

Keywords in Context for the NAG Fortran 77 Library

Nonlinear convolution Volterra–Abel equation, first kind, weakly singular		D05BEF
Nonlinear convolution Volterra–Abel equation, second kind, weakly singular		D05BDF
Generate weights for use in solving weakly singular Abel-type equations		D05BYF
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
Robust estimation, median, median absolute deviation, robust standard deviation		G07DAF
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, packed storage		F06UDF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, complex Hessenberg matrix		F06UMF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, complex symmetric band matrix		F06UHF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, complex symmetric matrix		F06UUF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, complex symmetric matrix, packed storage		F06UGF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, complex trapezoidal/triangular matrix		F06UJF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, complex triangular band matrix		F06ULF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, complex triangular matrix, packed storage		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 storage		F06RDF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, real trapezoidal/triangular matrix		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, packed storage		F06RKF
Elements of real vector with largest and smallest absolute value		F06FLF
Index, real vector element with largest absolute value		F06JLF
Index, complex vector element with largest absolute value		F06JMF
Sum absolute values of complex vector elements		F06JKF
Sum absolute values of real vector elements		F06EKF
Acceleration of convergence of sequence, Shanks' transformation...		C06BAF
Normal scores, accurate values		G01DAF
ODEs, IVP, Adams method, until function of solution is zero,...		D02CJF
ODEs, IVP, Adams method with root-finding (forward communication,...		D02QFF
ODEs, IVP, Adams method with root-finding (reverse communication,...		D02QGF
One-dimensional quadrature, non- adaptive , finite interval		D01BDF
One-dimensional quadrature, adaptive , finite interval, allowing for singularities at...		D01ALF
One-dimensional quadrature, adaptive , finite interval, method suitable for oscillating functions		D01AKF
One-dimensional quadrature, adaptive , finite interval, method suitable for oscillating functions		D01AKF
One-dimensional quadrature, adaptive , finite interval, strategy due to Patterson,...		D01AHF
One-dimensional quadrature, adaptive , finite interval, strategy due to Piessens and de Doncker,...		D01AJF
One-dimensional quadrature, adaptive , finite interval, strategy due to Piessens and de Doncker,...		D01AJF
One-dimensional quadrature, adaptive , finite interval, variant of D01AJF efficient on...		D01ATF
One-dimensional quadrature, adaptive , finite interval, variant of D01AKF efficient on...		D01AUF
One-dimensional quadrature, adaptive , finite interval, weight function $1/(x - c)$,...		D01AQF
One-dimensional quadrature, adaptive , finite interval, weight function...		D01ANF
One-dimensional quadrature, adaptive , finite interval, weight function...		D01APF
One-dimensional quadrature, non- adaptive , finite interval with provision for indefinite...		D01ARF
One-dimensional quadrature, adaptive , infinite or semi-infinite interval		D01AMF
Multi-dimensional adaptive quadrature over hyper-rectangle		D01FCF
Multi-dimensional adaptive quadrature over hyper-rectangle, multiple...		D01EAF
One-dimensional quadrature, adaptive , semi-infinite interval, weight function...		D01ASF
Add a new variable to a general linear regression model		G02DEF
Add scalar times complex sparse vector to complex sparse vector		F06GTF
Add scalar times complex vector to complex vector		F06GCF
Add scalar times real sparse vector to real sparse vector		F06ETF
Add scalar times real vector to real vector		F06ECF
Add/delete an observation to/from a general linear regression model		G02DCF
Real inner product added to initial value, basic/ additional precision		X03AAF
Complex inner product added to initial value, basic/ additional precision		X03ABF
Return or set unit number for advisory messages		X04ABF
Airy function $Ai(x)$		S17AGF
Airy function $Ai'(x)$		S17AJF
Airy functions $Ai(z)$ and $Ai'(z)$, complex z		S17DGF
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
Airy functions $Bi(z)$ and $Bi'(z)$, complex z		S17DHF
Interpolated values, Aitken's technique, unequally spaced data, one variable		E01AAF
Basic Linear Algebra Subprograms		F06
Differential/ algebraic equations		D02M-N
...problem, shooting and matching technique, subject to extra algebraic equations, general parameters to be determined		D02SAF
Implicit/ algebraic ODEs, stiff IVP, banded Jacobian (comprehensive)		D02NHF
Implicit/ algebraic ODEs, stiff IVP, full Jacobian (comprehensive)		D02NGF
Implicit/ algebraic ODEs, stiff IVP (reverse communication, comprehensive)		D02NNF
Implicit/ algebraic ODEs, stiff IVP, sparse Jacobian (comprehensive)		D02NJF
...finite interval, weight function with end-point singularities of algebraico-logarithmic type		D01APF
Allocates observations to groups according to selected rules...		G03DCF
<i>LU</i> factorization of real almost block diagonal matrix		F01LHF
Solution of real almost block diagonal simultaneous linear equations (coefficient...		F04LHF
Multivariate time series, cross amplitude spectrum, squared coherency, bounds, univariate and...		G13CEF
Performs principal component analysis		G03AAF
Performs canonical variate analysis		G03ACF
Performs canonical correlation analysis		G03ADF
...within-group covariance matrices and matrices for discriminant analysis		G03DAF
Hierarchical cluster analysis		G03ECF
<i>K</i> -means cluster analysis		G03EFF
Performs principal co-ordinate analysis , classical metric scaling		G03FAF

...maximum likelihood estimates of the parameters of a factor	analysis model, factor loadings, communalities and...	G03CAF
Returns parameter estimates for the conditional	analysis of stratified data	G11CAF
	Analysis of variance, complete factorial design, treatment...	G04CAF
	Analysis of variance, general row and column design, treatment...	G04BCF
Two-way	analysis of variance, hierarchical classification, subgroups...	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
Two-way contingency table	analysis , with χ^2 /Fisher's exact test	G01AFF
	Padé-approximants	E02RAF
	Approximation	E02
	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...	E02GBF
	Approximation of special functions	S
	arccos x	S09ABF
	arccosh x	S11ACF
	arcsin x	S09AAF
	arcsinh x	S11ABF
	arctanh x	S11AAF
Univariate time series, preliminary estimation, seasonal	ARIMA model	G13ADF
...time series, state set and forecasts, from fully specified seasonal	ARIMA model	G13AJF
Multivariate time series, filtering (pre-whitening) by an	ARIMA model	G13BAF
Univariate time series, estimation, seasonal	ARIMA model (comprehensive)	G13AEF
Univariate time series, estimation, seasonal	ARIMA model (easy-to-use)	G13AFF
Set up reference vector for univariate	ARMA time series model	G05EGF
Generate next term from reference vector for	ARMA time series model	G05WEF
	ODEs , IVP, error assessment diagnostics for D02PCF and D02PDF	D02PZF
Univariate time series, sample	autocorrelation function	G13ABF
Univariate time series, partial autocorrelations from	autocorrelations	G13ACF
Multivariate time series, multiple squared partial	autocorrelations	G13DBF
Univariate time series, partial	autocorrelations from autocorrelations	G13ACF
Least-squares cubic spline curve fit,	automatic knot placement	E02BEF
Least-squares surface fit by bicubic splines with	automatic knot placement, data on rectangular grid	E02DCF
Least-squares surface fit by bicubic splines with	automatic knot placement, scattered data	E02DDF
Multivariate time series, partial	autoregression matrices	G13DPF
Calculates the zeros of a vector	autoregressive (or moving average) operator	G13DXF
Moving	average See ARMA	
Calculates the zeros of a vector autoregressive (or moving	average) operator	G13DXF
	Balance complex general matrix	F08NVF
	Balance real general matrix	F08NHF
Transform eigenvectors of real	balanced matrix to those of original matrix supplied to F08NHF	F08NJF
Transform eigenvectors of complex	balanced matrix to those of original matrix supplied to F08NVF	F08NWF
$ULDL^T U^T$ factorization of real symmetric positive-definite	band matrix	F01BUF
Matrix-vector product, real rectangular	band matrix	F06PBF
Matrix-vector product, real symmetric	band matrix	F06PDF
Matrix-vector product, real triangular	band matrix	F06PGF
System of equations, real triangular	band matrix	F06PKF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, real	band matrix	F06RBF
...Frobenius norm, largest absolute element, real symmetric	band matrix	F06REF
...Frobenius norm, largest absolute element, real triangular	band matrix	F06RLF
Matrix-vector product, complex rectangular	band matrix	F06SBF
Matrix-vector product, complex Hermitian	band matrix	F06SDF
Matrix-vector product, complex triangular	band matrix	F06SGF
System of equations, complex triangular	band matrix	F06SKF
...Frobenius norm, largest absolute element, complex	band matrix	F06UBF
...Frobenius norm, largest absolute element, complex Hermitian	band matrix	F06UEF
...Frobenius norm, largest absolute element, complex symmetric	band matrix	F06UHF
...Frobenius norm, largest absolute element, complex triangular	band matrix	F06ULF
LU factorization of real m by n	band matrix	F07BDF
LU factorization of complex m by n	band matrix	F07BRF
Cholesky factorization of real symmetric positive-definite	band matrix	F07HDF
Cholesky factorization of complex Hermitian positive-definite	band matrix	F07HRF
...Cholesky factorization of real symmetric positive-definite	band matrix A	F08UHF
...Cholesky factorization of complex Hermitian positive-definite	band matrix A	F08UTF
Determinant of real symmetric positive-definite	band matrix (Black Box)	F03ACF
Estimate condition number of real	band matrix, matrix already factorized by F07BDF	F07BGF
Estimate condition number of complex	band matrix, matrix already factorized by F07BRF	F07BUF
Estimate condition number of real symmetric positive-definite	band matrix, matrix already factorized by F07HDF	F07HGF
Estimate condition number of complex Hermitian positive-definite	band matrix, matrix already factorized by F07HRF	F07HUF
Unitary reduction of complex Hermitian	band matrix to real symmetric tridiagonal form	F08HSF
Orthogonal reduction of real symmetric	band matrix to symmetric tridiagonal form	F08HEF
Reduction of real rectangular	band matrix to upper bidiagonal form	F08LEF
Reduction of complex rectangular	band matrix to upper bidiagonal form	F08LSF
All eigenvalues and optionally all eigenvectors of real symmetric	band matrix, using divide and conquer	F08HCF
...and optionally all eigenvectors of complex Hermitian	band matrix, using divide and conquer	F08HQF
Refined solution with error bounds of real	band system of linear equations, multiple right-hand sides	F07BHF
Refined solution with error bounds of complex	band system of linear equations, multiple right-hand sides	F07BVF
...solution with error bounds of real symmetric positive-definite	band system of linear equations, multiple right-hand sides	F07HHF
...solution with error bounds of complex Hermitian positive-definite	band system of linear equations, multiple right-hand sides	F07HVF
Solution of real	band system of linear equations, multiple right-hand sides....	F07BEF
Solution of complex	band system of linear equations, multiple right-hand sides....	F07BSF
Solution of real symmetric positive-definite	band system of linear equations, multiple right-hand sides....	F07HEF
Solution of complex Hermitian positive-definite	band system of linear equations, multiple right-hand sides....	F07HSF
Estimate condition number of real	band triangular matrix	F07VGF
Estimate condition number of complex	band triangular matrix	F07VUF
Solution of real	band triangular system of linear equations, multiple right-hand sides	F07VEF
Error bounds for solution of real	band triangular system of linear equations, multiple right-hand sides	F07VHF
Solution of complex	band triangular system of linear equations, multiple right-hand sides	F07VSF
Error bounds for solution of complex	band triangular system of linear equations, multiple right-hand sides	F07VVF
Convert real matrix between packed	banded and rectangular storage schemes	F01ZCF
Convert complex matrix between packed	banded and rectangular storage schemes	F01ZDF
Reduction to standard form, generalized real symmetric-definite	banded eigenproblem	F01BVF
Eigenvector of generalized real	banded eigenproblem by inverse iteration	F02SDF
Reduction of real symmetric-definite	banded generalized eigenproblem $Ax = \lambda Bx$ to standard form...	F08UEF
Reduction of complex Hermitian-definite	banded generalized eigenproblem $Ax = \lambda Bx$ to standard form...	F08USF
Explicit ODEs, stiff IVP,	banded Jacobian (comprehensive)	D02NCF
Implicit/algebraic ODEs, stiff IVP,	banded Jacobian (comprehensive)	D02NHF
ODEs, IVP, for use with D02M-N routines,	banded Jacobian, linear algebra set-up	D02NTF
Print real packed	banded matrix (comprehensive)	X04CFF

Print complex packed	banded matrix (comprehensive)	X04DFE
Print real packed	banded matrix (easy-to-use)	X04CEF
Print complex packed	banded matrix (easy-to-use)	X04DEF
All eigenvalues of generalized	banded real symmetric-definite eigenproblem (Black Box)	F02FHF
Solution of real symmetric positive-definite	banded simultaneous linear equations with multiple right-hand sides...	F04CAF
...to standard form $Cy = \lambda y$, such that C has the same	bandwidth as A	F08UEF
...to standard form $Cy = \lambda y$, such that C has the same	bandwidth as A	F08USF
LDL^T factorization of real symmetric positive-definite variable-	bandwidth matrix	F01MCF
Solution of real symmetric positive-definite variable-	bandwidth simultaneous linear equations (coefficient matrix already...	F04MCF
...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
Real inner product added to initial value,	basic/additional precision	X03AAF
Complex inner product added to initial value,	basic/additional precision	X03ABF
ODEs, IVP,	BDF method , set-up for D02M–N routines	D02NVF
ODEs, stiff IVP,	BDF method , until function of solution is zero,...	D02EJF
Modified	Bessel function $e^{- x } I_0(x)$	S18CEF
Modified	Bessel function $e^{- x } I_1(x)$	S18CFE
Modified	Bessel function $e^x K_0(x)$	S18CCF
Modified	Bessel function $e^x K_1(x)$	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
Modified	Bessel function $K_1(x)$	S18ADF
	Bessel function $Y_0(x)$	S17ACF
	Bessel function $Y_1(x)$	S17ADF
Modified	Bessel functions $I_{\nu+a}(z)$, real $a \geq 0$, complex z , $\nu = 0, 1, 2, \dots$	S18DEF
	Bessel functions $J_{\nu+a}(z)$, real $a \geq 0$, complex z , $\nu = 0, 1, 2, \dots$	S17DEF
Modified	Bessel functions $K_{\nu+a}(z)$, real $a \geq 0$, complex z , $\nu = 0, 1, 2, \dots$	S18DCF
	Bessel functions $Y_{\nu+a}(z)$, real $a \geq 0$, complex z , $\nu = 0, 1, 2, \dots$	S17DCF
...lower tail probabilities and probability density function for the	beta distribution	G01EEF
Computes deviates for the	beta distribution	G01FEF
Computes probabilities for the non-central	beta distribution	G01GEF
Generates a vector of pseudo-random numbers from a	beta distribution	G05FEF
Airy function	$\text{Bi}(x)$	S17AHF
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
...nonsymmetric linear systems, preconditioned RGMRES, CGS or	Bi-CGSTAB	F11BBF
...real sparse nonsymmetric linear system, RGMRES, CGS or	Bi-CGSTAB method, Jacobi or SSOR preconditioner (Black Box)	F11DEF
...real sparse nonsymmetric linear system, RGMRES, CGS or	Bi-CGSTAB method, preconditioner computed by F11DAF...	F11DCF
...nonsymmetric linear systems, preconditioned RGMRES, CGS,	Bi-CGSTAB or TFQMR method	F11BEF
...non-Hermitian linear systems, preconditioned RGMRES, CGS,	Bi-CGSTAB or TFQMR method	F11BSF
...complex sparse non-Hermitian linear system, RGMRES, CGS,	Bi-CGSTAB or TFQMR method, Jacobi or SSOR preconditioner...	F11DSF
...complex sparse non-Hermitian linear system, RGMRES, CGS,	Bi-CGSTAB or TFQMR method, preconditioner computed by...	F11DQF
Evaluation of fitted	bicubic spline at a mesh of points	E02DFE
Evaluation of fitted	bicubic spline at a vector of points	E02DEF
Interpolating functions, fitting	bicubic spline , data on rectangular grid	E01DAF
Least-squares surface fit,	bicubic splines	E02DAF
Sort two-dimensional 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 , scattered data	E02DDF
Orthogonal reduction of real general rectangular matrix to	bidagonal form	F08KEF
Unitary reduction of complex general rectangular matrix to	bidagonal form	F08KSF
Reduction of real rectangular band matrix to upper	bidagonal form	F08LEF
Reduction of complex rectangular band matrix to upper	bidagonal form	F08LSF
Generate orthogonal transformation matrices from reduction to	bidagonal form determined by F08KEF	F08KFF
Apply orthogonal transformations from reduction to	bidagonal form determined by F08KEF	F08KGF
Generate unitary transformation matrices from reduction to	bidagonal form determined by F08KSF	F08KTF
Apply unitary transformations from reduction to	bidagonal form determined by F08KSF	F08KUF
SVD of real	bidagonal matrix reduced from complex general matrix	F08MSF
SVD of real	bidagonal matrix reduced from real general matrix	F08MEF
Performs the Cochran Q test on cross-classified	binary data	G08ALF
Contingency table, latent variable model for	binary data	G11SAF
...function, Bus and Dekker algorithm, from given starting value,	binary search for interval	C05AGF
	Binary search for interval containing zero of continuous function...	C05AVF
Set up reference vector for generating pseudo-random integers,	binomial distribution	G05EDF
...reference vector for generating pseudo-random integers, negative	binomial distribution	G05EEF
Computes confidence interval for the parameter of a	binomial distribution	G07AAF
	Binomial distribution function	G01BJF
Fits a generalized linear model with	binomial errors	G02GBF
Selected eigenvalues of real symmetric tridiagonal matrix by	bisection	F08JJF
...amplitude spectrum, squared coherency, bounds, univariate and	bivariate (cross) spectra	G13CEF
Multivariate time series, gain, phase, bounds, univariate and	bivariate (cross) spectra	G13CCF
Computes probability for the	bivariate Normal distribution	G01HAF
	BLAS	F06
ODEs, IVP,	Blend method , set-up for D02M–N routines	D02NVF
LU factorization of real almost	block diagonal matrix	F01LHF
Solution of real almost	block diagonal simultaneous linear equations (coefficient matrix...)	F04LHF
Analysis of variance, randomized	block or completely randomized design , treatment means and...	G04BBF
Pseudo-random logical (boolean) value		G05DZF
n th-order linear ODEs,	boundary value problem , collocation and least-squares	D02TGF
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 D02TKF	D02TXF
ODEs, general nonlinear	boundary value problem , diagnostics for D02TKF	D02TZF
ODEs, general nonlinear	boundary value problem , finite difference technique with deferred...	D02RAF
ODEs,	boundary value problem , finite difference technique with deferred...	D02GBF
ODEs,	boundary value problem , finite difference technique with deferred...	D02GAF
ODEs, general nonlinear	boundary value problem , interpolation for D02TKF	D02TYF
ODEs, general nonlinear	boundary value problem , set-up for D02TKF	D02TVF
ODEs,	boundary value problem , shooting and matching, boundary values...	D02HAF
ODEs,	boundary value problem , shooting and matching, general parameters...	D02HBF
ODEs,	boundary value problem , shooting and matching technique,...	D02AGF

ODEs, boundary value problem, shooting and matching,	ODEs, boundary value problem, shooting and matching technique,...	D02SAF
	boundary values to be determined	D02HAF
	Error bounds for solution of complex band triangular system of linear...	F07VVF
	Error bounds for solution of complex triangular system of linear...	F07TVF
	Error bounds for solution of complex triangular system of linear...	F07UVF
	Error bounds for solution of real band triangular system of linear...	F07VHF
	Error bounds for solution of real triangular system of linear...	F07THE
	Error bounds for solution of real triangular system of linear...	F07UHF
	Computes bounds for the significance of a Durbin-Watson statistic	G01EPF
Multivariate time series, noise spectrum,	bounds , impulse response function and its standard error	G13CGF
Refined solution with error	bounds of complex band system of linear equations,...	F07BVF
Refined solution with error	bounds of complex Hermitian indefinite system of linear...	F07MVF
Refined solution with error	bounds of complex Hermitian indefinite system of linear...	F07PVF
Refined solution with error	bounds of complex Hermitian positive-definite band system...	F07HVF
Refined solution with error	bounds of complex Hermitian positive-definite system of linear...	F07FVF
Refined solution with error	bounds of complex Hermitian positive-definite system of linear...	F07GVF
Refined solution with error	bounds of complex symmetric system of linear equations,...	F07NVF
Refined solution with error	bounds of complex symmetric system of linear equations,...	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 linear...	F07MHF
Refined solution with error	bounds of real symmetric indefinite system of linear...	F07PHF
Refined solution with error	bounds of real symmetric positive-definite band system...	F07HHF
Refined solution with error	bounds of real symmetric positive-definite system of linear...	F07FHF
Refined solution with error	bounds of real symmetric positive-definite system of linear...	F07GHF
Refined solution with error	bounds of real system of linear equations,...	F07AHF
...time series, cross amplitude spectrum, squared coherency,	bounds , univariate and bivariate (cross) spectra	G13CEF
Multivariate time series, gain, phase,	bounds , univariate and bivariate (cross) spectra	G13CFF
...function of several variables, modified Newton algorithm, simple	bounds , using first and second derivatives (comprehensive)	E04LBF
...function of several variables, modified Newton algorithm, simple	bounds , using first and second derivatives (easy-to-use)	E04LVF
...function of several variables, modified Newton algorithm, simple	bounds , using first derivatives (comprehensive)	E04KDF
...function of several variables, quasi-Newton algorithm, simple	bounds , using first derivatives (easy-to-use)	E04KYF
...function of several variables, modified Newton algorithm, simple	bounds , using first derivatives (easy-to-use)	E04KZF
...function of several variables, quasi-Newton algorithm, simple	bounds , using function values only (easy-to-use)	E04JYF
	Constructs a box and whisker plot	G01ASF
General system of first-order PDEs, method of lines, Keller	box discretisation, one space variable	D03PEF
...of first-order PDEs, coupled DAEs, method of lines, Keller	box discretisation, one space variable	D03PKF
...of first-order PDEs, coupled DAEs, method of lines, Keller	box discretisation, remeshing, one space variable	D03PRF
...finite interval, allowing for singularities at user-specified	break-points	D01ALF
...finite/infinite range, eigenvalue only, user-specified	break-points	D02KDF
...finite/infinite 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 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 matrix...	F07MDF
	Bunch-Kaufman factorization of real symmetric indefinite matrix,...	F07PDF
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
Multi-dimensional quadrature over hyper-rectangle, Monte	Carlo method	D01GBF
Elliptic PDE, Helmholtz equation, three-dimensional	Cartesian co-ordinates	D03FAF
	Pseudo-random real numbers, Cauchy distribution	G05DFF
...quadrature, adaptive, finite interval, weight function $1/(x - c)$,	Cauchy principal value (Hilbert transform)	D01AQF
...for parameters 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 χ^2 distribution	G01GCF
Computes lower tail probability for a linear combination of (central) χ^2 variables		G01JDF
Computes probabilities for the non- central F -distribution		G01GDF
Computes probabilities for the non- central Student's t -distribution		G01GBF
...sparse nonsymmetric linear systems, preconditioned RGMRES,	CGS , Bi-CGSTAB or TFQMR method	F11BBF
...sparse non-Hermitian linear systems, preconditioned RGMRES,	CGS , Bi-CGSTAB or TFQMR method	F11BSF
Solution of complex sparse non-Hermitian linear system, RGMRES,	CGS , Bi-CGSTAB or TFQMR method, Jacobi or SSOR...	F11DSF
Solution of complex sparse non-Hermitian linear system, RGMRES,	CGS , Bi-CGSTAB or TFQMR method, preconditioner...	F11DQF
...sparse nonsymmetric linear systems, preconditioned RGMRES,	CGS or Bi-CGSTAB	F11BBF
Solution of real sparse nonsymmetric linear system, RGMRES,	CGS or Bi-CGSTAB method, Jacobi or SSOR preconditioner...	F11DEF
Solution of real sparse nonsymmetric 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
General system 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 first derivatives	C05ZAF
	Check user's routine for calculating first derivatives of function	E04HCF
	Check user's routine for calculating Hessian of a sum of squares	E04YBF
	Check user's routine for calculating Jacobian of first derivatives	E04YAF
	Check user's routine for calculating second derivatives of function	E04HDF
	Check user's routines for calculating first derivatives of function...	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
Complex sparse Hermitian matrix, incomplete	Cholesky factorization	F11JNF
	Cholesky factorization of complex Hermitian positive-definite band...	F07HRF
Computes a split	Cholesky factorization of complex Hermitian positive-definite band...	F08UTF
	Cholesky factorization of complex Hermitian positive-definite...	F07FRF
	Cholesky factorization of complex Hermitian positive-definite...	F07GRF
	Cholesky factorization of real symmetric positive-definite band...	F07HDF
Computes a split	Cholesky factorization of real symmetric positive-definite band...	F08UUF
	Cholesky factorization of real symmetric positive-definite matrix	F07FDF
	Cholesky factorization of real symmetric positive-definite matrix,...	F07GDF
	Circular convolution or correlation of two complex vectors	C06PKF
	Circular convolution or correlation of two real vectors, extra...	C06KFF
	Circular convolution or correlation of two real vectors, no extra...	C06EKF
Performs principal co-ordinate 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
Computes 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
	Close file associated with given unit number	X04ADF
	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 treatment...	G02BEF
	Correlation-like coefficients (about zero), all variables, no missing values	G02BDF
	Correlation-like coefficients (about zero), all variables, pairwise treatment...	G02BFF
	Correlation-like coefficients (about zero), subset of variables, casewise...	G02BLF
	Correlation-like coefficients (about zero), subset of variables, no missing values	G02BKF
	Correlation-like coefficients (about zero), subset of variables, pairwise treatment...	G02BMF
Pearson product-moment correlation	coefficients , all variables, casewise treatment...	G02BBF
Pearson product-moment correlation	coefficients , all variables, no missing values	G02BAF
Pearson product-moment correlation	coefficients , all variables, pairwise treatment...	G02BCF
Kendall/Spearman non-parametric rank correlation	coefficients , casewise treatment of missing values, overwriting...	G02BPF
Kendall/Spearman non-parametric rank correlation	coefficients , casewise treatment of missing values, preserving...	G02BRF
Computes factor score	coefficients (for use after G03CAF)	G03CCF
Korobov optimal	coefficients for use in D01GCF or D01GDF, when number of...	D01GYF
Korobov optimal	coefficients for use in D01GCF or D01GDF, when number of...	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 of missing values	G02BHF
Pearson product-moment correlation	coefficients , subset of variables, no missing values	G02BGF
Pearson product-moment correlation	coefficients , subset of variables, pairwise treatment of missing values	G02BJF
Multiple linear regression, from correlation	coefficients , with constant term	G02CGF
Multiple linear regression, from correlation-like	coefficients , without constant term	G02CHF
Multivariate time series, cross amplitude spectrum, squared	coherency , bounds, univariate and bivariate (cross) spectra	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 linear equation	D02JAF
ODEs, boundary value problem,	collocation and least-squares, system of first-order linear equations	D02JBF
General system of parabolic PDEs, method of lines, Chebyshev C^0	collocation , one space variable	D03PDF
...parabolic 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 of real general rectangular matrix with	column pivoting	F08BEF
QR factorization of complex general rectangular matrix with	column pivoting	F08BSF
Print IP or LP solutions with user specified names for rows and	columns	H02BVF
Permute rows or	columns , complex rectangular matrix, permutations represented by...	F06VKF
Permute rows or	columns , complex rectangular matrix, permutations represented by...	F06VJF
Rank	columns of a matrix, integer numbers	M01DKF
Rank	columns of a matrix, real numbers	M01DJF
Permute rows or	columns , real rectangular matrix, permutations represented by...	F06QKF
Permute rows or	columns , real rectangular matrix, permutations represented by...	F06QJF
...of the parameters of a factor analysis model, factor loadings,	communalities and residual correlations	G03CAF
	Compare two character strings representing date and time	X05ACF
	Complement of cumulative normal distribution function $Q(x)$	S15ACF
Scaled complex	complement of error function, $\exp(-z^2)\text{erfc}(-iz)$	S15DDF
	Complement of error function $\text{erfc}(x)$	S15ADF
Analysis of variance,	complete factorial design, treatment means and standard errors	G04CAF
QR factorization of	complex general rectangular matrix with column pivoting	F08BSF
Solution of	complex linear system involving incomplete Cholesky...	F11JPF
Solution of	complex linear system involving incomplete LU ...	F11DPF
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 matrix, matrix...	F07MUF
Estimate	condition number of complex Hermitian indefinite matrix,...	F07PUF
Estimate	condition number of complex Hermitian positive-definite band...	F07HUF
Estimate	condition number of complex Hermitian positive-definite matrix,...	F07FUF
Estimate	condition number of complex Hermitian positive-definite matrix,...	F07GUF
Estimate	condition number of complex matrix, matrix already...	F07AUF
Estimate	condition number of complex symmetric matrix, matrix already...	F07NUF
Estimate	condition number of complex symmetric matrix, matrix already...	F07QUF
Estimate	condition number of complex triangular matrix	F07TUF
Estimate	condition number of complex triangular matrix, packed storage	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 factorized...	F07AGF
Estimate	condition number of real symmetric indefinite matrix, matrix...	F07MGF

Estimate	condition number of real symmetric indefinite matrix, matrix...	F07PGF
Estimate	condition number of real symmetric positive-definite band matrix,...	F07HGF
Estimate	condition number of real symmetric positive-definite matrix,...	F07FGF
Estimate	condition number of real symmetric positive-definite matrix,...	F07GGF
Estimate	condition number of real triangular matrix	F07TGF
Estimate	condition number of real triangular matrix, packed storage	F07UGF
Returns parameter estimates for the	conditional analysis of stratified data	G11CAF
Unconstrained minimum, pre-	conditioned conjugate gradient algorithm, function of several...	E04DGF
...for a difference in means between two Normal populations,	confidence interval	G07CAF
Computes	confidence interval for the parameter of a binomial distribution	G07AAF
Computes	confidence interval for the parameter of a Poisson distribution	G07ABF
Computes	confidence intervals for differences between means computed...	G04DBF
Robust	confidence intervals, one-sample	G07EAF
Robust	confidence intervals, two-sample	G07EBF
Unconstrained minimum, pre-	conditioned conjugate gradient algorithm, function of several variables using...	E04DGF
Real sparse symmetric linear systems, pre-	conditioned conjugate gradient or Lanczos	F11GBF
Real sparse symmetric linear systems, pre-	conditioned conjugate gradient or Lanczos, threadsafe	F11GEF
Solution of real sparse symmetric linear system,	conjugate gradient/Lanczos method, Jacobi or SSOR...	F11JEF
Solution of complex sparse Hermitian linear system,	conjugate gradient/Lanczos method, Jacobi or SSOR...	F11JSF
Solution of real sparse symmetric linear system,	conjugate gradient/Lanczos method, preconditioner computed...	F11JCF
Solution of complex sparse Hermitian linear system,	conjugate gradient/Lanczos method, preconditioner computed...	F11JQF
Complex	conjugate of complex sequence	C06GCF
Complex	conjugate of Hermitian sequence	C06GBF
Complex	conjugate of multiple Hermitian sequences	C06GQF
...equation $AX + XB = C$, A and B are upper triangular or	conjugate-transposes	F08QVF
Dot product of two complex vectors,	conjugated	F06GBF
Dot product of two complex sparse vector,	conjugated	F06GSF
Rank-1 update, complex rectangular matrix,	conjugated vector	F06SNF
General system of convection-diffusion PDEs with source terms in	conservative form, coupled DAEs, method of lines, upwind scheme...	D03PLF
General system of convection-diffusion PDEs with source terms in	conservative form, coupled DAEs, method of lines, upwind scheme...	D03PSF
Roe's approximate Riemann solver for Euler equations in	conservative form, for use with D03PFF, D03PLF and D03PSF	D03PUF
Osher's approximate Riemann solver for Euler equations in	conservative form, for use with D03PFF, D03PLF and D03PSF	D03PVF
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
General system of convection-diffusion PDEs with source terms in	conservative form, method of lines, upwind scheme using...	D03PFF
Provides the mathematical	constant γ (Euler's Constant)	X01ABF
Provides the mathematical	constant π	X01AAF
Machine	Constants	X02
Mathematical	Constants	X01
Least-squares polynomial fit, values and derivatives may be	constrained , arbitrary data points	E02AGF
Equality	constrained complex linear least-squares problem	F04KMF
Convex QP problem or linearly-	constrained linear least-squares problem (dense)	E04NCF
Equality	constrained real linear least-squares problem	F04JMF
...by general linear function subject to linear inequality	constraints	E02GBF
...user's routines for calculating first derivatives of function and	constraints	E04ZCF
...of parameters 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 values and...	E04UNF
...function of several variables, sequential QP method, nonlinear	constraints , using function values and optionally first derivatives...	E04UCF
...function of several variables, sequential QP method, nonlinear	constraints , using function values and optionally first derivatives...	E04UFF
χ^2 statistics for two-way	contingency table	G11AAF
Two-way	contingency table analysis, with χ^2 /Fisher's exact test	G01AFF
	Contingency table, latent variable model for binary data	G11SAF
ODEs, IVP, set-up for	continuation calls to integrator, for use with D02M-N routines	D02NZF
...problem, 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...	C05AXF
Performs the χ^2 goodness of fit test, for standard	continuous distributions	G08CGF
Zero of	continuous function, Bus and Dekker algorithm, from given...	C05AGF
Zero in given interval of	continuous function by Bus and Dekker algorithm (reverse...	C05AZF
Zero of	continuous function by continuation method, from given starting value...	C05AXF
Zero of	continuous function, continuation method, from a given starting value	C05AJF
Zero of	continuous function in given interval, Bus and Dekker algorithm	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 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
	Convert array of integers representing date and time to character...	X05ABF
	Convert complex matrix between packed banded and rectangular...	F01ZDF
	Convert complex matrix between packed triangular and square...	F01ZBF
	Convert Hermitian sequences to general complex sequences	C06GSF
	Convert real matrix between packed banded and rectangular...	F01ZCF
	Convert real matrix between packed triangular and square...	F01ZAF
	Convex QP problem or linearly-constrained linear least-squares...	E04NCF
Nonlinear Volterra	convolution equation, second kind	D05BAF
Circular	convolution or correlation of two complex vectors	C06PKF
Circular	convolution or correlation of two real vectors, extra workspace...	C06FKF
Circular	convolution or correlation of two real vectors, no extra workspace	C06KEF
Nonlinear	convolution Volterra-Abel equation, first kind, weakly singular	D05BEF
Nonlinear	convolution Volterra-Abel equation, second kind, weakly singular	D05BDF
Matrix	copy , complex rectangular or trapezoidal matrix	F06TFF
Copy	copy complex vector	F06GFF
Copy	copy integer vector	F06DFF
Matrix	copy , real rectangular or trapezoidal matrix	F06QFF
Copy	copy real vector	F06EFF
Copy	copy real vector to complex vector	F06KFF
...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
Performs canonical	correlation analysis	G03ADF
Computes (optionally weighted)	correlation and covariance matrices	G02BXF
Pearson product-moment	correlation coefficients, all variables, casewise treatment of missing...	G02BBF

Pearson product-moment	correlation coefficients, all variables, no missing values	G02BAF
Pearson product-moment	correlation coefficients, all variables, pairwise treatment of missing...	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
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 of...	G02BHF
Pearson product-moment	correlation coefficients, subset of variables, no missing values	G02BGF
Pearson product-moment	correlation coefficients, subset of variables, pairwise treatment of...	G02BJF
Multiple linear regression, from	correlation coefficients, with constant term	G02CGF
Multivariate time series, sample partial lag	correlation matrices, χ^2 statistics and significance levels	G13DNF
Computes random	correlation matrix	G05GBF
Computes a	correlation matrix from a sum of squares matrix	G02BWF
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 derivatives	G02HLF
Circular convolution or	correlation of two complex vectors	C06PKF
Circular convolution or	correlation of two real vectors, extra workspace for greater speed	C06KFF
Circular convolution or	correlation of two real vectors, no extra workspace	C06KFF
Multivariate time series, sample cross-	correlation or cross-covariance matrices	G13DMF
	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,...	G02BKF
	Correlation-like coefficients (about zero), subset of variables,...	G02BMF
Multiple linear regression, from	correlation-like coefficients, without constant term	G02CHF
...analysis model, factor loadings, communalities and residual	correlations	G03CAF
Multivariate time series, cross-	correlations	G13BCF
Computes partial correlation/variance-covariance matrix from	correlation/variance-covariance matrix computed by G02BXF	G02BYF
The largest permissible argument for sin and	cos	X02AHF
	cosh x	S10ACF
Generate complex plane rotation, storing tangent, real	cosine	F06CAF
Recover cosine and sine from given complex tangent, real	cosine	F06CCF
...sequence of plane rotations, complex rectangular matrix, real	cosine and complex sine	F06TXF
...sequence of plane rotations, complex rectangular matrix, complex	cosine and real sine	F06TYF
...sequence 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
	Cosine integral $Ci(x)$	S13ACF
Compute	cosine of angle between two real vectors	F06FAF
Discrete	cosine transform	C06HBF
Discrete quarter-wave	cosine transform	C06HDF
Discrete	cosine transform (easy-to-use)	C06RBF
Discrete quarter-wave	cosine transform (easy-to-use)	C06RDF
General system of parabolic PDEs,	coupled DAEs, method of lines, Chebyshev C^0 collocation,...	D03PJF
General system of parabolic PDEs,	coupled DAEs, method of lines, finite differences, one space variable	D03PHF
General system of parabolic PDEs,	coupled DAEs, method of lines, finite differences, remeshing,...	D03PPF
General system of first-order PDEs,	coupled DAEs, method of lines, Keller box discretisation,...	D03PKF
General system of first-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 flux...	D03PLF
...PDEs with source terms in conservative form,	coupled DAEs, method of lines, upwind scheme using numerical flux...	D03PSF
...one iteration of Kalman filter, time-varying, square root	covariance filter	G13EAF
...one iteration of Kalman filter, time-invariant, square root	covariance filter	G13EBF
Computes (optionally weighted) correlation and	covariance matrices	G02BXF
Multivariate time series, sample cross-correlation or cross-	covariance matrices	G13DMF
Computes test statistic for equality of within-group	covariance matrices and matrices for discriminant analysis	G03DAF
...Mahalanobis squared distances for group or pooled variance-	covariance matrices (for use after G03DAF)	G03DBF
Normal scores, approximate variance-	covariance matrix	G01DCF
...correlation/variance-covariance 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, m real...	F04YAF
	Covariance matrix for nonlinear least-squares problem...	E04YCF
Computes partial correlation/variance-	covariance matrix from correlation/variance-covariance matrix...	G02BYF
Creates the risk sets associated with the	Cox proportional hazards model for fixed covariates	G12ZAF
Fits	Cox's proportional hazard model	G12BAF
Return the	CPU time	X05BAF
Multivariate time series,	cross amplitude spectrum, squared coherency, bounds, univariate...	G13CEF
...squared coherency, bounds, univariate and bivariate	(cross) spectra	G13CEF
...time series, gain, phase, bounds, univariate and bivariate	(cross) spectra	G13CFE
Multivariate time series, smoothed sample	cross spectrum using rectangular, Bartlett, Tukey or Parzen lag...	G13CCF
Multivariate time series, smoothed sample	cross spectrum using spectral smoothing by the trapezium...	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
Interpolating 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 variables	G01NAF
Set up reference vector from supplied	cumulative distribution function or probability distribution function	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
Minimax	curve fit by polynomials	E02ACF
Least-squares	curve fit, by polynomials, arbitrary data points	E02ADF

General system of parabolic PDEs, coupled	DAEs, method of lines, Chebyshev C^0 collocation, one space variable	D03PJF
General system of parabolic PDEs, coupled	DAEs, method of lines, finite differences, one space variable	D03PHF
General system of parabolic PDEs, coupled	DAEs, method of lines, finite differences, remeshing, one space variable	D03PPF
General system of first-order PDEs, coupled	DAEs, method of lines, Keller box discretisation, one space variable	D03PKF
General system of first-order PDEs, coupled	DAEs, method of lines, Keller box discretisation, remeshing,...	D03PRF
...PDEs with source terms in conservative form, coupled	DAEs, method of lines, upwind scheme using numerical flux...	D03PLF
...PDEs with source terms in conservative form, coupled	DAEs, method of lines, upwind scheme using numerical flux...	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
Compare two character strings representing	date and time	X05ACF
	Return date and time as an array of integers	X05AAF
Convert array of integers representing	date and time to character string	X05ABF
	Mood's and David's tests on two samples of unequal size	G08BAF
	Dawson's integral	S15AFF
The maximum number of	decimal digits that can be represented	X02BEF
	Decompose a permutation into cycles	M01ZCF
...boundary value problem, finite difference technique with	deferred correction, continuation facility	D02RAF
ODEs, boundary value problem, finite difference technique with	deferred correction, general linear problem	D02GBF
ODEs, boundary value problem, finite difference technique with	deferred correction, simple nonlinear problem	D02GAF
$ULDL^T U^T$ factorization of real symmetric positive-definite	band matrix	F01BUF
Cholesky factorization of real symmetric positive-definite	band matrix	F07HDF
Cholesky factorization of complex Hermitian positive-definite	band matrix	F07HRF
Determinant of real symmetric positive-definite	band matrix (Black Box)	F03ACF
Estimate condition number of real symmetric positive-definite	band matrix, matrix already factorized by F07HDF	F07HGF
Estimate condition number of complex Hermitian positive-definite	band matrix, matrix already factorized by F07HRF	F07HUF
Refined solution with error bounds of real symmetric positive-definite	band system of linear equations, multiple right-hand sides	F07HHF
Refined solution with error bounds of complex Hermitian positive-definite	band system of linear equations, multiple right-hand sides	F07HVF
Solution of real symmetric positive-definite	band system of linear equations, multiple right-hand sides,...	F07HEF
Solution of complex Hermitian positive-definite	band system of linear equations, multiple right-hand sides,...	F07HSF
Reduction to standard form, generalized real symmetric-definite	banded eigenproblem	F01BVF
Solution of real symmetric positive-definite	banded simultaneous linear equations with multiple...	F04ACF
All eigenvalues of generalized banded real symmetric-definite	eigenproblem (Black Box)	F02PHF
Reduction to standard form of complex Hermitian-definite	generalized eigenproblem $Ax = \lambda Bx$, $ABx = \lambda x$ or...	F08SSF
Reduction to standard form of real symmetric-definite	generalized eigenproblem $Ax = \lambda Bx$, $ABx = \lambda x$ or...	F08SEF
Reduction to standard form of complex Hermitian-definite	generalized eigenproblem $Ax = \lambda Bx$, $ABx = \lambda x$ or...	F08TSF
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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
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LL^T factorization and determinant of real symmetric positive-definite	matrix	F03AEF
Cholesky factorization of real symmetric positive-definite	matrix	F07FDF
Cholesky factorization of complex Hermitian positive-definite	matrix	F07FRF
...tridiagonal matrix, reduced from real symmetric positive-definite	matrix	F08JGF
...tridiagonal matrix, reduced from complex Hermitian positive-definite	matrix	F08JUF
Determinant of real symmetric positive-definite	matrix (Black Box)	F03ABF
Estimate condition number of real symmetric positive-definite	matrix, matrix already factorized by F07FDF	F07FCF
Inverse of real symmetric positive-definite	matrix, matrix already factorized by F07FDF	F07JUF
Estimate condition number of complex Hermitian positive-definite	matrix, matrix already factorized by F07FRF	F07FUF
Inverse of 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, packed storage	F07GGF
Inverse of real symmetric positive-definite	matrix, matrix already factorized by F07GDF, packed storage	F07GJF
Estimate condition number of complex Hermitian positive-definite	matrix, matrix already factorized by F07GRF, packed storage	F07GUF
Inverse of complex Hermitian positive-definite	matrix, matrix already factorized by F07GRF, packed storage	F07GWF
Cholesky factorization of real symmetric positive-definite	matrix, packed storage	F07GRF
Cholesky factorization of complex Hermitian positive-definite	matrix, packed storage	F01ABF
Inverse of real symmetric positive-definite	matrix using iterative refinement	F04AGF
Solution of real symmetric positive-definite	simultaneous linear equations (coefficient matrix already...	F04ASF
Solution of real symmetric positive-definite	simultaneous linear equations, one right-hand side...	F04AFF
Solution of real symmetric positive-definite	simultaneous linear equations using iterative refinement...	F04ABF
Solution of real symmetric positive-definite	simultaneous linear equations with multiple right-hand...	F07FHF
Refined solution with error bounds of real symmetric positive-definite	system of linear equations, multiple right-hand sides	F07FVF
Refined solution with error bounds of complex Hermitian positive-definite	system of linear equations, multiple right-hand sides,...	F07FEF
Solution of real symmetric positive-definite	system of linear equations, multiple right-hand sides,...	F07FFF
Solution of complex Hermitian positive-definite	system of linear equations, multiple right-hand sides,...	F07GFF
Solution of real symmetric positive-definite	system of linear equations, multiple right-hand sides,...	F07GFF
Solution of complex Hermitian positive-definite	system of linear equations, multiple right-hand sides,...	F07GFF
Refined solution with error bounds of real symmetric positive-definite	system of linear equations, multiple right-hand sides,...	F07GVF
Refined solution with error bounds of complex Hermitian positive-definite	system of linear equations, multiple right-hand sides,...	F04MEF
...solution of the Yule-Walker equations for real symmetric positive-definite	Toeplitz matrix	F04PEF
Solution of the Yule-Walker equations for real symmetric positive-definite	Toeplitz matrix, one right-hand side	F04MFF
Update solution of real symmetric positive-definite	Toeplitz system	F04FFF
Solution of real symmetric positive-definite	Toeplitz system, one right-hand side	F08JUF
All eigenvalues and eigenvectors of real symmetric positive-definite	tridiagonal matrix, reduced from complex Hermitian...	F08JGF
All eigenvalues and eigenvectors of real symmetric positive-definite	tridiagonal matrix, reduced from real symmetric...	F04FAF
Solution of real symmetric positive-definite	tridiagonal simultaneous linear equations, one right-hand...	F01MCF
LDL^T factorization of real symmetric positive-definite	variable-bandwidth matrix	F04MCF
Solution of real symmetric positive-definite	variable-bandwidth simultaneous linear equations ...	
	Degenerate symmetrised elliptic integral of 1st kind $R_C(x, y)$	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 search for interval	C05AGF
Zero in given interval of continuous function by Bus and Dekker	algorithm (reverse communication)	C05AZF
	Delete a variable from a general linear regression model	G02DFE
	Add/delete an observation to/from a general linear regression model	G02DCF
	Constructs dendrogram (for use after G03ECF)	G03EHF
	Kernel density estimate using Gaussian kernel	G10BAF
Computes upper and lower tail probabilities and probability	density function for the beta distribution	G01EEF
Minimum, function of one variable, using first	derivative	E04BBF
...values, interpolant computed by E01BEF, function and first	derivative of fitted polynomial in Chebyshev series form	E02AHF
Interpolating functions, polynomial interpolant, data may include	derivative, one variable	E01BGF
	derivative values, one variable	E01AEF
Check user's routine for calculating first	derivatives	C05ZAF
Evaluation of fitted cubic spline, function and	derivatives	E02BCF
Check user's routine for calculating Jacobian of first	derivatives	E04YAF
...correlation matrix, user-supplied weight function plus	derivatives	G02HLF
Solution of system of nonlinear equations using first	derivatives (comprehensive)	C05PCF
...algorithm, function of several variables using first	derivatives (comprehensive)	E04DGF

...Gauss-Newton and quasi-Newton algorithm using first	derivatives (comprehensive)	E04GBF
...Gauss-Newton and modified Newton algorithm using first	derivatives (comprehensive)	E04GDF
...Gauss-Newton and modified Newton algorithm, using second	derivatives (comprehensive)	E04HEF
...Newton algorithm, simple bounds, using first	derivatives (comprehensive)	E04KDF
...algorithm, simple bounds, using first and second	derivatives (comprehensive)	E04LBF
...method, using function values and optionally first	derivatives (comprehensive)	E04UNF
Solution of system of nonlinear equations using first	derivatives (easy-to-use)	E05PBF
...Gauss-Newton and quasi-Newton algorithm, using first	derivatives (easy-to-use)	E04GYF
...Gauss-Newton and modified Newton algorithm using first	derivatives (easy-to-use)	E04GZF
...Gauss-Newton and modified Newton algorithm, using second	derivatives (easy-to-use)	E04HYF
...quasi-Newton algorithm, simple bounds, using first	derivatives (easy-to-use)	E04KYF
...Newton algorithm, simple bounds, using first	derivatives (easy-to-use)	E04KZF
...algorithm, simple bounds, using first and second	derivatives (easy-to-use)	E04LYF
...constraints, using function values and optionally first	derivatives (forward communication, comprehensive)	E04UCF
Least-squares polynomial fit, values and	derivatives may be constrained, arbitrary data points	E02AGF
Check user's routine for calculating first	derivatives of function	E04HCF
Check user's routine for calculating second	derivatives of function	E04HDF
Check user's routines for calculating first	derivatives of function and constraints	E04ZCF
Scaled	derivatives of $\psi(x)$	S14ADF
Solution of system of nonlinear equations using first	derivatives (reverse communication)	C05PDF
...constraints, using function values and optionally first	derivatives (reverse communication, comprehensive)	E04UUF
Numerical differentiation,	derivatives up to order 14, function of one real variable	D04AAF
Analysis of variance, general row and column	design , treatment means and standard errors	G04BCF
Analysis 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
<i>LU</i> factorization and	determinant of real matrix	F03AFF
	Determinant of real matrix (Black Box)	F03AAF
	Determinant of real symmetric positive-definite band matrix...	F03ACF
<i>LL^T</i> factorization and	determinant of real symmetric positive-definite matrix	F03AEF
	Determinant of real symmetric positive-definite matrix...	F03ABF
	Computes deviates for Student's <i>t</i> -distribution	G01FBF
	Computes deviates for the beta distribution	G01FEF
	Computes deviates for the χ^2 distribution	G01FCF
	Computes deviates for the <i>F</i> -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
...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 G13AFF	G13ASF
	Multivariate time series, diagnostic checking of residuals, following G13DCF	G13DSF
Real sparse nonsymmetric linear systems,	diagnostic for F11BBF	F11BCF
Real sparse nonsymmetric linear systems,	diagnostic for F11BEF	F11BBF
Complex sparse non-Hermitian linear systems,	diagnostic for F11BSF	F11BTF
Real sparse symmetric linear systems,	diagnostic for F11GBF	F11GCF
Real sparse symmetric linear systems,	diagnostic for F11GEF	F11GFF
	Second-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
<i>LU</i> 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 matrix already...	F04LHF
Elliptic PDE, solution of finite	difference equations by a multigrid technique	D03EDF
Elliptic PDE, solution of finite	difference equations by SIP, five-point two-dimensional molecule,...	D03EBF
Elliptic PDE, solution of finite	difference equations by SIP, five-point two-dimensional molecule,...	D03UAF
Elliptic PDE, solution of finite	difference equations by SIP for seven-point three-dimensional...	D03ECF
Elliptic PDE, solution of finite	difference equations by SIP, seven-point three-dimensional...	D03UBF
Computes <i>t</i> -test statistic for a	difference in means between two Normal populations,...	G07CAF
Sum or	difference of two complex matrices, optional scaling and transposition	F01CWF
Sum or	difference of two real matrices, optional scaling and transposition	F01CTF
ODEs, general nonlinear boundary value problem, finite	difference technique with deferred correction, continuation facility	D02RAF
ODEs, boundary value problem, finite	difference technique with deferred correction, general linear problem	D02GBF
ODEs, boundary value problem, finite	difference technique with deferred correction, simple nonlinear...	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
General 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 second-order PDEs, method of lines, finite	differences , remeshing, two space variables, rectangular region	D03RAF
General system of second-order PDEs, method of lines, finite	differences , remeshing, two space variables, rectilinear region	D03RBF
Univariate time series, seasonal and non-seasonal	differentiating	G13AAF
	Numerical differentiation , derivatives up to order 14, function of one real...	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
	Discrete cosine transform (easy-to-use)	C06RBF
Two-dimensional complex	discrete Fourier transform	C06UUF
Three-dimensional complex	discrete Fourier transform	C06FXF
Single one-dimensional complex	discrete Fourier transform, complex data format	C06PCF
Two-dimensional complex	discrete Fourier transform, complex data format	C06PUF
Three-dimensional complex	discrete Fourier transform, complex data format	C06PXF
Single one-dimensional real	discrete Fourier transform, extra workspace for greater speed	C06FAF
Single one-dimensional Hermitian	discrete Fourier transform, extra workspace for greater speed	C06FBF
Single one-dimensional complex	discrete Fourier transform, extra workspace for greater speed	C06FCF
Single one-dimensional real	discrete Fourier transform, no extra workspace	C06EAF
Single one-dimensional Hermitian	discrete Fourier transform, no extra workspace	C06EBF
Single one-dimensional complex	discrete Fourier transform, no extra workspace	C06ECF
One-dimensional complex	discrete Fourier transform of multi-dimensional data	C06FFF
Multi-dimensional complex	discrete Fourier transform of multi-dimensional data	C06FJF

One-dimensional complex	discrete Fourier transform of multi-dimensional data...	C06PFF
Multi-dimensional complex	discrete Fourier transform of multi-dimensional data...	C06PJF
Single one-dimensional real and Hermitian complex	discrete Fourier transform, using complex data format for...	C06PAF
Multiple one-dimensional real	discrete Fourier transforms	C06FPF
Multiple one-dimensional Hermitian	discrete Fourier transforms	C06FQF
Multiple one-dimensional complex	discrete Fourier transforms	C06FRF
Multiple one-dimensional complex	discrete Fourier transforms using complex data format	C06PRF
Multiple one-dimensional complex	discrete Fourier transforms using complex data format and...	C06PSF
Multiple one-dimensional real and Hermitian complex	discrete Fourier transforms, using complex data format...	C06PPF
Multiple one-dimensional real and Hermitian complex	discrete Fourier transforms, using complex data format...	C06PQF
	Discrete quarter-wave cosine transform	C06HDF
	Discrete quarter-wave cosine transform (easy-to-use)	C06RDF
	Discrete quarter-wave sine transform	C06HCF
	Discrete quarter-wave sine transform (easy-to-use)	C06RCF
	Discrete sine transform	C06HAF
	Discrete sine transform (easy-to-use)	C06RAF
	Discretize a second-order elliptic PDE on a rectangle	D03EEF
...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 matrices...	G03DBF
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
Computes probabilities for the one-sample Kolmogorov-Smirnov	distribution	G01EYF
Computes probabilities for the two-sample Kolmogorov-Smirnov	distribution	G01EZF
Computes deviates for the standard Normal	distribution	G01FAF
Computes deviates for Student's t	distribution	G01FBF
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
Computes 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, log-normal	distribution	G05DEF
Pseudo-random real numbers, Cauchy	distribution	G05DFE
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
...for generating pseudo-random integers, uniform	distribution	G05EBF
...for generating pseudo-random integers, Poisson	distribution	G05ECF
...for generating pseudo-random integers, binomial	distribution	G05ECF
...generating pseudo-random integers, negative binomial	distribution	G05EDF
...generating pseudo-random integers, hypergeometric	distribution	G05EEF
Generates a vector of random numbers from a uniform	distribution	G05EFF
...random numbers from an (negative) exponential	distribution	G05FAF
Generates a vector of random numbers from a Normal	distribution	G05FBF
Generates a vector of pseudo-random numbers from a beta	distribution	G05FDF
Generates a vector of pseudo-random numbers from a gamma	distribution	G05FEF
Generates a vector of pseudo-random variates from von Mises	distribution	G05FFF
Computes confidence interval for the parameter of a binomial	distribution	G05FSF
Computes confidence interval for the parameter of a Poisson	distribution	G07AAF
...likelihood estimates for parameters of the Weibull	distribution	G07ABF
...likelihood estimates for parameters of the Weibull	distribution	G07BEF
...likelihood estimates for parameters of the Weibull	distribution	G08CCF
...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 function	G05EXF
	Cumulative normal distribution function $P(x)$	S15ABF
	Complement of cumulative normal distribution function $Q(x)$	S15ACF
	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	
Performs the one-sample Kolmogorov-Smirnov test for standard	distributions	G08CBF
Performs the χ^2 goodness of fit test, for standard continuous	distributions	G08CGF
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	F06ERF
	Dot product of two real vectors	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
...form, generalized real symmetric-definite banded	eigenproblem	F01BVF
...form of complex Hermitian-definite generalized	eigenproblem $Ax = \lambda Bx$, $ABx = \lambda x$ or $BAx = \lambda x, \dots$	F08SSF
Reduction to standard form of real symmetric-definite generalized	eigenproblem $Ax = \lambda Bx$, $ABx = \lambda x$ or $BAx = \lambda x, \dots$	F08SEF
Reduction of real symmetric-definite banded generalized	eigenproblem $Ax = \lambda Bx$ to standard form $Cy = \lambda y, \dots$	F08UEF
Reduction of complex Hermitian-definite banded generalized	eigenproblem $Ax = \lambda Bx$ to standard form $Cy = \lambda y, \dots$	F08USF
...form of complex Hermitian-definite generalized	eigenproblem $Ax = \lambda Bx$, $ABx = \lambda x$ or $BAx = \lambda x, \dots$	F08TSF
Reduction to standard form of real symmetric-definite generalized	eigenproblem $Ax = \lambda Bx$, $ABx = \lambda x$ or $BAx = \lambda x, \dots$	F08TEF

All eigenvalues of generalized banded real symmetric-definite	eigenproblem (Black Box)	F02FHF
Selected eigenvalues and eigenvectors of sparse symmetric	eigenproblem (Black Box)	F02FJF
Eigenvector of generalized real banded	eigenproblem by inverse iteration	F02SDF
All eigenvalues and optionally eigenvectors of generalized complex	eigenproblem by <i>QZ</i> algorithm (Black Box)	F02GJF
All eigenvalues and optionally eigenvectors of generalized	eigenproblem by <i>QZ</i> algorithm, real matrices (Black Box)	F02BJF
...regular/singular system, finite/infinite range,	eigenvalue and eigenfunction, user-specified break-points	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 matrix...	F02HAF
	Selected eigenvalues and eigenvectors of complex Hermitian matrix...	F02HCF
	All eigenvalues and eigenvectors of complex Hermitian-definite...	F02HDF
	Selected eigenvalues and eigenvectors of complex nonsymmetric matrix...	F02GCF
Estimates of sensitivities of selected	eigenvalues and eigenvectors of complex upper triangular matrix	F08QYF
	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
	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-tridiagonal generalized...	F02DFD
Estimates of sensitivities of selected	eigenvalues and eigenvectors of real upper quasi-triangular matrix	F08QLF
	Selected eigenvalues and eigenvectors of sparse symmetric eigenproblem...	F02FJF
	All eigenvalues and optionally all eigenvectors of complex Hermitian...	F08HQF
	All eigenvalues and optionally all eigenvectors of complex Hermitian...	F08GQF
	All eigenvalues and optionally all eigenvectors of complex Hermitian...	F08FQF
	All eigenvalues and optionally all eigenvectors of real symmetric...	F08HCF
	All eigenvalues and optionally all eigenvectors of real symmetric...	F08GCF
	All eigenvalues and optionally all eigenvectors of real symmetric...	F08FCF
	All eigenvalues and optionally all eigenvectors of real symmetric...	F08JCF
	All eigenvalues and optionally eigenvectors of generalized complex...	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 Hessenberg...	F08PSF
	All eigenvalues and Schur factorization of real general matrix...	F02EAF
	Eigenvalues and Schur factorization of real upper Hessenberg...	F08PEF
	All eigenvalues of generalized banded real symmetric-definite...	F02PHF
	Selected eigenvalues of real symmetric tridiagonal matrix by bisection	F08JFF
	All eigenvalues of real symmetric tridiagonal matrix, root-free...	F08JFF
...basis of right invariant subspace for selected	eigenvalues , with estimates of sensitivities	F08QGF
...basis of right invariant subspace for selected	eigenvalues , with estimates of sensitivities	F08QUF
	Eigenvector of generalized real banded eigenproblem by inverse...	F02SDF
...tridiagonal matrix by inverse iteration, storing	eigenvectors in complex array	F08JXF
...tridiagonal matrix by inverse iteration, storing	eigenvectors in real array	F08JKF
Transform	eigenvectors of complex balanced matrix to those of original...	F08NWF
All eigenvalues and	eigenvectors of complex general matrix (Black Box)	F02GBF
All eigenvalues and optionally all	eigenvectors of complex Hermitian band matrix,...	F08HQF
Selected eigenvalues and	eigenvectors of complex Hermitian matrix (Black Box)	F02HAF
Selected eigenvalues and optionally all	eigenvectors of complex Hermitian matrix (Black Box)	F02HCF
All eigenvalues and optionally all	eigenvectors of complex Hermitian matrix, packed storage,...	F08GQF
All eigenvalues and optionally all	eigenvectors of complex Hermitian matrix, using divide and conquer	F08FQF
Selected eigenvalues and	eigenvectors of complex Hermitian-definite generalized problem...	F02HDF
Selected right and/or left	eigenvectors of complex nonsymmetric matrix (Black Box)	F02GCF
Left and right	eigenvectors of complex upper Hessenberg matrix by inverse iteration	F08PXF
Estimates of sensitivities of selected eigenvalues and	eigenvectors of complex upper triangular matrix	F08QXF
All eigenvalues and optionally	eigenvectors of generalized complex eigenproblem by <i>QZ</i> ...	F08QYF
All eigenvalues and optionally	eigenvectors of generalized eigenproblem by <i>QZ</i> algorithm,...	F02GJF
Transform	eigenvectors of real balanced matrix to those of original...	F02BJF
All eigenvalues and	eigenvectors of real general matrix (Black Box)	F08NWF
Selected eigenvalues and	eigenvectors of real nonsymmetric matrix (Black Box)	F02EBF
All eigenvalues and optionally all	eigenvectors of real symmetric band matrix,...	F02ECF
Selected eigenvalues and	eigenvectors of real symmetric matrix (Black Box)	F08HCF
Selected eigenvalues and optionally all	eigenvectors of real symmetric matrix (Black Box)	F02FAF
All eigenvalues and optionally all	eigenvectors of real symmetric matrix, packed storage,...	F02FCF
All eigenvalues and optionally all	eigenvectors of real symmetric matrix,...	F08GCF
All eigenvalues and	eigenvectors of real symmetric positive-definite tridiagonal...	F08FCF
All eigenvalues and	eigenvectors of real symmetric positive-definite tridiagonal...	F08JUF
Selected	eigenvectors of real symmetric tridiagonal matrix by inverse...	F08JGF
Selected	eigenvectors of real symmetric tridiagonal matrix by inverse...	F08JXF
All eigenvalues and	eigenvectors of real symmetric tridiagonal matrix, reduced...	F08JKF
All eigenvalues and	eigenvectors of real symmetric tridiagonal matrix, reduced...	F08JSF
All eigenvalues and optionally all	eigenvectors of real symmetric tridiagonal matrix, reduced...	F08JEF
Selected right and/or left	eigenvectors of real symmetric tridiagonal matrix,...	F08JCF
Left and right	eigenvectors of real symmetric-tridiagonal generalized problem...	F02DFD
Estimates of sensitivities of selected eigenvalues and	eigenvectors of real upper quasi-triangular matrix	F08PKF
Selected eigenvalues and	eigenvectors of real upper quasi-triangular matrix	F08QKF
Selected eigenvalues and	eigenvectors of sparse symmetric eigenproblem (Black Box)	F08QLF
		F02FJF
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, three-dimensional...	D03FAF
	Elliptic PDE, Laplace's equation, two-dimensional arbitrary domain	D03EAF
Discretize a second-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,...	D03ECF
	Elliptic PDE, solution of finite difference equations by SIP,...	D03UBF
ODEs, IVP, resets	end of range for D02PDF	D02PDF
...adaptive, finite interval, weight function with	end-point singularities of algebraico-logarithmic type	D01APF
...convergence of sequence, Shanks' transformation and	epsilon algorithm	C06BAF
...general linear regression model and its standard	error	G02DNF
...of a generalized linear model and its standard	error	G02GNF

...bounds, impulse response function and its standard	error	G13CGF
ODEs, IVP,	error assessment diagnostics for D02PCF and D02PDF	D02PZF
	Error bounds for solution of complex band triangular system...	F07VVV
	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 system...	F07VHF
	Error bounds for solution of real triangular system...	F07THF
	Error bounds for solution of real triangular system...	F07UHF
Refined solution with	error bounds of complex band system of linear equations,...	F07BVF
Refined solution with	error bounds of complex Hermitian indefinite system...	F07MVV
Refined solution with	error bounds of complex Hermitian indefinite system...	F07PVV
Refined solution with	error bounds of complex Hermitian positive-definite band system...	F07HVF
Refined solution with	error bounds of complex Hermitian positive-definite system...	F07FVF
Refined solution with	error bounds of complex Hermitian positive-definite system...	F07GVF
Refined solution with	error bounds of complex symmetric system of linear equations,...	F07NVV
Refined solution with	error bounds of complex symmetric system of linear equations,...	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 linear equations,...	F07MHF
Refined solution with	error bounds of real symmetric indefinite system of linear equations,...	F07PHF
Refined solution with	error bounds of real symmetric positive-definite band system...	F07HHF
Refined solution with	error bounds of real symmetric positive-definite system...	F07HVF
Refined solution with	error bounds of real symmetric positive-definite system...	F07GHF
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, $\exp(-z^2)\operatorname{erfc}(-iz)$	S15DDF
Complement of	error function $\operatorname{erf}(x)$	S15ADF
	Error function $\operatorname{erfc}(x)$	S15AEF
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
...and column design, treatment means and standard	errors	G04BCF
...factorial design, treatment means and standard	errors	G04CAF
Multivariate time series, forecasts and their standard	errors	G13DJF
Multivariate time series, updates forecasts and their standard	errors	G13DKF
Estimates and standard	errors of parameters of a general linear model...	G02GKF
Estimates and standard	errors of parameters of a general linear regression model...	G02DKF
Computes	estimable function of a general linear regression model...	G02DNF
Computes	estimable function of a generalized linear model...	G02GNF
	Estimate condition number of complex band matrix,...	F07BUF
	Estimate condition number of complex band triangular matrix	F07VUF
	Estimate condition number of complex Hermitian indefinite matrix,...	F07MUF
	Estimate condition number of complex Hermitian indefinite matrix,...	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,...	F07AUF
	Estimate condition number of complex symmetric matrix,...	F07NUF
	Estimate condition number of complex symmetric matrix,...	F07QUF
	Estimate condition number of complex triangular matrix	F07TUF
	Estimate condition number of complex triangular matrix,...	F07UUF
	Estimate condition number of real band matrix,...	F07BGF
	Estimate condition number of real band triangular matrix	F07VGF
	Estimate condition number of real matrix,...	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...	F07FCF
	Estimate condition number of real symmetric positive-definite...	F07GGF
	Estimate condition number of real triangular matrix	F07TGF
	Estimate condition number of real triangular matrix, packed storage	F07UGF
ODEs, IVP, weighted norm of local error	estimate for D02M–N routines	D02ZAF
Kernel density	estimate using Gaussian kernel	G10BAF
	Estimate (using numerical differentiation) gradient and/or...	E04XAF
Robust regression, standard M -	estimates	G02HAF
	Estimates and standard errors of parameters of a general linear...	G02GKF
	Estimates and standard errors of parameters of a general linear...	G02DKF
Robust estimation, M -	estimates for location and scale parameters, standard weight functions	G07DBF
Robust estimation, M -	estimates for location and scale parameters, user-defined weight...	G07DCF
Computes maximum likelihood	estimates for parameters of the Normal distribution from grouped...	G07BBF
Computes maximum likelihood	estimates for parameters of the Weibull distribution	G07BEF
	Estimates of linear parameters and general linear regression model...	G02DDF
...invariant subspace for selected eigenvalues, with	estimates of sensitivities	F08QGF
...invariant subspace for selected eigenvalues, with	estimates of sensitivities	F08QUF
	Estimates of sensitivities of selected eigenvalues and eigenvectors...	F08QYF
	Estimates of sensitivities of selected eigenvalues and eigenvectors...	F08QLF
Computes Kaplan–Meier (product-limit)	estimates of survival probabilities	G12AAF
Computes maximum likelihood	estimates of the parameters of a factor analysis model,...	G03DAF
Computes a trimmed and winsorized mean of a single sample with	estimates of their variance	G07DDF
Huber	estimates See Robust	
Norm estimation (for use in condition	estimation), complex matrix	F04ZCF
Norm	estimation (for use in condition estimation), complex matrix	F04ZCF
Norm	estimation (for use in condition estimation), real matrix	F04YCF
Robust	estimation , median, median absolute deviation,...	G07DAF
Robust	estimation , M -estimates for location and scale parameters,...	G07DBF
Robust	estimation , M -estimates for location and scale parameters,...	G07DCF
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...	G02HLF
Multivariate time series,	estimation of multi-input model	G13BEF
Multivariate time series, preliminary	estimation of transfer function model	G13BDF
Multivariate time series,	estimation of VARMA model	G13DDF
Norm estimation (for use in condition	estimation), real matrix	F04YCF
Univariate time series, preliminary	estimation , seasonal ARIMA model	G13ADF
Univariate time series,	estimation , seasonal ARIMA model (comprehensive)	G13AEF
Univariate time series,	estimation , seasonal ARIMA model (easy-to-use)	G13AFF
Compute	Euclidean norm from scaled form	F06BMF
Compute	Euclidean norm of complex vector	F06JFF
Update	Euclidean norm of complex vector in scaled form	F06KJF
Compute	Euclidean norm of real vector	F06EJF
Compute weighted	Euclidean norm of real vector	F06FKF
Update	Euclidean norm of real vector in scaled form	F06FJF
Roe's approximate Riemann solver for	Euler equations in conservative form,...	D03PUF
Osher's approximate Riemann solver for	Euler equations in conservative form,...	D03PVF

Modified HLL Riemann solver for	Euler equations in conservative form,...	D03PWF
Exact Riemann Solver for	Euler equations in conservative form,...	D03PXF
Provides the mathematical constant γ	(Euler's Constant)	X01ABF
Interpolated values,	evaluate interpolant computed by E01SAF, two variables	E01SBF
Interpolated values,	evaluate interpolant computed by E01SEF, two variables	E01SEF
	Evaluate inverse Laplace transform as computed by C06LBF	C06LCF
Interpolated values,	evaluate rational interpolant computed by E01RAF, one variable	E01RBF
	Evaluation of fitted bicubic spline at a mesh of points	E02DFF
	Evaluation of fitted bicubic spline at a vector of points	E02DEF
	Evaluation of fitted cubic spline, definite integral	E02BDF
	Evaluation of fitted cubic spline, function and derivatives	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
	Evaluation of fitted rational function as computed by E02RAF	E02RBF
Interpolated values,	Everett's formula, equally spaced data, one variable	E01ABF
Computes the	exact probabilities for the Mann-Whitney U statistic, no ties...	G08AJF
Computes the	exact probabilities for the Mann-Whitney U statistic, ties...	G08AKF
Two-way contingency table analysis, with χ^2 /Fisher's	exact test	G01AFF
	Explicit ODEs, stiff IVP, banded Jacobian (comprehensive)	D02NCF
	Explicit ODEs, stiff IVP, full Jacobian (comprehensive)	D02NBF
	Explicit ODEs, stiff IVP (reverse communication, comprehensive)	D02NMF
	Explicit ODEs, stiff IVP, sparse Jacobian (comprehensive)	D02NDF
Pseudo-random real numbers, (negative)	exponential distribution	G05DBF
Generates a vector of random numbers from an (negative)	exponential distribution	G05FBF
Complex	exponential , e^z	S01EAF
	Exponential integral $E_1(x)$	S13AAF
Ranks, Normal scores, approximate Normal scores or	exponential (Savage) scores	G01DHF
	Extract grid data from D03RBF	D03RZF
Computes a five-point summary (median, hinges and	extremes)	G01ALF
Computes probabilities for	F-distribution	G01EDF
Computes deviates for the	F-distribution	G01FDF
Computes probabilities for the non-central	F-distribution	G01GDF
Pseudo-random real numbers,	F-distribution	G05DKF
Computes maximum likelihood estimates of the parameters of a	factor analysis model, factor loadings, communalities...	G03CAF
...of the parameters of a factor analysis model,	factor loadings, communalities and residual correlations	G03CAF
Computes	factor score coefficients (for use after G03CAF)	G03CCF
Computes orthogonal polynomials or dummy variables for	factor/classification variable	G04EAF
Analysis of variance, complete	factorial design, treatment means and standard errors	G04CAF
Real sparse nonsymmetric linear systems, incomplete	LU factorization	F11DAF
Complex sparse non-Hermitian linear systems, incomplete	LU factorization	F11DNF
Real sparse symmetric matrix, incomplete	Cholesky factorization	F11JAF
Complex sparse Hermitian matrix, incomplete	Cholesky factorization	F11JNF
	LU factorization and determinant of real matrix	F03AFF
	LU factorization and determinant of real symmetric positive-definite...	F03AEF
Operations with orthogonal matrices, form rows of Q ,	after RQ factorization by F01QJF	F01QKF
Operations with unitary matrices, form rows of Q ,	after RQ factorization by F01RJF	F01RKF
	QR or RQ factorization by sequence of plane rotations, complex upper...	F06TRF
	QR or RQ factorization by sequence of plane rotations, complex upper...	F06TSF
	QR or RQ factorization by sequence of plane rotations, complex upper...	F06TQF
	QR factorization by sequence of plane rotations, rank-1 update of...	F06TPF
	QR factorization by sequence of plane rotations, rank-1 update of...	F06PPF
	QR or RQ factorization by sequence of plane rotations, real upper...	F06QRF
	QR or RQ factorization by sequence of plane rotations, real upper...	F06QSF
	QR factorization by sequence of plane rotations, real upper...	F06QQF
Form all or part of orthogonal Q from	QR factorization determined by F08AEF or F08BEF	F08AFF
Form all or part of orthogonal Q from	LQ factorization determined by F08AHF	F08AJF
Form all or part of unitary Q from	QR factorization determined by F08ASF or F08BSF	F08ATF
Form all or part of unitary Q from	LQ factorization determined by F08AVF	F08AWF
All eigenvalues and Schur	factorization of complex general matrix (Black Box)	F02GAF
	QR factorization of complex general rectangular matrix	F08ASF
	LQ factorization of complex general rectangular matrix	F08AVF
	QR factorization of complex general rectangular matrix...	F08BSF
Bunch-Kaufman	factorization of complex Hermitian indefinite matrix	F07MRF
Bunch-Kaufman	factorization of complex Hermitian indefinite matrix, packed storage	F07PRF
Cholesky	factorization of complex Hermitian positive-definite band matrix	F07HRF
Computes a split	Cholesky factorization of complex Hermitian positive-definite band matrix A	F08UTF
Cholesky	factorization of complex Hermitian positive-definite matrix	F07FRF
Cholesky	factorization of complex Hermitian positive-definite matrix,...	F07GRF
	LU factorization of complex m by n band matrix	F07BRF
	LU factorization of complex m by n matrix	F07ARF
	RQ factorization of complex m by n matrix ($m \leq n$)	F01RJF
	RQ factorization of complex m by n upper trapezoidal matrix ($m \leq n$)	F01RGF
Reorder Schur	factorization of complex matrix, form orthonormal basis of right...	F08QUF
Reorder Schur	factorization of complex matrix using unitary similarity...	F08QTF
Bunch-Kaufman	factorization of complex symmetric matrix	F07NRF
Bunch-Kaufman	factorization of complex symmetric matrix, packed storage	F07QRF
Eigenvalues and Schur	factorization of complex upper Hessenberg matrix reduced...	F08PSF
	LU factorization of real almost block diagonal matrix	F01LHF
All eigenvalues and Schur	factorization of real general matrix (Black Box)	F02EAF
	QR factorization of real general rectangular matrix	F08AEF
	LQ factorization of real general rectangular matrix	F08AHF
	QR factorization of real general rectangular matrix with column pivoting	F08BEF
	LU factorization of real m by n band matrix	F07BDF
	LU factorization of real m by n matrix	F07ADF
	RQ factorization of real m by n matrix ($m \leq n$)	F01QJF
	RQ factorization of real m by n upper trapezoidal matrix ($m \leq n$)	F01QGF
Reorder Schur	factorization of real matrix, form orthonormal basis of right...	F08QGF
Reorder Schur	factorization of real matrix using orthogonal similarity transformation	F08QFF
	LU factorization of real sparse matrix	F01BRF
	LU factorization of real sparse matrix with known sparsity pattern	F01BSF
Bunch-Kaufman	factorization of real symmetric indefinite matrix	F07MDF
Bunch-Kaufman	factorization of real symmetric indefinite matrix, packed storage	F07PDF
Cholesky	factorization of real symmetric positive-definite band matrix	F07HDF
Computes a split	Cholesky factorization of real symmetric positive-definite band matrix A	F08UFF
Cholesky	factorization of real symmetric positive-definite matrix	F07FDF
Cholesky	factorization of real symmetric positive-definite matrix,...	F07GDF
	LDL^T factorization of real symmetric positive-definite...	F01MCF
	LU factorization of real tridiagonal matrix	F01LEF
Eigenvalues and Schur	factorization of real upper Hessenberg matrix reduced...	F08PEF
	QR factorization of UZ or RQ factorization of ZU , U complex upper...	F06TTF
	QR factorization of UZ or RQ factorization of ZU , U real upper...	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,...	F06QTF
QR factorization, possibly followed by SVD	F02WDF
Hard fail	P01
Soft fail	P01
Failures	P01
...filter, time-varying, square root covariance filter	G13EAF
...filter, time-invariant, square root covariance filter	G13EBF
Combined measurement and time update, one iteration of Kalman filter, time-invariant, square root covariance filter	G13EBF
Combined measurement and time update, one iteration of Kalman filter, time-varying, square root covariance filter	G13EAF
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 two-dimensional...	D03EBF
Elliptic PDE, solution of finite difference equations by SIP, five-point two-dimensional...	D03UAF
Elliptic PDE, solution of finite difference equations by SIP for seven-point three-dimensional...	D03ECF
Elliptic PDE, solution of finite difference equations by SIP, seven-point three-dimensional...	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
General system of parabolic PDEs, coupled DAEs, method of lines, finite differences, one space variable	D03PHF
General system of parabolic PDEs, coupled DAEs, method of lines, finite differences, one space variable	D03PPF
General system of second-order PDEs, method of lines, finite differences, remeshing, two space variables, rectangular region	D03RAF
General system of second-order PDEs, method of lines, finite differences, remeshing, two space variables, rectangular region	D03RBF
...non-adaptive, finite interval with provision for indefinite integrals	D01ARF
One-dimensional quadrature, non-adaptive, finite interval	D01BDF
One-dimensional quadrature, adaptive, finite interval, allowing for singularities at user-specified break-points	D01ALF
One-dimensional quadrature, adaptive, finite interval, method suitable for oscillating functions	D01AKF
One-dimensional quadrature, adaptive, finite interval, method suitable for oscillating functions	D01AKF
One-dimensional quadrature, adaptive, finite interval, strategy due to Patterson,...	D01AHF
One-dimensional quadrature, adaptive, finite interval, strategy due to Piessens and de Doncker,...	D01AJF
One-dimensional quadrature, adaptive, finite interval, strategy due to Piessens and de Doncker,...	D01AJF
One-dimensional quadrature, adaptive, finite interval, variant of D01AJF efficient on vector machines	D01ATF
One-dimensional quadrature, adaptive, finite interval, variant of D01AKF efficient on vector machines	D01AUF
One-dimensional quadrature, adaptive, finite interval, weight function $1/(x-c)$,...	D01AQF
One-dimensional quadrature, adaptive, finite interval, weight function $\cos(\omega x)$ or $\sin(\omega x)$	D01ANF
One-dimensional quadrature, adaptive, finite interval, weight function with end-point singularities...	D01APF
One-dimensional quadrature, non-adaptive, finite interval with provision for indefinite integrals	D01ARF
Second-order Sturm-Liouville problem, regular system, finite range, eigenvalue only	D02KAF
Two-dimensional quadrature, finite region	D01DAF
Second-order Sturm-Liouville problem, regular/singular system, finite/infinite range, eigenvalue and eigenfunction,...	D02KEF
Second-order Sturm-Liouville problem, regular/singular system, finite/infinite range, eigenvalue only, user-specified break-points	D02KDF
Two-way contingency table analysis, with χ^2 /Fisher's exact test	G01AAF
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, scattered data	E02DDF
Minimax curve fit by polynomials	E02ACF
Least-squares curve fit, by polynomials, arbitrary data points	E02ADF
Least-squares surface fit by polynomials, data on lines	E02CAF
Fit cubic smoothing spline, smoothing parameter estimated	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, arbitrary data points	E02AGF
Fits a general linear regression model for new dependent variable	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 fitted bicubic spline at a mesh of points	E02DFE
Evaluation of fitted bicubic spline at a vector of points	E02DEF
Evaluation of fitted cubic 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 series form...	E02AKF
Evaluation of fitted polynomial in one variable from Chebyshev series form...	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 two-dimensional data into panels for fitting bicubic splines	E02ZAF
Computes a five-point summary (median, hinges and extremes)	G01ALF
Elliptic PDE, solution of finite difference equations by SIP, five-point two-dimensional molecule, iterate to convergence	D03EBF
Elliptic PDE, solution of finite difference equations by SIP, five-point two-dimensional molecule, one iteration	D03UAF
...method of lines, upwind scheme using numerical flux function based on Riemann solver, one space variable	D03PFF
...method of lines, upwind scheme using numerical flux function based on Riemann solver, one space variable	D03PLF
...method of lines, upwind scheme using numerical flux function based on Riemann solver, remeshing, one space variable	D03PSF
Univariate time series, update state set for forecasting	G13AGF
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
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	G13JF
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

Two-dimensional complex discrete	Fourier transform	C06FUF
Three-dimensional complex discrete	Fourier transform	C06FXF
Single one-dimensional complex discrete	Fourier transform, complex data format	C06PCF
Two-dimensional complex discrete	Fourier transform, complex data format	C06PUF
Three-dimensional complex discrete	Fourier transform, complex data format	C06PXF
Single one-dimensional real discrete	Fourier transform, extra workspace for greater speed	C06FAF
Single one-dimensional Hermitian discrete	Fourier transform, extra workspace for greater speed	C06BFF
Single one-dimensional complex discrete	Fourier transform, extra workspace for greater speed	C06FCF
Single one-dimensional real discrete	Fourier transform, no extra workspace	C06EAF
Single one-dimensional Hermitian discrete	Fourier transform, no extra workspace	C06EBF
Single one-dimensional complex discrete	Fourier transform, no extra workspace	C06ECF
One-dimensional complex discrete	Fourier transform of multi-dimensional data	C06FFF
Multi-dimensional complex discrete	Fourier transform of multi-dimensional data	C06JFF
One-dimensional complex discrete	Fourier transform of multi-dimensional data (using complex data type)	C06PFF
Multi-dimensional complex discrete	Fourier transform of multi-dimensional data (using complex data type)	C06PJF
...one-dimensional real and Hermitian complex discrete	Fourier transform, using complex data format for Hermitian sequences	C06PAF
Multiple one-dimensional real discrete	Fourier transforms	C06FPF
Multiple one-dimensional Hermitian discrete	Fourier transforms	C06FQF
Multiple one-dimensional complex discrete	Fourier transforms	C06FRF
Multiple one-dimensional complex discrete	Fourier transforms using complex data format	C06PRF
Multiple one-dimensional complex discrete	Fourier transforms using complex data format and sequences...	C06PSF
Multiple one-dimensional real and Hermitian complex discrete	Fourier transforms, using complex data format for Hermitian...	C06PPF
Multiple one-dimensional real and Hermitian complex discrete	Fourier transforms, using complex data format for Hermitian...	C06PQF
Linear non-singular	Fredholm integral equation, second kind, smooth kernel	D05ABF
Linear non-singular	Fredholm integral equation, second 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
Mean, variance, skewness, kurtosis, etc, one variable, from	frequency table	G01ADF
	Frequency table from raw data	G01AEF
	Fresnel integral $C(x)$	S20ADF
	Fresnel integral $S(x)$	S20ACF
	Friedman two-way analysis of variance on k matched samples	G08AEF
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...	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 matrix	F06UMF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, complex symmetric...	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...	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 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,...	F06RDF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real...	F06RJF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real triangular...	F06RLF
1-norm, ∞ -norm,	Frobenius norm, largest absolute element, real triangular...	F06RKF
Multivariate time series,	gain, phase, bounds, univariate and bivariate (cross) spectra	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
Provides the mathematical constant γ (Euler's Constant)		X01ABF
Performs the	gaps test for randomness	G08EDF
	Gather and set to zero complex sparse vector	F06GVF
	Gather and set to zero real sparse vector	F06EVF
	Gather complex sparse vector	F06GUF
	Gather real sparse vector	F06EUF
Kernel density estimate using	Gaussian kernel	G10BAF
One-dimensional	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 least-squares)	F04JLF
Complex general	Gauss–Markov linear model (including weighted least-squares)	F04KLF
Unconstrained minimum of a sum of squares, combined	Gauss–Newton and modified Newton algorithm...	E04GDF
Unconstrained minimum of a sum of squares, combined	Gauss–Newton and modified Newton algorithm...	E04GZF
Unconstrained minimum of a sum of squares, combined	Gauss–Newton and modified Newton algorithm...	E04FCF
Unconstrained minimum of a sum of squares, combined	Gauss–Newton and modified Newton algorithm...	E04FYF
Unconstrained minimum of a sum of squares, combined	Gauss–Newton and modified Newton algorithm,...	E04HEF
Unconstrained minimum of a sum of squares, combined	Gauss–Newton and modified Newton algorithm,...	E04HYF
Unconstrained minimum of a sum of squares, combined	Gauss–Newton and quasi-Newton algorithm...	E04GBF
Unconstrained minimum of a sum of squares, combined	Gauss–Newton and quasi-Newton algorithm,...	E04GYF
All eigenvalues of	generalized banded real symmetric-definite eigenproblem (Black Box)	F02FHF
All eigenvalues and optionally eigenvectors of	generalized complex eigenproblem by QZ algorithm (Black Box)	F02GJF
Reduction to standard form of complex Hermitian-definite	generalized eigenproblem $Ax = \lambda Bx$, $ABx = \lambda x$ or $BAx = \lambda x, \dots$	F08SSF
Reduction to standard form of real symmetric-definite	generalized eigenproblem $Ax = \lambda Bx$, $ABx = \lambda x$ or $BAx = \lambda x, \dots$	F08SEF
Reduction of real symmetric-definite banded	generalized eigenproblem $Ax = \lambda Bx$ to standard form $Cy = \lambda y, \dots$	F08UEF
Reduction of complex Hermitian-definite banded	generalized eigenproblem $Ax = \lambda Bx$ to standard form $Cy = \lambda y, \dots$	F08USF
Reduction to standard form of complex Hermitian-definite	generalized eigenproblem $Ax = \lambda Bx$, $ABx = \lambda x$ or $BAx = \lambda x, \dots$	F08TSF
Reduction to standard form of real symmetric-definite	generalized eigenproblem $Ax = \lambda Bx$, $ABx = \lambda x$ or $BAx = \lambda x, \dots$	F08TEF
All eigenvalues and optionally eigenvectors of	generalized eigenproblem by QZ algorithm, real matrices (Black Box)	F02BJF
Computes estimable function of 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
All eigenvalues and eigenvectors of real symmetric-definite	generalized problem (Black Box)	F02PFF
All eigenvalues and eigenvectors of complex Hermitian-definite	generalized problem (Black Box)	F02HDF
Eigenvector of	generalized real banded eigenproblem by inverse iteration	F02SDF
Reduction to standard form,	generalized real symmetric-definite banded eigenproblem	F01BVF

	Generate complex elementary reflection	F06HRF
	Generate complex plane rotation, storing tangent, real cosine	F06CAF
	Generate complex plane rotation, storing tangent, real sine	F06CBF
	Generate next term from reference vector for ARMA time...	G05EWF
	Generate orthogonal transformation matrices from reduction...	F08KFF
	Generate orthogonal transformation matrix from reduction...	F08NFF
	Generate orthogonal transformation matrix from reduction...	F08FFF
	Generate orthogonal transformation matrix from reduction...	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	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 Abel-type...	D05BYF
	Generates a realisation of a multivariate time series from...	G05HDF
	Generates a vector of pseudo-random numbers from...	G05FEF
	Generates a vector of pseudo-random numbers from...	G05FFF
	Generates a vector of pseudo-random variates from...	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...	G05FBF
	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
	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
	Selection of basic algorithm random number generator or Wichmann–Hill algorithm generators for subsequent...	G05ZAF
...integration of function defined by data values,	Gill–Miller method	D01GAF
	Performs the χ^2 goodness of fit test, for standard continuous distributions	G08CGF
	Goodness of fit tests	G08
Unconstrained minimum, pre-conditioned conjugate	gradient algorithm, function of several variables using...	E04DGF
Estimate (using numerical differentiation)	gradient and/or Hessian of a function	E04XAF
Real sparse symmetric linear systems, pre-conditioned conjugate	gradient or Lanczos	F11GBF
Real sparse symmetric linear systems, pre-conditioned conjugate	gradient or Lanczos, threadsafe	F11GEF
Solution of real sparse symmetric linear system, conjugate	gradient/Lanczos method, Jacobi or SSOR preconditioner (Black Box)	F11JEF
Solution of complex sparse Hermitian linear system, conjugate	gradient/Lanczos method, Jacobi or SSOR preconditioner (Black Box)	F11JSF
Solution of real sparse symmetric linear system, conjugate	gradient/Lanczos method, preconditioner computed by F11JAF...	F11JCF
Solution of complex sparse Hermitian linear system, conjugate	gradient/Lanczos method, preconditioner computed by F11JNF...	F11JQF
	Gram–Schmidt orthogonalisation of n vectors of order m	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 analysis	group	G03DAF
Computes Mahalanobis squared distances for group or pooled variance-covariance matrices (for use after G03DAF)	group	G03DBF
...for parameters of the Normal distribution from grouped and/or censored data	grouped	G07BBF
	Allocates observations to groups according to selected rules (for use after G03DAF)	G03DCF
	Hankel functions $H_{\nu+a}^{(j)}(z)$, $j = 1, 2$, real $a \geq 0, \dots$	S17DLF
	Hard fail	P01
	Fits Cox's proportional hazard model	G12BAF
Creates the risk sets associated with the Cox proportional hazards model for fixed covariates	hazards	G12ZAF
	Elliptic PDE, Helmholtz equation, three-dimensional Cartesian co-ordinates	D03FAF
Interpolating functions, monotonicity-preserving, piecewise cubic Hermite , one variable	Hermite	E01BEF
	Matrix-vector product, complex Hermitian band matrix	F06SDF
...Frobenius norm, largest absolute element, complex Hermitian band matrix	Hermitian band matrix	F06UEF
	Unitary reduction of complex Hermitian band matrix to real symmetric tridiagonal form	F08HSF
All eigenvalues and optionally all eigenvectors of complex Hermitian band matrix, using divide and conquer	Hermitian band matrix, using divide and conquer	F08HQF
Single one-dimensional real and Hermitian complex discrete Fourier transform, using...	Hermitian complex discrete Fourier transform, using...	C06PAF
Multiple one-dimensional real and Hermitian complex discrete Fourier transforms, using...	Hermitian complex discrete Fourier transforms, using...	C06PPF
Single one-dimensional Hermitian discrete Fourier transform, extra workspace...	Hermitian discrete Fourier transform, extra workspace...	C06PQF
Multiple one-dimensional Hermitian discrete Fourier transform, no extra workspace	Hermitian discrete Fourier transform, no extra workspace	C06BBF
Multiple one-dimensional Hermitian discrete Fourier transforms	Hermitian discrete Fourier transforms	C06QF
Bunch–Kaufman factorization of complex Hermitian indefinite matrix	Hermitian indefinite matrix	F07MRF
Estimate condition number of complex Hermitian indefinite matrix, matrix already factorized by F07MRF	Hermitian indefinite matrix, matrix already factorized by F07MRF	F07MUF
Inverse of complex Hermitian indefinite matrix, matrix already factorized by F07MRF	Hermitian indefinite matrix, matrix already factorized by F07MRF	F07MWF
Estimate condition number of complex Hermitian indefinite matrix, matrix already factorized by F07PRF	Hermitian indefinite matrix, matrix already factorized by F07PRF	F07PUF
Inverse of complex Hermitian indefinite matrix, matrix already factorized by F07PRF	Hermitian indefinite matrix, matrix already factorized by F07PRF	F07PWF
Bunch–Kaufman factorization of complex Hermitian indefinite matrix, packed storage	Hermitian indefinite matrix, packed storage	F07PRF
Refined solution with error bounds of complex Hermitian indefinite system of linear equations,...	Hermitian indefinite system of linear equations,...	F07MVF
Solution of complex Hermitian indefinite system of linear equations,...	Hermitian indefinite system of linear equations,...	F07MSF
Solution of complex Hermitian indefinite system of linear equations,...	Hermitian indefinite system of linear equations,...	F07PSF
Refined solution with error bounds of complex Hermitian indefinite system of linear equations,...	Hermitian indefinite system of linear equations,...	F07PVF
Solution of complex sparse Hermitian linear system, conjugate gradient/Lanczos method,...	Hermitian linear system, conjugate gradient/Lanczos method,...	F11JSF
Solution of complex sparse Hermitian linear system, conjugate gradient/Lanczos method,...	Hermitian linear system, conjugate gradient/Lanczos method,...	F11JQF
Apply complex similarity rotation to 2 by 2 Hermitian matrix	Hermitian matrix	F06CHF
Matrix-vector product, complex Hermitian matrix	Hermitian matrix	F06SCF
Rank-1 update, complex Hermitian matrix	Hermitian matrix	F06SPF
Rank-2 update, complex Hermitian matrix	Hermitian matrix	F06SFF
...Frobenius norm, largest absolute element, complex Hermitian matrix	Hermitian matrix	F06SDF
Rank- k update of complex Hermitian matrix	Hermitian matrix	F06UCF
Rank- k update of complex Hermitian matrix	Hermitian matrix	F06ZRF
...generated by applying SSOR to complex sparse Hermitian matrix	Hermitian matrix	F11JRF
Unitary similarity transformation of Hermitian matrix as a sequence of plane rotations	Hermitian matrix as a sequence of plane rotations	F06TMF
All eigenvalues and eigenvectors of complex Hermitian matrix (Black Box)	Hermitian matrix (Black Box)	F02HAF
Selected eigenvalues and eigenvectors of complex Hermitian matrix (Black Box)	Hermitian matrix (Black Box)	F02HCF
Complex sparse Hermitian matrix, incomplete Cholesky factorization	Hermitian matrix, incomplete Cholesky factorization	F11JNF
Matrix-matrix product, one complex Hermitian matrix, one complex rectangular matrix	Hermitian matrix, one complex rectangular matrix	F06ZCF

...Frobenius norm, largest absolute element, complex	Hermitian matrix, packed storage	F06UDF
All eigenvalues and optionally all eigenvectors of complex	Hermitian matrix, packed storage, using divide and conquer	F08GQF
Complex sparse	Hermitian matrix reorder routine	F11ZPF
Unitary reduction of complex	Hermitian matrix to real symmetric tridiagonal form	F08FSF
Unitary reduction of complex	Hermitian matrix to real symmetric tridiagonal form, packed storage	F08GSF
All eigenvalues and optionally all eigenvectors of complex	Hermitian matrix, using divide and conquer	F08FQF
...symmetric tridiagonal matrix, reduced from complex	Hermitian matrix, using implicit <i>QL</i> or <i>QR</i>	F08JSF
Complex sparse	Hermitian matrix vector multiply	F11XSF
Matrix-vector product, complex	Hermitian packed matrix	F06SEF
Rank-1 update, complex	Hermitian packed matrix	F06SQF
Rank-2 update, complex	Hermitian packed matrix	F06SSF
Cholesky factorization of complex	Hermitian positive-definite band matrix	F07HRF
Computes a split Cholesky factorization of complex	Hermitian positive-definite band matrix <i>A</i>	F08UTF
Estimate condition number of complex	Hermitian positive-definite band matrix,...	F07HUF
Refined solution with error bounds of complex	Hermitian positive-definite band system of linear equations,...	F07HVF
Solution of complex	Hermitian positive-definite band system of linear equations,...	F07HSF
Cholesky factorization of complex	Hermitian positive-definite matrix	F07FRF
...positive-definite tridiagonal matrix, reduced from complex	Hermitian positive-definite matrix	F08JUF
Estimate condition number of complex	Hermitian positive-definite matrix,...	F07FUF
Inverse of complex	Hermitian positive-definite matrix,...	F07FWF
Estimate condition number of complex	Hermitian positive-definite matrix,...	F07GUF
Inverse of complex	Hermitian positive-definite matrix,...	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,...	F07VVF
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
...Fourier transform, using complex data format for	Hermitian sequences	C06PAF
Convert	Hermitian sequences to general complex sequences	C06GSF
Reduction of complex	Hermitian-definite banded generalized eigenproblem $Ax = \lambda Bx...$	F08USF
Reduction to standard form of complex	Hermitian-definite generalized eigenproblem $Ax = \lambda Bx,...$	F08SSF
Reduction to standard form of complex	Hermitian-definite generalized eigenproblem $Ax = \lambda Bx,...$	F08TSF
All eigenvalues and eigenvectors of complex	Hermitian-definite generalized problem (Black Box)	F02HDF
Orthogonal reduction of real general matrix to upper	Hessenberg form	F08NEF
Unitary reduction of complex general matrix to upper	Hessenberg form	F08NSF
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
Apply unitary transformation matrix from reduction to	Hessenberg form determined by F08NSF	F08NUF
<i>QR</i> or <i>RQ</i> factorization by sequence of plane rotations, real upper	Hessenberg matrix	F06QRF
1-norm, ∞ -norm, 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
Selected right and/or left eigenvectors of real upper	Hessenberg matrix by inverse iteration	F08PKF
Selected right and/or left eigenvectors of complex upper	Hessenberg matrix by inverse iteration	F08PXF
Compute upper	Hessenberg matrix by sequence of plane rotations,...	F06TVF
Compute upper	Hessenberg matrix by sequence of plane rotations,...	F06QVF
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
Estimate (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
...basic algorithm random number generator or Wichmann-	Hill algorithm generators for subsequent calls to G05 routines	G05ZAF
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
Calculates a robust estimation of a correlation matrix,	Huber's weight function	G02HKF
Set up reference vector for generating pseudo-random integers,	hypergeometric distribution	G05EFF
	Hypergeometric distribution function	G01BLF
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
...matrix, reduced from real symmetric matrix using	implicit QL or <i>QR</i>	F08JEF
...reduced from complex Hermitian matrix, using	implicit QL or <i>QR</i>	F08JSF
	Implicit/algebraic ODEs, stiff IVP, banded Jacobian...	D02NHF
	Implicit/algebraic ODEs, stiff IVP, full Jacobian (comprehensive)	D02NGF
	Implicit/algebraic ODEs, stiff IVP (reverse communication,...	D02NNF
	Implicit/algebraic ODEs, stiff IVP, sparse Jacobian (comprehensive)	D02NJF
Multivariate time series, noise spectrum, bounds,	impulse response function and its standard error	G13CGF
Real sparse symmetric matrix,	incomplete Cholesky factorization	F11JAF
Complex sparse Hermitian matrix,	incomplete Cholesky factorization	F11JNF
Solution of linear system involving	incomplete Cholesky preconditioning matrix generated by F11JAF	F11JBF
Solution of complex linear system involving	incomplete Cholesky preconditioning matrix generated by F11JNF	F11JPF
	Incomplete Gamma functions $P(a, x)$ and $Q(a, x)$	S14BAF
Real sparse nonsymmetric linear systems,	incomplete LU factorization	F11DAF
Complex sparse non-Hermitian linear systems,	incomplete LU factorization	F11DNF
Solution of linear system involving	incomplete LU preconditioning matrix generated by F11DAF	F11DBF
Solution of complex linear system involving	incomplete LU preconditioning matrix generated by F11DNF	F11DPF
Bunch-Kaufman factorization of real symmetric	indefinite matrix	F07MDF
Bunch-Kaufman factorization of complex Hermitian	indefinite matrix	F07MRF
Estimate condition number of real symmetric	indefinite matrix, matrix already factorized by F07MDF	F07MGF
Inverse of 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 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 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 complex Hermitian	indefinite matrix, matrix already factorized by F07PRF,...	F07PWF
Bunch-Kaufman factorization of real symmetric	indefinite matrix, packed storage	F07PDF
Bunch-Kaufman factorization of complex Hermitian	indefinite matrix, packed storage	F07PRF
Refined solution with error bounds of real symmetric	indefinite system of linear equations, multiple right-hand sides	F07MHF
Refined solution with error bounds of complex Hermitian	indefinite system of linear equations, multiple right-hand sides	F07MVF
Solution of real symmetric	indefinite system of linear equations, multiple right-hand sides,...	F07MEF
Solution of complex Hermitian	indefinite system of linear equations, multiple right-hand sides,...	F07MSF
Solution of real symmetric	indefinite system of linear equations, multiple right-hand sides,...	F07PEF

Solution of complex Hermitian	indefinite system of linear equations, multiple right-hand sides,...	F07PSF
Refined solution with error bounds of real symmetric	indefinite system of linear equations, multiple right-hand sides,...	F07PHF
Refined solution with error bounds of complex Hermitian	indefinite system of linear equations, multiple right-hand sides,...	F07PVF
	Index , complex vector element with largest absolute value	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
L_1 -approximation by general linear function subject to linear	inequality constraints	E02GBF
One-dimensional quadrature, adaptive, infinite or semi-	infinite interval	D01AMF
One-dimensional quadrature, adaptive, infinite or semi-	infinite interval	D01AMF
One-dimensional quadrature, adaptive, semi-	infinite interval, weight function $\cos(\omega x)$ or $\sin(\omega x)$	D01ASF
One-dimensional quadrature, adaptive, infinite or semi-	infinite or semi-infinite interval	D01AMF
One-dimensional quadrature, adaptive, infinite or semi-	infinite or semi-infinite interval	D01AMF
...Sturm–Liouville problem, regular/singular system, finite/	infinite range, eigenvalue and eigenfunction, user-specified break-points	D02KEF
...Sturm–Liouville problem, regular/singular system, finite/	infinite range, eigenvalue only, user-specified break-points	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 non-repeatable...	G05CCF
	Initialise random number generating routines to give repeatable...	G05CBF
	Real inner product added to initial value, basic/additional precision	X03AAF
	Complex inner product added to initial value, basic/additional precision	X03ABF
Multivariate time series, estimation of multi-	input model	G13BEF
...series, update state set for forecasting from multi-	input model	G13BGF
Multivariate time series, forecasting from state set of multi-	input model	G13BHF
...set and forecasts from fully specified multi-	input model	G13BJF
	Input output utilities	X04
	The largest representable integer	X02BBF
...rectangular matrix, permutations represented by an	integer array	F06QJF
...rectangular matrix, permutations represented by an	integer array	F06VJF
	Integer LP problem (dense)	H02BBF
Pseudo-random	integer , Poisson distribution	G05DRF
	Integer programming solution, supplies further information on...	H02BZF
Evaluation of fitted cubic spline, definite	integral	E02BDF
Dawson's	integral	S15AFF
Fresnel	integral $C(x)$	S20ADF
Exponential	integral $E_1(x)$	S13AAF
Linear non-singular Fredholm	integral equation, second kind, smooth kernel	D05ABF
Linear non-singular Fredholm	integral equation, second 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
Interpolated values, interpolant computed by E01BEF, definite	integral , one variable	E01BHF
	Cosine integral $Ci(x)$	S13ACF
	Sine integral $Si(x)$	S13ADF
	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
One-dimensional quadrature, integration of function defined by data values, Gill–Miller method		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 determined	D02AGF
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
Interpolated values, interpolant computed by E01BEF, definite integral, one variable		E01BHF
Interpolated values, interpolant computed by E01BEF, function and first derivative,...		E01BGF
Interpolated values, interpolant computed by E01BEF, function only, one variable		E01BFF
Interpolated values, evaluate rational	interpolant computed by E01RAF, one variable	E01RBF
Interpolated values, evaluate	interpolant computed by E01SAF, two variables	E01SBF
Interpolated values, evaluate	interpolant computed by E01SEF, two variables	E01SFF
Interpolating functions, polynomial	interpolant , data may include derivative values, one variable	E01AEF
Interpolating functions, cubic spline	interpolant , one variable	E01BAF
Interpolating functions, rational	interpolant , one variable	E01RAF
	Interpolated values, Aitken's technique, unequally spaced data,...	E01AAF
	Interpolated values, evaluate interpolant computed by E01SAF,...	E01SBF
	Interpolated values, evaluate interpolant computed by E01SEF,...	E01SFF
	Interpolated values, evaluate rational interpolant computed by...	E01RBF
	Interpolated values, Everett's formula, equally spaced data,...	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 variable	E01BAF
	Interpolating functions, fitting bicubic spline, data on rectangular...	E01DAF
	Interpolating functions, method of Renka and Cline, two variables	E01SAF
	Interpolating functions, modified Shepard's method, two variables	E01SEF
	Interpolating functions, modified Shepard's method, two variables	E01SGF
	Interpolating functions, monotonicity-preserving, piecewise cubic...	E01BEF
	Interpolating functions, polynomial interpolant, data...	E01AEF
	Interpolating functions, rational interpolant, one variable	E01RAF
Least-squares polynomial fit, special data points (including	interpolation)	E02AFF
Least-squares curve cubic spline fit (including	interpolation)	E02BAF
Second-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 D02M–N routines, natural interpolant		D02PDF

ODEs, general nonlinear boundary value problem,	ODEs, IVP, interpolation for D02QFF or D02QGF	D02QZF
PDEs, spatial interpolation with D03PCF, D03PEF, D03PFF, D03PHF,...	interpolation for D02TKF	D02TYF
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...update, one iteration of Kalman filter, time-invariant, square root covariance filter		D03PYF
...real matrix, form orthonormal basis of right invariant subspace for selected eigenvalues,...		G13EBF
...complex matrix, form orthonormal basis of right invariant subspace for selected eigenvalues,...		F08QGF
		F08QUF
	Pseudo- inverse and rank of real m by n matrix ($m \geq n$)	F01BLF
	Inverse distributions	G01F
Eigenvector of generalized real banded eigenproblem by inverse iteration		F02SDF
...eigenvectors of real upper Hessenberg matrix by inverse iteration		F08PKF
...eigenvectors of complex upper Hessenberg matrix by inverse iteration		F08PKF
Selected eigenvectors of real symmetric tridiagonal matrix by inverse iteration, storing eigenvectors in complex array		F08JXF
Selected 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
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	Inverse of complex Hermitian indefinite matrix,...	F07MWF
	Inverse of complex Hermitian indefinite matrix,...	F07PWF
	Inverse of complex Hermitian positive-definite matrix,...	F07WVF
	Inverse of complex Hermitian positive-definite matrix,...	F07GWF
	Inverse of complex matrix, matrix already factorized by F07ARF	F07AWF
	Inverse of complex symmetric matrix, matrix already factorized...	F07NWF
	Inverse of complex symmetric matrix, matrix already factorized...	F07QWF
	Inverse of complex triangular matrix	F07TWF
	Inverse of complex triangular matrix, packed storage	F07UWF
	Inverse of real matrix, matrix already factorized by F07ADF	F07AJF
	Inverse of real symmetric indefinite matrix,...	F07MJF
	Inverse of real symmetric indefinite matrix,...	F07PJF
	Inverse of real symmetric positive-definite matrix	F01ADF
	Inverse of real symmetric positive-definite matrix,...	F07JF
	Inverse of real symmetric positive-definite matrix,...	F07GJF
	Inverse of real symmetric positive-definite matrix,...	F01ABF
	Inverse of real triangular matrix	F07TJF
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	Invert a permutation	M01ZAF
	Interpret MPSX data file defining IP or LP problem, optimize and print solution	H02BFF
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...by SIP, five-point two-dimensional molecule, iterate to convergence		D03EBF
...SIP for seven-point three-dimensional molecule, iterate to convergence		D03ECF
...SIP, five-point two-dimensional molecule, one iteration		D03UAF
...SIP, seven-point three-dimensional molecule, one iteration		D03UBF
Eigenvector of generalized real banded eigenproblem by inverse iteration		F02SDF
...eigenvectors of real upper Hessenberg matrix by inverse iteration		F08PKF
...of complex upper Hessenberg matrix by inverse iteration		F08PKF
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Combined measurement and time update, one iteration of Kalman filter, time-varying, square root covariance filter		G13EAF
...real symmetric tridiagonal matrix by inverse iteration, storing eigenvectors in complex array		F08JXF
...real symmetric tridiagonal matrix by inverse iteration, storing eigenvectors in real array		F08JKF
	Inverse of real symmetric positive-definite matrix using iterative refinement	F01ABF
...equations with multiple right-hand sides using iterative refinement (Black Box)		F04ABF
...equations with multiple right-hand sides using iterative refinement (Black Box)		F04AEF
...in n unknowns, rank = n , $m \geq n$ using iterative refinement (Black Box)		F04AMF
...simultaneous linear equations, one right-hand side using iterative refinement (Black Box)		F04ASF
...simultaneous linear equations, one right-hand side using iterative refinement (Black Box)		F04ATF
...positive-definite simultaneous linear equations using iterative refinement (coefficient matrix already factorized by F03AEF)		F04AFF
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	ODEs, IVP, Adams method, until function of solution is zero,...	D02CJF
	ODEs, IVP, Adams method with root-finding (forward communication,...	D02QFF
	ODEs, IVP, Adams method with root-finding (reverse communication,...	D02QGF
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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		D02MVF
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ODEs, IVP, error assessment diagnostics for D02PCF and D02PDF		D02PZF
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ODEs, IVP, for use with D02M-N routines, full Jacobian,...		D02NSF
ODEs, IVP, for use with D02M-N routines, sparse Jacobian, enquiry routine		D02NRF
ODEs, IVP, for use with D02M-N routines, sparse Jacobian,...		D02NUF
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Implicit/algebraic ODEs, stiff IVP, full Jacobian (comprehensive)		D02NGF
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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, IVP, resets end of range for D02PDF		D02PWF
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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
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ODEs, IVP, Runge-Kutta-Merson method, until...		D02BHF
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ODEs, IVP, set-up for continuation calls to integrator,...		D02NZF
Second-order ODEs, IVP, set-up for D02LAF		D02LXF
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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
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ODEs, IVP, weighted norm of local error estimate for D02M-N routines		D02ZAF
...linear system, RGMRES, CGS or Bi-CGSTAB method, Jacobi or SSOR preconditioner (Black Box)		F11DEF
...system, RGMRES, CGS, Bi-CGSTAB or TFQMR method, Jacobi or SSOR preconditioner (Black Box)		F11DSF
...linear system, conjugate gradient/Lanczos method, Jacobi or SSOR preconditioner (Black Box)		F11JEF
...linear system, conjugate gradient/Lanczos method, Jacobi or SSOR preconditioner (Black Box)		F11JSF
Generate real Jacobi plane rotation		F06BEF

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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
ODEs, IVP, for use with D02M–N routines, sparse	Jacobian elliptic functions sn, cn and dn	S21CAF
ODEs, IVP, sparse	Jacobian , enquiry routine	D02NRF
ODEs, IVP, for use with D02M–N routines, full	Jacobian , linear algebra diagnostics, for use with D02M–N routines	D02NXF
ODEs, IVP, for use with D02M–N routines, banded	Jacobian , linear algebra set-up	D02NSF
ODEs, IVP, for use with D02M–N routines, sparse	Jacobian , linear algebra set-up	D02NTF
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Combined measurement and time update, one iteration of	Kalman filter , time-varying, square root covariance filter	G13EAF
	Computes Kaplan–Meier (product-limit) estimates of survival probabilities	G12AAF
	Bunch– Kaufman factorization of complex Hermitian indefinite matrix	F07MRF
	Bunch– Kaufman factorization of complex Hermitian indefinite matrix,...	F07PRF
	Bunch– Kaufman factorization of complex symmetric matrix	F07NRF
	Bunch– Kaufman factorization of complex symmetric matrix,...	F07QRF
	Bunch– Kaufman factorization of real symmetric indefinite matrix	F07MDF
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General system of first-order PDEs, coupled DAEs, method of lines,	Keller box discretisation , one space variable	D03PKF
General system of first-order PDEs, coupled DAEs, method of lines,	Keller box discretisation , remeshing, one space variable	D03PRF
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	Kelvin function ber x	S19AAF
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	Kendall's coefficient of concordance	G08DAF
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	Kendall/Spearman non-parametric rank correlation coefficients,...	G02BRF
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	Kernel density estimate using Gaussian kernel	G10BAF
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Least-squares surface fit by bicubic splines with automatic	knot placement , data on rectangular grid	E02DCF
Least-squares 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	G01EZF
Performs the two-sample	Kolmogorov–Smirnov test	G08CDF
Performs the one-sample	Kolmogorov–Smirnov test for a user-supplied distribution	G08CCF
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	Korobov optimal coefficients for use in D01GCF or D01GDF,...	D01GYF
	Korobov optimal coefficients for use in D01GCF or D01GDF,...	D01GZF
	Kruskal–Wallis one-way analysis of variance on k samples...	G08AFF
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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 value...	D02BGF
ODEs, IVP, Runge–	Kutta–Merson method, until function of solution is zero...	D02BHF
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...using rectangular, Bartlett, Tukey or Parzen	lag window	G13CCF
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...linear systems, pre-conditioned conjugate gradient or	Lanczos , threadsafe	F11GEF
...sparse symmetric linear system, conjugate gradient/	Lanczos method, Jacobi or SSOR preconditioner (Black Box)	F11JEF
...sparse Hermitian linear system, conjugate gradient/	Lanczos method, Jacobi or SSOR preconditioner (Black Box)	F11JSF
...sparse symmetric linear system, conjugate gradient/	Lanczos method, preconditioner computed by F11JAF (Black Box)	F11JCF
...sparse Hermitian linear system, conjugate gradient/	Lanczos method, preconditioner computed by F11JNF (Black Box)	F11JQF
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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, packed storage	F06UDF
1-norm, ∞ -norm, Frobenius norm,	largest absolute element, complex Hessenberg matrix	F06UMF
1-norm, ∞ -norm, Frobenius norm,	largest absolute element, complex symmetric band matrix	F06UHF
1-norm, ∞ -norm, Frobenius norm,	largest absolute element, complex symmetric matrix	F06UFF
1-norm, ∞ -norm, Frobenius norm,	largest absolute element, complex symmetric matrix, packed storage	F06UGF
1-norm, ∞ -norm, Frobenius norm,	largest absolute element, complex trapezoidal/triangular matrix	F06UJF
1-norm, ∞ -norm, Frobenius norm,	largest absolute element, complex triangular band matrix	F06ULF
1-norm, ∞ -norm, Frobenius norm,	largest absolute element, complex triangular matrix, packed storage	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 storage	F06RDF

1-norm, ∞ -norm, Frobenius norm, largest absolute element, real trapezoidal/triangular matrix	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, packed storage	F06RKF
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The largest positive model number	X02ALF
The largest representable integer	X02BBF
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Least-squares curve cubic spline fit (including interpolation)	E02BAF
Least-squares curve fit, by polynomials, arbitrary data points	E02ADF
Least-squares (if rank = n) or minimal least-squares ...	F04JGF
Least-squares (if rank < n) solution of m real equations...	F04JGF
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Least-squares polynomial fit, values and derivatives may be...	E02AGF
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Covariance matrix for linear least-squares problems, m real equations in n unknowns	F04YAF
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Least-squares solution of m real equations in n unknowns,...	F04AMF
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Computes Kaplan–Meier (product-limit) estimates of survival probabilities	G12AAF
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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
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...collocation and least-squares , single n th-order linear equation	D02JAF
...collocation and least-squares , system of first-order linear equations	D02JBF
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Solution of real tridiagonal simultaneous linear equations (coefficient matrix already factorized by F01LEF)	F04LEF
Solution of real almost block diagonal simultaneous linear equations (coefficient matrix already factorized by F01LHF)	F04LHF
...positive-definite variable-bandwidth simultaneous linear equations (coefficient matrix already factorized by F01MCF)	F04MCF
Solution of real symmetric positive-definite simultaneous linear equations (coefficient matrix already factorized by F03AEF)	F04AGF
Solution of real simultaneous linear equations (coefficient matrix already factorized by F03AFF)	F04AJF
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Refined solution with error bounds of complex system of linear equations, multiple right-hand sides	F07AVF
Refined solution with error bounds of real band system of linear equations, multiple right-hand sides	F07BHF
Refined solution with error bounds of complex band system of linear equations, multiple right-hand sides	F07BVF
...of real symmetric positive-definite system of linear equations, multiple right-hand sides	F07HHF
...complex Hermitian positive-definite system of linear equations, multiple right-hand sides	F07FVF
...real symmetric positive-definite band system of linear equations, multiple right-hand sides	F07HHF
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...bounds of complex Hermitian indefinite system of linear equations, multiple right-hand sides	F07MVF
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Solution of real system of linear equations, multiple right-hand sides,...	F07AEF
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Solution of real band system of linear equations, multiple right-hand sides,...	F07BEF
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Solution of real symmetric positive-definite system of linear equations, multiple right-hand sides,...	F07FEF
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Solution of real symmetric positive-definite system of linear equations, multiple right-hand sides,...	F07GEF
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Solution of complex Hermitian indefinite system of linear equations, multiple right-hand sides,...	F07MSF
Solution of real symmetric indefinite system of linear equations, multiple right-hand sides,...	F07NSF
Solution of complex Hermitian indefinite system of linear equations, multiple right-hand sides,...	F07PEF
Solution of real symmetric positive-definite system of linear equations, multiple right-hand sides,...	F07PSF
Solution of complex symmetric system of linear equations, multiple right-hand sides,...	F07QSF
...of real symmetric positive-definite system of linear equations, multiple right-hand sides, packed storage	F07GHF
...complex Hermitian positive-definite system of linear equations, multiple right-hand sides, packed storage	F07GVF
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Refined solution with error bounds of complex symmetric system of linear equations, multiple right-hand sides, packed storage	F07QVF
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Error bounds for solution of real triangular system of linear equations, multiple right-hand sides, packed storage	F07UHF
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Solution of real simultaneous linear equations, one right-hand side (Black Box)	F04ARF
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Solution of real symmetric positive-definite simultaneous linear equations, one right-hand side using iterative...	F04ASF
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L_∞ -approximation by general	linear function	E02GCF
L_1 -approximation by general	linear function subject to linear inequality constraints	E02GBF
L_1 -approximation by general linear function subject to	linear inequality constraints	E02GBF
Equality-constrained real	linear least-squares problem	F04JMF
Equality-constrained complex	linear least-squares problem	F04KMF
Convex QP problem or linearly-constrained	linear least-squares problem (dense)	E04NCF
Sparse	linear least-squares problem, m real equations in n unknowns	F04QAF
Covariance matrix for	linear least-squares problems, m real equations in n unknowns	F04YAF
Computes estimable function of a generalized	linear model and its standard error	G02GNF
Estimates and standard errors of parameters of a general	linear model for given constraints	G02GKF
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, second kind,...	D05ABF
	Linear non-singular Fredholm integral equation, second kind,...	D05AAF
n th-order	linear ODEs, boundary value problem, collocation and least-squares	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 constant term	G02CGF
Multiple	linear regression, from correlation-like coefficients, without constant...	G02CHF
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	G02DFF
Computes estimable function of a general	linear regression model and its standard error	G02DNF
Fits a	linear regression model by forward selection	G02EEF
Estimates 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
Service routines for multiple	linear regression, re-order elements of vectors and matrices	G02CFF
Service routines for multiple	linear regression, select elements from vectors and matrices	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 values	G02CBF
Computes residual sums of squares for all possible	linear regressions for a set of independent variables	G02EAF
Solution of complex sparse non-Hermitian	linear system, RGMRES, CGS, Bi-CGSTAB or TFQMR method,...	F11DSF
Solution of real sparse nonsymmetric	linear system, RGMRES, CGS or Bi-CGSTAB method,...	F11DEF
Solution of real sparse symmetric	linear system, conjugate gradient/Lanczos method,...	F11JEF
Solution of complex sparse Hermitian	linear system, conjugate gradient/Lanczos method,...	F11JSF
Solution of real sparse symmetric	linear system, conjugate gradient/Lanczos method,...	F11JCF
Solution of complex sparse Hermitian	linear system, conjugate gradient/Lanczos method,...	F11JQF
Solution of	linear system involving incomplete Cholesky preconditioning...	F11JBF
Solution of complex	linear system involving incomplete Cholesky preconditioning...	F11JPF
Solution of	linear system involving incomplete LU preconditioning...	F11DBF
Solution of complex	linear system involving incomplete LU preconditioning...	F11DPF
Solution of	linear system involving preconditioning matrix generated by...	F11JRF
Solution of	linear system involving preconditioning matrix generated by...	F11DRF
Solution of	linear system involving pre-conditioning matrix generated by...	F11DDF
Solution of	linear system involving preconditioning matrix generated by...	F11JDF
Solution of complex sparse non-Hermitian	linear system, RGMRES, CGS, Bi-CGSTAB or TFQMR method,...	F11DQF
Solution of real sparse nonsymmetric	linear system, RGMRES, CGS or Bi-CGSTAB method,...	F11DCF
Real sparse nonsymmetric	linear systems, diagnostic for F11BBF	F11BCF
Real sparse nonsymmetric	linear systems, diagnostic for F11BEF	F11BFF
Complex sparse non-Hermitian	linear systems, diagnostic for F11BSF	F11BTF
Real sparse symmetric	linear systems, diagnostic for F11GBF	F11GCF
Real sparse symmetric	linear systems, diagnostic for F11GEF	F11GFF
Real sparse nonsymmetric	linear systems, incomplete LU factorization	F11DAF
Complex sparse non-Hermitian	linear systems, incomplete LU factorization	F11DNF
Real sparse nonsymmetric	linear systems, line Jacobi preconditioner	F11DKF
Real sparse symmetric	linear systems, pre-conditioned conjugate gradient or Lanczos...	F11GBF
Real sparse symmetric	linear systems, pre-conditioned conjugate gradient or Lanczos,...	F11GEF
Real sparse nonsymmetric	linear systems, preconditioned RGMRES, CGS, Bi-CGSTAB...	F11BEF
Complex sparse non-Hermitian	linear systems, preconditioned RGMRES, CGS, Bi-CGSTAB...	F11BSF
Real sparse nonsymmetric	linear systems, preconditioned RGMRES, CGS or Bi-CGSTAB	F11BFF
Real sparse nonsymmetric	linear systems, set-up for F11BBF	F11BAF
Real sparse nonsymmetric	linear systems, set-up for F11BEF	F11BDF
Complex sparse non-Hermitian	linear systems, set-up for F11BSF	F11BRF
Real sparse symmetric	linear systems, set-up for F11GBF	F11GAF
Real sparse symmetric	linear systems, set-up for F11GEF	F11GDF
Convex QP problem or	linearly-constrained linear least-squares problem (dense)	E04NCF
	Lineprinter histogram of one variable	G01AJF
	Lineprinter scatterplot of one variable against Normal scores	G01AHF
	Lineprinter scatterplot of two variables	G01AGF
Least-squares surface fit by polynomials, data on	lines	E02CAF
General system of parabolic PDEs, coupled DAEs, method of	lines , Chebyshev C^0 collocation, one space variable	D03PDF
General system of parabolic PDEs, coupled DAEs, method of	lines , Chebyshev C^0 collocation, one space variable	D03PJF
General system of parabolic PDEs, method of	lines , finite differences, one space variable	D03PCF
General system of parabolic PDEs, coupled DAEs, method of	lines , finite differences, one space variable	D03PHF
General system of parabolic PDEs, coupled DAEs, method of	lines , finite differences, remeshing, one space variable	D03PPF
General system of second-order PDEs, method of	lines , finite differences, remeshing, two space variables,...	D03RAF
General system of second-order PDEs, method of	lines , finite differences, remeshing, two space variables,...	D03RBF
General system of first-order PDEs, method of	lines , Keller box discretisation, one space variable	D03PEF
General system of first-order PDEs, coupled DAEs, method of	lines , Keller box discretisation, one space variable	D03PKF
General system of first-order PDEs, coupled DAEs, method of	lines , Keller box discretisation, remeshing, one space variable	D03PRF
...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...	D03PLF
...in conservative form, coupled DAEs, method of	lines , upwind scheme using numerical flux function based on...	D03PSF
Generate real elementary reflection,	LINPACK style	F06FSF
Apply real elementary reflection,	LINPACK style	F06FUF
Second-order Sturm–Liouville problem, regular system, finite range, eigenvalue only		D02KAF
Second-order Sturm–Liouville problem, regular/singular system, finite/infinite range,...		D02KEF
Second-order Sturm–Liouville problem, regular/singular system, finite/infinite range,...		D02KDF
Computes orthogonal rotations for	loading matrix, generalized orthomax criterion	G03BAF
...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 functions	G07DBF

Robust estimation, M -estimates for	location and scale parameters, user-defined weight functions	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,	log-normal distribution	G05DEF
Computes upper and	lower tail probabilities and probability density function for...	G01EEF
Computes	lower tail probability for a linear combination of (central) χ^2 variables	G01JDF
	LP or QP problem (sparse)	E04NKF
Integer	LP or QP problem (sparse)	H02CEF
Converts MPSX data file defining	LP or QP problem to format required by E04NKF	E04MZF
	LP problem (dense)	E04MFF
Integer	LP problem (dense)	H02BBF
Interpret MPSX data file defining IP or	LP problem, optimize and print solution	H02BBF
Convert MPSX data file defining IP or	LP problem to format required by H02BBF or E04MFF	H02BUF
Print IP or	LP solutions with user specified names for rows and columns	H02BVF
Form all or part of orthogonal Q from	LQ factorization determined by F08AHF	F08AJF
Form all or part of unitary Q from	LQ factorization determined by F08AVF	F08AWF
	LQ factorization of complex general rectangular matrix	F08AVF
	LQ factorization of real general rectangular matrix	F08AHF
Real sparse nonsymmetric linear systems, incomplete	LU factorization	F11DAF
Complex sparse non-Hermitian linear systems, incomplete	LU factorization	F11DNF
	LU factorization and determinant of real matrix	F03AFF
	LU factorization of complex m by n band matrix	F07BRF
	LU factorization of complex m by n matrix	F07ARF
	LU factorization of real almost block diagonal matrix	F01LHF
	LU factorization of real m by n band matrix	F07BDF
	LU factorization of real m by n matrix	F07ADF
	LU factorization of real sparse matrix	F01BRF
	LU factorization of real sparse matrix with known sparsity pattern	F01BSF
	LU factorization of real tridiagonal matrix	F01LEF
Solution of linear system involving incomplete	LU preconditioning matrix generated by F11DAF	F11DBF
Solution of complex linear system involving incomplete	LU preconditioning matrix generated by F11DNF	F11DPF
	Machine Constants	X02
	The machine precision	X02AJF
Computes	Mahalanobis squared distances for group or pooled...	G03DBF
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
Computes	marginal tables for multiway table computed by G11BAF or G11BBF	G11BCF
Real general Gauss-	Markov linear model (including weighted least-squares)	F04JLF
Complex general Gauss-	Markov linear model (including weighted least-squares)	F04KLF
Performs the Wilcoxon one-sample	(matched pairs) signed rank test	G08AGF
Friedman two-way analysis of variance on k	matched samples	G08AEF
ODEs, boundary value problem, shooting and	matching , boundary values to be determined	D02HAF
ODEs, boundary value problem, shooting and	matching , general parameters to be determined	D02HBF
...shooting and matching technique, allowing interior	matching point, general parameters to be determined	D02AGF
ODEs, boundary value problem, shooting and	matching technique, allowing interior matching point,...	D02AGF
ODEs, boundary value problem, shooting and	matching technique, subject to extra algebraic equations,...	D02SAF
	Mathematical Constants	X01
	Maximization	E04/H02
Computes	maximum likelihood estimates for parameters of the Normal...	G07BBF
Computes	maximum likelihood estimates for parameters of the Weibull...	G07BEF
Computes	maximum likelihood estimates of the parameters of a factor...	G03CAF
The	maximum number of decimal digits that can be represented	X02BEF
Computes a trimmed and winsorized	mean of a single sample with estimates of their variance	G07DDF
Computes quantities needed for range-	mean or standard deviation-mean plot	G13AUF
Computes quantities needed for range-mean or standard deviation-	mean plot	G13AUF
	Mean , variance, skewness, kurtosis, etc, one variable,...	G01ADF
	Mean , variance, skewness, kurtosis, etc, one variable, from raw data	G01AAF
	Mean , variance, skewness, kurtosis, etc, two variables, from raw data	G01ABF
Computes sum of squares for contrast between	means	G04DAF
Analysis of variance, general row and column design, treatment	means and standard errors	G04BCF
...block or completely randomized design, treatment	means and standard errors	G04BBF
Analysis of variance, complete factorial design, treatment	means and standard errors	G04CAF
Computes t -test statistic for a difference in	means between two Normal populations, confidence interval	G07CAF
	K - means cluster analysis	G03EF
Computes confidence intervals for differences between	means computed by G04BBF or G04BCF	G04DBF
Combined	measurement and time update, one iteration of Kalman filter,...	G13EBF
Combined	measurement and time update, one iteration of Kalman filter,...	G13EAF
Robust estimation, median,	median absolute deviation, robust standard deviation	G07DAF
Computes a five-point summary	(median , hinges and extremes)	G01ALF
Robust estimation,	median , median absolute deviation, robust standard deviation	G07DAF
Compute smoothed data sequence using running	median smoothers	G10CAF
	Median test on two samples of unequal size	G08ACF
Computes Kaplan-	Meier (product-limit) estimates of survival probabilities	G12AAF
ODEs, IVP, Runge-Kutta-	Merson method, until a component attains given value (simple driver)	D02BGF
ODEs, IVP, Runge-Kutta-	Merson method, until function of solution is zero (simple driver)	D02BHF
Evaluation of fitted bicubic spline at a	mesh of points	E02DFF
Performs non-	metric (ordinal) multidimensional scaling	G03FCF
Performs principal co-ordinate analysis, classical	metric scaling	G03FAF
...integration of function defined by data values, Gill-	Miller method	D01GAF
Computes reciprocal of	Mills' Ratio	G01MBF
Least-squares (if rank = n) or	minimal least-squares (if rank < n) solution of m real equations...	F04JGF
	Minimal least-squares solution of m real equations in n unknowns,...	F04JAF
	Minimal least-squares solution of m real equations in n unknowns,...	F04JDF

	Minimax curve fit by polynomials	E02ACF
	Minimization	E04/H02
	Minimum, function of one variable, using first derivative	E04BBF
	Minimum, function of one variable using function values only	E04ABF
	Minimum, function of several variables, modified Newton algorithm,...	E04LBF
	Minimum, function of several variables, modified Newton algorithm,...	E04LYF
	Minimum, function of several variables, modified Newton algorithm,...	E04KDF
	Minimum, function of several variables, modified Newton algorithm,...	E04KZF
	Minimum, function of several variables, quasi-Newton algorithm,...	E04KYF
	Minimum, function of several variables, quasi-Newton algorithm,...	E04JYF
	Minimum, function of several variables, sequential QP method,...	E04UCF
	Minimum, function of several variables, sequential QP method,...	E04UUF
	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...	E04FCF
	Unconstrained minimum of a sum of squares, combined Gauss-Newton and...	E04FYF
	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...	E04GBF
	Unconstrained minimum of a sum of squares, combined Gauss-Newton and...	E04GYF
	Unconstrained Minimum of a sum of squares, nonlinear constraints,...	E04UNF
	Unconstrained minimum, pre-conditioned conjugate gradient algorithm,...	E04DGF
	Unconstrained minimum, simplex algorithm, function of several variables using...	E04CCF
	Computes probability for von Mises distribution	G01ERF
	Generates a vector of pseudo-random variates from von Mises distribution	G05FSF
Pearson product-moment 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
Correlation-like 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
...coefficients, subset of variables, casewise treatment of	missing values	G02BHF
...coefficients, subset of variables, pairwise treatment of	missing values	G02BJF
Correlation-like 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
...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
Kendall/Spearman non-parametric rank correlation coefficients, no	missing values, overwriting input data	G02BNF
...correlation coefficients, casewise treatment of	missing values, overwriting input data	G02BPF
Kendall/Spearman non-parametric rank correlation coefficients, no	missing values, preserving input data	G02BQF
...correlation coefficients, casewise treatment of	missing values, preserving input data	G02BRF
	model	G02DAF
Add/delete an observation to/from a general linear regression	model	G02DCF
...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	G02DFE
Set up reference vector for univariate ARMA time series	model	G05EGF
Generate next term from reference vector for ARMA time series	model	G05EWF
Generates a realisation of a multivariate time series from a VARMA	model	G05HDF
Fits Cox's proportional hazard	model	G12BAF
Univariate time series, preliminary estimation, seasonal ARIMA	model	G13ADF
...forecasts, from fully specified seasonal ARIMA	model	G13AJF
Multivariate time series, filtering (pre-whitening) by an ARIMA	model	G13BAF
Multivariate time series, filtering by a transfer function	model	G13BBF
Multivariate time 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
Multivariate time series, forecasting from state set of multi-input	model	G13BHF
...and forecasts from fully specified multi-input	model	G13BJF
Multivariate time series, estimation of VARMA	model	G13DCF
Computes 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
...estimates of the parameters of a factor analysis	model , factor loadings, communalities and residual correlations	G03CAF
Contingency table, latent variable	model for binary data	G11SAF
Creates the risk sets associated with the Cox proportional hazards	model for fixed covariates	G12ZAF
...of parameters of a general linear regression	model for given constraints	G02DKF
Estimates 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
Estimates of linear parameters and general linear regression	model from updated model	G02DDF
Real general Gauss-Markov linear	model (including weighted least-squares)	F04JLF
Complex general Gauss-Markov linear	model (including weighted least-squares)	F04KLF
The smallest positive	model number	X02AKF
The largest positive	model number	X02ALF
The floating-point	model parameter, b	X02BHF
The floating-point	model parameter e_{\max}	X02BLF
The floating-point	model parameter e_{\min}	X02BKF
The floating-point	model parameter, p	X02BJF
The floating-point	model parameter 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 $e^{- x }I_1(x)$	S18CFE
	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 $a \geq 0$,...	S18DEF
	Modified Bessel functions $K_{\nu+a}(z)$, real $a \geq 0$,...	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 first and...	E04LBF
Minimum, function of several variables,	modified Newton algorithm, simple bounds, using first and...	E04LYF
Minimum, function of several variables,	modified Newton algorithm, simple bounds, using first derivatives...	E04KDF
Minimum, function of several variables,	modified Newton algorithm, simple bounds, using first derivatives...	E04KZF
...a sum of squares, combined Gauss-Newton and	modified Newton algorithm using first derivatives (comprehensive)	E04GDF
...a sum of squares, combined Gauss-Newton and	modified Newton algorithm using first derivatives (easy-to-use)	E04GZF
...a sum of squares, combined Gauss-Newton and	modified Newton algorithm using function values only (comprehensive)	E04FCF

...a sum of squares, combined Gauss–Newton and	modified Newton algorithm using function values only (easy-to-use)	E04FYF
...a sum of squares, combined Gauss–Newton and	modified Newton algorithm, using second derivatives (comprehensive)	E04HEF
...a sum of squares, combined Gauss–Newton and	modified Newton algorithm, using second derivatives (easy-to-use)	E04HYF
Interpolating functions,	modified Shepard's method, two variables	E01SEF
Interpolating functions,	modified Shepard's method, two variables	E01SGF
Inverse Laplace transform,	modified Weeks' method	C06LBF
	Modulus of complex number	A02ABF
...equations by SIP, five-point two-dimensional	molecule , iterate to convergence	D03EBF
...equations by SIP for seven-point three-dimensional	molecule , iterate to convergence	D03ECF
...equations by SIP, five-point two-dimensional	molecule , one iteration	D03UAF
...equations by SIP, seven-point three-dimensional	molecule , one iteration	D03UBF
	Pearson product- moment correlation coefficients, all variables, casewise...	G02BBF
	Pearson product- moment correlation coefficients, all variables, no missing values	G02BAF
	Pearson product- moment correlation coefficients, all variables, pairwise...	G02BCF
	Pearson product- moment correlation coefficients, subset of variables, casewise...	G02BHF
	Pearson product- moment correlation coefficients, subset of variables, no missing values	G02BGF
	Pearson product- moment correlation coefficients, subset of variables, pairwise...	G02BJF
	Cumulants and moments of quadratic forms in Normal variables	G01NAF
	Moments of ratios of quadratic forms in Normal variables,...	G01NBF
	Interpolating functions, monotonicity-preserving , piecewise cubic Hermite, one variable	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 print...	H02BBF
	Convert MPSX data file defining IP or LP problem to format required by...	H02BUF
	Converts MPSX data file defining LP or QP problem to format required...	E04MZF
	Multi-dimensional adaptive quadrature over hyper-rectangle	D01FCF
	Multi-dimensional adaptive quadrature over hyper-rectangle,...	D01EAF
	Multi-dimensional complex discrete Fourier transform of...	C06FJF
	Multi-dimensional complex discrete Fourier transform of...	C06PJF
	Multi-dimensional data	C06FFJ
	Multi-dimensional data	C06JFJ
	Multi-dimensional data (using complex data type)	C06PFJ
	Multi-dimensional data (using complex data type)	C06PJF
	Multi-dimensional Gaussian quadrature over hyper-rectangle	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, allowing for...	D01JAF
	Multi-dimensional quadrature over hyper-rectangle, Monte Carlo...	D01GBF
	Multi-dimensional quadrature, Sag–Szekeres method,...	D01DFD
Elliptic PDE, solution of finite difference equations by a	multigrid technique	D03EDF
	Multivariate time series, estimation of multi-input model	G13BEF
Multivariate time series, update state set for forecasting from	multi-input model	G13BGF
Multivariate time series, forecasting from state set of	multi-input model	G13BHF
Multivariate time series, state set and forecasts from fully specified	multi-input model	G13BJF
	Complex conjugate of multiple Hermitian sequences	C06GQF
Multi-dimensional adaptive quadrature over hyper-rectangle,	multiple integrands	D01EAF
	Multiple linear regression, from correlation coefficients,...	G02CGF
	Multiple linear regression, from correlation-like coefficients,...	G02CHF
	Fits a general (multiple) linear regression model	G02DAF
Service routines for	multiple linear regression, re-order elements of vectors and matrices	G02CFF
Service routines for	multiple linear regression, select elements from vectors and matrices	G02CEF
	Multiple one-dimensional complex discrete Fourier transforms	C06FRF
	Multiple one-dimensional complex discrete Fourier transforms...	C06PRF
	Multiple one-dimensional complex discrete Fourier transforms...	C06PSF
	Multiple one-dimensional Hermitian discrete Fourier transforms	C06FQF
	Multiple one-dimensional real and Hermitian complex...	C06PPF
	Multiple one-dimensional real and Hermitian complex...	C06PQF
	Multiple one-dimensional real discrete Fourier transforms	C06FPF
	Multiple right-hand sides	F07AHF
...error bounds of real system of linear equations,	multiple right-hand sides	F07AVF
...bounds of complex system of linear equations,	multiple right-hand sides	F07BHF
...bounds of real band system of linear equations,	multiple right-hand sides	F07BHF
...bounds of complex band system of linear equations,	multiple right-hand sides	F07BVF
...positive-definite system of linear equations,	multiple right-hand sides	F07FHF
...positive-definite system of linear equations,	multiple right-hand sides	F07FVF
...positive-definite band system of linear equations,	multiple right-hand sides	F07THF
...positive-definite band system of linear equations,	multiple right-hand sides	F07HVF
...symmetric indefinite system of linear equations,	multiple right-hand sides	F07MHF
...Hermitian indefinite system of linear equations,	multiple right-hand sides	F07MHF
...complex symmetric system of linear equations,	multiple right-hand sides	F07NVF
Solution of real triangular system of linear equations,	multiple right-hand sides	F07TEF
...of real triangular system of linear equations,	multiple right-hand sides	F07THF
Solution of complex triangular system of linear equations,	multiple right-hand sides	F07TSF
...complex triangular system of linear equations,	multiple right-hand sides	F07TSF
Solution of real band triangular system of linear equations,	multiple right-hand sides	F07TVF
...real band triangular system of linear equations,	multiple right-hand sides	F07VEF
Solution of complex band triangular system of linear equations,	multiple right-hand sides	F07VHF
...complex band triangular system of linear equations,	multiple right-hand sides	F07VSF
...complex band triangular system of linear equations,	multiple right-hand sides	F07VVF
Solution of real simultaneous linear equations with	multiple right-hand sides (Black Box)	F04AAF
...positive-definite 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
	Solves system of equations with multiple right-hand sides, complex triangular coefficient matrix	F06ZJF
Solution of real system of linear equations,	multiple right-hand sides, matrix already factorized by	F07ADF
Solution of complex system of linear equations,	multiple right-hand sides, matrix already factorized by	F07ARF
Solution of real band system of linear equations,	multiple right-hand sides, matrix already factorized by	F07BDF
Solution of complex band system of linear equations,	multiple right-hand sides, matrix already factorized by	F07BRF
...positive-definite system of linear equations,	multiple right-hand sides, matrix already factorized by	F07PDF
...positive-definite system of linear equations,	multiple right-hand sides, matrix already factorized by	F07PRF
...positive-definite system of linear equations,	multiple right-hand sides, matrix already factorized by	F07GRF,...
...positive-definite system of linear equations,	multiple right-hand sides, matrix already factorized by	F07GRF,...
...positive-definite band system of linear equations,	multiple right-hand sides, matrix already factorized by	F07HDF
...positive-definite band system of linear equations,	multiple right-hand sides, matrix already factorized by	F07HRF
Solution of real symmetric indefinite system of linear equations,	multiple right-hand sides, matrix already factorized by	F07MDF
...Hermitian indefinite system of linear equations,	multiple right-hand sides, matrix already factorized by	F07MRF
Solution of complex symmetric system of linear equations,	multiple right-hand sides, matrix already factorized by	F07NRF
Solution of real symmetric indefinite system of linear equations,	multiple right-hand sides, matrix already factorized by	F07PDF,...
...Hermitian indefinite system of linear equations,	multiple right-hand sides, matrix already factorized by	F07PRF,...
Solution of complex symmetric system of linear equations,	multiple right-hand sides, matrix already factorized by	F07QRF,...
...positive-definite system of linear equations,	multiple right-hand sides, packed storage	F07GHF
...positive-definite system of linear equations,	multiple right-hand sides, packed storage	F07GVF
...symmetric indefinite system of linear equations,	multiple right-hand sides, packed storage	F07PHF
...Hermitian indefinite system of linear equations,	multiple right-hand sides, packed storage	F07PVF
...complex symmetric system of linear equations,	multiple right-hand sides, packed storage	F07QVF

Solution of real triangular system of linear equations, ...of real triangular system of linear equations,	multiple right-hand sides, packed storage	F07UEF
Solution of complex triangular system of linear equations, ...complex triangular system of linear equations,	multiple right-hand sides, packed storage	F07UHF
Solves system of equations with	multiple right-hand sides, real triangular coefficient matrix	F07USF
...positive-definite simultaneous linear equations with	multiple right-hand sides using iterative refinement (Black Box)	F07UVF
Solution of real simultaneous linear equations with	multiple right-hand sides using iterative refinement (Black Box)	F06YJF
Multivariate time series,	multiple squared partial autocorrelations	F04ABF
		F04AEF
		G13DBF
	Matrix multiplication	F01CKF
Real sparse nonsymmetric matrix vector	multiply	F11XAF
Real sparse symmetric matrix vector	multiply	F11XEF
Complex sparse non-Hermitian matrix vector	multiply	F11XNF
Complex sparse Hermitian matrix vector	multiply	F11XSF
	Multiply complex vector by complex diagonal matrix	F06HCF
	Multiply complex vector by complex scalar	F06GDF
	Multiply complex vector by complex scalar, preserving input vector	F06HDF
	Multiply complex vector by real diagonal matrix	F06KCF
	Multiply complex vector by real scalar	F06JDF
	Multiply complex vector by real scalar, preserving input vector	F06KDF
	Multiply real vector by diagonal matrix	F06FCF
	Multiply real vector by scalar	F06EDF
	Multiply real vector by scalar, preserving input vector	F06FDF
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 residuals,...	G13DSF
	Multivariate time series, differences and/or transforms...	G13DLF
	Multivariate time series, estimation of multi-input model	G13BEF
	Multivariate time series, estimation of VARMA model	G13DCF
	Multivariate time series, filtering by a transfer function model	G13BBF
	Multivariate time series, filtering (pre-whitening) by an ARIMA...	G13BAF
	Multivariate time series, forecasting from state set of multi-input...	G13BHF
	Multivariate time series, forecasts and their standard errors	G13DJF
Generates a realisation of a	multivariate time series from a VARMA model	G05HDF
	Multivariate time series, gain, phase, bounds, univariate and...	G13CFE
	Multivariate time series, multiple squared partial autocorrelations	G13DBF
	Multivariate time series, noise spectrum, bounds,...	G13CGF
	Multivariate time series, partial autoregression matrices	G13DPF
	Multivariate time series, preliminary estimation of...	G13BDF
	Multivariate time series, sample cross-correlation or...	G13DMF
	Multivariate time series, sample partial lag correlation matrices,...	G13DNF
	Multivariate time series, smoothed sample cross spectrum using...	G13CCF
	Multivariate time series, smoothed sample cross spectrum using...	G13CDF
	Multivariate time series, state set and forecasts from...	G13BJF
	Multivariate time series, update state set for forecasting from...	G13BGF
	Multivariate time series, updates forecasts and their standard errors	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
Set up 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 first and...		E04LBF
Minimum, function of several variables, modified Newton algorithm, simple bounds, using first and...		E04LYF
Minimum, function of several variables, modified Newton algorithm, simple bounds, using first derivatives...		E04KDF
Minimum, function of several variables, quasi- Newton algorithm, simple bounds, using first derivatives (easy-to-use)		E04KYF
Minimum, function of several variables, modified Newton algorithm, simple bounds, using first derivatives (easy-to-use)		E04KZF
Minimum, function of several variables, quasi- Newton algorithm, simple bounds, using function values only...		E04JYF
...of squares, combined Gauss-Newton and modified Newton algorithm using first derivatives (comprehensive)		E04GBF
...squares, combined Gauss-Newton and modified Newton algorithm using first derivatives (comprehensive)		E04GDF
...of squares, combined Gauss-Newton and modified Newton algorithm, using first derivatives (easy-to-use)		E04GYF
...squares, combined Gauss-Newton and modified Newton algorithm using first derivatives (easy-to-use)		E04GZF
...squares, combined Gauss-Newton and modified Newton algorithm using function values only (comprehensive)		E04FCF
...squares, combined Gauss-Newton and modified Newton algorithm using function values only (easy-to-use)		E04FYF
...squares, combined Gauss-Newton and modified Newton algorithm, using second derivatives (comprehensive)		E04HEF
...squares, combined Gauss-Newton and modified Newton algorithm, using second derivatives (easy-to-use)		E04HYF
Unconstrained minimum of a sum of squares, combined Gauss-Newton and modified Newton algorithm using...		E04GDF
Unconstrained minimum of a sum of squares, combined Gauss-Newton and modified Newton algorithm using...		E04GZF
Unconstrained minimum of a sum of squares, combined Gauss-Newton and modified Newton algorithm using function values only...		E04FCF
Unconstrained minimum of a sum of squares, combined Gauss-Newton and modified Newton algorithm using function values only...		E04FYF
Unconstrained minimum of a sum of squares, combined Gauss-Newton and modified Newton algorithm, using second derivatives...		E04HEF
Unconstrained minimum of a sum of squares, combined Gauss-Newton and modified Newton algorithm, using second derivatives...		E04HYF
Unconstrained minimum of a sum of squares, combined Gauss-Newton and quasi-Newton algorithm using first derivatives...		E04GBF
Unconstrained minimum of a sum of squares, combined Gauss-Newton and quasi-Newton algorithm, using first derivatives...		E04GYF
	NLP problem (sparse)	E04UGF
Multivariate time series, noise spectrum, bounds, impulse response function and...		G13CGF
One-dimensional quadrature, non-adaptive , finite interval		D01BDF
One-dimensional quadrature, non-adaptive , finite interval with provision for indefinite integrals		D01ARF
Computes probabilities for the	non-central beta distribution	G01GEF
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 Student's t -distribution	G01GBF
Solution of complex sparse	non-Hermitian linear system, RGMRES, CGS, Bi-CGSTAB or...	F11DSF
Solution of complex sparse	non-Hermitian linear system, RGMRES, CGS, Bi-CGSTAB or...	F11DQF
Complex sparse	non-Hermitian linear systems, diagnostic for F11BSF	F11BTF
Complex sparse	non-Hermitian linear systems, incomplete LU factorization	F11DNF
Complex sparse	non-Hermitian linear systems, preconditioned RGMRES, CGS,...	F11BSF
Complex sparse	non-Hermitian linear systems, set-up for F11BSF	F11BRF
...generated by applying SSOR to complex sparse	non-Hermitian matrix	F11DRF
Complex sparse	non-Hermitian matrix reorder routine	F11ZNF
Complex sparse	non-Hermitian matrix vector multiply	F11XNF
ODEs, general	nonlinear boundary value problem, collocation technique	D02TKF
ODEs, general	nonlinear boundary value problem, continuation facility for D02TKF	D02TXF
ODEs, general	nonlinear boundary value problem, diagnostics for D02TKF	D02TZF
ODEs, general	nonlinear boundary value problem, finite difference technique...	D02RAF
ODEs, general	nonlinear boundary value problem, interpolation for D02TKF	D02TYF
ODEs, general	nonlinear boundary value problem, set-up for D02TKF	D02TVF
Minimum of a sum of squares, nonlinear constraints, sequential QP method, using function values...		E04UNF

Minimum, function of several variables, sequential QP method,	nonlinear constraints, using function values and...	E04UCF
Minimum, function of several variables, sequential QP method,	nonlinear constraints, using function values and...	E04UFF
	Nonlinear convolution Volterra–Abel equation, first kind,...	D05BEF
	Nonlinear convolution Volterra–Abel equation, second...	D05BDF
Solution of system of	nonlinear equations using first derivatives (comprehensive)	C05PCF
Solution of system of	nonlinear equations using first derivatives (easy-to-use)	C05PBF
Solution of system of	nonlinear equations using first derivatives (reverse communication)	C05PDF
Solution of system of	nonlinear equations using function values only (comprehensive)	C05NCF
Solution of system of	nonlinear equations using function values only (easy-to-use)	C05NBF
Solution of system of	nonlinear equations using function values only (reverse...	C05NDF
Covariance matrix for	nonlinear least-squares problem (unconstrained)	E04YCF
	Nonlinear optimization	E04
...difference technique with deferred correction, simple	nonlinear problem	D02GAF
	Nonlinear regression	E04
	Nonlinear Volterra convolution equation, second 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 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
	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, second kind, smooth kernel	D05ABF
	Linear non-singular Fredholm integral equation, second kind, split kernel	D05AAF
Solution of real sparse	nonsymmetric linear system, RGMRES, CGS or...	F11DEF
Solution of real sparse	nonsymmetric linear system, RGMRES, CGS or...	F11DCF
Real sparse	nonsymmetric linear systems, diagnostic for F11BBF	F11BCF
Real sparse	nonsymmetric linear systems, diagnostic for F11BEF	F11BFF
Real sparse	nonsymmetric linear systems, incomplete LU factorization	F11DAF
Real sparse	nonsymmetric linear systems, line Jacobi preconditioner	F11DKF
Real sparse	nonsymmetric linear systems, preconditioned RGMRES, CGS,...	F11BEF
Real sparse	nonsymmetric linear systems, preconditioned RGMRES, CGS or...	F11BBF
Real sparse	nonsymmetric linear systems, set-up for F11BBF	F11BAF
Real sparse	nonsymmetric linear systems, set-up for F11BEF	F11BDF
...matrix generated by applying SSOR to real sparse	nonsymmetric matrix	F11DDF
Real sparse	nonsymmetric matrix reorder routine	F11ZAF
Real sparse	nonsymmetric matrix vector multiply	F11XAF
	Norm estimation (for use in condition estimation), complex matrix	F04ZCF
	Norm estimation (for use in condition estimation), real matrix	F04YCF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element, complex band...	F06UBF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element, complex general...	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
1-norm, ∞ -norm, Frobenius	norm , largest absolute element, real...	F06BMF
Compute Euclidean	norm from scaled form	F06UBF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element,...	F06UAF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element,...	F06UEF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element,...	F06UCF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element,...	F06UDF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element,...	F06UMF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element,...	F06UHF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element,...	F06UFF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element,...	F06UGF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element,...	F06UJF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element,...	F06ULF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element,...	F06UKF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element,...	F06RBF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element,...	F06RAF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element,...	F06RMF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element,...	F06REF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element,...	F06RCF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element,...	F06RDF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element,...	F06RJF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element,...	F06RLF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element,...	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 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
1-norm, ∞ -norm, Frobenius	norm , largest absolute element, complex Hessenberg matrix	F06UMF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element, complex symmetric band matrix	F06UHF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element, complex symmetric matrix	F06UFF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element, complex symmetric matrix,...	F06UGF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element, complex trapezoidal/triangular matrix	F06UJF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element, complex triangular band matrix	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 storage	F06RDF
1-norm, ∞ -norm, Frobenius	norm , largest absolute element, real trapezoidal/triangular matrix	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, packed storage	F06RKF
Compute Euclidean	norm of complex vector	F06JFF
Update Euclidean	norm of complex vector in scaled form	F06KJF

ODEs, IVP, weighted	norm of local error estimate for D02M–N routines	D02ZAF
Compute Euclidean	norm of real vector	F06EJF
Compute weighted Euclidean	norm of real vector	F06FKF
Update Euclidean	norm of real vector in scaled form	F06FJF
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	G05EAF
Computes 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
Fits a generalized linear model with	Normal errors	G02GAF
Computes t -test statistic for a difference in means between two	Normal populations, confidence interval	G07CAF
Lineprinter scatterplot of one variable against	Normal scores	G01AHF
	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
Ranks, Normal scores, approximate	Normal scores or exponential (Savage) scores	G01DHF
Cumulants and moments of quadratic forms in	Normal variables	G01NAF
Moments of ratios of quadratic forms in	Normal variables, and related statistics	G01NBF
Pseudo-random multivariate	Normal vector from reference vector	G05EZF
Shapiro and Wilk's W test for	Normality	G01DDF
	Numerical differentiation, derivatives up to order 14,...	D04AAF
Estimate (using	numerical differentiation) gradient and/or Hessian of a function	E04XAF
...conservative form, method of lines, upwind scheme using	numerical flux function based on Riemann solver, one space variable	D03PPF
...coupled DAEs, method of lines, upwind scheme using	numerical flux function based on Riemann solver, one space variable	D03PLF
...coupled DAEs, method of lines, upwind scheme using	numerical flux function based on Riemann solver, remeshing,...	D03PSF
	Numerical integration	D01
Second-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...	G03DCF
n th-order linear	ODEs , boundary value problem, collocation and least-squares	D02TGF
	ODEs , boundary value problem, collocation and least-squares,...	D02JAF
	ODEs , boundary value problem, collocation and least-squares,...	D02JBF
	ODEs , boundary value problem, finite difference technique...	D02GBF
	ODEs , boundary value problem, finite difference technique...	D02GAF
	ODEs , boundary value problem, shooting and matching,...	D02HAF
	ODEs , boundary value problem, shooting and matching,...	D02HBF
	ODEs , boundary value problem, shooting and matching technique,...	D02AGF
	ODEs , boundary value problem, shooting and matching technique,...	D02SAF
	ODEs , general nonlinear boundary value problem,...	D02TKF
	ODEs , general nonlinear boundary value problem,...	D02XF
	ODEs , general nonlinear boundary value problem,...	D02ZF
	ODEs , general nonlinear boundary value problem,...	D02RAF
	ODEs , general nonlinear boundary value problem,...	D02TYF
	ODEs , general nonlinear boundary value problem,...	D02TVF
	ODEs , IVP, Adams method, until function of solution is zero,...	D02CJF
	ODEs , IVP, Adams method with root-finding,...	D02QFF
	ODEs , IVP, Adams method with root-finding,...	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
Second-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,...	D02NTF
	ODEs , IVP, for use with D02M–N routines,...	D02NSF
	ODEs , IVP, for use with D02M–N routines,...	D02NRF
	ODEs , IVP, for use with D02M–N routines,...	D02NUF
	ODEs , IVP, integration diagnostics for D02PCF and D02PDF	D02PYF
	ODEs , IVP, integrator diagnostics, for use with D02M–N routines	D02NYF
Second-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 , IVP, resets end of range for D02PDF	D02PWF
	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 output	D02PCF
	ODEs , IVP, Runge–Kutta method, until function...	D02BJF
	ODEs , IVP, Runge–Kutta–Merson method, until...	D02BGF
	ODEs , IVP, Runge–Kutta–Merson method, until...	D02BHF
Second-order	ODEs , IVP, Runge–Kutta–Nystrom method	D02LAF
	ODEs , IVP, set-up for continuation calls to integrator,...	D02NZF
Second-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 D02M–N...	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 is zero,...	D02EJF
Explicit	ODEs , stiff IVP, full Jacobian (comprehensive)	D02NBF
Implicit/algebraic	ODEs , stiff IVP, full Jacobian (comprehensive)	D02NGF
	ODEs , stiff IVP (reverse communication, comprehensive)	D02NMF
Implicit/algebraic	ODEs , stiff IVP (reverse communication, comprehensive)	D02NNF
	ODEs , stiff IVP, sparse Jacobian (comprehensive)	D02NDF
Implicit/algebraic	ODEs , stiff IVP, sparse Jacobian (comprehensive)	D02NJF
Single	one-dimensional complex discrete Fourier transform,...	C06PCF
Single	one-dimensional complex discrete Fourier transform, extra...	C06FCF
Single	one-dimensional complex discrete Fourier transform, no extra...	C06ECF
	One-dimensional complex discrete Fourier transform of...	C06FFF
	One-dimensional complex discrete Fourier transform of...	C06PFF
Multiple	one-dimensional complex discrete Fourier transforms	C06FRF
Multiple	one-dimensional complex discrete Fourier transforms using...	C06PRF
Multiple	one-dimensional complex discrete Fourier transforms using...	C06PSF
	One-dimensional Gaussian quadrature	D01BAF
Single	one-dimensional Hermitian discrete Fourier transform, extra...	C06BFF
Single	one-dimensional Hermitian discrete Fourier transform, no extra...	C06EBF
Multiple	one-dimensional Hermitian discrete Fourier transforms	C06FQF

		One-dimensional quadrature, adaptive, finite interval,...	D01ALF
		One-dimensional quadrature, adaptive, finite interval,...	D01AKF
		One-dimensional quadrature, adaptive, finite interval,...	D01AHF
		One-dimensional quadrature, adaptive, finite interval,...	D01AJF
		One-dimensional quadrature, adaptive, finite interval,...	D01ATF
		One-dimensional quadrature, adaptive, finite interval,...	D01AUF
		One-dimensional quadrature, adaptive, finite interval,...	D01AQF
		One-dimensional quadrature, adaptive, finite interval,...	D01ANF
		One-dimensional quadrature, adaptive, finite interval,...	D01APF
		One-dimensional quadrature, adaptive, infinite or semi-infinite...	D01AMF
		One-dimensional quadrature, adaptive, semi-infinite interval,...	D01ASF
		One-dimensional quadrature, integration of function defined by...	D01GAF
		One-dimensional quadrature, non-adaptive, finite interval	D01BDF
		One-dimensional quadrature, non-adaptive, finite interval with...	D01ARF
	Single	one-dimensional real and Hermitian complex discrete Fourier...	C06PAF
	Multiple	one-dimensional real and Hermitian complex discrete Fourier...	C06PPF
	Multiple	one-dimensional real and Hermitian complex discrete Fourier...	C06PQF
	Single	one-dimensional real discrete Fourier transform, extra workspace...	C06FAF
	Single	one-dimensional real discrete Fourier transform, no extra workspace	C06EAF
	Multiple	one-dimensional real discrete Fourier transforms	C06FPF
	Computes probabilities for the	one-sample Kolmogorov–Smirnov distribution	G01EYF
	Performs the	one-sample Kolmogorov–Smirnov test for a user-supplied distribution	G08CCF
	Performs the	one-sample Kolmogorov–Smirnov test for standard distributions	G08CBF
	Performs the Wilcoxon	one-sample (matched pairs) signed rank test	G08AGF
	Kruskal–Wallis	one-way analysis of variance on k samples of unequal size	G08AFF
		Open unit number for reading, writing or appending,...	X04ACF
		Operations Research	H
		Operations with orthogonal matrices, form rows of Q ,...	F01QKF
		Operations with unitary matrices, form rows of Q ,...	F01RKF
Calculates the zeros of a vector autoregressive (or moving average)	operator		G13DXF
	Korobov	optimal coefficients for use in D01GCF or D01GDF,...	D01GYF
	Korobov	optimal coefficients for use in D01GCF or D01GDF,...	D01GZF
	Nonlinear	optimization	E04
		Order statistics	G01D
	Reorder data to give	ordered distinct observations	G10ZAF
	Performs non-metric (ordinal) multidimensional scaling		G03FCF
	Operations with	orthogonal matrices, form rows of Q ,...	F01QKF
	Computes random	orthogonal matrix	G05GAF
	Computes	orthogonal polynomials or dummy variables for...	G04EAF
	Form all or part of	orthogonal Q from LQ factorization determined by F08AHF	F08AJF
	Form all or part of	orthogonal Q from QR factorization determined by F08AEF or...	F08AFF
		Orthogonal reduction of real general matrix to upper Hessenberg form	F08NEF
		Orthogonal reduction of real general rectangular matrix to...	F08KEF
		Orthogonal reduction of real symmetric band matrix to...	F08HEF
		Orthogonal reduction of real symmetric matrix to...	F08FEF
		Orthogonal reduction of real symmetric matrix to...	F08GEF
	Computes	orthogonal rotations for loading matrix,...	G03BAF
Reorder Schur factorization of real matrix using	orthogonal similarity transformation		F08QFF
		Orthogonal similarity transformation of real symmetric matrix as...	F06QMF
	Apply	orthogonal transformation determined by F08AEF or F08BEF	F08AGF
	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
	Generate	orthogonal transformation matrix from reduction to...	F08FFF
	Generate	orthogonal transformation matrix from reduction to...	F08GFF
	Apply	orthogonal transformations from reduction to bidiagonal form...	F08KGF
	Gram–Schmidt	orthogonalisation of n vectors of order m	F05AAF
Computes 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 real	packed banded matrix (comprehensive)	X04CFF
	Print complex	packed banded matrix (comprehensive)	X04DFF
	Print real	packed banded matrix (easy-to-use)	X04CEF
	Print complex	packed banded matrix (easy-to-use)	X04DEF
	Matrix-vector product, real symmetric	packed matrix	F06PEF
	Matrix-vector product, real triangular	packed matrix	F06PHF
	System of equations, real triangular	packed matrix	F06PLF
	Rank-1 update, real symmetric	packed matrix	F06PQF
	Rank-2 update, real symmetric	packed matrix	F06PSF
	Matrix-vector product, complex Hermitian	packed matrix	F06SEF
	Matrix-vector product, complex triangular	packed matrix	F06SHF
	System of equations, complex triangular	packed matrix	F06SLF
	Rank-1 update, complex Hermitian	packed matrix	F06SQF
	Rank-2 update, complex Hermitian	packed matrix	F06SSF
	...largest absolute element, real symmetric matrix,	packed storage	F06RDF
	...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
	...absolute element, complex triangular matrix,	packed storage	F06UKF
Cholesky factorization of real symmetric positive-definite matrix,	packed storage		F07GDF
...right-hand sides, matrix already factorized by F07GDF,	packed storage		F07GEF
...matrix, matrix already factorized by F07GDF,	packed storage		F07GGF
...linear equations, multiple right-hand sides,	packed storage		F07GHF
...matrix, matrix already factorized by F07GDF,	packed storage		F07GJF
...of complex Hermitian positive-definite matrix,	packed storage		F07GRF
...right-hand sides, matrix already factorized by F07GRF,	packed storage		F07GSF
...matrix, matrix already factorized by F07GRF,	packed storage		F07GUF
...linear equations, multiple right-hand sides,	packed storage		F07GVF
...matrix, matrix already factorized by F07GRF,	packed storage		F07GWF
Bunch–Kaufman factorization of real symmetric indefinite matrix,	packed storage		F07PDF

...right-hand sides, matrix already factorized by F07PDF,	packed storage	F07PEF
...matrix, matrix already factorized by F07PDF,	packed storage	F07PGF
...linear equations, multiple right-hand sides,	packed storage	F07PHF
...matrix, matrix already factorized by F07PDF,	packed storage	F07PJF
...factorization of complex Hermitian indefinite matrix,	packed storage	F07PRF
...right-hand sides, matrix already factorized by F07PRF,	packed storage	F07PSF
...matrix, matrix already factorized by F07PRF,	packed storage	F07PUF
...linear equations, multiple right-hand sides,	packed storage	F07PVF
...matrix, matrix already factorized by F07PRF,	packed storage	F07PWF
Bunch–Kaufman factorization of complex symmetric matrix,	packed storage	F07QRF
...right-hand sides, matrix already factorized by F07QRF,	packed storage	F07QSF
...matrix, matrix already factorized by F07QRF,	packed storage	F07QUF
...linear equations, multiple right-hand sides,	packed storage	F07QVF
...matrix, matrix already factorized by F07QRF,	packed storage	F07QWF
...linear equations, multiple right-hand sides,	packed storage	F07UEF
Estimate condition number of real triangular matrix,	packed storage	F07UGF
...linear equations, multiple right-hand sides,	packed storage	F07UHF
Inverse of real triangular matrix,	packed storage	F07UJF
...linear equations, multiple right-hand sides,	packed storage	F07USF
Estimate condition number of complex triangular matrix,	packed storage	F07UUF
...linear equations, multiple right-hand sides,	packed storage	F07UVF
Inverse of complex triangular matrix,	packed storage	F07UWF
...symmetric matrix to symmetric tridiagonal form,	packed storage	F08GEF
...Hermitian matrix to real symmetric tridiagonal form,	packed storage	F08GSF
... $Ax = \lambda Bx$, $ABx = \lambda x$ 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
...optionally all eigenvectors of real symmetric matrix,	packed storage, using divide and conquer	F08GCF
...all eigenvectors of complex Hermitian matrix,	packed storage, using divide and conquer	F08GQF
Convert real matrix between	packed triangular and square storage schemes	F01ZAF
Convert complex matrix between	packed triangular and square storage schemes	F01ZBF
Print real	packed triangular matrix (comprehensive)	X04CDF
Print complex	packed triangular matrix (comprehensive)	X04DDF
Print real	packed triangular matrix (easy-to-use)	X04CCF
Print 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
Pearson product-moment correlation coefficients, all variables,	pairwise treatment of missing values	G02BCF
Correlation-like coefficients (about zero), all variables,	pairwise treatment of missing values	G02BBF
...correlation coefficients, subset of variables,	pairwise treatment of missing values	G02BJF
Correlation-like coefficients (about zero), subset of variables,	pairwise treatment of missing values	G02BMF
Kendall/Spearman non-parametric rank correlation coefficients,	pairwise treatment of missing values	G02BSF
General system of	parabolic PDEs, coupled DAEs, method of lines,...	D03PJF
General system of	parabolic PDEs, coupled DAEs, method of lines,...	D03PHF
General system of	parabolic PDEs, coupled DAEs, method of lines,...	D03PPF
General system of	parabolic PDEs, method of lines, Chebyshev C^0 collocation,...	D03PDF
General system of	parabolic PDEs, method of lines, finite differences,...	D03PCF
Kendall/Spearman non-	parametric rank correlation coefficients, casewise treatment...	G02BPF
Kendall/Spearman non-	parametric rank correlation coefficients, casewise treatment...	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...	G02BSF
Non-	parametric tests	G08
Multivariate time series, multiple squared	partial autocorrelations	G13DBF
Univariate time series,	partial autocorrelations from autocorrelations	G13ACF
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 statistics and significance levels	G13DNF
...spectrum using rectangular, Bartlett, Tukey or	Parzen lag window	G13CAF
...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, three-dimensional Cartesian co-ordinates	D03FAF
Elliptic	PDE , Laplace's equation, two-dimensional arbitrary domain	D03EAF
Discretize a second-order	elliptic PDE on a rectangle	D03EEF
Elliptic	PDE , solution of finite difference equations by a multigrid technique	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,...	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 differences,...	D03PHF
General system of parabolic	PDEs , coupled DAEs, method of lines, finite differences,...	D03PPF
General system of first-order	PDEs , coupled DAEs, method of lines, Keller box discretisation,...	D03PKF
General system of first-order	PDEs , coupled DAEs, method of lines, Keller box discretisation,...	D03PRF
General system of parabolic	PDEs , method of lines, Chebyshev C^0 collocation,...	D03PDF
General system of parabolic	PDEs , method of lines, finite differences,...	D03PCF
General system of second-order	PDEs , method of lines, finite differences, remeshing,...	D03RAF
General system of second-order	PDEs , method of lines, finite differences, remeshing,...	D03RBF
General system of first-order	PDEs , method of lines, Keller box discretisation,...	D03PEF
PDEs , spatial interpolation with D03PCF, D03PEF, D03PFF,...		D03PZF
PDEs , spatial interpolation with D03PDF or D03PJF		D03PYF
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
Pearson product-moment correlation coefficients,...		G02BBF
Pearson product-moment correlation coefficients,...		G02BAF
Pearson product-moment correlation coefficients,...		G02BCF
Pearson product-moment correlation coefficients,...		G02BHF
Pearson product-moment correlation coefficients,...		G02BGF
Pearson product-moment correlation coefficients,...		G02BJF
...from set of classification factors using given	percentile/quantile	G11BBF
Invert a	permutation	M01ZAF
Check validity of a	permutation	M01ZBF
Decompose a	permutation into cycles	M01ZCF
Pseudo-random	permutation of an integer vector	G05EHF
Permute rows or columns, real rectangular matrix,	permutations represented by a real array	F06QKF
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
Provides the mathematical constant 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 integrands		D01AJF
<i>QR</i> factorization of real general rectangular matrix with column pivoting		F08BEF
...complex general rectangular matrix with column pivoting		F08BSF
Triangulation of plane region		D03MAF
Generate real plane rotation		F06AAF
Generate real Jacobi plane rotation		F06BEF
Apply real plane rotation		F06EPF
Apply complex plane rotation		F06HPP
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
Apply real plane rotation to two complex vectors		F06KPF
Apply plane rotation to two real sparse vectors		F06EXF
Apply real symmetric plane rotation to two vectors		F06FPF
Generate sequence of real plane rotations		F06FQF
Generate sequence of complex plane rotations		F06HQF
...transformation of 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
...transformation of Hermitian matrix as a sequence of plane rotations		F06TMF
... <i>U</i> complex upper triangular, <i>Z</i> a sequence of plane rotations		F06TTF
Apply sequence of plane rotations, complex rectangular matrix, complex cosine...		F06TYF
Apply sequence of plane rotations, complex rectangular matrix, real cosine...		F06TXF
Apply sequence of plane rotations, complex rectangular matrix, real cosine and sine		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
Compute upper Hessenberg matrix by sequence of plane rotations, complex upper triangular matrix		F06TWF
Compute upper spiked matrix by sequence of plane rotations, complex upper triangular matrix		F06TWF
<i>QRz</i> k factorization by sequence of plane rotations, complex upper triangular matrix...		F06TQF
<i>QR</i> factorization by sequence of plane rotations, rank-1 update of complex upper triangular matrix		F06TTF
<i>QR</i> factorization by sequence of plane rotations, rank-1 update of real upper triangular matrix		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
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
<i>QR</i> factorization by sequence of plane rotations, real upper triangular matrix augmented by a full row		F06QQF
Constructs a stem and leaf plot		G01ARF
Constructs a box and whisker plot		G01ASF
...needed for range-mean or standard deviation-mean plot		G13AUF
Pseudo-random integer, Poisson distribution		G05DRF
Set up reference vector for generating pseudo-random integers, Poisson distribution		G05ECF
Computes confidence interval for the parameter of a Poisson distribution		G07ABF
Computes confidence interval for the parameter of a Poisson distribution function		G01BKF
Fits a generalized linear model with Poisson errors		G02GCF
Least-squares polynomial fit, special data points (including interpolation)		E02AFF
Least-squares polynomial fit, values and derivatives may be constrained,...		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 values,...		E01AEF
All zeros of complex polynomial , modified Laguerre method		C02AFF
All zeros of real polynomial , modified Laguerre method		C02AGF
Minimax curve fit by polynomials		E02ACF
Least-squares curve fit, by polynomials , arbitrary data points		E02ADF
Least-squares surface fit by polynomials , data on lines		E02CAF
Computes orthogonal polynomials or dummy variables for factor/classification variable		G04EAF
...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 Mahalanobis squared distances for group or pooled variance-covariance matrices (for use after G03DAF)		G03DBF
...for a difference in means between two Normal populations , confidence interval		G07CAF
The machine precision		X02AJF
Real inner product added to initial value, basic/additional precision		X03AAF
Complex inner product added to initial value, basic/additional precision		X03ABF
Pre-computed weights and abscissae for Gaussian quadrature rules,...		D01BBF
Unconstrained minimum, pre-conditioned conjugate gradient algorithm, function of...		E04DGF
Real sparse nonsymmetric linear systems, line Jacobi preconditioner		F11DKF
...RGMRES, CGS or Bi-CGSTAB method, Jacobi or SSOR preconditioner (Black Box)		F11DEF
...CGS, Bi-CGSTAB or TFQMR method, Jacobi or SSOR preconditioner (Black Box)		F11DSF
...linear system, RGMRES, CGS or Bi-CGSTAB method, preconditioner computed by F11DAF (Black Box)		F11DCF
...system, RGMRES, CGS, Bi-CGSTAB or TFQMR method, preconditioner computed by F11DNF (Black Box)		F11DQF
Solution of linear system involving preconditioning matrix generated by applying SSOR to...		F11JRF
Solution of linear system involving preconditioning matrix generated by applying SSOR to...		F11DRF
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 <i>LU</i> preconditioning matrix generated by F11DAF		F11DBF
Solution of complex linear system involving incomplete <i>LU</i> preconditioning matrix generated by F11DNF		F11DPF
Solution of linear system involving incomplete Cholesky preconditioning matrix generated by F11JAF		F11JBF
Solution of complex linear system involving incomplete Cholesky preconditioning matrix generated by F11JNF		F11JPF
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
...in D01GCF or D01GDF, when number of points is prime		D01GYF
...D01GDF, when number of points is product of two primes		D01GZF
Performs principal component analysis		G03AAF
Performs principal co-ordinate analysis, classical metric scaling		G03FAF
...finite interval, weight function $1/(x - c)$, Cauchy principal value (Hilbert transform)		D01AQF

	Print complex general matrix (comprehensive)	X04DBF
	Print complex general matrix (easy-to-use)	X04DAF
	Print complex packed banded matrix (comprehensive)	X04DFF
	Print complex packed banded matrix (easy-to-use)	X04DEF
	Print complex packed triangular matrix (comprehensive)	X04DDF
	Print complex packed triangular matrix (easy-to-use)	X04DCF
	Print integer matrix (comprehensive)	X04EBF
	Print integer matrix (easy-to-use)	X04EAF
	Print real general matrix (comprehensive)	X04CBF
	Print real general matrix (easy-to-use)	X04CAF
	Print real packed banded matrix (comprehensive)	X04CFF
	Print real packed banded matrix (easy-to-use)	X04CEF
	Print real packed triangular matrix (comprehensive)	X04CDF
	Print real packed triangular matrix (easy-to-use)	X04CCF
Interpret MPSX data file defining IP or LP problem, optimize and	print solution	H02BFF
Computes Kaplan–Meier (product-limit) estimates of survival	probabilities	G12AAF
Computes upper and lower tail	probabilities and probability density function for the beta distribution	G01EEF
	Computes probabilities for χ^2 distribution	G01ECF
	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 ties in...	G08AJF
Computes	probabilities for the Mann–Whitney U statistic, ties in...	G08AKF
	Computes probabilities for the multivariate Normal distribution	G01HBF
	Computes probabilities for the non-central beta distribution	G01GEF
	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 Student's t-distribution	G01GBF
	Computes probabilities for the one-sample Kolmogorov–Smirnov distribution	G01EYF
	Computes probabilities for the standard Normal distribution	G01EAF
	Computes probabilities for the two-sample Kolmogorov–Smirnov distribution	G01EZF
Computes upper and lower tail probabilities and	probability density function for the beta distribution	G01EEF
...supplied cumulative distribution function or	probability distribution function	G05EXF
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
	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 precision	X03AAF
Complex inner	product added to initial value, basic/additional precision	X03ABF
Matrix-vector	product, complex Hermitian band matrix	F06SDF
Matrix-vector	product, complex Hermitian matrix	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	F06SFF
Matrix-vector	product, complex triangular packed matrix	F06SHF
Dot	product of two complex sparse vector, conjugated	F06GRF
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
...in D01GCF or D01GDF, when number of points is	product of two primes	D01GZF
Dot	product of two real sparse vectors	F06ERF
Dot	product of two real vectors	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 rectangular matrix	F06YCF
Matrix-matrix	product, one real triangular matrix, one real rectangular matrix	F06YFF
Matrix-vector	product, real rectangular band matrix	F06PBF
Matrix-vector	product, real rectangular matrix	F06PAF
Matrix-vector	product, real symmetric band matrix	F06PDF
Matrix-vector	product, real symmetric matrix	F06PCF
Matrix-vector	product, real symmetric packed matrix	F06PEF
Matrix-vector	product, real triangular band matrix	F06PGF
Matrix-vector	product, real triangular matrix	F06PFF
Matrix-vector	product, real triangular packed matrix	F06PHF
Multi-dimensional quadrature, general	product region, number-theoretic method	D01GCF
Multi-dimensional quadrature, general	product region, number-theoretic method, variant of D01GCF...	D01GDF
Multi-dimensional quadrature, general	product region, number-theoretic method, variant of D01GCF...	D01GDF
Multi-dimensional quadrature, Sag–Szekerés method, general	product region or n-sphere	D01DFD
Matrix-matrix	product, two complex rectangular matrices	F06ZAF
Matrix-matrix	product, two real rectangular matrices	F06YAF
Computes Kaplan–Meier (product-limit) estimates of survival probabilities		G12AAF
	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
	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
	Integer Programming See IP	
	Linear Programming See LP	
	Quadratic Programming See QP	
	Integer programming solution, supplies further information on solution...	H02BZF
Fits Cox's	proportional hazard model	G12BAF
Creates the risk sets associated with the Cox	proportional hazards model for fixed covariates	G12ZAF
	Pseudo-inverse and rank of real m by n matrix ($m \geq n$)	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 vector	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, χ^2 distribution	G05DHF
	Pseudo-random real numbers, F-distribution	G05DKF

	Pseudo-random real numbers, logistic distribution	G05DCF
	Pseudo-random real numbers, log-normal distribution	G05DEF
	Pseudo-random real numbers, (negative) exponential distribution	G05DBF
	Pseudo-random real numbers, Normal distribution	G05DDF
	Pseudo-random real numbers, Student's <i>t</i> -distribution	G05DJF
	Pseudo-random real numbers, uniform distribution over (0,1)	G05CAF
	Pseudo-random real numbers, uniform distribution over (<i>a</i> , <i>b</i>)	G05DAF
	Pseudo-random real numbers, Weibull distribution	G05DPF
	Pseudo-random sample from an integer vector	G05EJF
	pseudo-random variates from von Mises distribution	G05FSF
Generates a vector of		
Scaled derivatives of $\psi(x)$		S14ADF
Incomplete Gamma functions $P(a, x)$ and $Q(a, x)$		S14BAF
Complement of cumulative normal distribution function $Q(x)$		S15ACF
...reduced from real symmetric matrix using implicit	<i>QL</i> or <i>QR</i>	F08JEF
...symmetric tridiagonal matrix, root-free variant of	<i>QL</i> or <i>QR</i>	F08JFF
...from complex Hermitian matrix, using implicit	<i>QL</i> or <i>QR</i>	F08JSF
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
Minimum of a sum of squares, nonlinear constraints, sequential	QP method, using function values and...	E04UNF
	QP problem (dense)	E04NFF
	Integer QP problem (dense)	H02CBF
	Convex QP problem or linearly-constrained linear least-squares problem...	E04NCF
	LP or QP problem (sparse)	E04NKF
	Integer LP or QP problem (sparse)	H02CEF
Converts MPSX data file defining LP or	QP problem to format required by E04NKF	E04MZF
	<i>QR</i> factorization of complex general rectangular matrix...	F08BSF
	<i>QR</i> factorization of real general rectangular matrix...	F08BEF
...real symmetric matrix using implicit	<i>QR</i>	F08JEF
...tridiagonal matrix, root-free variant of	<i>QR</i>	F08JFF
...complex Hermitian matrix, using implicit	<i>QR</i>	F08JSF
	<i>QR</i> factorization by sequence of plane rotations, rank-1 update...	F06TPF
	<i>QR</i> factorization by sequence of plane rotations, rank-1 update...	F06QPF
	<i>QR</i> factorization by sequence of plane rotations,...	F06QQF
Form all or part of orthogonal <i>Q</i> from	<i>QR</i> factorization determined by F08AEF or F08BEF	F08AFF
Form all or part of unitary <i>Q</i> from	<i>QR</i> factorization determined by F08ASF or F08BSF	F08ATF
	<i>QR</i> factorization of complex general rectangular matrix	F08ASF
	<i>QR</i> factorization of real general rectangular matrix	F08AEF
	<i>QR</i> factorization of <i>UZ</i> or <i>RQ</i> factorization of <i>ZU</i> ,...	F06TTF
	<i>QR</i> factorization of <i>UZ</i> or <i>RQ</i> factorization of <i>ZU</i> ,...	F06QTF
	<i>QR</i> factorization, possibly followed by SVD	F02WDF
	<i>QR</i> or <i>RQ</i> factorization by sequence of plane rotations,...	F06TRF
	<i>QR</i> or <i>RQ</i> factorization by sequence of plane rotations,...	F06TSF
	<i>QR</i> or <i>RQ</i> factorization by sequence of plane rotations,...	F06QRF
	<i>QR</i> or <i>RQ</i> factorization by sequence of plane rotations,...	F06QSF
	<i>QRxk</i> factorization by sequence of plane rotations,...	F06TQF
All zeros of complex	quadratic	C02AHF
All zeros of real	quadratic	C02AJF
Cumulants and moments of	quadratic forms in Normal variables	G01NAF
Moments of ratios of	quadratic forms in Normal variables, and related statistics	G01NBF
One-dimensional Gaussian	quadrature	D01BAF
One-dimensional	quadrature , adaptive, finite interval, allowing for singularities...	D01ALF
One-dimensional	quadrature , adaptive, finite interval, method suitable for...	D01AKF
One-dimensional	quadrature , adaptive, finite interval, strategy due to...	D01AHF
One-dimensional	quadrature , adaptive, finite interval, strategy due to...	D01AJF
One-dimensional	quadrature , adaptive, finite interval, variant of D01AJF...	D01ATF
One-dimensional	quadrature , adaptive, finite interval, variant of D01AKF...	D01AUF
One-dimensional	quadrature , adaptive, finite interval, weight function $1/(x-c)$,...	D01AQF
One-dimensional	quadrature , adaptive, finite interval, weight function $\cos(\omega x)$ or...	D01ANF
One-dimensional	quadrature , adaptive, finite interval, weight function with...	D01APF
One-dimensional	quadrature , adaptive, infinite or semi-infinite interval	D01AMF
One-dimensional	quadrature , adaptive, semi-infinite interval,...	D01ASF
Two-dimensional	quadrature , finite region	D01DAF
Multi-dimensional	quadrature , general product region, number-theoretic method	D01GCF
Multi-dimensional	quadrature , general product region, number-theoretic method,...	D01GDF
One-dimensional	quadrature , integration of function defined by data values,...	D01GAF
One-dimensional	quadrature , non-adaptive, finite interval	D01BDF
One-dimensional	quadrature , non-adaptive, finite interval with provision for...	D01ARF
Multi-dimensional	quadrature over an <i>n</i> -simplex	D01PAF
Multi-dimensional	quadrature over an <i>n</i> -sphere, allowing for badly-behaved integrands	D01JAF
Multi-dimensional Gaussian	quadrature over hyper-rectangle	D01FBF
Multi-dimensional adaptive	quadrature over hyper-rectangle	D01FCF
Multi-dimensional adaptive	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 or <i>n</i> -sphere	D01DFD
...classification factors using given percentile/quantile		G11BBF
	Discrete quarter-wave cosine transform	C06HDF
	Discrete quarter-wave cosine transform (easy-to-use)	C06RDF
	Discrete quarter-wave sine transform	C06HCF
	Discrete quarter-wave sine transform (easy-to-use)	C06RCF
Minimum, function of several variables,	quasi-Newton algorithm, simple bounds, using first derivatives...	E04KYF
Minimum, function of several variables,	quasi-Newton algorithm, simple bounds, using function values only...	E04JYF
...a sum of squares, combined Gauss-Newton and	quasi-Newton algorithm using first derivatives (comprehensive)	E04GBF
...a sum of squares, combined Gauss-Newton and	quasi-Newton algorithm, using first derivatives (easy-to-use)	E04GYF
Left and right eigenvectors of real upper	quasi-triangular matrix	F08QKF
...selected eigenvalues and eigenvectors of real upper	quasi-triangular matrix	F08QLF
...equation $AX + XB = C$, <i>A</i> and <i>B</i> are upper	quasi-triangular or transposes	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
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 non-repeatable sequence	G05CCF
	Initialise random number generating routines to give repeatable sequence	G05CBF
	Selection of basic algorithm random number generator or Wichmann-Hill algorithm generators...	G05ZAF
	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 distribution	G05FBF
	Computes random orthogonal matrix	G05GAF
	Pseudo- random permutation of an integer vector	G05EHF
	Pseudo- random real numbers, Cauchy distribution	G05DFD
	Pseudo- random real numbers, χ^2 distribution	G05DHF
	Pseudo- random real numbers, F -distribution	G05DKF
	Pseudo- random real numbers, logistic distribution	G05DCF
	Pseudo- random real numbers, log-normal distribution	G05DEF
	Pseudo- random real numbers, (negative) exponential distribution	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 sample from an integer vector	G05EJF
	Generates a 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 break-points	D02KEF
	Second-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
	The safe range parameter	X02AMF
	The safe range parameter for complex floating-point arithmetic	X02ANF
	Computes probability for the Studentized range statistic	X01EMF
	Computes deviates for the Studentized range statistic	G01FMF
	...function of solution is zero, integration over range with intermediate output (simple driver)	D02JF
	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 missing values,...	G02BPF
	Kendall/Spearman non-parametric rank correlation coefficients, casewise treatment of missing values,...	G02BRF
	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
	Pseudo-inverse and rank of 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	F06SPF
	Rank-1 update, complex Hermitian packed matrix	F06SQF
	Rank-1 update, complex rectangular matrix, conjugated vector	F06SNF
	Rank-1 update, complex rectangular matrix, unconjugated vector	F06SMF
	Rank-1 update of complex upper triangular matrix	F06TPF
	Rank-1 update of real upper triangular matrix	F06QPF
	Rank-1 update, real rectangular matrix	F06PMF
	Rank-1 update, real symmetric matrix	F06PPF
	Rank-1 update, real symmetric packed matrix	F06PQF
	Rank-2 update, complex Hermitian matrix	F06SRF
	Rank-2 update, complex Hermitian packed matrix	F06SSF
	Rank-2 update, real symmetric matrix	F06PRF
	Rank-2 update, real symmetric packed matrix	F06PSF
	Rank-2k update of complex Hermitian matrix	F06ZRF
	Rank-2k update of complex symmetric matrix	F06ZWF
	Rank-2k update of real symmetric matrix	F06YRF
	Rank-k update of complex Hermitian matrix	F06ZPF
	Rank-k update of complex symmetric matrix	F06ZUF
	Rank-k update of real symmetric matrix	F06YPF
	Rearrange a vector according to given ranks , character data	M01ECF
	Rearrange a vector according to given ranks , complex numbers	M01EDF
	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 model	G05HDF
	Rearrange a vector according to given ranks, character data	M01ECF
	Rearrange a vector according to given ranks, complex numbers	M01EDF
	Rearrange a vector according to given ranks, integer numbers	M01EBF
	Rearrange a vector according to given ranks, real numbers	M01EAF
	Computes reciprocal of Mills' Ratio	G01MBF
	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
	Multi-dimensional Gaussian quadrature over hyper- rectangle	D01FBF
	Multi-dimensional adaptive quadrature over hyper- rectangle	D01FCF
	Discretize a second-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, real rectangular band matrix	F06PBF
	Matrix-vector product, complex rectangular band matrix	F06SBF

Univariate time series, smoothed sample spectrum using	rectangular , Bartlett, Tukey or Parzen lag window	G13CAF
Multivariate time series, smoothed sample cross spectrum using	rectangular , Bartlett, Tukey or Parzen lag window	G13CCF
Interpolating functions, fitting bicubic spline, data on	rectangular grid	E01DAF
...splines with automatic knot placement, data on	rectangular grid	E02DCF
Matrix-matrix product, two real	rectangular matrices	F06YAF
Matrix-matrix product, two complex	rectangular matrices	F06ZAF
Matrix-vector product, real	rectangular matrix	F06PAF
Rank-1 update, real	rectangular matrix	F06PMF
Matrix initialisation, real	rectangular matrix	F06QHF
Apply sequence of plane rotations, real	rectangular matrix	F06QXF
Matrix-vector product, complex	rectangular matrix	F06SAF
Matrix initialisation, complex	rectangular matrix	F06THF
Matrix-matrix product, one real symmetric matrix, one real	rectangular matrix	F06YCF
Matrix-matrix product, one real triangular matrix, one real	rectangular matrix	F06YFF
...product, one complex Hermitian matrix, one complex	rectangular matrix	F06ZCF
...product, one complex triangular matrix, one complex	rectangular matrix	F06ZFF
...product, one complex symmetric matrix, one complex	rectangular matrix	F06ZTF
QR factorization of real general	rectangular matrix	F08AEF
LQ factorization of real general	rectangular matrix	F08AHF
QR factorization of complex general	rectangular matrix	F08ASF
LQ factorization of complex general	rectangular matrix	F08AVF
Apply sequence of plane rotations, complex	rectangular matrix, complex cosine and real sine	F06TYF
Rank-1 update, complex	rectangular matrix, conjugated vector	F06SNF
Permute rows or columns, real	rectangular matrix, permutations represented by a real array	F06KNF
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
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
Orthogonal reduction of real general	rectangular matrix to bidiagonal form	F08KEF
Unitary reduction of complex general	rectangular matrix to bidiagonal form	F08KSF
Rank-1 update, complex	rectangular matrix, unconjugated vector	F06SMF
QR factorization of real general	rectangular matrix with column pivoting	F08BEF
QR factorization of complex general	rectangular matrix with column pivoting	F08BSF
Matrix copy, real	rectangular or trapezoidal matrix	F06QFF
Matrix copy, complex	rectangular or trapezoidal matrix	F06TFP
...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
...differences, remeshing, two space variables,	rectilinear region	D03RBF
SVD of real bidiagonal matrix	reduced from complex general matrix	F08MSF
...factorization of complex upper Hessenberg matrix	reduced from complex general matrix	F08PSF
...eigenvectors of real symmetric tridiagonal matrix,	reduced from complex Hermitian matrix, using implicit <i>QL</i> or <i>QR</i>	F08JSF
...symmetric positive-definite tridiagonal matrix,	reduced from complex Hermitian positive-definite matrix	F08JUF
SVD of real bidiagonal matrix	reduced from real general matrix	F08MEF
...factorization of real upper Hessenberg matrix	reduced from real general matrix	F08PEF
...eigenvectors of real symmetric tridiagonal matrix,	reduced from real symmetric matrix using implicit <i>QL</i> or <i>QR</i>	F08JEF
...symmetric positive-definite tridiagonal matrix,	reduced from real symmetric positive-definite matrix	F08JGF
Unitary	reduction of complex general matrix to upper Hessenberg form	F08NSF
Unitary	reduction of complex general rectangular matrix to...	F08KSF
Unitary	reduction of complex Hermitian band matrix to...	F08HSF
Unitary	reduction of complex Hermitian matrix to...	F08FSF
Unitary	reduction of complex Hermitian matrix to...	F08GSF
	Reduction of complex Hermitian-definite banded generalized...	F08USF
	Reduction of complex rectangular band matrix to upper bidiagonal...	F08LSF
Orthogonal	reduction of real general matrix to upper Hessenberg form	F08NEF
Orthogonal	reduction of real general rectangular matrix to bidiagonal form	F08KEF
	Reduction of real rectangular band matrix to upper bidiagonal form	F08LEF
Orthogonal	reduction of real symmetric band matrix to symmetric tridiagonal...	F08HEF
Orthogonal	reduction of real symmetric matrix to symmetric tridiagonal form	F08FEF
Orthogonal	reduction of real symmetric matrix to symmetric tridiagonal...	F08GEF
	Reduction of real symmetric-definite banded generalized...	F08UEF
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
Apply unitary transformation matrix from	reduction to Hessenberg form determined by F08NSF	F08NUF
	Reduction to standard form, generalized real symmetric-definite...	F01BVF
	Reduction to standard form of complex Hermitian-definite...	F08SSF
	Reduction to standard form of complex Hermitian-definite...	F08TSF
	Reduction to standard form of real symmetric-definite generalized...	F08SEF
	Reduction to standard form of real symmetric-definite generalized...	F08TEF
Generate orthogonal transformation matrix from	reduction to tridiagonal form determined by F08FEF	F08TFP
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	F08GTF
Generate unitary transformation matrix from	reduction to tridiagonal form determined by F08GSF	F08GTF
Pseudo-random integer from	reference vector	G05EYF
Pseudo-random multivariate Normal vector from	reference vector	G05EZF
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
Set up	reference vector for univariate ARMA time series model	G05EGF
Set up	reference vector from supplied cumulative distribution function...	G05EXF
	Refined solution with error bounds of complex band system of...	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 linear...	F07AVF
	Refined solution with error bounds of real band system of linear...	F07BHF
	Refined solution with error bounds of real symmetric indefinite...	F07MHF
	Refined solution with error bounds of real symmetric indefinite...	F07PHF
	Refined solution with error bounds of real symmetric...	F07HHF
	Refined solution with error bounds of real symmetric...	F07FHF
	Refined solution with error bounds of real symmetric...	F07GHF
	Refined solution with error bounds of real system of...	F07AHF
Inverse of real symmetric positive-definite matrix using iterative	refinement	F01ABF
...with multiple right-hand sides using iterative	refinement (Black Box)	F04ABF
...with multiple right-hand sides using iterative	refinement (Black Box)	F04AEF
...unknowns, rank = n , $m \geq n$ using iterative	refinement (Black Box)	F04AMF

...equations, one right-hand side using iterative	refinement (Black Box)	F04ASF
...equations, one right-hand side using iterative	refinement (Black Box)	F04ATF
...simultaneous linear equations using iterative	refinement (coefficient matrix already factorized by F03AEF)	F04AFF
Solution of real simultaneous linear equations using iterative	refinement (coefficient matrix already factorized by F03AFF)	F04AHF
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
Nonlinear	regression	E04
Robust	regression , compute regression with user-supplied functions...	G02HDF
Robust	regression , compute weights for use with G02HDF	G02HBF
Multiple linear	regression , from correlation coefficients, with constant term	G02CGF
Multiple linear	regression , from correlation-like coefficients, without constant term	G02CHF
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	G02DFF
Computes estimable function of a general linear	regression model and its standard error	G02DNF
Fits a linear	regression model by forward selection	G02EEF
Estimates 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
Service routines for multiple linear	regression , re-order elements of vectors and matrices	G02CFF
Service routines for multiple linear	regression , select elements from vectors and matrices	G02HAF
Robust	regression , standard M -estimates	G08RBF
	Regression using ranks, right-censored data	G08RAF
	Regression using ranks, uncensored data	G02CCF
Robust	regression , variance-covariance matrix following G02HDF	G02HFF
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 values	G02CBF
Computes residual sums of squares for all possible linear	regressions for a set of independent variables	G02EAF
Second-order Sturm–Liouville problem,	regular system, finite range, eigenvalue only	D02KAF
Second-order Sturm–Liouville problem,	regular/singular system, finite/infinite range, eigenvalue...	D02KEF
Second-order Sturm–Liouville problem,	regular/singular system, finite/infinite range, eigenvalue only,...	D02KDF
...coupled DAEs, method of lines, finite differences,	remeshing , one space variable	D03PPF
...DAEs, method of lines, Keller box discretisation,	remeshing , one space variable	D03PRF
...numerical flux function based on Riemann solver,	remeshing , one space variable	D03PSF
...second-order PDEs, method of lines, finite differences,	remeshing , two space variables, rectangular region	D03RAF
...second-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
Real sparse nonsymmetric matrix	reorder routine	F11ZAF
Real sparse symmetric matrix	reorder routine	F11ZBF
Complex sparse non-Hermitian matrix	reorder routine	F11ZNF
Complex sparse Hermitian matrix	reorder routine	F11ZPF
	Reorder Schur factorization of complex matrix, form orthonormal...	F08QUF
	Reorder Schur factorization of complex matrix using...	F08QTF
	Reorder Schur factorization of real matrix, form orthonormal...	F08QGF
	Reorder Schur factorization of real matrix using orthogonal...	F08QFF
Initialise random number generating routines to give	repeatable sequence	G05CBF
Initialise random number generating routines to give non-	repeatable sequence	G05CCF
...analysis model, factor loadings, communalities and	residual correlations	G03CAF
Calculates R^2 and CP values from	residual sums of squares	G02ECF
Computes	residual sums of squares for all possible linear regressions for...	G02EAF
Calculates standardized	residuals and influence statistics	G02FAF
Univariate time series, diagnostic checking of	residuals , following G13AEF or G13AFF	G13ASF
Multivariate time series, diagnostic checking of	residuals , following G13DCF	G13DSF
Multivariate time series, noise spectrum, bounds, impulse	response function and its standard error	G13CGF
Real sparse nonsymmetric linear systems, preconditioned	RGMRES , CGS, Bi-CGSTAB or TFQMR method	F11BEF
Complex sparse non-Hermitian linear systems, preconditioned	RGMRES , CGS, Bi-CGSTAB or TFQMR method	F11BSF
Solution of complex sparse non-Hermitian linear system,	RGMRES , CGS, Bi-CGSTAB or TFQMR method, Jacobi or...	F11DSF
Solution of complex sparse non-Hermitian linear system,	RGMRES , CGS, Bi-CGSTAB or TFQMR method,...	F11DQF
Real sparse nonsymmetric linear systems, preconditioned	RGMRES , CGS or Bi-CGSTAB	F11BBF
Solution of real sparse nonsymmetric linear system,	RGMRES , CGS or Bi-CGSTAB method, Jacobi or...	F11DEF
Solution of real sparse nonsymmetric linear system,	RGMRES , CGS or Bi-CGSTAB method,...	F11DCF
Roe's approximate	Riemann solver for Euler equations in conservative form,...	D03PUF
Osher's approximate	Riemann solver for Euler equations in conservative form,...	D03PVF
Modified HLL	Riemann solver for Euler equations in conservative form,...	D03PWF
Exact	Riemann Solver for Euler equations in conservative form,...	D03PXF
...scheme using numerical flux function based on	Riemann solver, one space variable	D03PFF
...scheme using numerical flux function based on	Riemann solver, one space variable	D03PLF
...scheme using numerical flux function based on	Riemann solver, remeshing, one space variable	D03PSF
Selected	right and/or left eigenvectors of complex upper Hessenberg matrix...	F08PXF
Selected	right and/or left eigenvectors of real upper Hessenberg matrix...	F08PKF
Left and	right eigenvectors of complex upper triangular matrix	F08QXF
Left and	right eigenvectors of real upper quasi-triangular matrix	F08KXF
...factorization of real matrix, form orthonormal basis of	right invariant subspace for selected eigenvalues,...	F08QGF
...of complex matrix, form orthonormal basis of	right invariant subspace for selected eigenvalues,...	F08QUF
Regression using ranks,	right-censored data	G08RBF
Creates the	risk sets associated with the Cox proportional hazards model...	G12ZAF
	Robust confidence intervals, one-sample	G07EAF
	Robust confidence intervals, two-sample	G07EBF
	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 weight function	G02HKF
Calculates a	robust estimation of a correlation matrix, user-supplied weight...	G02HMF
Calculates a	robust estimation of a correlation matrix, user-supplied weight...	G02HLF
	Robust regression, compute regression with user-supplied functions...	G02HDF
	Robust regression, compute weights for use with G02HDF	G02HBF
	Robust regression, standard M -estimates	G02HAF
	Robust regression, variance-covariance matrix following G02HDF	G02HFF
Robust estimation, median, median absolute deviation,	robust standard deviation	G07DAF
	Roe's approximate Riemann solver for Euler equations in...	D03PUF

...iteration of Kalman filter, time-varying, square	root covariance filter	G13EAF
...iteration of Kalman filter, time-invariant, square	root covariance filter	G13EBF
	Compute square root of $(a^2 + b^2)$, real a and b	F06BNF
	Square root of complex number	A02AAF
	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
All eigenvalues of real symmetric tridiagonal matrix,	root-free variant of QL or QR	F08JFF
	Generate real plane rotation	F06AAF
	Generate real Jacobi plane rotation	F06BEF
	Apply real plane rotation	F06EPF
	Apply complex plane rotation	F06HPF
	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
	Apply complex similarity rotation to 2 by 2 Hermitian matrix	F06CHF
	Apply real similarity rotation to 2 by 2 symmetric matrix	F06BHF
	Apply real plane rotation to two complex vectors	F06KPF
	Apply plane rotation to two real sparse vectors	F06EXF
	Apply real symmetric plane rotation to two vectors	F06FPF
	Generate sequence of real plane rotations	F06FQF
	Generate sequence of complex plane rotations	F06HQF
...real symmetric matrix as a sequence of plane	rotations	F06QMF
...real upper triangular, Z a sequence of plane	rotations	F06QTF
...transformation of Hermitian matrix as a sequence of plane	rotations	F06TMF
...complex upper triangular, Z a sequence of plane	rotations	F06TTF
	Computes Procrustes rotations	G03BCF
	Apply sequence of plane rotations , complex rectangular matrix, complex cosine and real sine	F06TYF
	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
QR or RQ factorization by sequence of plane	rotations , complex upper Hessenberg matrix	F06TRF
QR or RQ factorization by sequence of plane	rotations , complex upper spiked matrix	F06TSF
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
$QRxk$ factorization by sequence of plane	rotations , complex upper triangular matrix augmented by a full row	F06TQF
	Computes orthogonal rotations for loading matrix, generalized orthomax criterion	G03BAF
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
	Apply sequence of plane rotations , real rectangular matrix	F06QXF
QR or RQ factorization by sequence of plane	rotations , real upper Hessenberg matrix	F06QRF
QR or RQ factorization by sequence of plane	rotations , real upper spiked matrix	F06QSF
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
QR factorization by sequence of plane	rotations , real upper triangular matrix augmented by a full row	F06QQF
Allocates observations to groups according to selected	rules (for use after G03DAF)	G03DCF
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
	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
	Second-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
	The safe range parameter	X02AMF
	The safe range parameter for complex floating-point arithmetic	X02ANF
Multi-dimensional quadrature, Sag-Szeker es method, general product region or n -sphere		D01DFD
Robust confidence intervals, one- sample		G07EAF
Robust confidence intervals, two- sample		G07EBF
...Mann-Whitney U statistic, no ties in pooled	sample	G08AJF
...the Mann-Whitney U statistic, ties in pooled	sample	G08AKF
Univariate time series, sample autocorrelation function		G13ABF
Multivariate time series, smoothed sample cross spectrum using rectangular, Bartlett, Tukey or...		G13CCF
Multivariate time series, smoothed sample cross spectrum using spectral smoothing by...		G13CDF
Multivariate time series, sample cross-correlation or cross-covariance matrices		G13DMF
Pseudo-random sample from an integer vector		G05EJF
Computes probabilities for the one- sample Kolmogorov-Smirnov distribution		G01EYF
Computes probabilities for the two- sample Kolmogorov-Smirnov distribution		G01EZF
Performs the two- sample Kolmogorov-Smirnov test		G08CDF
Performs the one- sample Kolmogorov-Smirnov test for a user-supplied distribution		G08CCF
Performs the one- sample Kolmogorov-Smirnov test for standard distributions		G08CBF
Performs the Wilcoxon one- sample (matched pairs) signed rank test		G08AGF
Multivariate time series, sample partial lag correlation matrices, χ^2 statistics and...		G13DNF
Univariate time series, smoothed sample spectrum using rectangular, Bartlett, Tukey or...		G13CAF
Univariate time series, smoothed sample spectrum using spectral smoothing by...		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 k matched samples		G08AEF
Performs the Mann-Whitney U test on two independent samples		G08AHF
Median test on two samples of unequal size		G08ACF
Kruskal-Wallis one-way analysis of variance on k samples of unequal size		G08AFF
Mood's and David's tests on two samples of unequal size		G08BAF
Ranks, Normal scores, approximate Normal scores or exponential (Savage) scores		G01DHF
	Multiply real vector by scalar	F06EDF
	Multiply complex vector by complex scalar	F06GDF
	Multiply complex vector by real scalar	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
Add scalar times complex sparse vector to complex sparse vector		F06GTF
Add scalar times complex vector to complex vector		F06GCF
Add scalar times real sparse vector to real sparse vector		F06ETF
Add scalar times real vector to real vector		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	F06DDCF
Scaled complex complement of error function, $\exp(-z^2)\text{erfc}(-iz)$	S15DDF
Scaled derivatives of $\psi(x)$	S14ADF
Compute Euclidean norm from scaled form	F06BMF
Update Euclidean norm of real vector in scaled form	F06JFF
Update Euclidean norm of complex vector in scaled form	F06KJF
Performs principal co-ordinate analysis, classical metric scaling	G03FAF
Performs non-metric (ordinal) multidimensional scaling	G03FCF
Sum or difference of two real matrices, optional scaling and transposition	F01CTF
Sum or difference of two complex matrices, optional scaling and transposition	F01CWF
Scatter complex sparse vector	F06GWF
Scatter real sparse vector	F06EWF
...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 <i>n</i> vectors of order <i>m</i>	F05AAF
All eigenvalues and Schur factorization of complex general matrix (Black Box)	F02GAF
Reorder Schur factorization of complex matrix, form orthonormal basis...	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 basis...	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
Lineprinter scatterplot of one variable against Normal scores	G01AHF
...approximate Normal scores or exponential (Savage) scores	G01DHF
Normal scores , accurate values	G01DAF
Ranks, Normal scores , approximate Normal scores or exponential (Savage) scores	G01DHF
Normal scores , approximate values	G01DBF
Normal scores , approximate variance-covariance matrix	G01DCF
Produces standardized values (<i>z</i> - scores) for a data matrix	G03ZAF
Ranks, Normal scores, approximate Normal scores or exponential (Savage) scores	G01DHF
...algorithm, from given starting value, binary search for interval	C05AGF
Binary search for interval containing zero of continuous function...	C05AVF
Univariate time series, seasonal and non-seasonal differencing	G13AAF
Univariate time series, preliminary estimation, seasonal ARIMA model	G13ADF
Univariate time series, state set and forecasts, from fully specified seasonal ARIMA model	G13AJF
Univariate time series, estimation, seasonal ARIMA model (comprehensive)	G13AEF
Univariate time series, estimation, seasonal ARIMA model (easy-to-use)	G13AFF
Univariate time series, seasonal and non- seasonal differencing	G13AAF
Selected eigenvalues and eigenvectors of complex Hermitian...	F02HCF
Selected eigenvalues and eigenvectors of complex nonsymmetric...	F02GCF
Estimates of sensitivities of selected eigenvalues and eigenvectors of complex upper triangular...	F08QYF
Selected eigenvalues and eigenvectors of real nonsymmetric...	F02ECF
Selected eigenvalues and eigenvectors of real symmetric...	F02FCF
Estimates of sensitivities of selected eigenvalues and eigenvectors of real upper quasi-triangular...	F08QLF
Selected eigenvalues and eigenvectors of sparse symmetric...	F02JFF
Selected eigenvalues of real symmetric tridiagonal matrix by...	F08JFF
...orthonormal basis of right invariant subspace for selected eigenvalues, with estimates of sensitivities	F08QGF
...orthonormal basis of right invariant subspace for selected eigenvalues, with estimates of sensitivities	F08QUF
Selected eigenvectors of real symmetric tridiagonal matrix by...	F08JXF
Selected eigenvectors of real symmetric tridiagonal matrix by...	F08JCF
Selected right and/or left eigenvectors of complex upper...	F08PXF
Selected right and/or left eigenvectors of real upper...	F08PKF
Allocates observations to groups according to selected rules (for use after G03DAF)	G03DCF
Computes multiway table from set of classification factors using selected statistic	G11BAF
One-dimensional quadrature, adaptive, infinite or semi-infinite interval	D01AMF
One-dimensional quadrature, adaptive, semi-infinite interval, weight function $\cos(\omega x)$ or $\sin(\omega x)$	D01ASF
...selected eigenvalues, with estimates of sensitivities	F08QGF
...subspace for selected eigenvalues, with estimates of sensitivities	F08QUF
Estimates of sensitivities of selected eigenvalues and eigenvectors of...	F08QYF
Estimates of sensitivities of selected eigenvalues and eigenvectors of...	F08QLF
Complex conjugate of Hermitian sequence	C06GBF
Complex conjugate of complex sequence	C06GCF
Initialise 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
Orthogonal similarity transformation of real symmetric matrix as a sequence of plane rotations	F06QMF
...factorization of <i>ZU</i> , <i>U</i> real upper triangular, <i>Z</i> a sequence of plane rotations	F06QTF
Unitary similarity transformation of Hermitian matrix as a sequence of plane rotations	F06TMF
...of <i>ZU</i> , <i>U</i> complex upper triangular, <i>Z</i> a sequence of plane rotations	F06TTF
Apply sequence of plane rotations, complex rectangular matrix,...	F06TYF
Apply sequence of plane rotations, complex rectangular matrix,...	F06TXF
Apply sequence of plane rotations, complex rectangular matrix,...	F06VXF
QR or RQ factorization by sequence of plane rotations, complex upper Hessenberg matrix	F06TRF
QR or RQ factorization by sequence of plane rotations, complex upper spiked matrix	F06TSF
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
QRxk factorization by sequence of plane rotations, complex upper triangular matrix...	F06TQF
QR factorization by sequence of plane rotations, rank-1 update of complex upper...	F06TPF
QR factorization by sequence of plane rotations, rank-1 update of real upper...	F06QPF
Apply sequence of plane rotations, real rectangular matrix	F06QXF
QR or RQ factorization by sequence of plane rotations, real upper Hessenberg matrix	F06QRF
QR or RQ factorization by sequence of plane rotations, real upper spiked matrix	F06QSF
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
QR factorization by sequence of plane rotations, real upper triangular matrix...	F06QQF
Generate sequence of real plane rotations	F06QFQ
Acceleration of convergence of sequence , Shanks' transformation and epsilon algorithm	C06BAF
Compute smoothed data sequence using running median smoothers	G10CAF
Complex conjugate of multiple Hermitian sequences	C06GQF
Convert Hermitian sequences to general complex sequences	C06GSF
...transform, using complex data format for Hermitian sequences	C06PAF
Convert Hermitian sequences to general complex sequences	C06GSF
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

Minimum of a sum of squares, nonlinear constraints, sequential QP method, using function values...	E04UNF
Performs the pairs (serial) test for randomness	G08EBF
Creates the risk sets associated with the Cox proportional hazards model...	G12ZAF
Elliptic PDE, solution of finite difference equations by SIP for seven-point three-dimensional molecule, iterate to convergence	D03ECF
Elliptic PDE, solution of finite difference equations by SIP, seven-point three-dimensional molecule, one iteration	D03UBF
Acceleration of convergence of sequence, Shanks' transformation and epsilon algorithm	C06BAF
Shapiro and Wilk's <i>W</i> test for Normality	G01DDF
Interpolating functions, modified Shepard's method, two variables	E01SEF
Interpolating functions, modified Shepard's method, two variables	E01SGF
ODEs, boundary value problem, shooting and matching, boundary values to be determined	D02HAF
ODEs, boundary value problem, shooting and matching, general parameters to be determined	D02HBF
ODEs, boundary value problem, shooting and matching technique, allowing interior matching point,...	D02AGF
ODEs, boundary value problem, shooting and matching technique, subject to extra algebraic	D02SAF
Shortest path problem, Dijkstra's algorithm	H03ADF
Sign test on two paired samples	G08AAF
Performs the Wilcoxon one-sample (matched pairs) signed rank test	G08AGF
...correlation matrices, χ^2 statistics and significance levels	G13DNF
Computes bounds for the significance of a Durbin-Watson statistic	G01EPF
Apply complex similarity rotation to 2 by 2 Hermitian matrix	F06CHF
Apply real similarity rotation to 2 by 2 symmetric matrix	F06BBF
Reorder Schur factorization of real matrix using orthogonal similarity transformation	F08QFF
Reorder Schur factorization of complex matrix using unitary similarity transformation	F08QTF
Unitary similarity transformation of Hermitian matrix as a sequence...	F06TMF
Orthogonal similarity transformation of real symmetric matrix as a sequence...	F06QMF
Multi-dimensional quadrature over an <i>n</i> - simplex	D01PAF
Unconstrained minimum, simplex algorithm, function of several variables using...	E04CCF
Solution of real sparse simultaneous linear equations (coefficient matrix already factorized)	F04AXF
Solution of real tridiagonal simultaneous linear equations (coefficient matrix already factorized,...	F04LEF
Solution of real almost block diagonal simultaneous linear equations (coefficient matrix already factorized,...	F04LHF
Solution of real symmetric positive-definite variable-bandwidth simultaneous linear equations (coefficient matrix already factorized,...	F04MCF
Solution of real symmetric positive-definite simultaneous linear equations (coefficient matrix already factorized,...	F04AGF
Solution of real simultaneous linear equations (coefficient matrix already factorized,...	F04AJF
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
Solution of real symmetric positive-definite tridiagonal simultaneous linear equations, one right-hand side (Black Box)	F04FAF
Solution of real symmetric positive-definite simultaneous linear equations, one right-hand side using...	F04ASF
Solution of real symmetric positive-definite simultaneous linear equations, one right-hand side using...	F04ATF
Solution of real symmetric positive-definite simultaneous linear equations using iterative refinement...	F04APF
Solution of real simultaneous linear equations using iterative refinement...	F04AHF
Solution of real simultaneous linear equations with multiple right-hand sides...	F04AAF
Solution of real symmetric positive-definite banded simultaneous linear equations with multiple right-hand sides...	F04ACF
Solution of complex simultaneous linear equations with multiple right-hand sides...	F04ADF
Solution 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
The largest permissible argument for sin and cos	X02AHF
Generate complex plane rotation, storing tangent, real sine	F06CBF
Recover 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
Sine integral Si(<i>x</i>)	S13ADF
Discrete sine transform	C06HAF
Discrete quarter-wave sine transform	C06HCF
Discrete sine transform (easy-to-use)	C06RAF
Discrete quarter-wave sine transform (easy-to-use)	C06RCF
Nonlinear convolution Volterra-Abel equation, second kind, weakly singular	D05BDF
Nonlinear convolution Volterra-Abel equation, first kind, weakly singular	D05BEF
Generate weights for use in solving weakly singular Abel-type equations	D05BYF
Linear non- singular Fredholm integral equation, second kind, smooth kernel	D05ABF
Linear non- singular Fredholm integral equation, second kind, split kernel	D05AAF
Second-order Sturm-Liouville problem, regular/ singular system, finite/infinite range, eigenvalue and...	D02KEF
Second-order Sturm-Liouville problem, regular/ singular system, finite/infinite range, eigenvalue only,...	D02KDF
One-dimensional quadrature, adaptive, finite interval, allowing for singularities at user-specified break-points	D01ALF
...finite interval, weight function with end-point singularities of algebraico-logarithmic type	F01APF
sinh <i>x</i>	S10ABF
Elliptic PDE, solution of finite difference equations by SIP , five-point two-dimensional molecule, iterate to convergence	D03EBF
Elliptic PDE, solution of finite difference equations by SIP , five-point two-dimensional molecule, one iteration	D03UAF
Elliptic PDE, solution of finite difference equations by SIP for seven-point three-dimensional molecule, iterate to convergence	D03ECF
Elliptic PDE, solution of finite difference equations by SIP , seven-point three-dimensional molecule, one iteration	D03UBF
Mean, variance, skewness , kurtosis, etc, one variable, from frequency table	G01ADF
Mean, variance, skewness , kurtosis, etc, one variable, from raw data	G01AAF
Mean, variance, skewness , kurtosis, etc, two variables, from raw data	G01ABF
Elements of real vector with largest and smallest absolute value	F06FLF
The smallest positive model number	X02AKF
Computes probabilities for the one-sample Kolmogorov- Smirnov distribution	G01EYF
Computes probabilities for the two-sample Kolmogorov- Smirnov distribution	G01EZF
Performs the two-sample Kolmogorov- Smirnov test	G08CDF
Performs the one-sample Kolmogorov- Smirnov test for a user-supplied distribution	G08CCF
Performs the one-sample Kolmogorov- Smirnov test for standard distributions	G08CBF
Linear non-singular Fredholm integral equation, second kind, smooth kernel	D05ABF
Compute smoothed data sequence using running median smoothers	G10CAF
Multivariate time series, smoothed sample cross spectrum using rectangular, Bartlett,...	G13CCF
Multivariate time series, smoothed sample cross spectrum using spectral smoothing by...	G13CDF
Univariate time series, smoothed sample spectrum using rectangular, Bartlett,...	G13CAF
Univariate time series, smoothed sample spectrum using spectral smoothing by...	G13CBF
Compute smoothed data sequence using running median smoothers	G10CAF
Univariate time series, smoothed sample spectrum using spectral smoothing by the trapezium frequency (Daniell) window	G13CBF

...smoothed sample cross spectrum using spectral	smoothing by the trapezium frequency (Daniell) window	G13CDF
Fit cubic smoothing spline,	smoothing parameter estimated	G10ACF
Fit cubic smoothing spline,	smoothing parameter given	G10ABF
Fit cubic	smoothing spline, smoothing parameter estimated	G10ACF
Fit cubic	smoothing spline, smoothing parameter given	G10ABF
Jacobian elliptic functions	sn, cn and dn	S21CAF
	Soft fail	P01
	Sort a vector, character data	M01CCF
	Sort a vector, integer numbers	M01CBF
	Sort a vector, real numbers	M01CAF
	Sort two-dimensional data into panels for fitting bicubic splines	E02ZAF
Solution of complex	sparse Hermitian linear system, conjugate gradient/Lanczos...	F11JSF
Solution of complex	sparse Hermitian linear system, conjugate gradient/Lanczos...	F11JQF
...matrix generated by applying SSOR to complex	sparse Hermitian matrix	F11JRF
Complex	sparse Hermitian matrix, incomplete Cholesky factorization	F11JNF
Complex	sparse Hermitian matrix reorder routine	F11ZPF
Complex	sparse Hermitian matrix vector multiply	F11XSF
Explicit ODEs, stiff IVP,	sparse Jacobian (comprehensive)	D02NDF
Implicit/algebraic ODEs, stiff IVP,	sparse Jacobian (comprehensive)	D02NJF
ODEs, IVP, for use with D02M-N routines,	sparse Jacobian, enquiry routine	D02NRF
ODEs, IVP,	sparse Jacobian, linear algebra diagnostics, for use with D02M-N...	D02NXF
ODEs, IVP, for use with D02M-N routines,	sparse Jacobian, linear algebra set-up	D02NUF
	Sparse linear least-squares problem, m real equations in n unknowns	F04QAF
LU factorization of real	sparse matrix	F01BRF
LU factorization of real	sparse matrix with known sparsity pattern	F01BSF
Complex	sparse non-Hermitian linear systems, preconditioned RGMRES,...	F11BSF
Solution of complex	sparse non-Hermitian linear system, RGMRES, CGS,...	F11DSF
Solution of complex	sparse non-Hermitian linear system, RGMRES, CGS,...	F11DQF
Complex	sparse non-Hermitian linear systems, diagnostic for F11BSF	F11BTF
Complex	sparse non-Hermitian linear systems, incomplete LU factorization	F11DNF
Complex	sparse non-Hermitian linear systems, set-up for F11BSF	F11BRF
...matrix generated by applying SSOR to complex	sparse non-Hermitian matrix	F11DRF
Complex	sparse non-Hermitian matrix reorder routine	F11ZNF
Complex	sparse non-Hermitian matrix vector multiply	F11XNF
Solution of real	sparse nonsymmetric linear system, RGMRES, CGS or...	F11DEF
Solution of real	sparse nonsymmetric linear system, RGMRES, CGS or...	F11DCF
Real	sparse nonsymmetric linear systems, diagnostic for F11BBF	F11BCF
Real	sparse nonsymmetric linear systems, diagnostic for F11BEF	F11BFF
Real	sparse nonsymmetric linear systems, incomplete LU factorization	F11DAF
Real	sparse nonsymmetric linear systems, line Jacobi preconditioner	F11DKF
Real	sparse nonsymmetric linear systems, preconditioned RGMRES,...	F11BEF
Real	sparse nonsymmetric linear systems, preconditioned RGMRES,...	F11BBF
Real	sparse nonsymmetric linear systems, set-up for F11BBF	F11BAF
Real	sparse nonsymmetric linear systems, set-up for F11BEF	F11BDF
...pre-conditioning matrix generated by applying SSOR to real	sparse nonsymmetric matrix	F11DDF
Real	sparse nonsymmetric matrix reorder routine	F11ZAF
Real	sparse nonsymmetric matrix vector multiply	F11XAF
Solution of real	sparse simultaneous linear equations (coefficient matrix)...	F04AXF
Selected eigenvalues and eigenvectors of	sparse symmetric eigenproblem (Black Box)	F02JF
Solution of real	sparse symmetric linear system, conjugate gradient/Lanczos...	F11JEF
Solution of real	sparse symmetric linear system, conjugate gradient/Lanczos...	F11JCF
Real	sparse symmetric linear systems, diagnostic for F11GBF	F11GCF
Real	sparse symmetric linear systems, diagnostic for F11GEF	F11GEF
Real	sparse symmetric linear systems, pre-conditioned conjugate gradient...	F11GBF
Real	sparse symmetric linear systems, pre-conditioned conjugate gradient...	F11GEF
Real	sparse symmetric linear systems, set-up for F11GBF	F11GAF
Real	sparse symmetric linear systems, set-up for F11GEF	F11GDF
...preconditioning matrix generated by applying SSOR to real	sparse symmetric matrix	F11JDF
Real	sparse symmetric matrix, incomplete Cholesky factorization	F11JAF
Real	sparse symmetric matrix reorder routine	F11ZBF
Real	sparse symmetric matrix vector multiply	F11XBF
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Gather real	sparse vector	F06EUF
Gather and set to zero real	sparse vector	F06EVF
Scatter real	sparse vector	F06EWF
Add scalar times complex sparse vector to complex	sparse vector	F06GTF
Gather complex	sparse vector	F06GUF
Gather and set to zero complex	sparse vector	F06GVF
Scatter complex	sparse vector	F06GWF
Dot product of two complex	sparse vector, conjugated	F06GSF
Add scalar times complex	sparse vector to complex sparse vector	F06GTF
Add scalar times real	sparse vector to real sparse vector	F06ETF
Dot product of two complex	sparse vector, unconjugated	F06GRF
Dot product of two real	sparse vectors	F06ERF
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PDEs,	spatial interpolation with D03PCF, D03PEF, D03PFF, D03PHF,...	D03PZF
PDEs,	spatial interpolation with D03PDF or D03PJF	D03PYF
Kendall/Spearman	non-parametric rank correlation coefficients,...	G02BPF
Kendall/Spearman	non-parametric rank correlation coefficients,...	G02BRF
Kendall/Spearman	non-parametric rank correlation coefficients,...	G02BNF
Kendall/Spearman	non-parametric rank correlation coefficients,...	G02BQF
Kendall/Spearman	non-parametric rank correlation coefficients,...	G02BSF
Least-squares polynomial fit,	special data points (including interpolation)	E02AFF
Approximation of	special functions	S
...coherency, bounds, univariate and bivariate (cross)	spectra	G13CEF
...phase, bounds, univariate and bivariate (cross)	spectra	G13CFF
Univariate time series, smoothed sample spectrum using	spectral smoothing by the trapezium frequency (Daniell) window	G13CBF
Multivariate time series, smoothed sample cross spectrum using	spectral smoothing by the trapezium frequency (Daniell) window	G13CDF
Multivariate time series, noise	spectrum , bounds, impulse response function and its standard error	G13CGF
Multivariate time series, cross amplitude	spectrum , squared coherency, bounds, univariate and bivariate...	G13CEF
Univariate time series, smoothed sample	spectrum using rectangular, Bartlett, Tukey or Parzen lag window	G13CAF
Multivariate time series, smoothed sample cross	spectrum using rectangular, Bartlett, Tukey or Parzen lag window	G13CCF
Univariate time series, smoothed sample	spectrum using spectral smoothing by the trapezium frequency...	G13CBF
Multivariate time series, smoothed sample cross	spectrum using spectral smoothing by the trapezium frequency...	G13CDF
...Sag-Szekeres method, general product region or n -sphere		D01DF
Multi-dimensional quadrature over an n -sphere,	allowing for badly-behaved integrands	D01JAF
QR or RQ factorization by sequence of plane rotations, real upper	spiked matrix	F06QSF
...by sequence of plane rotations, complex upper	spiked matrix	F06TSF
Compute upper	spiked matrix by sequence of plane rotations, complex...	F06TWF
Compute upper	spiked matrix by sequence of plane rotations, real...	F06QWF
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Evaluation of fitted bicubic	spline at a vector of points	E02DEF

Least-squares cubic spline curve fit, automatic knot placement	E02BEF
Interpolating functions, fitting bicubic spline , data on rectangular grid	E01DAF
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
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Fit cubic smoothing spline , smoothing parameter given	G10ABF
B-splines	E02
Least-squares surface fit, bicubic splines	E02DAF
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Least-squares surface fit by bicubic splines with automatic knot placement, data on rectangular grid	E02DCF
Least-squares surface fit by bicubic splines with automatic knot placement, scattered data	E02DDF
Linear non-singular Fredholm integral equation, second kind, split kernel	D05AAF
SPRINT package	D02M-N
...one iteration of Kalman filter, time-varying, square root covariance filter	G13EAF
...one iteration of Kalman filter, time-covariant, square root covariance filter	G13EBF
Compute square root of $(a^2 + b^2)$, real a and b	F06BNF
Square root of complex number	A02AAF
Convert real matrix between packed triangular and square storage schemes	F01ZAF
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Computes Mahalanobis squared distances for group or pooled variance-covariance...	G03DBF
Multivariate time series, multiple squared partial autocorrelations	G13DBF
...boundary value problem, collocation and least- squares	D02TGF
Check user's routine for calculating Hessian of a sum of squares	E04YBF
Real general Gauss–Markov linear model (including weighted least- squares)	F04JLF
...Gauss–Markov linear model (including weighted least- squares)	F04KLF
Calculates R^2 and C_P values from residual sums of squares	G02ECF
Unconstrained minimum of a sum of squares , combined Gauss–Newton and modified Newton algorithm...	E04GDF
Unconstrained minimum of a sum of squares , combined Gauss–Newton and modified Newton algorithm...	E04GZF
Unconstrained minimum of a sum of squares , combined Gauss–Newton and modified Newton algorithm...	E04FCF
Unconstrained minimum of a sum of squares , combined Gauss–Newton and modified Newton algorithm...	E04FYF
Unconstrained minimum of a sum of squares , combined Gauss–Newton and modified Newton algorithm...	E04HEF
Unconstrained minimum of a sum of squares , combined Gauss–Newton and modified Newton algorithm...	E04HYF
Unconstrained minimum of a sum of squares , combined Gauss–Newton and quasi-Newton algorithm...	E04GBF
Unconstrained minimum of a sum of squares , combined Gauss–Newton and quasi-Newton algorithm...	E04GYF
Least- squares cubic spline curve fit, automatic knot placement	E02BEF
Least- squares curve cubic spline fit (including interpolation)	E02BAF
Least- squares curve fit, by polynomials, arbitrary data points	E02ADF
Computes residual sums of squares for all possible linear regressions for a set of...	G02EAF
Computes sum of squares for contrast between means	G04DAF
Least- squares (if rank = n) or minimal least- squares (if rank < n)...	F04JGF
Least- squares (if rank = n) or minimal least- squares (if rank < n) solution of m real equations in n unknowns...	F04JGF
Computes a weighted sum of squares matrix	G02BUF
Computes a correlation matrix from a sum of squares matrix	G02BWF
Update a weighted sum of squares matrix with a new observation	G02BTF
Minimum of a sum of squares , nonlinear constraints, sequential QP method...	E04UNF
Least- squares polynomial fit, special data points (including interpolation)	E02AFF
Least- squares polynomial fit, values and derivatives may be...	E02AGF
Equality-constrained real linear least- squares problem	F04JMF
Equality-constrained complex linear least- squares problem	F04KMF
Convex QP problem or linearly-constrained linear least- squares problem (dense)	E04NCF
Sparse linear least- squares problem, m real equations in n unknowns	F04QAF
Covariance matrix for nonlinear least- squares problem (unconstrained)	E04YCF
Covariance matrix for linear least- squares problems, m real equations in n unknowns	F04YAF
ODEs, boundary value problem, collocation and least- squares , single n th-order linear equation	D02JAF
Least- squares solution of m real equations in n unknowns...	F04AMF
Minimal least- squares solution of m real equations in n unknowns...	F04JAF
Minimal least- squares solution of m real equations in n unknowns...	F04JDF
Least- squares surface fit, bicubic splines	E02DAF
Least- squares surface fit by bicubic splines with automatic knot...	E02DCF
Least- squares surface fit by bicubic splines with automatic knot...	E02DDF
Least- squares surface fit by polynomials, data on lines	E02CAF
ODEs, boundary value problem, collocation and least- squares , system of first-order linear equations	D02JBF
...system, RGMRES, CGS or Bi-CGSTAB method, Jacobi or SSOR preconditioner (Black Box)	F11DEF
...RGMRES, CGS, Bi-CGSTAB or TFQMR method, Jacobi or SSOR preconditioner (Black Box)	F11DSF
...conjugate gradient/Lanczos method, Jacobi or SSOR preconditioner (Black Box)	F11JEF
...conjugate gradient/Lanczos method, Jacobi or SSOR preconditioner (Black Box)	F11JSF
...preconditioning matrix generated by applying SSOR to complex sparse Hermitian matrix	F11JRF
...preconditioning matrix generated by applying SSOR to complex sparse non-Hermitian matrix	F11DRF
...pre-conditioning matrix generated by applying SSOR to real sparse nonsymmetric matrix	F11DDF
...preconditioning matrix generated by applying SSOR to real sparse symmetric matrix	F11JDF
Performs the χ^2 goodness of fit test, for standard continuous distributions	G08CGF
Robust estimation, median, median absolute deviation, robust standard deviation	G07DAF
Computes quantities needed for range-mean or standard deviation-mean plot	G13AUF
Performs the one-sample Kolmogorov–Smirnov test for standard distributions	G08CBF
...of a general linear regression model and its standard error	G02DNF
Computes estimable function of a generalized linear model and its standard error	G02GNF
...spectrum, bounds, impulse response function and its standard error	G13CGF
...completely randomized design, treatment means and standard errors	G04BBF
...general 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
Multivariate time series, updates forecasts and their standard errors	G13DKF
Estimates and standard errors of parameters of a general linear model...	G02GKF
Estimates and standard errors of parameters of a general linear regression model...	G02DKF
...generalized eigenproblem $Ax = \lambda Bx$ to standard form $Cy = \lambda y$, such that C has the same bandwidth as A	F08UEF
...generalized eigenproblem $Ax = \lambda Bx$ to standard form $Cy = \lambda y$, such that C has the same bandwidth as A	F08USF
Reduction to standard form, generalized real symmetric-definite banded...	F01BVF
Reduction to standard form of complex Hermitian-definite generalized...	F08SSF
Reduction to standard form of complex Hermitian-definite generalized...	F08TSF
Reduction to standard form of real symmetric-definite generalized...	F08SEF
Reduction to standard form of real symmetric-definite generalized...	F08TEF
Robust regression, standard M -estimates	G02HAF
Computes probabilities for the standard Normal distribution	G01EAF
Computes deviates for the standard Normal distribution	G01FAF
Robust estimation, M -estimates for location and scale parameters, standard weight functions	G07DBF
Calculates standardized residuals and influence statistics	G02FAF
Produces standardized values (z -scores) for a data matrix	G03ZAF
Computes probability for the Studentized range statistic	G01EMF
Computes bounds for the significance of a Durbin–Watson statistic	G01EPF
Computes deviates for the Studentized range statistic	G01FMF
Computes Durbin–Watson test statistic	G02FCF
...set of classification factors using selected statistic	G11BAF

	Computes <i>t</i> -test statistic for a difference in means between two Normal populations,...	G07CAF
	Computes test statistic for equality of within-group covariance matrices and...	G03DAF
Computes the exact probabilities for the Mann-Whitney <i>U</i>	statistic , no ties in pooled sample	G08AJF
Computes the exact probabilities for the Mann-Whitney <i>U</i>	statistic , ties in pooled sample	G08AKF
	Order statistics	G01ID
...quadratic forms in Normal variables, and related	statistics	G01NBF
Calculates standardized residuals and influence	statistics	G02FAF
Multivariate time series, sample partial lag correlation matrices, χ^2	statistics and significance levels	G13DNF
	χ^2 statistics for two-way contingency table	G11AAF
	Constructs a stem and leaf plot	G01ARF
	Transportation problem, modified ' stepping stone ' method	H03ABF
	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 is zero,...		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
Computes probability for the Studentized range statistic		G01EMF
Computes deviates for the Studentized range statistic		G01FMF
Computes probabilities for Student's <i>t</i> -distribution		G01EBF
Computes deviates for Student's <i>t</i> -distribution		G01FBF
Computes probabilities for the non-central Student's <i>t</i> -distribution		G01GBF
Pseudo-random real numbers, Student's <i>t</i> -distribution		G05DJF
	Second-order Sturm-Liouville problem, regular system, finite range,...	D02KAF
Second-order Sturm-Liouville problem, regular/singular system,...		D02KEF
Second-order Sturm-Liouville problem, regular/singular system,...		D02KDF
Two-way analysis of variance, hierarchical classification, subgroups of unequal size		G04AGF
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	Sum absolute values of complex vector elements	F06JKF
	Sum absolute values of real vector elements	F06EKF
	Sum of a Chebyshev series	C06DBF
Check user's routine for calculating Hessian of a	sum of squares	E04YBF
Unconstrained minimum of a	sum of squares, combined Gauss-Newton and modified Newton...	E04GDF
Unconstrained minimum of a	sum of squares, combined Gauss-Newton and modified Newton...	E04GZF
Unconstrained minimum of a	sum of squares, combined Gauss-Newton and modified Newton...	E04FCF
Unconstrained minimum of a	sum of squares, combined Gauss-Newton and modified Newton...	E04FYF
Unconstrained minimum of a	sum of squares, combined Gauss-Newton and modified Newton...	E04HEF
Unconstrained minimum of a	sum of squares, combined Gauss-Newton and modified Newton...	E04HYF
Unconstrained minimum of a	sum of squares, combined Gauss-Newton and quasi-Newton...	E04GBF
Unconstrained minimum of a	sum of squares, combined Gauss-Newton and quasi-Newton...	E04GYF
	Computes sum of squares for contrast between means	G04DAF
Computes a weighted	sum of squares matrix	G02BUF
Computes a correlation matrix from a	sum of squares matrix	G02BWF
Update a weighted	sum of squares matrix with a new observation	G02BTF
Minimum of a	sum of squares, nonlinear constraints, sequential QP method,...	E04UNF
	Sum or difference of two complex matrices,...	F01CWF
	Sum or difference of two real matrices,...	F01CTF
Computes a five-point	summary (median, hinges and extremes)	G01ALF
	Summation of Series	C06
Calculates R^2 and C_P values from residual	sums of squares	G02ECF
Computes residual	sums of squares for all possible linear regressions for...	G02EAF
	Least-squares surface fit, bicubic splines	E02DAF
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Computes Kaplan-Meier (product-limit) estimates of	survival probabilities	G12AAF
<i>QR</i> factorization, possibly followed by	SVD	F02WDF
	SVD of complex matrix (Black Box)	F02XEF
	SVD of complex upper triangular matrix (Black Box)	F02XUF
	SVD of real bidiagonal matrix reduced from complex general matrix	F08MSF
	SVD of real bidiagonal matrix reduced from real general matrix	F08MEF
	SVD of real matrix (Black Box)	F02WEF
	SVD of real upper triangular matrix (Black Box)	F02WUF
	Swap two complex vectors	F06GGF
	Swap two real vectors	F06EGF
	Solve real Sylvester matrix equation $AX + XB = C$, A and B are...	F08QHF
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Matrix-vector product, real	symmetric band matrix	F06PDF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, real	symmetric band matrix	F06REF
...Frobenius norm, largest absolute element, complex	symmetric band matrix	F06UHF
Orthogonal reduction of real	symmetric band matrix to symmetric tridiagonal form	F08HEF
All eigenvalues and optionally all eigenvectors of real	symmetric band matrix, using divide and conquer	F08HCF
Selected eigenvalues and eigenvectors of sparse	symmetric eigenproblem (Black Box)	F02J1F
Bunch-Kaufman factorization of real	symmetric indefinite matrix	F07MDF
Estimate condition number of real	symmetric indefinite matrix, matrix already factorized by F07MDF	F07MGF
Inverse of real	symmetric indefinite matrix, matrix already factorized by F07MDF	F07MJF
Estimate condition number of real	symmetric indefinite matrix, matrix already factorized by F07PDF,...	F07PGF
Inverse of real	symmetric indefinite matrix, matrix already factorized by F07PDF,...	F07PJF
Bunch-Kaufman factorization of real	symmetric indefinite matrix, packed storage	F07PDF
Refined solution with error bounds of real	symmetric indefinite system of linear equations,...	F07MHF
Solution of real	symmetric indefinite system of linear equations,...	F07MEF
Solution of real	symmetric indefinite system of linear equations,...	F07PEF
Refined solution with error bounds of real	symmetric indefinite system of linear equations,...	F07PHF
Solution of real sparse	symmetric linear system, conjugate gradient/Lanczos method,...	F11JEF
Solution of real sparse	symmetric linear system, conjugate gradient/Lanczos method,...	F11JCF
Real sparse	symmetric linear systems, diagnostic for F11GBF	F11GCF
Real sparse	symmetric linear systems, diagnostic for F11GEF	F11GFF
Real sparse	symmetric linear systems, pre-conditioned conjugate gradient or...	F11GBF
Real sparse	symmetric linear systems, pre-conditioned conjugate gradient or...	F11GEF
Real sparse	symmetric linear systems, set-up for F11GBF	F11GAF
Real sparse	symmetric linear systems, set-up for F11GEF	F11GDF
Apply real similarity rotation to 2 by 2	symmetric matrix	F06BHF
Compute eigenvalue of 2 by 2 real	symmetric matrix	F06BPF
Matrix-vector product, real	symmetric matrix	F06PCF

	Rank-1 update, real	symmetric matrix	F06PPF
	Rank-2 update, real	symmetric matrix	F06PRF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, real	...	symmetric matrix	F06RCF
...norm, largest absolute element, complex	...	symmetric matrix	F06UUF
Rank- k update of real	...	symmetric matrix	F06YPF
Rank- $2k$ update of real	...	symmetric matrix	F06YRF
Rank- k update of complex	...	symmetric matrix	F06ZUF
Rank- $2k$ update of complex	...	symmetric matrix	F06ZWF
Bunch–Kaufman factorization of complex	...	symmetric matrix	F07NRF
...matrix generated by applying SSOR to real sparse	...	symmetric matrix	F11JDF
Orthogonal similarity transformation of real	...	symmetric matrix as a sequence of plane rotations	F06QMF
All eigenvalues and eigenvectors of real	...	symmetric matrix (Black Box)	F02FAF
Selected eigenvalues and eigenvectors of real	...	symmetric matrix (Black Box)	F02FCF
Real sparse	...	symmetric matrix, incomplete Cholesky factorization	F11JAF
Estimate condition number of complex	...	symmetric matrix, matrix already factorized by F07NRF	F07NUF
Inverse of complex	...	symmetric matrix, matrix already factorized by F07NRF	F07NWF
Estimate condition number of complex	...	symmetric matrix, matrix already factorized by F07QRF,...	F07QUF
Inverse of complex	...	symmetric matrix, matrix already factorized by F07QRF,...	F07QWF
Matrix-matrix product, one complex	...	symmetric matrix, one complex rectangular matrix	F06ZTF
Matrix-matrix product, one real	...	symmetric matrix, one real rectangular matrix	F06YCF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, real	...	symmetric matrix, packed storage	F06RDF
...Frobenius norm, largest absolute element, complex	...	symmetric matrix, packed storage	F06UGF
Bunch–Kaufman factorization of complex	...	symmetric matrix, packed storage	F07QRF
All eigenvalues and optionally all eigenvectors of real	...	symmetric matrix, packed storage, using divide and conquer	F08GCF
Real sparse	...	symmetric matrix reorder routine	F11ZBF
Orthogonal reduction of real	...	symmetric matrix to symmetric tridiagonal form	F08FEF
Orthogonal reduction of real	...	symmetric matrix to symmetric tridiagonal form, packed storage	F08GEF
All eigenvalues and optionally all eigenvectors of real	...	symmetric matrix, using divide and conquer	F08FCF
...symmetric tridiagonal matrix, reduced from real	...	symmetric matrix using implicit QL or QR	F08JEF
Real sparse	...	symmetric matrix vector multiply	F11XEF
Matrix-vector product, real	...	symmetric packed matrix	F06PEF
Rank-1 update, real	...	symmetric packed matrix	F06PQF
Rank-2 update, real	...	symmetric packed matrix	F06PSF
Apply real	...	symmetric plane rotation to two vectors	F06PPF
Cholesky factorization of real	...	symmetric positive-definite band matrix	F07HDF
Computes a split	...	symmetric positive-definite band matrix A	F08UUF
Determinant of real	...	symmetric positive-definite band matrix (Black Box)	F03ACF
Estimate condition number of real	...	symmetric positive-definite band matrix,...	F07HGF
Refined solution with error bounds of real	...	symmetric positive-definite band system of linear equations,...	F07HFF
Solution of real	...	symmetric positive-definite band system of linear equations,...	F07HEF
Solution of real	...	symmetric positive-definite banded simultaneous linear equations,...	F04ACF
Inverse of real	...	symmetric positive-definite matrix	F01ADF
LL^T factorization and determinant of real	...	symmetric positive-definite matrix	F03AEF
Cholesky factorization of real	...	symmetric positive-definite matrix	F07DFD
...positive-definite tridiagonal matrix, reduced from real	...	symmetric positive-definite matrix	F08JGF
Determinant of real	...	symmetric positive-definite matrix (Black Box)	F03ABF
Estimate condition number of real	...	symmetric positive-definite matrix, matrix already factorized,...	F07FGF
Inverse of real	...	symmetric positive-definite matrix, matrix already factorized,...	F07JGF
Estimate condition number of real	...	symmetric positive-definite matrix, matrix already factorized,...	F07GGF
Inverse of real	...	symmetric positive-definite matrix, matrix already factorized,...	F07GJF
Cholesky factorization of real	...	symmetric positive-definite matrix, packed storage	F07GDF
Inverse of real	...	symmetric positive-definite matrix using iterative refinement	F01ABF
Solution of real	...	symmetric positive-definite simultaneous linear equations,...	F04AGF
Solution of real	...	symmetric positive-definite simultaneous linear equations,...	F04ASF
Solution of real	...	symmetric positive-definite simultaneous linear equations using,...	F04AFB
Solution of real	...	symmetric positive-definite simultaneous linear equations with,...	F04ABF
Refined solution with error bounds of real	...	symmetric positive-definite system of linear equations,...	F07HFF
Solution of real	...	symmetric positive-definite system of linear equations,...	F07FEF
Solution of real	...	symmetric positive-definite system of linear equations,...	F07GEF
Refined solution with error bounds of real	...	symmetric positive-definite system of linear equations,...	F07GHF
Update solution of the Yule–Walker equations for real	...	symmetric positive-definite Toeplitz matrix	F04MEF
Solution of the Yule–Walker equations for real	...	symmetric positive-definite Toeplitz matrix,...	F04FEF
Update solution of real	...	symmetric positive-definite Toeplitz system	F04MFF
Solution of real	...	symmetric positive-definite Toeplitz system,...	F04FFF
All eigenvalues and eigenvectors of real	...	symmetric positive-definite tridiagonal matrix, reduced,...	F08JUF
All eigenvalues and eigenvectors of real	...	symmetric positive-definite tridiagonal matrix, reduced,...	F08JGF
Solution of real	...	symmetric positive-definite tridiagonal simultaneous linear,...	F04FAF
LDL^T factorization of real	...	symmetric positive-definite variable-bandwidth matrix	F01MCF
Solution of real	...	symmetric positive-definite variable-bandwidth simultaneous linear,...	F04MCF
Refined solution with error bounds of complex	...	symmetric system of linear equations, multiple right-hand sides	F07NVF
Solution of complex	...	symmetric system of linear equations, multiple right-hand sides,...	F07NSF
Solution of complex	...	symmetric system of linear equations, multiple right-hand sides,...	F07QSF
Refined solution with error bounds of complex	...	symmetric system of linear equations, multiple right-hand sides,...	F07QVF
Orthogonal reduction of real symmetric matrix to	...	symmetric tridiagonal form	F08FEF
Unitary reduction of complex Hermitian matrix to real	...	symmetric tridiagonal form	F08FSF
Orthogonal reduction of real symmetric band matrix to	...	symmetric tridiagonal form	F08HEF
Unitary reduction of complex Hermitian band matrix to real	...	symmetric tridiagonal form	F08HSF
Orthogonal reduction of real symmetric matrix to	...	symmetric tridiagonal form, packed storage	F08GEF
Unitary reduction of complex Hermitian matrix to real	...	symmetric tridiagonal form, packed storage	F08GSF
Selected eigenvalues of real	...	symmetric tridiagonal matrix by bisection	F08JFF
Selected eigenvectors of real	...	symmetric tridiagonal matrix by inverse iteration,...	F08JXF
Selected eigenvectors of real	...	symmetric tridiagonal matrix by inverse iteration,...	F08JKF
All eigenvalues and eigenvectors of real	...	symmetric tridiagonal matrix, reduced from complex Hermitian,...	F08JSF
All eigenvalues and eigenvectors of real	...	symmetric tridiagonal matrix, reduced from real symmetric matrix,...	F08JEF
All eigenvalues and eigenvectors of real	...	symmetric tridiagonal matrix, root-free variant of QL or QR	F08JFF
All eigenvalues and optionally all eigenvectors of real	...	symmetric tridiagonal matrix, using divide and conquer	F08JCF
Reduction to standard form, generalized real	...	symmetric-definite banded eigenproblem	F01BVF
Reduction of real	...	symmetric-definite banded generalized eigenproblem $Ax = \lambda Bx, \dots$	F08UEF
All eigenvalues of generalized banded real	...	symmetric-definite eigenproblem (Black Box)	F02HFF
Reduction to standard form of real	...	symmetric-definite generalized eigenproblem $Ax = \lambda Bx, \dots$	F08SEF
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
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
Update solution of real symmetric positive-definite Toeplitz	...	system	F04MFF
Solution of real sparse symmetric linear	...	system, conjugate gradient/Lanczos method, Jacobi or...	F11JEF
Solution of complex sparse Hermitian linear	...	system, conjugate gradient/Lanczos method, Jacobi or...	F11JSF
Solution of real sparse symmetric linear	...	system, conjugate gradient/Lanczos method,...	F11JCF
Solution of complex sparse Hermitian linear	...	system, conjugate gradient/Lanczos method,...	F11JQF
Second-order Sturm–Liouville problem, regular	...	system, finite range, eigenvalue only	D02KAF
Second-order Sturm–Liouville problem, regular/singular	...	system, finite/infinite range, eigenvalue and eigenfunction,...	D02KEF
Second-order Sturm–Liouville problem, regular/singular	...	system, finite/infinite range, eigenvalue only,...	D02KDF
Solution of linear	...	system involving incomplete Cholesky preconditioning matrix,...	F11JBF
Solution of complex linear	...	system involving incomplete Cholesky preconditioning matrix,...	F11JPF
Solution of linear	...	system involving incomplete LU preconditioning matrix,...	F11DBF
Solution of complex linear	...	system involving incomplete LU preconditioning matrix,...	F11DPF
Solution of linear	...	system involving preconditioning matrix generated by applying,...	F11JRF
Solution of linear	...	system involving preconditioning matrix generated by applying,...	F11DRF
Solution of linear	...	system involving pre-conditioning matrix generated by applying,...	F11DDF
Solution of linear	...	system involving preconditioning matrix generated by applying,...	F11JDF
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
	System of equations, complex triangular band matrix	F06SKF
	System of equations, complex triangular matrix	F06SJF
	System of equations, complex triangular packed matrix	F06SLF
	System of equations, real triangular band matrix	F06PKF
	System of equations, real triangular matrix	F06PJF
	System of equations, real triangular packed matrix	F06PLF
	Solves system of equations with multiple right-hand sides,...	F06ZJF
	Solves system of equations with multiple right-hand sides,...	F06YJF
ODEs, boundary value problem, collocation and least-squares,	system of first-order linear equations	D02JBF
	General system of first-order PDEs, coupled DAEs, method of lines,...	D03PKF
	General system of first-order PDEs, coupled DAEs, method of lines,...	D03PRF
	General system of first-order PDEs, method of lines, Keller box...	D03PEF
	Refined solution with error bounds of real system of linear equations, multiple right-hand sides	F07AHF
	Refined solution with error bounds of complex system of linear equations, multiple right-hand sides	F07AVF
	Refined solution with error bounds of real band system of linear equations, multiple right-hand sides	F07BHF
	Refined solution with error bounds of complex band system of linear equations, multiple right-hand sides	F07BVF
	...error bounds of real symmetric positive-definite system of linear equations, multiple right-hand sides	F07FHF
	...bounds of complex Hermitian positive-definite system of linear equations, multiple right-hand sides	F07FVF
	...bounds of real symmetric positive-definite band system of linear equations, multiple right-hand sides	F07HHF
	...bounds of complex Hermitian positive-definite band system of linear equations, multiple right-hand sides	F07HVF
	Refined solution with error bounds of real symmetric indefinite system of linear equations, multiple right-hand sides	F07MHF
Refined solution with error bounds of complex Hermitian indefinite	system of linear equations, multiple right-hand sides	F07MVF
	Refined solution with error bounds of complex symmetric system of linear equations, multiple right-hand sides	F07NVF
	Solution of real triangular system of linear equations, multiple right-hand sides	F07TEF
	Error bounds for solution of real triangular system of linear equations, multiple right-hand sides	F07THF
	Solution of complex triangular system of linear equations, multiple right-hand sides	F07TVF
	Error bounds for solution of complex triangular system of linear equations, multiple right-hand sides	F07TVF
	Solution of real band triangular system of linear equations, multiple right-hand sides	F07VHF
	Error bounds for solution of real band triangular system of linear equations, multiple right-hand sides	F07VHF
	Solution of complex band triangular system of linear equations, multiple right-hand sides	F07VVF
Error bounds for solution of complex band triangular	system of linear equations, multiple right-hand sides,...	F07VVF
	Solution of real system of linear equations, multiple right-hand sides,...	F07AVF
	Solution of complex system of linear equations, multiple right-hand sides,...	F07ASF
	Solution of real band system of linear equations, multiple right-hand sides,...	F07BEF
	Solution of complex band system of linear equations, multiple right-hand sides,...	F07BSF
	Solution of real symmetric positive-definite system of linear equations, multiple right-hand sides,...	F07FEF
	Solution of complex Hermitian positive-definite system of linear equations, multiple right-hand sides,...	F07FSF
	Solution of real symmetric positive-definite system of linear equations, multiple right-hand sides,...	F07GEF
	Solution of complex Hermitian positive-definite system of linear equations, multiple right-hand sides,...	F07GSF
	Solution of real symmetric positive-definite band system of linear equations, multiple right-hand sides,...	F07HEF
Solution of complex Hermitian positive-definite band	system of linear equations, multiple right-hand sides,...	F07HSF
	Solution of real symmetric indefinite system of linear equations, multiple right-hand sides,...	F07MEF
	Solution of complex Hermitian indefinite system of linear equations, multiple right-hand sides,...	F07MSF
	Solution of real symmetric indefinite system of linear equations, multiple right-hand sides,...	F07NSF
	Solution of complex Hermitian indefinite system of linear equations, multiple right-hand sides,...	F07PEF
	Solution of real symmetric indefinite system of linear equations, multiple right-hand sides,...	F07PSF
	Solution of complex symmetric system of linear equations, multiple right-hand sides,...	F07QSF
	...error bounds of real symmetric positive-definite system of linear equations, multiple right-hand sides, packed storage	F07GHF
	...bounds of complex Hermitian positive-definite system of linear equations, multiple right-hand sides, packed storage	F07GVF
Refined solution with error bounds of real symmetric indefinite	system of linear equations, multiple right-hand sides, packed storage	F07PHF
Refined solution with error bounds of complex Hermitian indefinite	system of linear equations, multiple right-hand sides, packed storage	F07PVF
Refined solution with error bounds of complex symmetric	system of linear equations, multiple right-hand sides, packed storage	F07QVF
	Solution of real triangular system of linear equations, multiple right-hand sides, packed storage	F07UEF
	Error bounds for solution of real triangular system of linear equations, multiple right-hand sides, packed storage	F07UHF
	Solution of complex triangular system of linear equations, multiple right-hand sides, packed storage	F07USF
	Error bounds for solution of complex triangular system of linear equations, multiple right-hand sides, packed storage	F07UVF
	Solution of system of nonlinear equations using first derivatives (comprehensive)	C05PCF
	Solution of system of nonlinear equations using first derivatives (easy-to-use)	C05PBF
	Solution of system of nonlinear equations using first derivatives...	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 system of nonlinear equations using function values only...	C05NDF
	General system of parabolic PDEs, coupled DAEs, method of lines,...	D03PJF
	General system of parabolic PDEs, coupled DAEs, method of lines,...	D03PHF
	General system of parabolic PDEs, coupled DAEs, method of lines,...	D03PPF
	General system of parabolic PDEs, method of lines, Chebyshev C^0 ...	D03PDF
	General system of parabolic PDEs, method of lines, finite differences,...	D03PCF
	General system of second-order PDEs, method of lines, finite differences,...	D03RAF
	General system of second-order PDEs, method of lines, finite differences,...	D03RBF
Solution of real symmetric positive-definite Toeplitz	system , one right-hand side	F04FFF
	Solution of complex sparse non-Hermitian linear system , RGMRES, CGS, Bi-CGSTAB or TFQMR method,...	F11DSF
	Solution of complex sparse non-Hermitian linear system , RGMRES, CGS, Bi-CGSTAB or TFQMR method,...	F11DQF
	Solution of real sparse nonsymmetric linear system , RGMRES, CGS or Bi-CGSTAB method, Jacobi or SSOR...	F11DEF
	Solution of real sparse nonsymmetric linear system , RGMRES, CGS or Bi-CGSTAB method,...	F11DCF
	Real sparse nonsymmetric linear systems , diagnostic for F11BBF	F11BCF
	Real sparse nonsymmetric linear systems , diagnostic for F11BEF	F11BFF
Complex sparse non-Hermitian linear	systems , diagnostic for F11BSF	F11BTF
	Real sparse symmetric linear systems , diagnostic for F11GBF	F11GCF
	Real sparse symmetric linear systems , diagnostic for F11GEF	F11GFF
	Real sparse nonsymmetric linear systems , incomplete LU factorization	F11DAF
Complex sparse non-Hermitian linear	systems , incomplete LU factorization	F11DNF
	Real sparse nonsymmetric linear systems , line Jacobi preconditioner	F11DKF
	Real sparse symmetric linear systems , pre-conditioned conjugate gradient or Lanczos	F11GBF
	Real sparse symmetric linear systems , pre-conditioned conjugate gradient or Lanczos, threadsafe	F11GEF
	Real sparse nonsymmetric linear systems , preconditioned RGMRES, CGS, Bi-CGSTAB...	F11BEF
Complex sparse non-Hermitian linear	systems , preconditioned RGMRES, CGS, Bi-CGSTAB...	F11BSF
	Real sparse nonsymmetric linear systems , preconditioned RGMRES, CGS or Bi-CGSTAB	F11BBF
	Real sparse nonsymmetric linear systems , set-up for F11BBF	F11BAF
	Real sparse nonsymmetric linear systems , set-up for F11BEF	F11BDF
Complex sparse non-Hermitian linear	systems , set-up for F11BSF	F11BRF
	Real sparse symmetric linear systems , set-up for F11GBF	F11GAF
	Real sparse symmetric linear systems , set-up for F11GEF	F11GDF
	Multi-dimensional quadrature, Sag-Szekeres method, general product region or n -sphere	D01DFD
	Computes probabilities for Student's t -distribution	G01EBF
	Computes deviates for Student's t -distribution	G01FBF
Computes probabilities for the non-central Student's t -distribution		G01GBF
	Pseudo-random real numbers, Student's t -distribution	G05DJF
	Computes t -test statistic for a difference in means between two Normal...	G07CAF
...skewness, kurtosis, etc, one variable, from frequency	table	G01ADF
	χ^2 statistics for two-way contingency table	G11AAF
	Two-way contingency table analysis, with χ^2 /Fisher's exact test	G01AFF
Computes marginal tables for multiway	table computed by G11BAF or G11BBF	G11BCF
	Frequency table from raw data	G01AEF
	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
	Contingency table , latent variable model for binary data	G11SAF
	Computes marginal tables for multiway table computed by G11BAF or G11BBF	G11BCF

Computes upper and lower tail probabilities and probability density function for...	G01EEF
Computes lower tail probability for a linear combination of (central) χ^2 variables	G01JDF
$\tan x$	S07AAF
Generate real plane rotation, storing tangent	F06BAF
Recover cosine and sine from given real tangent	F06BCF
Generate complex plane rotation, storing tangent , real cosine	F06CAF
Recover cosine and sine from given complex tangent , real cosine	F06CCF
Generate complex plane rotation, storing tangent , real sine	F06CBF
Recover cosine and sine from given complex tangent , real sine	F06CDF
$\tanh x$	S10AAF
Two-way contingency table analysis, with χ^2 /Fisher's exact test	G01AFF
Performs the Wilcoxon one-sample (matched pairs) signed rank test	G08AGF
Performs the two-sample Kolmogorov-Smirnov test	G08CDF
Performs the one-sample Kolmogorov-Smirnov test for a user-supplied distribution	G08CCF
Shapiro and Wilk's W test for Normality	G01DDF
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
Performs the χ^2 goodness of fit test , for standard continuous distributions	G08CGF
Performs the one-sample Kolmogorov-Smirnov test for standard distributions	G08CBF
Performs the Cochran Q test on cross-classified binary data	G08ALF
Performs the Mann-Whitney U test on two independent samples	G08AHF
Sign test on two paired samples	G08AAF
Median test on two samples of unequal size	G08ACF
Computes Durbin-Watson test statistic	G02FCF
Computes t - test statistic for a difference in means between two Normal...	G07CAF
Computes test statistic for equality of within-group covariance matrices...	G03DAF
Dispersion tests	G08
Goodness of fit tests	G08
Location tests	G08
Non-parametric tests	G08
Mood's and David's tests on two samples of unequal size	G08BAF
...systems, preconditioned RGMRES, CGS, Bi-CGSTAB or TFQMR method	F11BEF
...systems, preconditioned RGMRES, CGS, Bi-CGSTAB or TFQMR method	F11BSF
...non-Hermitian linear system, RGMRES, CGS, Bi-CGSTAB or TFQMR method, Jacobi or SSOR preconditioner (Black Box)	F11DSF
...non-Hermitian linear system, RGMRES, CGS, Bi-CGSTAB or TFQMR method, preconditioner computed by F11DNF (Black Box)	F11DQF
Elliptic PDE, Helmholtz equation, three-dimensional Cartesian co-ordinates	D03FAF
Three-dimensional complex discrete Fourier transform	C06FXF
Three-dimensional complex discrete Fourier transform, complex...	C06PXF
...finite difference equations by SIP for seven-point three-dimensional molecule, iterate to convergence	D03ECF
...finite difference equations by SIP, seven-point three-dimensional molecule, one iteration	D03UBF
...probabilities for the Mann-Whitney U statistic, no ties in pooled sample	G08AJF
...probabilities for the Mann-Whitney U statistic, ties in pooled sample	G08AKF
Compare two character strings representing date and time	X05ACF
Return the CPU time	X05BAF
Return date and time as an array of integers	X05AAF
Multivariate time series, cross amplitude spectrum, squared coherency,...	G13CEF
Multivariate time series, cross-correlations	G13BCF
Univariate time series, diagnostic checking of residuals,...	G13ASF
Multivariate time series, diagnostic checking of residuals,...	G13DSF
Multivariate time series, differences and/or transforms...	G13DLF
Multivariate time series, estimation of multi-input model	G13BEF
Multivariate time series, estimation of VARMA model	G13DCF
Univariate time series, estimation, seasonal ARIMA model (comprehensive)	G13AEF
Univariate time series, estimation, seasonal ARIMA model (easy-to-use)	G13AFF
Multivariate time series, filtering by a transfer function model	G13BBF
Multivariate time series, filtering (pre-whitening) by an ARIMA model	G13BAF
Univariate time series, forecasting from state set	G13AHF
Multivariate time series, forecasting from state set of multi-input model	G13BHF
Multivariate time series, forecasts and their standard errors	G13DJF
Generates a realisation of a multivariate time series from a VARMA model	G05HDF
Multivariate time series, gain, phase, bounds, univariate and bivariate...	G13CFF
Set up reference vector for univariate ARMA time series model	G05EGF
Generate next term from reference vector for ARMA time series model	G05EWF
Multivariate time series, multiple squared partial autocorrelations	G13DBF
Multivariate time series, noise spectrum, bounds, impulse response function...	G13CGF
Univariate time series, partial autocorrelations from autocorrelations	G13ACF
Multivariate time series, partial autoregression matrices	G13DPF
Multivariate time series, preliminary estimation of transfer function model	G13BDF
Univariate time series, preliminary estimation, seasonal ARIMA model	G13ADF
Univariate time series, sample autocorrelation function	G13ABF
Multivariate time series, sample cross-correlation or cross-covariance matrices	G13DMF
Multivariate time series, sample partial lag correlation matrices, χ^2 statistics...	G13DNF
Univariate time series, seasonal and non-seasonal differencing	G13AAF
Multivariate time series, smoothed sample cross spectrum using rectangular,...	G13CCF
Multivariate time series, smoothed sample cross spectrum using...	G13CDF
Univariate time series, smoothed sample spectrum using...	G13CAF
Univariate time series, smoothed sample spectrum using...	G13CBF
Multivariate time series, state set and forecasts from...	G13JF
Univariate time series, state set and forecasts, from...	G13AJF
Univariate time series, update state set for forecasting	G13AGF
Multivariate time series, update state set for forecasting from...	G13BGF
Multivariate time series, updates forecasts and their standard errors	G13DKF
Convert array of integers representing date and time to character string	X05ABF
Combined measurement and time update, one iteration of Kalman filter, time-invariant,...	G13EBF
Combined measurement and time update, one iteration of Kalman filter, time-varying,...	G13EAF
...time update, one iteration of Kalman filter, time-invariant , square root covariance filter	G13EBF
...time update, one iteration of Kalman filter, time-varying , square root covariance filter	G13EAF
...equations for real symmetric positive-definite Toeplitz matrix	F04MEF
...equations for 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
Multivariate time series, filtering by a transfer function model	G13BBF
Multivariate time series, preliminary estimation of transfer function model	G13BDF
Two-dimensional complex discrete Fourier transform	C06FUF
Three-dimensional complex discrete Fourier transform	C06FXF
Discrete sine transform	C06HAF
Discrete cosine transform	C06HBF
Discrete quarter-wave sine transform	C06HCF
Discrete quarter-wave cosine transform	C06HDF
...function $1/(x - c)$, Cauchy principal value (Hilbert transform)	D01AQF

	Evaluate inverse Laplace transform as computed by C06LBF	C06LCF
Single one-dimensional complex discrete Fourier transform, complex data format		C06PCF
Two-dimensional complex discrete Fourier transform, complex data format		C06PUF
Three-dimensional complex discrete Fourier transform, complex data format		C06PXF
Inverse Laplace transform, Crump's method		C06LAF
Discrete sine transform (easy-to-use)		C06RAF
Discrete cosine transform (easy-to-use)		C06RBF
Discrete quarter-wave sine transform (easy-to-use)		C06RCF
Discrete quarter-wave cosine transform (easy-to-use)		C06RDF
Transform eigenvectors of complex balanced matrix to...		F08NWF
Transform eigenvectors of real balanced matrix to...		F08NWF
Single one-dimensional real discrete Fourier transform, extra workspace for greater speed		F08NWF
Single one-dimensional Hermitian discrete Fourier transform, extra workspace for greater speed		C06FAF
Single one-dimensional complex discrete Fourier transform, extra workspace for greater speed		C06FBF
Inverse Laplace transform, modified Weeks' method		C06FCF
Single one-dimensional real discrete Fourier transform, no extra workspace		C06LBF
Single one-dimensional Hermitian discrete Fourier transform, no extra workspace		C06EAF
Single one-dimensional complex discrete Fourier transform, no extra workspace		C06EBF
One-dimensional complex discrete Fourier transform of multi-dimensional data		C06ECF
Multi-dimensional complex discrete Fourier transform of multi-dimensional data		C06FFF
One-dimensional complex discrete Fourier transform of multi-dimensional data (using complex data type)		C06FJF
Multi-dimensional complex discrete Fourier transform of multi-dimensional data (using complex data type)		C06PFF
Single one-dimensional real and Hermitian complex discrete Fourier transform, using complex data format for Hermitian sequences		C06PJF
		C06PAF
...factorization of real matrix using orthogonal similarity transformation		F08QFF
...factorization of complex matrix using unitary similarity transformation		F08QTF
Acceleration of convergence of sequence, Shanks' transformation and epsilon algorithm		C06BAF
Apply orthogonal transformation determined by F08AEF or F08BEF		F08AGF
Apply orthogonal transformation determined by F08AHF		F08AKF
Apply unitary transformation determined by F08ASF or F08BSF		F08AUF
Apply unitary transformation determined by F08AVF		F08AXF
Apply orthogonal transformation determined by F08FEF		F08FGF
Apply orthogonal transformation determined by F08GEF		F08GGF
Generate orthogonal transformation matrices from reduction to bidiagonal form...		F08KFF
Generate unitary transformation matrices from reduction to bidiagonal form...		F08KTF
Apply unitary transformation matrix determined by F08FSF		F08FUF
Apply unitary transformation matrix determined by F08GSF		F08GUF
Generate orthogonal transformation matrix from reduction to Hessenberg form...		F08NFF
Apply orthogonal transformation matrix from reduction to Hessenberg form...		F08NGF
Generate unitary transformation matrix from reduction to Hessenberg form...		F08NTF
Apply unitary transformation matrix from reduction to Hessenberg form...		F08NUF
Generate orthogonal transformation matrix from reduction to tridiagonal form...		F08FFF
Generate unitary transformation matrix from reduction to tridiagonal form...		F08FTF
Generate orthogonal transformation matrix from reduction to tridiagonal form...		F08GFF
Generate unitary transformation matrix from reduction to tridiagonal form...		F08GTF
Unitary similarity transformation of Hermitian matrix as a sequence of plane...		F06TMF
Orthogonal similarity transformation of real symmetric matrix as a sequence of plane...		F06QMF
Apply orthogonal transformations from reduction to bidiagonal form determined...		F08KGF
Apply unitary transformations from reduction to bidiagonal form determined...		F08KUF
Multiple one-dimensional real discrete Fourier transforms		C06PFF
Multiple one-dimensional Hermitian discrete Fourier transforms		C06FQF
Multiple one-dimensional complex discrete Fourier transforms		C06FRF
Multivariate time series, differences and/or transforms (for use before G13DCF)		G13DLF
Multiple one-dimensional complex discrete Fourier transforms using complex data format		C06PRF
Multiple one-dimensional complex discrete Fourier transforms using complex data format and sequences stored...		C06PSF
...one-dimensional real and Hermitian complex discrete Fourier transforms, using complex data format for Hermitian sequences		C06PPF
...one-dimensional real and Hermitian complex discrete Fourier transforms, using complex data format for Hermitian sequences...		C06PQF
Transportation problem, modified 'stepping stone' method		H03ABF
Matrix transposition		F01CRF
Sum or difference of two real matrices, optional scaling and transposition		F01CTF
Sum or difference of two complex matrices, optional scaling and transposition		F01CWF
...sample spectrum using spectral smoothing by the trapezium frequency (Daniell) window		G13CBF
...cross spectrum using spectral smoothing by the trapezium frequency (Daniell) window		G13CDF
Matrix copy, real rectangular or trapezoidal matrix		F06QFF
Matrix copy, complex rectangular or trapezoidal matrix		F06TFF
RQ factorization of complex m by n upper trapezoidal matrix ($m \leq n$)		F01RGF
RQ factorization of real m by n upper trapezoidal matrix ($m \leq n$)		F01QGF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, real trapezoidal/triangular matrix		F06RJF
...Frobenius norm, largest absolute element, complex trapezoidal/triangular matrix		F06UJF
Convert real matrix between packed triangular and square storage schemes		F01ZAF
Convert complex matrix between packed triangular and square storage schemes		F01ZBF
Matrix-vector product, real triangular band matrix		F06PGF
System of equations, real triangular band matrix		F06PKF
1-norm, ∞ -norm, Frobenius norm, largest absolute element, real triangular band matrix		F06RLF
Matrix-vector product, complex triangular band matrix		F06SGF
System of equations, complex triangular band matrix		F06SKF
...Frobenius norm, largest absolute element, complex triangular band matrix		F06ULF
Solves system of equations with multiple right-hand sides, real triangular coefficient matrix		F06YJF
Solves system of equations with multiple right-hand sides, complex triangular coefficient matrix		F06ZJF
Matrix-vector product, real triangular matrix		F06PFF
System of equations, real triangular matrix		F06PJF
...plane rotations, rank-1 update of real upper triangular matrix		F06QPF
...matrix by sequence of plane rotations, real upper triangular matrix		F06QVF
...matrix by sequence of plane rotations, real upper triangular matrix		F06QWF
...norm, largest absolute element, real trapezoidal/triangular matrix		F06RJF
Matrix-vector product, complex triangular matrix		F06SFF
System of equations, complex triangular matrix		F06SJF
...plane rotations, rank-1 update of complex upper triangular matrix		F06TFP
...by sequence of plane rotations, complex upper triangular matrix		F06TVF
...by sequence of plane rotations, complex upper triangular matrix		F06TWF
...largest absolute element, complex trapezoidal/triangular matrix		F06UJF
Estimate condition number of real triangular matrix		F07TGF
Inverse of real triangular matrix		F07TJF
Estimate condition number of complex triangular matrix		F07TUF
Inverse of complex triangular matrix		F07TWF
Estimate condition number of real band triangular matrix		F07VGF
Estimate condition number of complex band triangular matrix		F07VUF
Left and right eigenvectors of real upper quasi-triangular matrix		F08QKF
...eigenvalues and eigenvectors of real upper quasi-triangular matrix		F08QLF
Left and right eigenvectors of complex upper triangular matrix		F08QXF
...eigenvalues and eigenvectors of complex upper triangular matrix		F08QYF
QR factorization by sequence of plane rotations, real upper triangular matrix augmented by a full row		F06QQF
QR factorization by sequence of plane rotations, complex upper triangular matrix augmented by a full row		F06TQF
SVD of real upper triangular matrix (Black Box)		F02WUF
SVD of complex upper triangular matrix (Black Box)		F02XUF
Print real packed triangular matrix (comprehensive)		X04CDF
Print complex packed triangular matrix (comprehensive)		X04DDF
Print real packed triangular matrix (easy-to-use)		X04CCF
Print complex packed triangular matrix (easy-to-use)		X04DCF

Matrix-matrix product, one complex	triangular matrix, one complex rectangular matrix	F06ZFF
Matrix-matrix product, one real	triangular matrix, one real rectangular matrix	F06YFF
1-norm, ∞ -norm, 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	F07UGF
Inverse of real	triangular matrix, packed storage	F07UJF
Estimate condition number of complex	triangular matrix, packed storage	F07UUF
Inverse of complex	triangular matrix, packed storage	F07UWF
...equation $AX + XB = C$, A and B are upper	triangular or conjugate-transposes	F08QVF
...equation $AX + XB = C$, A and B are upper quasi-	triangular or transposes	F08QHF
Matrix-vector product, real	triangular packed matrix	F06PHF
System of equations, real	triangular packed matrix	F06PLF
Matrix-vector product, complex	triangular packed matrix	F06SHF
System of equations, complex	triangular packed matrix	F06SLF
Solution of real	triangular system of linear equations, multiple right-hand sides	F07TEF
Error bounds for solution of real	triangular system of linear equations, multiple right-hand sides	F07THF
Solution of complex	triangular system of linear equations, multiple right-hand sides	F07TSF
Error bounds for solution of complex	triangular system of linear equations, multiple right-hand sides	F07TVF
Solution of real band	triangular system of linear equations, multiple right-hand sides	F07VEF
Error bounds for solution of real band	triangular system of linear equations, multiple right-hand sides	F07VHF
Solution of complex band	triangular system of linear equations, multiple right-hand sides	F07VSF
Error bounds for solution of complex band	triangular system of linear equations, multiple right-hand sides	F07VVF
Solution of real	triangular system of linear equations, multiple right-hand sides,...	F07UEF
Error bounds for solution of real	triangular system of linear equations, multiple right-hand sides,...	F07UHF
Solution of complex	triangular system of linear equations, multiple right-hand sides,...	F07USF
Error bounds for solution of complex	triangular system of linear equations, multiple right-hand sides,...	F07UVF
QR factorization of UZ or RQ factorization of ZU , U real upper	triangular , Z a sequence of plane rotations	F06QTF
... RQ factorization of ZU , U complex upper	triangular , Z a sequence of plane rotations	F06TTF
	Triangulation of plane region	D03MAF
Orthogonal reduction of real symmetric matrix to symmetric	tridiagonal form	F08FEF
Unitary reduction of complex Hermitian matrix to real symmetric	tridiagonal form	F08FSF
Orthogonal reduction of real symmetric band matrix to symmetric	tridiagonal form	F08HEF
...complex Hermitian band matrix to real symmetric	tridiagonal form	F08HSF
Generate orthogonal transformation matrix from reduction to	tridiagonal form determined by	F08FFP
Generate unitary transformation matrix from reduction to	tridiagonal form determined by	F08FSF
Generate orthogonal transformation matrix from reduction to	tridiagonal form determined by	F08GEF
Generate unitary transformation matrix from reduction to	tridiagonal form determined by	F08GSF
Orthogonal reduction of real symmetric matrix to symmetric	tridiagonal form, packed storage	F08GEF
Unitary reduction of complex Hermitian matrix to real symmetric	tridiagonal form, packed storage	F08GSF
LU factorization of real	tridiagonal matrix	F01LEF
Selected eigenvalues of real symmetric	tridiagonal matrix by bisection	F08JJF
Selected eigenvectors of real symmetric	tridiagonal matrix by inverse iteration, storing eigenvectors...	F08JXF
Selected eigenvectors of real symmetric	tridiagonal matrix by inverse iteration, storing eigenvectors...	F08JKF
All eigenvalues and eigenvectors of real symmetric	tridiagonal matrix, reduced from complex Hermitian matrix,...	F08JSP
All eigenvalues 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 using...	F08JEF
All eigenvalues 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
All eigenvalues and optionally all eigenvectors of real symmetric	tridiagonal matrix, using divide and conquer	F08JCF
Solution of real	tridiagonal simultaneous linear equations...	F04LEF
Solution of real	tridiagonal simultaneous linear equations, one right-hand side...	F04EAF
Solution of real symmetric positive-definite	tridiagonal simultaneous linear equations, one right-hand side...	F04FAF
	Computes a trimmed and winsorized mean of a single sample with estimates...	G07DDF
	Performs the triplets test for randomness	G08ECF
...sample spectrum using rectangular, Bartlett,	Tukey or Parzen lag window	G13CAF
...sample cross spectrum using rectangular, Bartlett,	Tukey or Parzen lag window	G13CCF
Elliptic PDE, Laplace's equation,	two-dimensional arbitrary domain	D03EAF
	Two-dimensional complex discrete Fourier transform	C06PUF
	Two-dimensional complex discrete Fourier transform,...	C06PUF
	Sort two-dimensional data into panels for fitting bicubic splines	E02ZAF
...finite difference equations by SIP, five-point	two-dimensional molecule, iterate to convergence	D03EBF
...finite difference equations by SIP, five-point	two-dimensional molecule, one iteration	D03UAF
	Computes probabilities for the two-sample Kolmogorov-Smirnov distribution	G01EZF
	Performs the two-sample Kolmogorov-Smirnov test	G08CDF
	Two-way analysis of variance, hierarchical classification,...	G04AGF
Friedman	two-way analysis of variance on k matched samples	G08AEF
χ^2 statistics for	two-way contingency table	G11AAF
	Two-way contingency table analysis, with χ^2 /Fisher's exact test	G01AFF
Regression using ranks,	uncensored data	G08RAF
Dot product of two complex vectors,	unconjugated	F06GAF
Dot product of two complex sparse vector,	unconjugated	F06GRF
Rank-1 update, complex rectangular matrix,	unconjugated vector	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...	E04FCF
	Unconstrained minimum of a sum of squares, combined...	E04FYF
	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...	E04GBF
	Unconstrained minimum of a sum of squares, combined...	E04GYF
	Unconstrained minimum, pre-conditioned conjugate gradient...	E04DGF
	Unconstrained minimum, simplex algorithm, function of...	E04CCF
Switch for taking precautions to avoid	underflow	X02DAF
Interpolated values, Aitken's technique,	unequally spaced data, one variable	E01AAF
Pseudo-random integer from	uniform distribution	G05DYF
Set up 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 factorization by F01RJF	F01RKF
Form all or part of	unitary Q from LQ factorization determined by F08AVF	F08AWF
Form all or part of	unitary Q from QR factorization determined by F08ASF or F08BSF	F08ATF
	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...	F08HSF
	Unitary reduction of complex Hermitian matrix to...	F08FSF
	Unitary reduction of complex Hermitian matrix to...	F08GSF
Reorder Schur factorization of complex matrix using	unitary similarity transformation	F08QTF
	Unitary similarity transformation of Hermitian matrix as...	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...	F08KUF
...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 residuals,...	G13ASF
	Univariate time series, estimation, seasonal ARIMA model...	G13AEF
	Univariate time series, estimation, seasonal ARIMA model...	G13AFF
	Univariate time series, forecasting from state set	G13AHF
	Univariate time series, partial autocorrelations from autocorrelations	G13ACF
	Univariate time series, preliminary estimation, seasonal ARIMA...	G13ADF
	Univariate time series, sample autocorrelation function	G13ABF
	Univariate time series, seasonal and non-seasonal differencing	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 fully specified...	G13AJF
	Univariate time series, update state set for forecasting	G13AGF
	Update a weighted sum of squares matrix with a new observation	G02BTF
Rank-1	update , complex Hermitian matrix	F06SPF
Rank-2	update , complex Hermitian matrix	F06SRF
Rank-1	update , complex Hermitian packed matrix	F06SQF
Rank-2	update , complex Hermitian packed matrix	F06SSF
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	F06JF
Rank- k	update of complex Hermitian matrix	F06ZPF
Rank- $2k$	update of complex Hermitian matrix	F06ZRF
Rank- k	update of complex symmetric matrix	F06ZUF
Rank- $2k$	update of complex symmetric matrix	F06ZWF
QR factorization by sequence of plane rotations, rank-1	update of complex upper triangular matrix	F06TPF
Rank- k	update of real symmetric matrix	F06YPF
Rank- $2k$	update of real symmetric matrix	F06YRF
QR 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, time-invariant,...	G13EBF
Combined measurement and time	update , one iteration of Kalman filter, time-varying,...	G13EAF
Rank-1	update , real rectangular matrix	F06PMF
Rank-1	update , real symmetric matrix	F06PPF
Rank-2	update , real symmetric matrix	F06PRF
Rank-1	update , real symmetric packed matrix	F06PQF
Rank-2	update , real symmetric packed matrix	F06PSF
	Update solution of real symmetric positive-definite Toeplitz system	F04MFF
	Update solution of the Yule-Walker equations for real symmetric...	F04MEF
Univariate time series,	update state set for forecasting	G13AGF
Multivariate time series,	update state set for forecasting from multi-input model	G13BGF
...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 density...	G01EEF
Orthogonal reduction of real general matrix to	upper Hessenberg form	F08NEF
Unitary reduction of complex general matrix to	upper Hessenberg form	F08NSF
QR or RQ factorization by sequence of plane rotations, real	upper Hessenberg matrix	F06QBF
QR or RQ factorization by sequence of plane rotations, complex	upper Hessenberg matrix	F06TRF
Selected right and/or left eigenvectors of real	upper Hessenberg matrix by inverse iteration	F08PKF
Selected right and/or left eigenvectors of complex	upper Hessenberg matrix by inverse iteration	F08PNF
Compute	upper Hessenberg matrix by sequence of plane rotations,...	F06TVF
Compute	upper Hessenberg matrix by sequence of plane rotations,...	F06VVF
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
Left and right eigenvectors of real	upper quasi-triangular matrix	F08QKF
...selected eigenvalues and eigenvectors of real	upper quasi-triangular matrix	F08QLF
Solve real Sylvester matrix equation $AX + XB = C$, A and B are	upper quasi-triangular or transposes	F08QHF
QR or RQ factorization by sequence of plane rotations, real	upper spiked matrix	F06QSF
QR or RQ factorization by sequence of plane rotations, complex	upper spiked matrix	F06TSF
Compute	upper spiked matrix by sequence of plane rotations,...	F06TWF
Compute	upper spiked matrix by sequence of plane rotations,...	F06QWF
RQ factorization of complex m by n	upper trapezoidal matrix ($m < n$)	F01RGF
RQ factorization of real m by n	upper trapezoidal matrix ($m \leq n$)	F01QGF
...sequence of plane rotations, rank-1 update of real	upper triangular matrix	F06QPF
...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
...of plane rotations, rank-1 update of complex	upper triangular matrix	F06TPF
...matrix by sequence of plane rotations, complex	upper triangular matrix	F06TVF
...matrix by sequence of plane rotations, complex	upper triangular matrix	F06TWF
Left and right eigenvectors of complex	upper triangular matrix	F08QXF
...selected eigenvalues and eigenvectors of complex	upper triangular matrix	F08QYF
QR factorization by sequence of plane rotations, real	upper triangular matrix augmented by a full row	F06QQF
QR factorization by sequence of plane rotations, complex	upper triangular matrix augmented by a full row	F06TQF
SVD of real	upper triangular matrix (Black Box)	F02WUF
SVD of complex	upper triangular matrix (Black Box)	F02XUF
...matrix equation $AX + XB = C$, A and B are	upper triangular or conjugate-transposes	F08QVF
QR factorization of UZ or RQ factorization of ZU , U real	upper triangular, Z a sequence of plane rotations	F06QTF
QR factorization of UZ or RQ factorization of ZU , U complex	upper triangular, Z a sequence of plane rotations	F06TTF
...terms in conservative form, method of lines,	upwind scheme using numerical flux function based on Riemann...	D03PFF
...conservative form, coupled DAEs, method of lines,	upwind scheme using numerical flux function based on Riemann...	D03PLF
...conservative form, coupled DAEs, method of lines,	upwind scheme using numerical flux function based on Riemann...	D03PSF
	Input/output utilities	X04
...mean of a single sample with estimates of their	variance	G07DDF
Analysis of	variance , complete factorial design, treatment means and...	G04CAF
Analysis of	variance , general row and column design, treatment means and...	G04BCF
Two-way analysis of	variance , hierarchical classification, subgroups of unequal size	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 design,...	G04BBF
Mean,	variance , skewness, kurtosis, etc, one variable, from frequency table	G01ADF
Mean,	variance , skewness, kurtosis, etc, one variable, from raw data	G01AAF
Mean,	variance , skewness, kurtosis, etc, two variables, from raw data	G01ABF
Computes Mahalanobis squared distances for group or pooled	variance-covariance matrices (for use after G03DAF)	G03DBF
Normal scores, approximate	variance-covariance matrix	G01DCF
...correlation/variance-covariance 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 correlation/variance-covariance...	G02BYF

Performs canonical variate analysis	G03ACF
Generates a vector of pseudo-random variates from von Mises distribution	G05FSF
Generates a realisation of a multivariate time series from a VARMA model	G05HDF
Multivariate time series, estimation of VARMA model	G13DCCF
Broadcast scalar into integer vector	F06DBF
Copy integer vector	F06DFF
Add scalar times real vector to real vector	F06ECF
Copy real vector	F06EFF
Compute Euclidean norm of real vector	F06EJF
Add scalar times real sparse vector to real sparse vector	F06ETF
Gather real sparse vector	F06EUF
Gather and set to zero real sparse vector	F06EVF
Scatter real sparse vector	F06EWF
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
Add scalar times complex vector to complex vector	F06GCF
Copy complex vector	F06GFF
Add scalar times complex sparse vector to complex sparse vector	F06GTF
Gather complex sparse vector	F06GUF
Gather and set to zero complex sparse vector	F06GVF
Scatter complex sparse vector	F06GWF
Broadcast scalar into complex vector	F06HBF
Multiply complex vector by complex scalar, preserving input vector	F06HDF
Negate complex vector	F06HGF
Compute Euclidean norm of complex vector	F06JFF
Multiply complex vector by real scalar, preserving input vector	F06KDF
Copy real vector to complex vector	F06KFF
Last non-negligible element of real vector	F06KLF
Rank-1 update, complex rectangular matrix, unconjugated vector	F06SMF
Rank-1 update, complex rectangular matrix, conjugated vector	F06SNF
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
Rearrange a vector according to given ranks, character data	M01ECF
Rearrange a vector according to given ranks, complex numbers	M01EDF
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	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	F06JDF
Multiply complex vector by real scalar, preserving input vector	F06KDF
Multiply real vector by scalar	F06EDF
Multiply real vector by scalar, preserving input vector	F06PDF
Sort a vector , character data	M01CCF
Rank a vector , character data	M01DCF
Dot product of two complex sparse vector , conjugated	F06GSF
Index, real vector element with largest absolute value	F06JLF
Index, complex vector element with largest absolute value	F06JMF
Sum absolute values of real vector elements	F06EKF
Sum absolute values of complex vector elements	F06JKF
Generate next term from reference vector for ARMA time series model	G05EWF
Set up reference vector for generating pseudo-random integers, binomial distribution	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, Poisson distribution	G05ECF
Set up reference vector for generating pseudo-random integers, uniform distribution	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 or...	G05EXF
Update Euclidean norm of real vector in scaled form	F06FJF
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 nonsymmetric matrix vector multiply	F11XAF
Real sparse symmetric matrix vector multiply	F11XEF
Complex sparse Hermitian matrix vector multiply	F11XSF
Complex sparse non-Hermitian matrix vector multiply	F11XNF
Evaluation of fitted bicubic spline at a vector of points	E02DEF
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 pseudo-random variates from von Mises distribution	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 distribution	G05FBF
Matrix- vector product, complex Hermitian band matrix	F06SDF
Matrix- vector product, complex Hermitian packed matrix	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	F06SFF
Matrix- vector product, complex triangular packed matrix	F06SHF
Matrix- vector product, real rectangular band matrix	F06PBF
Matrix- vector product, real rectangular matrix	F06PAF
Matrix- vector product, real symmetric band matrix	F06PDF
Matrix- vector product, real symmetric matrix	F06PCF
Matrix- vector product, real symmetric packed matrix	F06PEF
Matrix- vector product, real triangular band matrix	F06PGF
Matrix- vector product, real triangular matrix	F06PFF
Matrix- vector product, real triangular packed matrix	F06PHF
Sort a vector , real numbers	M01CAF
Rank a vector , real numbers	M01DAF
Add scalar times complex sparse vector to complex sparse vector	F06GTF
Add scalar times complex vector to complex vector	F06GCF
Copy real vector to complex vector	F06KFF
Add scalar times real sparse vector to real sparse vector	F06ETF
Add scalar times real vector to real vector	F06ECF
Dot product of two complex sparse vector , unconjugated	F06GRF
Elements of real vector with largest and smallest absolute value	F06FLF
Circular convolution or correlation of two complex vectors	C06PKF
Dot product of two real vectors	F06EAF

Swap two real vectors	F06EGF
Dot product of two real sparse vectors	F06ERF
Apply plane rotation to two real sparse vectors	F06EXF
Compute cosine of angle between two real vectors	F06FAF
Apply real symmetric plane rotation to two vectors	F06FPF
Swap two complex vectors	F06GGF
Apply real plane rotation to two complex vectors	F06KPF
Service routines for multiple linear regression, select elements from vectors and matrices	G02CEF
Service routines for multiple linear regression, re-order elements of vectors and matrices	G02CFF
Dot product of two complex vectors , conjugated	F06GBF
Circular convolution or correlation of two real vectors , extra workspace for greater speed	C06KFF
Circular convolution or correlation of two real vectors , no extra workspace	C06KEF
Gram-Schmidt orthogonalisation of n vectors of order m	F05AAF
Dot product of two complex vectors , unconjugated	F06GAF
Nonlinear Volterra convolution equation, second kind	D05BAF
Generate weights for use in solving Volterra equations	D05BWF
Nonlinear convolution Volterra-Abel equation, first kind, weakly singular	D05BEF
Nonlinear convolution Volterra-Abel equation, second kind, weakly singular	D05BDF
Computes probability for von Mises distribution	G01ERF
Generates a 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 real symmetric positive-definite Toeplitz...	F04MEF
Solution of the Yule-Walker equations for real symmetric positive-definite Toeplitz...	F04FEF
Kruskal-Wallis one-way analysis of variance on k samples of unequal size	G08AFF
Computes bounds for the significance of a Durbin-Watson statistic	G01EPF
Computes Durbin-Watson test statistic	G02FCF
Nonlinear convolution Volterra-Abel equation, second kind, weakly singular	D05BDF
Nonlinear convolution Volterra-Abel equation, first kind, weakly singular	D05BEF
Generate weights for use in solving weakly singular Abel-type equations	D05BYF
Inverse Laplace transform, modified Weeks' method	C06LBF
Pseudo-random real numbers, Weibull distribution	G05DPF
Computes maximum likelihood estimates for parameters of the Weibull distribution	G07BEF
Calculates a robust estimation of a correlation matrix, Huber's weight function	G02HKF
...estimation of a correlation matrix, user-supplied weight function	G02HMF
One-dimensional quadrature, adaptive, finite interval, weight function $1/(x-c)$, Cauchy principal value...	D01AQF
One-dimensional quadrature, adaptive, finite interval, weight function $\cos(\omega x)$ or $\sin(\omega x)$	D01ANF
One-dimensional quadrature, adaptive, semi-infinite interval, weight function $\cos(\omega x)$ or $\sin(\omega x)$	D01ASF
...estimation of a correlation matrix, user-supplied weight function plus derivatives	G02HLF
One-dimensional quadrature, adaptive, finite interval, weight function with end-point singularities of...	D01APF
... M -estimates 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 routines	D02ZAF
Computes a weighted sum of squares matrix	G02BUF
Update a weighted sum of squares matrix with a new observation	G02BTF
...compute regression with user-supplied functions and weights	G02HDF
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 equations	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
Selection of basic algorithm random number generator or Wichmann-Hill algorithm generators for subsequent calls to...	G05ZAF
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
...smoothing by the trapezium frequency (Daniell) window	G13CBF
...using rectangular, Bartlett, Tukey or Parzen lag window	G13CCF
...smoothing by the trapezium frequency (Daniell) window	G13CDF
Computes a trimmed and winsorized mean of a single sample with estimates of their variance	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 continuous distributions	G08CGF
Multivariate time series, sample partial lag correlation matrices, χ^2 statistics and significance levels	G13DNF
χ^2 statistics for two-way contingency table	G11AAF
Computes probability for a positive linear combination of χ^2 variables	G01JCF
...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 real symmetric positive-definite...	F04MEF
Solution of the Yule-Walker equations for real symmetric positive-definite...	F04FEF
Correlation-like coefficients (about zero), all variables, casewise treatment of missing values	G02BEF
Correlation-like coefficients (about zero), all variables, no missing values	G02BDF
Correlation-like coefficients (about zero), all variables, pairwise treatment of missing values	G02BFF
Gather and set to zero complex sparse vector	F06GVF
Zero in given interval of continuous function by Bus and Dekker...	C05AZF
ODEs, IVP, Runge-Kutta method, until function of solution is zero , integration over range with intermediate output (simple driver)	D02BJF
ODEs, IVP, Adams method, until function of solution is zero , intermediate output (simple driver)	D02CJF
ODEs, 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,...	C05AJF

	Zero of continuous function in given interval, Bus and Dekker...	C05ADF
Binary search for interval containing	zero of continuous function (reverse communication)	C05AVF
	Gather and set to zero real sparse vector	F06EVF
...Runge-Kutta-Merson method, until function of solution is	zero (simple driver)	D02BHF
	Correlation-like coefficients (about zero), subset of variables, casewise treatment of missing values	G02BLF
	Correlation-like coefficients (about zero), subset of variables, no missing values	G02BKF
	Correlation-like coefficients (about zero), subset of variables, pairwise treatment of missing values	G02BMF
	Calculates the zeros of a vector autoregressive (or moving average) operator	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
	All zeros of real quadratic	C02AJF
