	reduced from complex Hermitian matrix, using implicit...	F08JSF
...of real symmetric positive definite tridiagonal matrix,	reduced from complex Hermitian positive definite matrix...	F08JUF
SVD of real bidiagonal matrix	reduced from real general matrix (SBDSQR/DBDSQR)	F08MEF
...and Schur factorization of real upper Hessenberg matrix	reduced from real general matrix (SHSEQR/DHSEQR)	F08PEF
...and eigenvectors of real symmetric tridiagonal matrix,	reduced from real symmetric matrix using implicit QL ...	F08JEF
...of real symmetric positive definite tridiagonal matrix,	reduced from real symmetric positive definite matrix...	F08JGF
Unitary	reduction of complex general matrix to upper Hessenberg...	F08NSF
Unitary	reduction of complex general rectangular matrix to...	F08KSF
Unitary	reduction of complex Hermitian band matrix to real...	F08HSF
Unitary	reduction of complex Hermitian matrix to real symmetric...	F08FSF
Unitary	reduction of complex Hermitian matrix to real symmetric...	F08GSF
Orthogonal	reduction of real general matrix to upper Hessenberg...	F08NEF
Orthogonal	reduction of real general rectangular matrix to...	F08KEF
Orthogonal	reduction of real symmetric band matrix to symmetric...	F08HEF
Orthogonal	reduction of real symmetric matrix to symmetric...	F08GEF
Orthogonal	reduction of real symmetric matrix to symmetric...	F08FEF
Generate orthogonal transformation matrices from	reduction to bidiagonal form determined by F08KEF...	F08KFF
Apply orthogonal transformations from	reduction to bidiagonal form determined by F08KEF...	F08KGF
Generate unitary transformation matrices from	reduction to bidiagonal form determined by F08KSF...	F08KTF
Apply unitary transformations from	reduction to bidiagonal form determined by F08KSF...	F08KUF
Generate orthogonal transformation matrix from	reduction to Hessenberg form determined by F08NEF...	F08NEF
Apply orthogonal transformation matrix from	reduction to Hessenberg form determined by F08NEF...	F08NGF
Generate unitary transformation matrix from	reduction to Hessenberg form determined by F08NSF...	F08NTF
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Reduction to standard form, generalized real...		F01BVF
Reduction to standard form of complex...		F08SSF
Reduction to standard form of complex...		F08TSF
Reduction to standard form of real symmetric-definite...		F08SEF
Reduction to standard form of real symmetric-definite...		F08TEF
Generate orthogonal transformation matrix from	reduction to tridiagonal form determined by F08FEF...	F08FFF
Generate unitary transformation matrix from	reduction to tridiagonal form determined by F08FSF...	F08FTF
Generate orthogonal transformation matrix from	reduction to tridiagonal form determined by F08GEF...	F08GFF
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Generate next term from	reference vector for ARMA time series model	G05EWF
Set up	reference vector for generating pseudo-random integers...	G05EDF
Set up	reference vector for generating pseudo-random integers...	G05EFF
Set up	reference vector for generating pseudo-random integers...	G05EEF
Set up	reference vector for generating pseudo-random integers...	G05ECF
Set up	reference vector for generating pseudo-random integers...	G05EBF
Set up	reference vector for multivariate Normal distribution	G05EAF
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Set up	reference vector from supplied cumulative distribution...	G05EXF
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Refined solution with error bounds of complex band...		F07BVF
Refined solution with error bounds of complex Hermitian...		F07MVF
Refined solution with error bounds of complex Hermitian...		F07PVF
Refined solution with error bounds of complex Hermitian...		F07HVF
Refined solution with error bounds of complex Hermitian...		F07FVF
Refined solution with error bounds of complex Hermitian...		F07GVF
Refined solution with error bounds of complex symmetric...		F07NVF
Refined solution with error bounds of complex symmetric...		F07QVF
Refined solution with error bounds of complex system of...		F07AVF
Refined solution with error bounds of real band system...		F07BHF
Refined solution with error bounds of real symmetric...		F07PHF
Refined solution with error bounds of real symmetric...		F07MHF
Refined solution with error bounds of real symmetric...		F07HHF
Refined solution with error bounds of real symmetric...		F07GHF
Refined solution with error bounds of real symmetric...		F07FHF
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...with multiple right-hand sides using iterative	refinement (Black Box)	F04ABF
...with multiple right-hand sides using iterative	refinement (Black Box)	F04ABF
...in n unknowns, rank = n , $m \geq n$ using iterative	refinement (Black Box)	F04AMF
...linear equations, one right-hand side using iterative	refinement (Black Box)	F04ASF
...linear equations, one right-hand side using iterative	refinement (Black Box)	F04ATF
...simultaneous linear equations using iterative	refinement (coefficient matrix already factorized by...	F04AFF
...of real simultaneous linear equations using iterative	refinement (coefficient matrix already factorized by...	F04AHF
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Apply complex elementary	reflection	F06HTF
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Apply real elementary	reflection , LINPACK style	F06FUF
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Robust	regression , compute regression with user-specified...	G02HDF
Robust	regression , compute weights for use with G02HDF	G02HBF
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Fits a linear	regression model by forward selection	G02EEF
...and standard errors of parameters of a general linear	regression model for given constraints	G02DKF
Fits a general linear	regression model for new dependent variable	G02DGF
Estimates of linear parameters and general linear	regression model from updated model	G02DDF
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Service routines for multiple linear regression , re-order elements of vectors and matrices	G02CFF
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Regression using ranks, right-censored data	G08RBF
Regression using ranks, uncensored data	G08RAF
Robust regression , variance-covariance matrix following G02HDF	G02HFF
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Simple linear regression with constant term, no missing values	G02CAF
Robust regression, compute regression with user-specified functions	G02HDF
Simple linear regression without constant term, missing values	G02CDF
Simple linear regression without constant term, no missing values	G02CBF
...residual sums of squares for all possible linear regressions for a set of independent variables	G02EAF
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2nd order Sturm–Liouville problem, regular/singular system, finite/infinite range,...	D02KEF
2nd order Sturm–Liouville problem, regular/singular system, finite/infinite range,...	D02KDF
...using numerical flux function based on Riemann solver, remeshing	D03PSF
...coupled DAEs, method of lines, finite differences, remeshing , one space variable	D03PPF
...DAEs, method of lines, Keller box discretisation, remeshing , one space variable	D03PRF
...system of 2nd order PDEs, method of lines, finite differences, remeshing , two space variables, rectangular region	D03RAF
...system of 2nd order PDEs, method of lines, finite differences, remeshing , two space variables, rectilinear region	D03RBF
Interpolating functions, method of Renka and Cline, two variables	E01SAF
Reorder data to give ordered distinct observations	G10ZAF
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Real sparse symmetric matrix reorder routine	F11ZBF
Reorder Schur factorization of complex matrix, form...	F08QUF
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Reorder Schur factorization of real matrix using...	F08QFF
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...random number generating routines to give non- repeatable sequence	G05CCF
...analysis model, factor loadings, communalities and residual correlations	G03CAF
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Calculates R^2 and C_p values from residual sums of squares	G02ECF
Calculates standardized residuals and influence statistics	G02FAF
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Multivariate time series, diagnostic checking of residuals , following G13DCF	G13DSF
...time series, noise spectrum, bounds, impulse response function and its standard error	G13CGF
Real sparse unsymmetric linear systems, preconditioned RGMRES , CGS or Bi-CGSTAB	F11BBF
Solution of real sparse unsymmetric linear system, RGMRES , CGS, or Bi-CGSTAB method, Jacobi or...	F11DEF
Solution of real sparse unsymmetric linear system, RGMRES , CGS or Bi-CGSTAB method, preconditioner...	F11DCF
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Osher's approximate Riemann solver for Euler equations in conservative...	D03PVF
Modified HLL Riemann solver for Euler equations in conservative form,...	D03PWF
Exact Riemann Solver for Euler equations in conservative form,...	D03PXF
...upwind scheme using numerical flux function based on Riemann solver, one space	D03PLF
...upwind scheme using numerical flux function based on Riemann solver, one space variable	D03PPF
...upwind scheme using numerical flux function based on Riemann solver, remeshing	D03PSF
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Selected right and/or left eigenvectors of real upper Hessenberg...	F08PKF
Left and right eigenvectors of a complex upper triangular matrix...	F08QXF
Left and right eigenvectors of a real upper quasi-triangular...	F08QKF
...of complex matrix, form orthonormal basis of right invariant subspace for selected eigenvalues, with...	F08QUF
...factorization of real matrix, form orthonormal basis of right invariant subspace for selected eigenvalues, with...	F08QGF
Regression using ranks, right-censored data	G08RBF
Robust confidence intervals, 1 sample	G07EAF
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Robust estimation, median, median absolute deviation,...	G07DAF
Robust estimation, M -estimates for location and scale...	G07DBF
Robust estimation, M -estimates for location and scale...	G07DCF
Calculates a robust estimation of a correlation matrix, Huber's...	G02HKF
Calculates a robust estimation of a correlation matrix,...	G02HMF
Calculates a robust estimation of a correlation matrix,...	G02HLF
Robust regression, compute regression with...	G02HDF
Robust regression, compute weights for use with G02HDF	G02HBF
Robust regression, standard M -estimates	G02HAF
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Robust estimation, median, median absolute deviation, robust standard deviation	G07DAF
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...one iteration of Kalman filter, time-varying, square root covariance filter	G13EAF
...one iteration of Kalman filter, time-invariant, square root covariance filter	G13EBF
Square root of a complex number	A02AAF
Compute square root of $(a^2 + b^2)$, real a and b	F06BNF
ODEs, IVP, root-finding diagnostics for D02QFF and D02QGF	D02QYF
ODEs, IVP, Adams method with root-finding (forward communication, comprehensive)	D02QFF
ODEs, IVP, Adams method with root-finding (reverse communication, comprehensive)	D02QGF
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Apply complex plane rotation	F06HPF
Apply real plane rotation (SROT/DROT)	F06EPF
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Generate real plane rotation , storing tangent	F06BAF
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<i>QR</i> or <i>RQ</i> factorization by sequence of plane rotations , complex upper Hessenberg matrix	F06TRF
<i>QR</i> or <i>RQ</i> factorization by sequence of plane rotations , complex upper spiked matrix	F06TSF
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Compute upper spiked matrix by sequence of plane rotations , complex upper triangular matrix	F06TWF
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Generate sequence of complex plane rotations	F06HQF
...of a real symmetric matrix as a sequence of plane rotations	F06QMF
... <i>U</i> real upper triangular, <i>Z</i> a sequence of plane rotations	F06QTF
...of a Hermitian matrix as a sequence of plane rotations	F06TMF
... <i>U</i> complex upper triangular, <i>Z</i> a sequence of plane rotations	F06TTF
Computes orthogonal rotations for loading matrix, generalized orthomax...	G03BAF
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<i>QR</i> factorization by sequence of plane rotations , rank-1 update of complex upper triangular...	F06TPF
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<i>QR</i> or <i>RQ</i> factorization by sequence of plane rotations , real upper Hessenberg matrix	F06QRF
<i>QR</i> or <i>RQ</i> factorization by sequence of plane rotations , real upper spiked matrix	F06QSF
<i>QR</i> factorization by sequence of plane rotations , real upper triangular matrix augmented by a...	F06QQF
Compute upper Hessenberg matrix by sequence of plane rotations , real upper triangular matrix	F06QVF
Compute upper spiked matrix by sequence of plane rotations , real upper triangular matrix	F06QWF
Allocates observations to groups according to selected rules (for use after G03DAF)	G03DCF
...of weights and abscissae for Gaussian quadrature rules , general choice of rule	D01BCF
...weights and abscissae for Gaussian quadrature rules , restricted choice of rule	D01BBF
ODEs, IVP, Runge-Kutta method, integration over one step	D02PDF
ODEs, IVP, Runge-Kutta method, integration over range with output	D02PCF
ODEs, IVP, Runge-Kutta method, until function of solution is zero,...	D02BJF
ODEs, IVP, Runge-Kutta-Merson method, until a component attains...	D02BGF
ODEs, IVP, Runge-Kutta-Merson method, until function of solution...	D02BHF
2nd order ODEs, IVP, Runge-Kutta-Nystrom method	D02LAF
Compute smoothed data sequence using running median smoothers	G10CAF
Performs the runs up or runs down test for randomness	G08EAF
Performs the runs up or runs down test for randomness	G08EAF
Fresnel integral $S(x)$	S20ACF
Safe range of complex floating-point arithmetic	X02ANF
Safe range of floating-point arithmetic	X02AMF
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Univariate time series, sample autocorrelation function	G13ABF
Multivariate time series, smoothed sample cross spectrum using rectangular, Bartlett,...	G13CCF
Multivariate time series, smoothed sample cross spectrum using spectral smoothing by the...	G13CDF
Multivariate time series, sample cross-correlation or cross-covariance matrices	G13DMF
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...for the Mann-Whitney <i>U</i> statistic, no ties in pooled sample	G08AJF
...for the Mann-Whitney <i>U</i> statistic, ties in pooled sample	G08AKF
Computes probabilities for the one- sample Kolmogorov-Smirnov distribution	G01EYF
Computes probabilities for the two- sample Kolmogorov-Smirnov distribution	G01EZF
Performs the one- sample Kolmogorov-Smirnov test for a user-supplied...	G08CCF
Performs the one- sample Kolmogorov-Smirnov test for standard...	G08CBF
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Multivariate time series, sample partial lag correlation matrices, χ^2 ...	G13DNF
Univariate time series, smoothed sample spectrum using rectangular, Bartlett, Tukey or...	G13CAF
Univariate time series, smoothed sample spectrum using spectral smoothing by the...	G13CBF
Computes a trimmed and winsorized mean of a single sample with estimates of their variance	G07DDF
Sign test on two paired samples	G08AAF
Friedman two-way analysis of variance on <i>k</i> matched samples	G08AEF
Performs the Mann-Whitney <i>U</i> test on two independent samples	G08AHF
Median test on two samples of unequal size	G08ACF
Kruskal-Wallis one-way analysis of variance on <i>k</i> samples of unequal size	G08AFF
Mood's and David's tests on two samples of unequal size	G08BAF
...scores, approximate Normal scores or exponential (Savage) scores	G01DHF
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Multiply complex vector by real scalar (CSSCAL/ZDSCAL)	F06JDF
Broadcast scalar into complex vector	F06HBF
Broadcast scalar into integer vector	F06DBF
Broadcast scalar into real vector	F06FBF
Multiply real vector by scalar , preserving input vector	F06FDF
Multiply complex vector by complex scalar , preserving input vector	F06HDF
Multiply complex vector by real scalar , preserving input vector	F06KDF
Multiply real vector by scalar (SSCAL/DSCAL)	F06EDF
Add a scalar times a complex sparse vector to another complex...	F06GTF
Add a scalar times a real sparse vector to another real...	F06ETF
Add scalar times complex vector to complex vector...	F06GCF
Add scalar times real vector to real vector (SAXPY/DAXPY)	F06ECF
Compute quotient of two real scalars , with overflow flag	F06BLF
Compute quotient of two complex scalars , with overflow flag	F06CLF
Robust estimation, <i>M</i> -estimates for location and scale parameters, standard weight functions	G07DBF
Robust estimation, <i>M</i> -estimates for location and scale parameters, user-defined weight functions	G07DCF
Scaled complex complement of error function,...	S15DDF
Scaled derivatives of $\psi(x)$	S14ADF
Compute Euclidean norm from scaled form	F06BMF
Update Euclidean norm of real vector in scaled form	F06FJF
Update Euclidean norm of complex vector in scaled form	F06KJF
Sum or difference of two real matrices, optional scaling and transposition	F01CTF
Sum or difference of two complex matrices, optional scaling and transposition	F01CWF

...principal coordinate analysis, classical metric	scaling	G03FAF
Performs non-metric (ordinal) multidimensional	scaling	G03FCF
	Scatter a complex sparse vector (CSCTR/ZSCTR)	F06GWF
	Scatter a real sparse vector (SSCTR/DSCTR)	F06EWF
...fit by bicubic splines with automatic knot placement,	scattered data	E02DDF
Lineprinter	scatterplot of one variable against Normal scores	G01AHF
Lineprinter	scatterplot of two variables	G01AGF
	Gram- Schmidt orthogonalisation of n vectors of order m	F05AAF
All eigenvalues and	Schur factorization of complex general matrix (Black...	F02GAF
Reorder	Schur factorization of complex matrix, form orthonormal...	F08QUF
Reorder	Schur factorization of complex matrix using unitary...	F08QTF
Eigenvalues and	Schur factorization of complex upper Hessenberg matrix...	F08PSF
All eigenvalues and	Schur factorization of real general matrix (Black Box)	F02EAF
Reorder	Schur factorization of real matrix, form orthonormal...	F08QGF
Reorder	Schur factorization of real matrix using orthogonal...	F08QFF
Eigenvalues and	Schur factorization of real upper Hessenberg matrix...	F08PEF
Computes factor	score coefficients (for use after G03CAF)	G03CCF
	Normal scores , accurate values	G01DAF
Ranks, Normal	scores , approximate Normal scores or exponential...	G01DHF
	Normal scores , approximate values	G01DBF
	Normal scores , approximate variance-covariance matrix	G01DCF
	Produces standardized values (z- scores) for a data matrix	G03ZAF
Lineprinter	scatterplot of one variable against Normal scores	G01AHF
...approximate Normal scores or exponential (Savage)	scores	G01DHF
Ranks, Normal scores, approximate Normal	scores or exponential (Savage) scores	G01DHF
...and Dekker algorithm, from given starting value, binary	search for interval	C05AGF
	Binary search for interval containing zero of continuous...	C05AVF
	Univariate time series, seasonal and non-seasonal differencing	G13AAF
Univariate time series, estimation,	seasonal ARIMA model (comprehensive)	G13AEF
Univariate time series, estimation,	seasonal ARIMA model (easy-to-use)	G13AFF
Univariate time series, preliminary estimation,	seasonal ARIMA model	G13ADF
...series, state set and forecasts, from fully specified	seasonal ARIMA model	G13AJF
Univariate time series, seasonal and non- seasonal	differencing	G13AAF
	Selected eigenvalues and eigenvectors of complex...	F02HCF
	Selected eigenvalues and eigenvectors of complex...	F02GCF
Estimates of sensitivities of	selected eigenvalues and eigenvectors of complex upper...	F08QYF
	Selected eigenvalues and eigenvectors of real...	F02ECF
	Selected eigenvalues and eigenvectors of real symmetric...	F02FCF
Estimates of sensitivities of	selected eigenvalues and eigenvectors of real upper...	F08QLF
	Selected eigenvalues and eigenvectors of sparse...	F02FJF
	Selected eigenvalues of real symmetric tridiagonal...	F08JJF
...form orthonormal basis of right invariant subspace for	selected eigenvalues, with estimates of sensitivities...	F08QUF
...form orthonormal basis of right invariant subspace for	selected eigenvalues, with estimates of sensitivities...	F08QGF
	Selected eigenvectors of real symmetric tridiagonal...	F08JXF
	Selected eigenvectors of real symmetric tridiagonal...	F08JKF
	Selected right and/or left eigenvectors of complex...	F08PXF
	Selected right and/or left eigenvectors of real upper...	F08PKF
Allocates observations to groups according to	selected rules (for use after G03DAF)	G03DCF
...multiway table from set of classification factors using	selected statistic	G11BAF
1-D quadrature, adaptive, infinite or	semi-infinite interval	D01AMF
1-D quadrature, adaptive,	semi-infinite interval, weight function $\cos(\omega...$	D01ASF
...subspace for selected eigenvalues, with estimates of	sensitivities (CTRSEN/ZTRSEN)	F08QUF
	Estimates of sensitivities of selected eigenvalues and eigenvectors...	F08QYF
	Estimates of sensitivities of selected eigenvalues and eigenvectors...	F08QLF
...subspace for selected eigenvalues, with estimates of	sensitivities (STRSEN/DTRSEN)	F08QGF
Complex conjugate of Hermitian	sequence	C06GBF
Complex conjugate of complex	sequence	C06GCF
...random number generating routines to give repeatable	sequence	G05CBF
...number generating routines to give non-repeatable	sequence	G05CCF
	Generate sequence of complex plane rotations	F06HQF
Apply	sequence of plane rotations, complex rectangular...	F06TYF
Apply	sequence of plane rotations, complex rectangular...	F06TXF
Apply	sequence of plane rotations, complex rectangular...	F06VXF
QR or RQ factorization by	sequence of plane rotations, complex upper Hessenberg...	F06TRF
QR or RQ factorization by	sequence of plane rotations, complex upper spiked...	F06TSF
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Compute upper Hessenberg matrix by	sequence of plane rotations, complex upper triangular...	F06TWf
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...transformation of a real symmetric matrix as a	sequence of plane rotations	F06QMF
...factorization of ZU , U real upper triangular, Z a	sequence of plane rotations	F06QTF
...similarity transformation of a Hermitian matrix as a	sequence of plane rotations	F06TMF
...of ZU , U complex upper triangular, Z a	sequence of plane rotations	F06TTF
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QR factorization by	sequence of plane rotations, rank-1 update of real...	F06PPF
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Compute smoothed data	sequence using running median smoothers	G10CAF
Acceleration of convergence of	sequence , Shanks' transformation and epsilon algorithm	C06BAF
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Convert Hermitian sequences to general complex	sequences	C06GSF
	Convert Hermitian sequences to general complex sequences	C06GSF
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Minimum, function of several variables,	sequential QP method, nonlinear constraints, using...	E04UUF
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	Performs the pairs (serial) test for randomness	G08EBF

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...PDE, solution of finite difference equations by SIP, seven-point 3-D molecule, one iteration	D03UBF
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ODEs, boundary value problem, shooting and matching technique, allowing interior...	D02AGF
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...lag correlation matrices, χ^2 statistics and significance levels	G13DNF
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...Schur factorization of complex matrix using unitary similarity transformation (CTREXC/ZTREXC)	F08QTF
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...Schur factorization of real matrix using orthogonal similarity transformation (STREXC/DTREXC)	F08QFF
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Solution of real almost block diagonal simultaneous linear equations (coefficient matrix...	F04LHF
...of real symmetric positive-definite variable-bandwidth simultaneous linear equations (coefficient matrix...	F04MCF
Solution of real symmetric positive-definite simultaneous linear equations (coefficient matrix...	F04AGF
Solution of real simultaneous linear equations (coefficient matrix...	F04JF
Solution of real sparse simultaneous linear equations (coefficient matrix...	F04AXF
Solution of real simultaneous linear equations, one right-hand side...	F04ARF
Solution of real tridiagonal simultaneous linear equations, one right-hand side...	F04EAF
...of real symmetric positive-definite tridiagonal simultaneous linear equations, one right-hand side...	F04FAF
Solution of real symmetric positive-definite simultaneous linear equations, one right-hand side...	F04ASF
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Generate complex plane rotation, storing tangent, real sine	F06CBF
...cosine and sine from given complex tangent, real sine	F06CDF
...complex rectangular matrix, real cosine and complex sine	F06TXF
...complex rectangular matrix, complex cosine and real sine	F06TYF
...rotations, complex rectangular matrix, real cosine and sine	F06VXF
Recover cosine and sine from given complex tangent, real cosine	F06CCF
Recover cosine and sine from given complex tangent, real sine	F06CDF
Recover cosine and sine from given real tangent	F06BCF
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...convolution Volterra-Abel equation, 2nd kind, weakly singular	D05BDF
...convolution Volterra-Abel equation, 1st kind, weakly singular	D05BEF
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Linear non- singular Fredholm integral equation, 2nd kind, split...	D05AAF
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2nd order Sturm-Liouville problem, regular/ singular system, finite/infinite range, eigenvalue...	D02KDF
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...finite interval, weight function with end-point singularities of algebraico-logarithmic type	D01APF
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...PDE, solution of finite difference equations by SIP , five-point 2-D molecule, iterate to convergence	D03EBF
...PDE, solution of finite difference equations by SIP , five-point 2-D molecule, one iteration	D03UAF
...PDE, solution of finite difference equations by SIP , seven-point 3-D molecule, iterate to convergence	D03ECF
...PDE, solution of finite difference equations by SIP , seven-point 3-D molecule, one iteration	D03UBF
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...time series, smoothed sample spectrum using spectral smoothing by the trapezium frequency (Daniell) window	G13CBF
...series, smoothed sample spectrum using spectral smoothing by the trapezium frequency (Daniell) window	G13CDF
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Fit cubic smoothing spline, smoothing parameter given	G10ABF
Fit cubic smoothing spline, smoothing parameter estimated	G10ACF
Fit cubic smoothing spline, smoothing parameter given	G10ABF
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Sort a vector, integer numbers	M01CBF
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ODEs, IVP, sparse Jacobian, linear algebra diagnostics, for use...	D02NXF
ODEs, IVP, for use with D02M-N routines, sparse Jacobian, linear algebra set-up	D02NUF
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<i>LU</i> factorization of real sparse matrix with known sparsity pattern	F01BSF
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Solution of real sparse symmetric linear system, conjugate...	F11JCF
Real sparse symmetric linear systems, diagnostic for F11GBF	F11GCF
Real sparse symmetric linear systems, preconditioned...	F11GBF
Real sparse symmetric linear systems, set-up for F11GBF	F11GAF
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Solution of real sparse unsymmetric linear system, RGMRES, CGS or Bi-CGSTAB...	F11DCF
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Real sparse unsymmetric linear systems, preconditioned RGMRES,...	F11BBF
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...preconditioning matrix generated by applying SSOR to real sparse unsymmetric matrix	F11DDF
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...scalar times a complex sparse vector to another complex sparse vector (CAXPYI/ZAXPYI)	F06GTF
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Scatter a complex sparse vector (CSCTR/ZSCTR)	F06GWF
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Gather a real sparse vector (SGTHR/DGTHR)	F06EUF
Gather and set to zero a real sparse vector (SGTHRZ/DGTHRZ)	F06EVF
Scatter a real sparse vector (SSCTR/DSCTR)	F06EWF
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Kendall/ Spearman non-parametric rank correlation coefficients,...	G02BRF
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...time series, smoothed sample cross spectrum using spectral smoothing by the trapezium frequency (Daniell)...	G13CDF
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Multivariate time series, smoothed sample cross spectrum using rectangular, Bartlett, Tukey or Parzen...	G13CCF
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...linear system, RGMRES, CGS, or Bi-CGSTAB method, Jacobi or SSOR preconditioner (Black Box)	F11DEF
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...function of a generalized linear model and its standard error	G02GNF
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Explicit ODEs, stiff IVP (reverse communication, comprehensive)	D02NMF
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Unconstrained minimum of a sum of squares, combined Gauss–Newton and modified...	E04HYF
Unconstrained minimum of a sum of squares, combined Gauss–Newton and modified...	E04FCF
Unconstrained minimum of a sum of squares, combined Gauss–Newton and modified...	E04FYF
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Matrix-matrix product, one complex triangular matrix, one complex rectangular matrix...	F06ZFF
Matrix-matrix product, one real triangular matrix, one real rectangular matrix...	F06YFF
Estimate condition number of complex triangular matrix, packed storage (CTPCON/ZTPCON)	F07UUF
Inverse of a complex triangular matrix, packed storage (CTPTRI/ZTPTRI)	F07UWF
...Frobenius norm, largest absolute element, real triangular matrix, packed storage	F06RKF
...Frobenius norm, largest absolute element, complex triangular matrix, packed storage	F06UKF
Estimate condition number of real triangular matrix, packed storage (STPCON/DTPCON)	F07UGF
Inverse of a real triangular matrix, packed storage (STPTRI/DTPTRI)	F07UJF
Estimate condition number of real band triangular matrix (STBCON/DTBCON)	F07VGF
Estimate condition number of real triangular matrix (STRCON/DTRCON)	F07TGF
Left and right eigenvectors of a real upper quasi-triangular matrix (STREVC/DTREVC)	F08QKF
Matrix-vector product, real triangular matrix (STRMV/DTRMV)	F06PPF
...eigenvalues and eigenvectors of real upper quasi-triangular matrix (STRSNA/DTRSNA)	F08QLF
System of equations, real triangular matrix (STRSV/DTRSV)	F06PJF
Inverse of a real triangular matrix (STRTRI/DTRTRI)	F07TJF
...matrix equation $AX + XB = C$, A and B are upper triangular or conjugate-transposes (CTRSYL/ZTRSYL)	F08QVF
...equation $AX + XB = C$, A and B are upper quasi-triangular or transposes (STRSYL/DTRSYL)	F08QHF
Matrix-vector product, complex triangular packed matrix (CTPMV/ZTPMV)	F06SHF
System of equations, complex triangular packed matrix (CTPSV/ZTPSV)	F06SLF
Matrix-vector product, real triangular packed matrix (STPMV/DTPMV)	F06PHF
System of equations, real triangular packed matrix (STPSV/DTPSV)	F06PLF
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Solution of complex band triangular system of linear equations, multiple...	F07VSF
Error bounds for solution of complex triangular system of linear equations, multiple...	F07TVF
Solution of complex triangular system of linear equations, multiple...	F07TSF
Error bounds for solution of complex triangular system of linear equations, multiple...	F07UVF
Solution of complex triangular system of linear equations, multiple...	F07USF
Error bounds for solution of real triangular system of linear equations, multiple...	F07UHF
Solution of real triangular system of linear equations, multiple...	F07UEF
Error bounds for solution of real band triangular system of linear equations, multiple...	F07VHF
Solution of real band triangular system of linear equations, multiple...	F07VEF
Error bounds for solution of real triangular system of linear equations, multiple...	F07THF
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...of UZ or RQ factorization of ZU , U real upper triangular, Z a sequence of plane rotations	F06QTF
... UZ or RQ factorization of ZU , U complex upper triangular, Z a sequence of plane rotations	F06TTF
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...of complex Hermitian band matrix to real symmetric tridiagonal form (CHBTRD/ZHBTRD)	F08HSF
...reduction of complex Hermitian matrix to real symmetric tridiagonal form (CHETRD/ZHETRD)	F08FSF
...orthogonal transformation matrix from reduction to tridiagonal form determined by F08FEF (SORGTR/DORGTR)	F08FFF
...unitary transformation matrix from reduction to tridiagonal form determined by F08FSF (CUNGTR/ZUNGTR)	F08FTF
...orthogonal transformation matrix from reduction to tridiagonal form determined by F08GEF (SOPGTR/DOPGTR)	F08GFF
...unitary transformation matrix from reduction to tridiagonal form determined by F08GSF (CUPGTR/ZUPGTR)	F08GTF
...reduction of complex Hermitian matrix to real symmetric tridiagonal form, packed storage (CHPTRD/ZHPTRD)	F08GSF
...reduction of real symmetric matrix to symmetric tridiagonal form, packed storage (SPPTRD/DSPPTRD)	F08GEF
...reduction of real symmetric band matrix to symmetric tridiagonal form (SSBTRD/DBSTRD)	F08HEF
...reduction of real symmetric matrix to symmetric tridiagonal form (SSYTRD/DSYTRD)	F08FEF
Selected eigenvalues of real symmetric tridiagonal matrix by bisection (SSTEBZ/DSTEBZ)	F08JJF
Selected eigenvectors of real symmetric tridiagonal matrix by inverse iteration, storing...	F08JXF
Selected eigenvectors of real symmetric tridiagonal matrix by inverse iteration, storing...	F08JKF
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All eigenvalues and eigenvectors of real symmetric tridiagonal matrix, reduced from complex Hermitian...	F08JSF
...and eigenvectors of real symmetric positive definite tridiagonal matrix, reduced from complex Hermitian...	F08JUF

All eigenvalues and eigenvectors of real symmetric	tridiagonal matrix, reduced from real symmetric matrix...	F08JEF
...and eigenvectors of real symmetric positive definite	tridiagonal matrix, reduced from real symmetric...	F08JGF
All eigenvalues of real symmetric	tridiagonal matrix, root-free variant of QL or QR ...	F08JFF
Solution of real	tridiagonal simultaneous linear equations (coefficient...	F04LEF
Solution of real	tridiagonal simultaneous linear equations, one...	F04EAF
Solution of real symmetric positive-definite	tridiagonal simultaneous linear equations, one...	F04FAF
Computes a	trimmed and winsorized mean of a single sample with...	G07DDF
Performs the	triplets test for randomness	G08ECF
...smoothed sample spectrum using rectangular, Bartlett,	Tukey or Parzen lag window	G13CAF
...sample cross spectrum using rectangular, Bartlett,	Tukey or Parzen lag window	G13CCF
Computes probabilities for the	two-sample Kolmogorov–Smirnov distribution	G01EZF
Performs the	two-sample Kolmogorov–Smirnov test	G08CDF
	Two-way analysis of variance, hierarchical...	G04AGF
Friedman	two-way analysis of variance on k matched samples	G08AEF
	Two-way contingency table analysis, with...	G01AFF
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Dot product of two complex vectors,	unconjugated (CDOTU/ZDOTU)	F06GAF
Rank-1 update, complex rectangular matrix,	unconjugated vector (CGERU/ZGERU)	F06SMF
	Unconstrained minimum of a sum of squares, combined...	E04GDF
	Unconstrained minimum of a sum of squares, combined...	E04GZF
	Unconstrained minimum of a sum of squares, combined...	E04HEF
	Unconstrained minimum of a sum of squares, combined...	E04HYF
	Unconstrained minimum of a sum of squares, combined...	E04FCF
	Unconstrained minimum of a sum of squares, combined...	E04FYF
	Unconstrained minimum of a sum of squares, combined...	E04GBF
	Unconstrained minimum of a sum of squares, combined...	E04GYF
	Unconstrained minimum, preconditioned conjugate...	E04DGF
	Unconstrained minimum, simplex algorithm, function of...	E04CCF
Switch for taking precautions to avoid	underflow	X02DAF
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Pseudo-random integer from	uniform distribution	G05DYF
...reference vector for generating pseudo-random integers,	uniform distribution	G05EBF
Generates a vector of random numbers from a	uniform distribution	G05FAF
Pseudo-random real numbers,	uniform distribution over (0,1)	G05CAF
Pseudo-random real numbers,	uniform distribution over (a,b)	G05DAF
Operations with	unitary matrices, form rows of Q , after RQ ...	F01RKF
Form all or part of	unitary Q from LQ factorization determined by...	F08AWF
Form all or part of	unitary Q from QR factorization determined by...	F08ATF
	Unitary reduction of complex general matrix to upper...	F08NSF
	Unitary reduction of complex general rectangular matrix...	F08KSF
	Unitary reduction of complex Hermitian band matrix to...	F08HSF
	Unitary reduction of complex Hermitian matrix to real...	F08FSF
	Unitary reduction of complex Hermitian matrix to real...	F08GSF
Reorder Schur factorization of complex matrix using	unitary similarity transformation (CTREXC/ZTREXC)	F08QTF
	Unitary similarity transformation of a Hermitian matrix...	F06TMF
Apply	unitary transformation determined by F08ASF or F08BSF...	F08AUF
Apply	unitary transformation determined by F08AVF...	F08AXF
Generate	unitary transformation matrices from reduction to...	F08KTF
Apply	unitary transformation matrix determined by F08FSF...	F08FUF
Apply	unitary transformation matrix determined by F08GSF...	F08GUF
Generate	unitary transformation matrix from reduction to...	F08NTF
Apply	unitary transformation matrix from reduction to...	F08NUF
Generate	unitary transformation matrix from reduction to...	F08FTF
Generate	unitary transformation matrix from reduction to...	F08GTF
Apply	unitary transformations from reduction to bidiagonal...	F08KUF
...cross amplitude spectrum, squared coherency, bounds,	univariate and bivariate (cross) spectra	G13CEF
Multivariate time series, gain, phase, bounds,	univariate and bivariate (cross) spectra	G13CFF
Set up reference vector for	univariate ARMA time series model	G05EGF
	Univariate time series, diagnostic checking of...	G13ASF
	Univariate time series, estimation, seasonal ARIMA...	G13AEF
	Univariate time series, estimation, seasonal ARIMA...	G13AFF
	Univariate time series, forecasting from state set	G13AHF
	Univariate time series, partial autocorrelations from...	G13ACF
	Univariate time series, preliminary estimation...	G13ADF
	Univariate time series, sample autocorrelation function	G13ABF
	Univariate time series, seasonal and non-seasonal...	G13AAF
	Univariate time series, smoothed sample spectrum using...	G13CAF
	Univariate time series, smoothed sample spectrum using...	G13CBF
	Univariate time series, state set and forecasts, from...	G13AJF
	Univariate time series, update state set for...	G13AGF
Solution of real sparse	unsymmetric linear system, RGMRES, CGS, or Bi-CGSTAB...	F11DEF
Solution of real sparse	unsymmetric linear system, RGMRES, CGS or Bi-CGSTAB...	F11DCF
Real sparse	unsymmetric linear systems, diagnostic for F11BBF	F11BCF
Real sparse	unsymmetric linear systems, incomplete LU factorization	F11DAF
Real sparse	unsymmetric linear systems, preconditioned RGMRES, CGS...	F11BBF
Real sparse	unsymmetric linear systems, set-up for F11BBF	F11BAF
...matrix generated by applying SSOR to real sparse	unsymmetric matrix	F11DDF
Real sparse	unsymmetric matrix reorder routine	F11ZAF
Real sparse	unsymmetric matrix vector multiply	F11XAF
	Update a weighted sum of squares matrix with a new...	G02BTF
Rank-2	update , complex Hermitian matrix (CHER2/ZHER2)	F06SRF
Rank-1	update , complex Hermitian matrix (CHER/ZHER)	F06SPF
Rank-2	update , complex Hermitian packed matrix (CHPR2/ZHPR2)	F06SSF
Rank-1	update , complex Hermitian packed matrix (CHPR/ZHPR)	F06SQF
Rank-1	update , complex rectangular matrix, conjugated vector...	F06SNF
Rank-1	update , complex rectangular matrix, unconjugated vector...	F06SMF
	Update Euclidean norm of complex vector in scaled form	F06KJF
	Update Euclidean norm of real vector in scaled form	F06FJF
Rank-2k	update of a complex Hermitian matrix (CHER2K/ZHER2K)	F06ZRF

Rank- k update of a complex Hermitian matrix (CHERK/ZHERK)	F06ZPF
Rank- $2k$ update of a complex symmetric matrix (CSYR2K/ZHER2K)	F06ZWF
Rank- k update of a complex symmetric matrix (CSYRK/ZSYRK)	F06ZUF
Rank- $2k$ update of a real symmetric matrix (SSYR2K/DSYR2K)	F06YRF
Rank- k update of a real symmetric matrix (SSYRK/DSYRK)	F06YPF
...factorization by sequence of plane rotations, rank-1 update of complex upper triangular matrix	F06TPF
...factorization by sequence of plane rotations, rank-1 update of real upper triangular matrix	F06QPF
Combined measurement and time update , one iteration of Kalman filter,...	G13EBF
Combined measurement and time update , one iteration of Kalman filter, time-varying,...	G13EAF
Rank-1 update , real rectangular matrix (SGER/DGER)	F06PMF
Rank-2 update , real symmetric matrix (SSYR2/DSYR2)	F06PRF
Rank-1 update , real symmetric matrix (SSYR/DSYR)	F06PPF
Rank-2 update , real symmetric packed matrix (SSPR2/DSPR2)	F06PSF
Rank-1 update , real symmetric packed matrix (SSPR/DSPR)	F06PQF
Update solution of real symmetric positive-definite...	F04MFF
Update solution of the Yule-Walker equations for a real...	F04MEF
Multivariate time series, update state set for forecasting from multi-input model	G13BGF
Univariate time series, update state set for forecasting	G13AGF
...parameters and general linear regression model from updated model	G02DDF
Multivariate time series, updates forecasts and their standard errors	G13DKF
Computes upper and lower tail probabilities and probability...	G01EEF
upper Hessenberg form (CGEHRD/ZGEHRD)	F08NSF
upper Hessenberg form (SGEHRD/DGEHRD)	F08NEF
upper Hessenberg matrix by inverse iteration...	F08PXF
upper Hessenberg matrix by inverse iteration...	F08PKF
Compute upper Hessenberg matrix by sequence of plane rotations,...	F06TVF
Compute upper Hessenberg matrix by sequence of plane rotations,...	F06QVF
...RQ factorization by sequence of plane rotations, real upper Hessenberg matrix	F06QRF
...factorization by sequence of plane rotations, complex upper Hessenberg matrix	F06TRF
Eigenvalues and Schur factorization of complex upper Hessenberg matrix reduced from complex general...	F08PSF
Eigenvalues and Schur factorization of real upper Hessenberg matrix reduced from real general...	F08PEF
Left and right eigenvectors of a real upper quasi-triangular matrix (STREVC/DTREVC)	F08QKF
...of selected eigenvalues and eigenvectors of a real upper quasi-triangular matrix (STRSNA/DTRSNA)	F08QLF
...matrix equation $AX + XB = C$, A and B are upper quasi-triangular or transposes (STRSYL/DTRSYL)	F08QHF
Compute upper spiked matrix by sequence of plane rotations,...	F06TWF
Compute upper spiked matrix by sequence of plane rotations,...	F06QWF
...RQ factorization by sequence of plane rotations, real upper spiked matrix	F06QSF
...factorization by sequence of plane rotations, complex upper spiked matrix	F06TSF
RQ factorization of real m by n upper trapezoidal matrix ($m \leq n$)	F01QGF
RQ factorization of complex m by n upper trapezoidal matrix ($m \leq n$)	F01RGF
QR factorization by sequence of plane rotations, real upper triangular matrix augmented by a full row	F06QQF
...factorization by sequence of plane rotations, complex upper triangular matrix augmented by a full row	F06TQF
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SVD of a complex upper triangular matrix (Black Box)	F02XUF
Left and right eigenvectors of a complex upper triangular matrix (CTREVC/ZTREVC)	F08QXF
...of selected eigenvalues and eigenvectors of complex upper triangular matrix (CTRSNA/ZTRSNA)	F08QYF
...by sequence of plane rotations, rank-1 update of real upper triangular matrix	F06PPF
...Hessenberg matrix by sequence of plane rotations, real upper triangular matrix	F06QVF
...spiked matrix by sequence of plane rotations, real upper triangular matrix	F06QWF
...sequence of plane rotations, rank-1 update of complex upper triangular matrix	F06TFP
...matrix by sequence of plane rotations, complex upper triangular matrix	F06TVF
...spiked matrix by sequence of plane rotations, complex upper triangular matrix	F06TWF
...matrix equation $AX + XB = C$, A and B are upper triangular or conjugate-transposes...	F08QVF
...of UZ or RQ factorization of ZU , U real upper triangular, Z a sequence of plane rotations	F06QTF
...of UZ or RQ factorization of ZU , U complex upper triangular, Z a sequence of plane rotations	F06TTF
...in conservative form, coupled DAEs, method of lines, upwind scheme using numerical flux function based on...	D03PLF
...source terms in conservative form, method of lines, upwind scheme using numerical flux function based on...	D03PFF
...in conservative form, coupled DAEs, method of lines, upwind scheme using numerical flux function based on...	D03PSF
Input/output utilities	X04
Analysis of variance , complete factorial design, treatment means...	G04CAF
...mean of a single sample with estimates of their variance	G07DDF
Analysis of variance , general row and column design, treatment...	G04BCF
Two-way analysis of variance , hierarchical classification, subgroups of...	G04AGF
Friedman two-way analysis of variance on k matched samples	G08AEF
Kruskal-Wallis one-way analysis of variance on k samples of unequal size	G08AFF
Analysis of variance , randomized block or completely randomized...	G04BBF
Mean, variance , skewness, kurtosis etc, one variable, from...	G01ADF
Mean, variance , skewness, kurtosis etc, one variable, from...	G01AAF
Mean, variance , skewness, kurtosis etc, two variables, from...	G01ABF
...Mahalanobis squared distances for group or pooled variance-covariance matrices (for use after G03DAF)	G03DBF
...matrix from correlation/ variance-covariance matrix computed by G02BXF	G02BYF
Robust regression, variance-covariance matrix following G02HDF	G02HFF
Computes partial correlation/ variance-covariance matrix from...	G02BYF
Normal scores, approximate variance-covariance matrix	G01DCF
Performs canonical variate analysis	G03ACF
Generates vector of pseudo-random variates from Von Mises distribution	G05FSF
...a realisation of a multivariate time series from a VARMA model	G05HDF
Multivariate time series, estimation of VARMA model	G13DCF
Rearrange a vector according to given ranks, character data	M01ECF
Rearrange a vector according to given ranks, integer numbers	M01EBF
Rearrange a vector according to given ranks, real numbers	M01EAF
Calculates the zeros of a vector autoregressive (or moving average) operator	G13DXF
Multiply complex vector by complex diagonal matrix	F06HCF
Multiply complex vector by complex scalar (CSCAL/ZSCAL)	F06GDF
Multiply complex vector by complex scalar, preserving input vector	F06HDF
Multiply real vector by diagonal matrix	F06FCF
Multiply complex vector by real diagonal matrix	F06KCF
Multiply complex vector by real scalar (CSSCAL/ZDSCAL)	F06JDF
Multiply complex vector by real scalar, preserving input vector	F06KDF
Multiply real vector by scalar, preserving input vector	F06FDF
Multiply real vector by scalar (SSCAL/DSICAL)	F06EDF
...times a complex sparse vector to another complex sparse vector (CAXPYI/ZAXPYI)	F06GTF
Add scalar times complex vector to complex vector (CAXPY/ZAXPY)	F06GCF
Copy complex vector (CCOPY/ZCOPY)	F06GFF
Rank-1 update, complex rectangular matrix, conjugated vector (CGERC/ZGERC)	F06SNF
Rank-1 update, complex rectangular matrix, unconjugated vector (CGERU/ZGERU)	F06SMF
Gather a complex sparse vector (CGTHR/ZGTHR)	F06GUF
Gather and set to zero a complex sparse vector (CGTHRZ/ZGTHRZ)	F06GVF

Sort a vector , character data	M01CCF
Rank a vector , character data	M01DCF
Dot product of two complex sparse vector , conjugated (CDOTCI/ZDOTCI)	F06GSF
Scatter a complex sparse vector (CSCTR/ZSCTR)	F06GWF
Index, complex vector element with largest absolute value...	F06JMF
Index, real vector element with largest absolute value...	F06JLF
Sum the absolute values of real vector elements (SASUM/DASUM)	F06KCF
Sum the absolute values of complex vector elements (SCASUM/DZASUM)	F06JKF
Broadcast scalar into integer vector	F06DBF
Copy integer vector	F06DFF
Broadcast scalar into real vector	F06FBF
Multiply real vector by scalar, preserving input vector	F06FDF
Negate real vector	F06FGF
Compute weighted Euclidean norm of real vector	F06FKF
Broadcast scalar into complex vector	F06HBF
...complex vector by complex scalar, preserving input vector	F06HDF
Negate complex vector	F06HGF
...complex vector by real scalar, preserving input vector	F06KDF
Copy real vector to complex vector	F06KFF
Last non-negligible element of real vector	F06KLF
Generate next term from reference vector for ARMA time series model	G05EWF
Set up reference vector for generating pseudo-random integers, binomial...	G05EDF
Set up reference vector for generating pseudo-random integers,...	G05EFF
Set up reference vector for generating pseudo-random integers, negative...	G05EEF
Set up reference vector for generating pseudo-random integers, Poisson...	G05ECF
Set up reference vector for generating pseudo-random integers, uniform...	G05EBF
Set up reference vector for multivariate Normal distribution	G05EAF
Set up reference vector for univariate ARMA time series model	G05EGF
Pseudo-random multivariate Normal vector from reference vector	G05EZF
Set up reference vector from supplied cumulative distribution function...	G05EXF
Pseudo-random permutation of an integer vector	G05EHF
Pseudo-random sample from an integer vector	G05EJF
Pseudo-random integer from reference vector	G05EYF
Pseudo-random multivariate Normal vector from reference vector	G05EZF
Update Euclidean norm of real vector in scaled form	F06JFJ
Update Euclidean norm of complex vector in scaled form	F06KJF
Sort a vector , integer numbers	M01CBF
Rank a vector , integer numbers	M01DBF
...finite interval, variant of D01AJF efficient on vector machines	D01ATF
...finite interval, variant of D01AKF efficient on vector machines	D01AUF
...number-theoretic method, variant of D01GCF efficient on vector machines	D01GDF
Real sparse unsymmetric matrix vector multiply	F11XAF
Real sparse symmetric matrix vector multiply	F11XEF
Evaluation of a fitted bicubic spline at a vector of points	E02DEF
Generates a vector of pseudo-random numbers from a beta...	G05FEF
Generates a vector of pseudo-random numbers from a gamma...	G05FFF
Generates vector of pseudo-random variates from Von Mises...	G05FSF
Generates a vector of random numbers from a Normal distribution	G05FDF
Generates a vector of random numbers from a uniform distribution	G05FAF
Generates a vector of random numbers from an (negative) exponential...	G05FBF
Matrix- vector product, complex Hermitian band matrix...	F06SDF
Matrix- vector product, complex Hermitian matrix (CHEMV/ZHEMV)	F06SCF
Matrix- vector product, complex Hermitian packed matrix...	F06SEF
Matrix- vector product, complex rectangular band matrix...	F06SBF
Matrix- vector product, complex rectangular matrix...	F06SAF
Matrix- vector product, complex triangular band matrix...	F06SGF
Matrix- vector product, complex triangular matrix (CTRMV/ZTRMV)	F06SFF
Matrix- vector product, complex triangular packed matrix...	F06SHF
Matrix- vector product, real rectangular band matrix...	F06PBF
Matrix- vector product, real rectangular matrix (SGEMV/DGEMV)	F06PAF
Matrix- vector product, real symmetric band matrix...	F06PDF
Matrix- vector product, real symmetric matrix (SSYMV/DSYMV)	F06PCF
Matrix- vector product, real symmetric packed matrix...	F06PEF
Matrix- vector product, real triangular band matrix...	F06PGF
Matrix- vector product, real triangular matrix (STRMV/DTRMV)	F06PFF
Matrix- vector product, real triangular packed matrix...	F06PHF
Sort a vector , real numbers	M01CAF
Rank a vector , real numbers	M01DAF
Add scalar times real vector to real vector (SAXPY/DAXPY)	F06ECF
...times a real sparse vector to another real sparse vector (SAXPYI/DAXPYI)	F06ETF
Compute Euclidean norm of complex vector (SCNRM2/DZNRM2)	F06JFJ
Copy real vector (SCOPY/DCOPY)	F06EFF
Gather a real sparse vector (SGTHR/DGTHR)	F06EUF
Gather and set to zero a real sparse vector (SGTHRZ/DGTHRZ)	F06EVF
Compute Euclidean norm of real vector (SNRM2/DNRM2)	F06EJF
Scatter a real sparse vector (SSCTR/DSCTR)	F06EWF
Add a scalar times a complex sparse vector to another complex sparse vector (CAXPYI/ZAXPYI)	F06GTF
Add a scalar times a real sparse vector to another real sparse vector (SAXPYI/DAXPYI)	F06ETF
Add scalar times complex vector to complex vector (CAXPY/ZAXPY)	F06GCF
Copy real vector to complex vector	F06KFF
Add scalar times real vector to real vector (SAXPY/DAXPY)	F06ECF
Dot product of two complex sparse vector , unconjugated (CDOTUI/ZDOTUI)	F06GRF
Elements of real vector with largest and smallest absolute value	F06FLF
...for multiple linear regression, select elements from vectors and matrices	G02CEF
...for multiple linear regression, re-order elements of vectors and matrices	G02CFF
Dot product of two complex vectors , conjugated (CDOTC/ZDOTC)	F06GBF
Swap two complex vectors (CSWAP/ZSWAP)	F06GGF
Circular convolution or correlation of two real vectors , extra workspace for greater speed	C06FKF
Compute cosine of angle between two real vectors	F06FAF
Apply real symmetric plane rotation to two vectors	F06FPF
Apply real plane rotation to two complex vectors	F06KPF
Circular convolution or correlation of two real vectors , no extra workspace	C06EKF
Gram-Schmidt orthogonalisation of n vectors of order m	F05AAF
Dot product of two real vectors (SDOT/DDOT)	F06EAF
Dot product of two real sparse vectors (SDOTI/DDOTI)	F06ERF
Apply plane rotation to two real sparse vectors (SROTI/DROTI)	F06EXF
Swap two real vectors (SSWAP/DSWAP)	F06EGF
Dot product of two complex vectors , unconjugated (CDOTU/ZDOTU)	F06GAF
Nonlinear Volterra convolution equation, 2nd kind	D05BAF
Generate weights for use in solving Volterra equations	D05BWF

Nonlinear convolution	Volterra–Abel equation, 1st kind, weakly singular	D05BEF
Nonlinear convolution	Volterra–Abel equation, 2nd kind, weakly singular	D05BDF
Computes probability for	Von Mises distribution	G01ERF
Generates vector of pseudo-random variates from	Von Mises distribution	G05FSF
Shapiro and Wilk's W test for Normality		G01DDF
Update solution of the Yule–Walker equations for a real symmetric positive-definite...		F04MEF
Solution of the Yule–Walker equations for a real symmetric positive-definite...		F04FEF
Kruskal–Wallis one-way analysis of variance on k samples of...		G08AFF
Computes bounds for the significance of a Durbin–Watson statistic		G01EPF
Computes Durbin–Watson test statistic		G02FCF
Generate weights for use in solving	weakly singular Abel type equations	D05BYF
Nonlinear convolution Volterra–Abel equation, 2nd kind,	weakly singular	D05BDF
Nonlinear convolution Volterra–Abel equation, 1st kind,	weakly singular	D05BEF
Inverse Laplace transform, modified	Weeks' method	C06LBF
Pseudo-random real numbers,	Weibull distribution	G05DPF
...maximum likelihood estimates for parameters of the	Weibull distribution	G07BEF
1-D quadrature, adaptive, finite interval,	weight function $1/(x - c)$, Cauchy principal value...	D01AQF
1-D quadrature, adaptive, finite interval,	weight function $\cos(\omega x)$ or $\sin(\omega x)$	D01ANF
1-D quadrature, adaptive, semi-infinite interval,	weight function $\cos(\omega x)$ or $\sin(\omega x)$	D01ASF
...a robust estimation of a correlation matrix, Huber's	weight function	G02HKF
...estimation of a correlation matrix, user-supplied	weight function	G02HMF
...estimation of a correlation matrix, user-supplied	weight function plus derivatives	G02HLF
1-D quadrature, adaptive, finite interval,	weight function with end-point singularities of...	D01APF
...for location and scale parameters, standard	weight functions	G07DBF
...for location and scale parameters, user-defined	weight functions	G07DCF
Computes (optionally weighted) correlation and covariance matrices		G02BXF
Compute	weighted Euclidean norm of real vector	F06FKF
Real general Gauss–Markov linear model (including	weighted least-squares)	F04JLF
Complex general Gauss–Markov linear model (including	weighted least-squares)	F04KLF
ODEs, IVP, weighted norm of local error estimate for D02M-N...		D02ZAF
Computes a	weighted sum of squares matrix	G02BUF
Update a	weighted sum of squares matrix with a new observation	G02BTF
Calculation of weights and abscissae for Gaussian quadrature rules...		D01BCF
Pre-computed weights and abscissae for Gaussian quadrature rules...		D01BBF
Generate weights for use in solving Volterra equations		D05BWF
Generate weights for use in solving weakly singular Abel type...		D05BYF
Robust regression, compute	weights for use with G02HDF	G02HBF
Constructs a box and	whisker plot	G01ASF
Multivariate time series, filtering (pre- whitening) by an ARIMA model		G13BAF
Computes the exact probabilities for the Mann–Whitney U statistic, no ties in pooled sample		G08AJF
Computes the exact probabilities for the Mann–Whitney U statistic, ties in pooled sample		G08AKF
Performs the Mann–Whitney U test on two independent samples		G08AHF
Performs the	Wilcoxon one-sample (matched pairs) signed rank test	G08AGF
Shapiro and Wilk's W test for Normality		G01DDF
...using rectangular, Bartlett, Tukey or Parzen lag	window	G13CAF
...spectral smoothing by the trapezium frequency (Daniell)	window	G13CBF
...using rectangular, Bartlett, Tukey or Parzen lag	window	G13CCF
...spectral smoothing by the trapezium frequency (Daniell)	window	G13CDF
Computes a trimmed and	winsorized mean of a single sample with estimates of...	G07DDF
	Write formatted record to external file	X04BAF
Computes probabilities for χ^2 distribution		G01ECF
Computes deviates for the χ^2 distribution		G01FCF
Computes probabilities for the non-central χ^2 distribution		G01GCF
Pseudo-random real numbers, χ^2 distribution		G05DHF
Performs the χ^2 goodness of fit test, for standard...		G08CGF
...time series, sample partial lag correlation matrices, χ^2 statistics and significance levels		G13DNF
... χ^2 statistics for two-way contingency table		G11AAF
...probability for a positive linear combination of χ^2 variables		G01JCF
...tail probability for a linear combination of (central) χ^2 variables		G01JDF
Two-way contingency table analysis, with χ^2 /Fisher's exact test		G01AFF
Update solution of the Yule–Walker equations for a real symmetric...		F04MEF
Solution of the Yule–Walker equations for a real symmetric...		F04FEF
Gather and set to zero a complex sparse vector (CGTHRZ/ZGTHRZ)		F06GVF
Gather and set to zero a real sparse vector (SGTHRZ/DGTHRZ)		F06EVF
Correlation-like coefficients (about zero), all variables, casewise treatment of missing...		G02BEF
Correlation-like coefficients (about zero), all variables, no missing values		G02BDF
Correlation-like coefficients (about zero), all variables, pairwise treatment of missing...		G02BFF
Zero in given interval of continuous function by Bus...		C05AZF
ODEs, IVP, Adams method, until function of solution is zero , intermediate output (simple driver)		D02CJF
ODEs, IVP, Runge–Kutta method, until function of solution is zero , integration over range with intermediate output (simple driver)		D02BJF
...stiff IVP, BDF method, until function of solution is zero , intermediate output (simple driver)		D02EJF
Zero of continuous function, Bus and Dekker algorithm...		C05AGF
Zero of continuous function by continuation method...		C05AXF
Zero of continuous function, continuation method, from...		C05AJF
Zero of continuous function in given interval, Bus and...		C05ADF
Binary search for interval containing zero of continuous function (reverse communication)		C05AVF
...method, until function of solution is zero (simple driver)		D02BHF
Correlation-like coefficients (about zero), subset of variables, casewise treatment of...		G02BLF
Correlation-like coefficients (about zero), subset of variables, no missing values		G02BKF
Correlation-like coefficients (about zero), subset of variables, pairwise treatment of...		G02BMF
Calculates the zeros of a vector autoregressive (or moving average)...		G13DXF
All zeros of complex polynomial, modified Laguerre method		C02AFF
All zeros of complex quadratic		C02AHF
All zeros of real polynomial, modified Laguerre method		C02AGF

