

Keywords in Context for the NAG Parallel Library

One-dimensional quadrature, adaptive , finite interval, allowing for badly ...	D01ATFP
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Safe range of complex floating-point arithmetic	X02ANF
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Parameter of floating-point arithmetic model, ϵ_{\max}	X02BLF
Parameter of floating-point arithmetic model, ϵ_{\min}	X02BKF
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... solver using preconditioned RGMRES, CGS or Bi-CGSTAB	F11BBFP
... solver using preconditioned GMRES, CGS or Bi-CGSTAB	F11BSFP
... Jacobi, SOR or no preconditioned RGMRES, CGS or Bi-CGSTAB (Black Box)	F11DEFPP
... using block-Jacobi preconditioned RGMRES, CGS or Bi-CGSTAB (Black Box)	F11DHFP
... Jacobi, SOR or no preconditioned RGMRES, CGS or Bi-CGSTAB (Black Box)	F11DSFP
... using block-Jacobi preconditioned RGMRES, CGS or Bi-CGSTAB (Black Box)	F11DVFP
... eigenvalues of real symmetric tridiagonal matrix by bisection	F08JJFP
... block fashion, used with routines from Chapter F04 (Black Box)	F01ZSFP
... block fashion, used with routines from Chapters F04 (Black Box)	F01ZXFP
Solution of real linear system (Black Box)	F04EBFP
Solution of complex linear equations (Black Box)	F04ECFP
... of real symmetric positive-definite linear system (Black Box)	F04FBFP
... of complex Hermitian positive-definite linear system (Black Box)	F04FCFP
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Solution of real symmetric banded linear system (Black Box)	F04HBFPP
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Solution of real symmetric tridiagonal linear system (Black Box)	F04JBFP
... of complex Hermitian tridiagonal linear system (Black Box)	F04JZFP
... or no preconditioned RGMRES, CGS or Bi-CGSTAB (Black Box)	F11DEFPP
... preconditioned RGMRES, CGS or Bi-CGSTAB (Black Box)	F11DHFP
... or no preconditioned RGMRES, CGS or Bi-CGSTAB (Black Box)	F11DSFP
... preconditioned RGMRES, CGS or Bi-CGSTAB (Black Box)	F11DVFP
... Jacobi, SSOR or no preconditioned CG or SYMMLQ (Black Box)	F11JEFP
... using block-Jacobi preconditioned CG or SYMMLQ (Black Box)	F11JHFP
... block form, used with routines from Chapter F04 (Black Box)	X04BGFP
... external file, used with routines from Chapter F04 (Black Box)	X04BHFP
... block form, used with routines from Chapter F04 (Black Box)	X04BVFP
... block fashion, used with routines from Chapter F04 (Black Box)	X04BWFP
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Solution of sparse symmetric linear system using block-Jacobi preconditioned CG or SYMMLQ (Black ...)	F11JHFP
... of real sparse nonsymmetric linear system using block-Jacobi preconditioned RGMRES, CGS or ...	F11DHFP
... of complex sparse non-Hermitian linear system using block-Jacobi preconditioned RGMRES, CGS or ...	F11DVFP
... non-Hermitian linear system, reverse-communication, block-Jacobi preconditioner generated by F11DTFP	F11DUFP
... reverse-communication, solver using preconditioned CG or SYMMLQ	F11GBFP
... system using Jacobi, SSOR or no preconditioned CG or SYMMLQ (Black Box)	F11JEFP
... linear system using block-Jacobi preconditioned CG or SYMMLQ (Black Box)	F11JHFP
... solver using preconditioned RGMRES, CGS or Bi-CGSTAB	F11BBFP
... solver using preconditioned RGMRES, CGS or Bi-CGSTAB	F11BSFP
... using Jacobi, SOR or no preconditioned RGMRES, CGS or Bi-CGSTAB (Black Box)	F11DEFPP
... system using block-Jacobi preconditioned RGMRES, CGS or Bi-CGSTAB (Black Box)	F11DHFP
... using Jacobi, SOR or no preconditioned RGMRES, CGS or Bi-CGSTAB (Black Box)	F11DSFP
... system using block-Jacobi preconditioned RGMRES, CGS or Bi-CGSTAB (Black Box)	F11DVFP
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(PZPBTRF) Cholesky factorization of complex Hermitian ...	F07HRFP
(PZPOTRF) Cholesky factorization of complex Hermitian ...	F07FRFP
(PDPBTRF) Cholesky factorization of real symmetric banded ...	F07HDFP
(PDPOTRF) Cholesky factorization of real symmetric positive- ...	F07FDFP
(PDPTTRF) Cholesky factorization of real symmetric ...	F07JDFP
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... generation of complex Hermitian banded matrix in column block fashion, used with routines from Chapter ...	F01YWFPP
In-place generation of real symmetric banded matrix in column block fashion, used with routines from Chapter ...	F01YXFP
In-place generation of complex vector in column block fashion, used with routines from Chapter ...	F01ZYFP
In-place generation of real vector in column block fashion, used with routines from Chapter ...	F01ZZFP
In-place generation of real matrix in column block fashion, used with routines from ...	F01ZRFP
In-place generation of complex matrix in column block fashion, used with routines from ...	F01ZWFP
Number of rows or columns of matrix held locally on a given ...	Z01CAFP
Creates an MPI communicator from a Library context	Z01ZBFP
(PZPTTRF) Factorization of complex Hermitian tridiagonal matrix with ...	F07JRFPP
... <i>LU</i> factorization of local diagonal blocks of complex sparse matrix	F11DTFP
(PDTRCON) Estimates condition number of real triangular matrix	F07TGFPP
Outputs real dense vector, distributed conformally to a sparse matrix on a logical grid of ...	X04YAFP

Gather real vector distributed	conformally to matrix, used with routines from ...	F01ZPFP
In-place generation of real dense vector distributed	conformally to sparse matrix	F01YEFPP
Outputs complex vector, distributed	conformally to sparse matrix to a sequential file	X04YPPFP
Scatter real vector distributed	conformally to sparse matrix, used with routines ...	F01XEFP
Gather real vector distributed	conformally to sparse matrix, used with routines ...	F01XFFFP
Scatter integer vector distributed	conformally to sparse matrix, used with routines ...	F01XGFP
Gather integer vector distributed	conformally to sparse matrix, used with routines ...	F01XHFP
Scatter complex vector distributed	conformally to sparse matrix, used with routines ...	F01XTFP
Gather complex vector distributed	conformally to sparse matrix, used with routines ...	F01XUFP
... generation of complex dense vector distributed	conformally to sparse matrix, used with routines ...	F01YTFP
Creates an MPI communicator from a Library	context	Z01ZBFP
Identifies logical processors in	context in the two-dimensional grid declared by ...	Z01BBFP
Scatter real sparse matrix, stored in	coordinate storage format, using cyclic row block ...	F01XAFP
Scatter complex sparse matrix, stored in	coordinate storage format, using cyclic row block ...	F01XPFP
... blocks of a real sparse matrix, represented in	coordinate storage format, distributed on a logical ...	F11DAFP
... a real block diagonal sparse matrix, represented in	coordinate storage format, distributed on a logical ...	F11DBFP
Returns information on	coordinates in Library Grid set up by Z01AAFP	Z01ZAFP
Largest permissible argument for sin and	cos	X02AHF
... adaptive, finite interval, weight functions	$\cos(\omega x)$ or $\sin(\omega x)$	D01AXFP
... matrix, stored in coordinate storage format, using	cyclic row block distribution	F01XAFP
In-place generation of real sparse matrix using	cyclic row block distribution	F01YAFP
... generation of complex sparse matrix according to	cyclic row block distribution (suitable for repeated ...	F01YQFP
In-place generation of real sparse matrix using	cyclic row block distribution (suitable for repeated ...	F01XBFP
... matrix, stored in coordinate storage format, using	cyclic row block distribution, used with routines from ...	F01XPFP
... generation of complex sparse matrix according to	cyclic row block distribution, used with routines from ...	F01YFP
... set-up routine for real sparse matrix distributed in	cyclic row block form	F11ZAFP
... set-up routine for real sparse matrix distributed in	cyclic row block form (suitable for repeated sparsity ...	F11ZBFP
... routine for complex sparse matrix, distributed in	cyclic row block form (suitable for repeated sparsity ...	F11ZPFP
Outputs general complex matrix, stored in	cyclic two-dimensional block fashion, used with ...	X04BWFPP
... matrix, from external file, into array distributed in	cyclic two-dimensional form, used with routines ...	X04BCFP
... given processor when the matrix is distributed in the	cyclic two-dimensional block fashion (NUMROC)	Z01CAFP
Outputs real general matrix, stored in	cyclic two-dimensional block fashion, to an external ...	X04BDFP
Outputs complex general matrix, stored in	cyclic two-dimensional block fashion to an external ...	X04BSFP
Outputs general real matrix, stored in	cyclic two-dimensional block fashion, to external ...	X04BHFP
In-place generation of real matrix in	cyclic two-dimensional block fashion, used with ...	F01ZSFP
In-place generation of complex matrix in	cyclic two-dimensional block fashion, used with ...	F01ZXFP
In-place generation of real matrix in	cyclic two-dimensional block fashion, used with ...	F01ZQFP
In-place generation of complex matrix in	cyclic two-dimensional block fashion, used with ...	F01ZVFP
... matrix from external file into array distributed in	cyclic two-dimensional block form, used with routines ...	X04BGFP
... from an external file into an array distributed in	cyclic two-dimensional block form, used with routines ...	X04BVFP
... from an external file into array distributed in	cyclic two-dimensional block form, used with routines ...	X04BRFP
Gather real matrix distributed in	cyclic two-dimensional block format, used with routines ...	F01WBFP
Gather complex matrix distributed in	cyclic two-dimensional block format, used with routines ...	F01WHFP
... from the root processor to the Library Grid using	cyclic two-dimensional block format, used with ...	F01WFP
... from the root processor to the Library Grid using	cyclic two-dimensional block format, used with ...	F01WVFP
... regarded as submatrix of matrix distributed in	cyclic two-dimensional block format, used with ...	F01WAFP
Gather complex matrix distributed in	cyclic two-dimensional block format, used with ...	F01WGFP
... from the root processor to the Library Grid using	cyclic two-dimensional block format, used with ...	F01WNFP
... from the root processor to the Library Grid using	cyclic two-dimensional block format, used with ...	F01WUFP
Singular Value	Decomposition (SVD) of complex matrix, one-sided ...	F02WRFPP
Singular Value	Decomposition (SVD) of real matrix, one-sided Jacobi ...	F02WQFP
Outputs real	dense vector, distributed conformally to a ...	X04YAFP
In-place generation of real	dense vector distributed conformally to sparse ...	F01YEFPP
In-place generation of complex	dense vector distributed conformally to sparse ...	F01YTFP
Direct or inverse one-dimensional	discrete Fourier transform of a complex sequence	C06MCFPP
Direct or inverse three-dimensional	discrete Fourier transform of a complex sequence	C06MXFP
... of real vector from local indexing based order to	distribution based order	F11YCFPP
... of complex vector from local indexing based order to	distribution based order	F11YQFP
Permutation of real vector from	distribution based order to local indexing based ...	F11YBFP
Permutation of complex vector from	distribution based order to local indexing based ...	F11YFP
	Eigenvalues and eigenvectors of complex Hermitian ...	F02FRFP
	Eigenvalues and eigenvectors of real symmetric ...	F02FQFP
(PDSTEBZ) All or selected	eigenvalues of real symmetric tridiagonal matrix by ...	F08JJFP
... tridiagonal matrix by inverse iteration, storing	eigenvectors in complex array	F08JXFP
... tridiagonal matrix by inverse iteration, storing	eigenvectors in real array	F08JKFP
Eigenvalues and	eigenvectors of complex Hermitian matrix, one-sided ...	F02FRFP
Eigenvalues and	eigenvectors of real symmetric matrix, one-sided ...	F02FQFP
(PZSTEIN) Selected	eigenvectors of real symmetric tridiagonal matrix by ...	F08JXFP
(PDSTEIN) Selected	eigenvectors of real symmetric tridiagonal matrix by ...	F08JKFP
	Element-wise maximum or minimum in absolute value ...	F01CPFP
Specification of	error checking level, can reduce the amount of ...	Z02EAFP
Returns or sets unit number for	error message	X04AAF
(PDTRCON)	Estimates condition number of real triangular ...	F07TGFPP
	Euler's constant, γ	X01ABF
... real number from the interval $[a,b)$,	exponential distribution	G05AEFP
... real numbers from the interval (a,b) ,	exponential distribution	G05BEFP
... Form all or part of an orthogonal Q from QR	factorization determined by F08AEFP (PDGEQRF)	F08AFFPP
(PZUNGQR) Form all or part of a unitary Q from QR	factorization determined by F08ASFP (PZGEQRF)	F08ATFP
(PZGETRF) LU	factorization of complex general matrix	F07ARFP
(PZGEQRF) QR	factorization of complex general rectangular ...	F08ASFP
(PZPBTRF) Cholesky	factorization of complex Hermitian banded matrix with ...	F07HRFP
(PZPOTRF) Cholesky	factorization of complex Hermitian positive-definite ...	F07FRFP
(PZPTTRF)	Factorization of complex Hermitian tridiagonal matrix ...	F07JRFP
... linear system, reverse-communication, incomplete LU	factorization of local or overlapping diagonal blocks, ...	F11DFFPP
(PDGETRF) LU	factorization of real general matrix	F07ADFPP
(PDGEQRF) QR	factorization of real general rectangular matrix	F08AEFP
(PDPBTRF) Cholesky	factorization of real symmetric banded matrix with no ...	F07HDFPP

(PDPOTRF) Cholesky	factorization of real symmetric positive-definite ...	F07FDFP
(PDPOTRF) Cholesky	factorization of real symmetric tridiagonal matrix ...	F07JDFP
Incomplete <i>LU</i>	factorization of the local diagonal blocks of a real ...	F11DAFP
... positive-definite linear system, matrix already	factorized by F07FDFP (PDPOTRF)	F07FEFP
... positive-definite linear system, matrix already	factorized by F07FRFP (PZPOTRF)	F07FSFP
... Hermitian banded linear system, matrix already	factorized by F07HRFP (PZPBTRF)	F07HSFP
One-dimensional quadrature, adaptive,	finite interval, allowing for badly behaved ...	D01ATFP
One-dimensional quadrature, adaptive,	finite interval, suitable for oscillating ...	D01AUFP
One-dimensional quadrature, adaptive,	finite interval, weight functions $\cos(\omega \dots$	D01AXFP
Two-dimensional quadrature,	finite region	D01DAFP
Safe range of real	floating-point arithmetic	X02AMF
Safe range of complex	floating-point arithmetic	X02ANF
Parameter of	floating-point arithmetic model, b	X02BHF
Parameter of	floating-point arithmetic model, e_{\max}	X02BLF
Parameter of	floating-point arithmetic model, e_{\min}	X02BKF
Parameter of	floating-point arithmetic model, p	X02BJF
Parameter of	floating-point arithmetic model, ROUNDS	X02DJF
Direct or inverse two-dimensional	Fourier transform of a complex sequence	C06FUFP
Direct or inverse one-dimensional discrete	Fourier transform of a complex sequence	C06MCFP
Direct or inverse three-dimensional discrete	Fourier transform of a complex sequence	C06MXFP
Euler's constant, γ		X01ABF
	Gather complex matrix distributed in cyclic two- ...	F01WHFP
	Gather complex matrix distributed in cyclic two- ...	F01WGFP
	Gather complex vector distributed conformally ...	F01XUFP
	Gather integer vector distributed conformally ...	F01XHFP
	Gather real matrix distributed in cyclic ...	F01WBFP
	Gather real matrix, regarded as submatrix of ...	F01WAFP
	Gather real vector distributed conformally to ...	F01ZPFP
	Gather real vector distributed conformally to ...	F01XFFP
Unconstrained minimum of a sum of squares,	Gauss–Newton algorithm using function values only ...	E04FDFP
... of a general nonlinear function with unconstrained,	Gauss–Newton algorithm using function values only ...	E04JBFP
Reads	general complex matrix from an external file ...	X04BVFP
Outputs	general complex matrix, stored in cyclic ...	X04BWFP
Outputs set of real	general matrices distributed on a ...	X04BFFP
Outputs set of complex	general matrices distributed on a ...	X04BUFP
Reads complex	general matrix from an external file into array ...	X04BRFP
Reads real	general matrix, from external file, into array ...	X04BCFP
Outputs real	general matrix, stored in cyclic two-dimensional ...	X04BDFP
Outputs complex	general matrix, stored in cyclic two-dimensional ...	X04BSFP
Minimum of a	general nonlinear function with unconstrained, ...	E04JBFP
Reads	general real matrix from external file into ...	X04BGFP
Outputs	general real matrix, stored in cyclic ...	X04BHFP
	General set-up routine for complex sparse matrix, ...	F11ZPFP
	General set-up routine for real sparse matrix ...	F11ZAFP
	General set-up routine for real sparse matrix ...	F11ZBFP
	Generates an l by m by n three-dimensional ...	F01ZHFP
In-place	generation of complex matrix in cyclic ...	F01ZXFP
In-place	generation of complex dense vector distributed ...	F01YTFP
In-place	generation of complex Hermitian banded matrix in ...	F01YWFP
In-place	generation of complex matrix in column block ...	F01ZWFP
In-place	generation of complex matrix in cyclic ...	F01ZVFP
In-place	generation of complex matrix in row block fashion ...	F01YZFP
In-place	generation of complex matrix in row block fashion, ...	F01ZNFP
In-place	generation of complex sparse matrix according to ...	F01YQFP
In-place	generation of complex sparse matrix according to ...	F01YPPFP
In-place	generation of complex vector in column block ...	F01ZYFP
In-place	generation of real dense vector distributed ...	F01YFP
In-place	generation of real matrix in column block fashion, ...	F01ZRFP
In-place	generation of real matrix in cyclic two-dimensional ...	F01ZSFP
In-place	generation of real matrix in cyclic two-dimensional ...	F01ZQFP
In-place	generation of real matrix in row block fashion on a ...	F01YYFP
In-place	generation of real matrix in row block fashion, ...	F01ZMFP
In-place	generation of real sparse matrix using cyclic row ...	F01YAFP
In-place	generation of real sparse matrix using cyclic row ...	F01YBFP
In-place	generation of real symmetric banded matrix in ...	F01YXFP
In-place	generation of real vector in column block fashion, ...	F01ZZFP
Selects random number	generator and initialises seeds to give repeatable ...	G05ABFP
... reverse-communication, solver using preconditioned	GMRES , CGS or Bi-CGSTAB	F11BSFP
Solution of complex	Hermitian banded linear system (Black Box)	F04HZFP
(PZPBTRS) Solution of complex	Hermitian banded linear system, matrix already ...	F07HSFP
In-place generation of complex	Hermitian banded matrix in column block fashion, ...	F01YWFP
(PZPBTRF) Cholesky factorization of complex	Hermitian banded matrix with no-pivoting	F07HRFP
Eigenvalues and eigenvectors of complex	Hermitian matrix, one-sided Jacobi method	F02FRFP
(PZHETRD) Unitary reduction of complex	Hermitian matrix to real symmetric tridiagonal ...	F08FSFP
Solution of complex	Hermitian positive-definite linear system (Black ...	F04FCFP
(PZPOTRS) Solution of complex	Hermitian positive-definite linear system, matrix ...	F07FSFP
(PZPOTRF) Cholesky factorization of complex	Hermitian positive-definite matrix	F07FRFP
Solution of complex	Hermitian tridiagonal linear system (Black Box)	F04JZFP
(PZPTTRF) Factorization of complex	Hermitian tridiagonal matrix with no-pivoting	F07JRF
Computes	incomplete LU factorization of local diagonal ...	F11DTFP
	Incomplete LU factorization of the local diagonal ...	F11DAFP
... of real vector from distribution based order to local	indexing based order	F11YBFP
... complex vector from distribution based order to local	indexing based order	F11YPPFP
Permutation of real vector from local	indexing based order to distribution based order	F11YCFP
Permutation of complex vector from local	indexing based order to distribution based order	F11YQFP
Selects random number generator and	initialises seeds to give repeatable sequence	G05BBFP
	In-place generation of complex dense vector ...	F01YTFP

	In-place generation of complex sparse matrix ...	F01YQFP
	In-place generation of complex sparse matrix ...	F01YPPFP
	In-place generation of real dense vector ...	F01YEFP
	In-place generation of real sparse matrix using ...	F01YAFP
	In-place generation of real sparse matrix using ...	F01YBFP
	integer	X02BBF
... eigenvectors of real symmetric tridiagonal matrix by	inverse iteration, storing eigenvectors in ...	F08JXFP
... eigenvectors of real symmetric tridiagonal matrix by	inverse iteration, storing eigenvectors in real ...	F08JKFP
Apply iterations of relaxed	Jacobi iterative method to a real sparse linear ...	F11DKFP
Apply iterations of relaxed	Jacobi iterative method to complex sparse ...	F11DXFP
... and eigenvectors of real symmetric matrix, one-sided	Jacobi method	F02QFP
... eigenvectors of complex Hermitian matrix, one-sided	Jacobi method	F02FRFP
... Value Decomposition (SVD) of real matrix, one-sided	Jacobi method	F02WQFP
... Decomposition (SVD) of complex matrix, one-sided	Jacobi method	F02WRFP
... method to a real sparse linear system, used mostly as	Jacobi preconditioner for real sparse matrix	F11DKFP
... of real sparse nonsymmetric linear system using	Jacobi , SOR or no preconditioned RGMRES, CGS or ...	F11DEFP
... of complex sparse non-Hermitian linear system using	Jacobi , SOR or no preconditioned RGMRES, CGS or ...	F11DSFP
Solution of real sparse symmetric linear system using	Jacobi , SSOR or no preconditioned CG or SYMMLQ ...	F11JFP
	Largest permissible argument for sin and cos	X02AHF
	Largest positive model number	X02ALF
	Largest representable integer	X02BBF
Solution of real linear	least-squares problem (Black Box)	F04GBFP
Creates an MPI communicator from a	Library context	Z01ZBFP
Returns information on coordinates in	Library Grid set up by Z01AAF	Z01ZAFP
Black Box routine for sparse system of	linear equations	F11DCFP
Solution of complex	linear equations (Black Box)	F04ECFP
Solution of real system of	linear equations, involving a real block ...	F11DBFP
Solution of real	linear least-squares problem (Black Box)	F04GBFP
Solution of real symmetric tridiagonal	linear system (Black Box)	F04JBFP
Solution of real	linear system (Black Box)	F04EBFP
Solution of real symmetric positive-definite	linear system (Black Box)	F04FBFP
Solution of complex Hermitian positive-definite	linear system (Black Box)	F04FCFP
Solution of real symmetric banded	linear system (Black Box)	F04HBF
Solution of complex Hermitian banded	linear system (Black Box)	F04HZFP
Solution of complex Hermitian tridiagonal	linear system (Black Box)	F04JZFP
(PDGETRS) Solution of real	linear system, matrix already factorized by F07ADFP ...	F07AEFP
(PZGETRS) Solution of complex	linear system, matrix already factorized by F07ARFP ...	F07ASF
... Solution of real symmetric positive-definite	linear system, matrix already factorized by F07DFFP ...	F07FEFP
... Solution of complex Hermitian positive-definite	linear system, matrix already factorized by F07FRFP ...	F07FSFP
(PDPBTRS) Solution of real symmetric banded	linear system, matrix already factorized by F07HDFP ...	F07HEFP
(PZPBTRS) Solution of complex Hermitian banded	linear system, matrix already factorized by F07HRFP ...	F07HSFP
(PDPTTRS) Solution of real symmetric tridiagonal	linear system, matrix already factorized by F07JDFP ...	F07JFP
(PZPTTRS) Solution of real symmetric tridiagonal	linear system, matrix already factorized by F07JRF	F07JSFP
Complex sparse non-Hermitian	linear system, reverse-communication, block-Jacobi ...	F11DUF
Real sparse nonsymmetric	linear system, reverse-communication, diagnostic for ...	F11BCFP
Complex sparse non-Hermitian	linear system, reverse-communication, diagnostic for ...	F11BTF
Real sparse symmetric	linear system, reverse-communication, diagnostic for ...	F11GCF
Real sparse nonsymmetric	linear system, reverse-communication, incomplete LU ...	F11DFF
Real sparse nonsymmetric	linear system, reverse-communication, preconditioner ...	F11DGF
Real sparse symmetric	linear system, reverse-communication, set-up for ...	F11BAFP
Complex sparse non-Hermitian	linear system, reverse-communication, set-up for ...	F11BRFP
Real sparse symmetric	linear system, reverse-communication, set-up for ...	F11GAFP
Real sparse symmetric	linear system, reverse-communication, solver using ...	F11GBFP
Complex sparse non-Hermitian	linear system, reverse-communication, solver using ...	F11BSFP
Real sparse nonsymmetric	linear system, reverse-communication, solver using ...	F11BBFP
... of relaxed Jacobi iterative method to complex sparse	linear system, used mostly as Jacobi preconditioner ...	F11DXFP
... of relaxed Jacobi iterative method to a real sparse	linear system, used mostly as Jacobi preconditioner ...	F11DKFP
Apply iterations of SOR method to the complex sparse	linear system, used mostly as SOR preconditioner for ...	F11DRFP
Apply iterations of SOR method to real sparse	linear system, used mostly as SOR preconditioner for ...	F11DDFP
Solution of sparse symmetric	linear system using block-Jacobi preconditioned CG or ...	F11JHFP
Solution of real sparse nonsymmetric	linear system using block-Jacobi preconditioned ...	F11DHFP
Solution of complex sparse non-Hermitian	linear system using block-Jacobi preconditioned ...	F11DVFP
Solution of real sparse nonsymmetric	linear system using Jacobi, SOR or no preconditioned ...	F11DEF
Solution of complex sparse non-Hermitian	linear system using Jacobi, SOR or no preconditioned ...	F11DSFP
Solution of real sparse symmetric	linear system using Jacobi, SSOR or no preconditioned ...	F11JFP
... of real vector from distribution based order to	local indexing based order	F11YBFP
... of complex vector from distribution based order to	local indexing based order	F11YPPFP
Permutation of complex vector from	local indexing based order to distribution ...	F11YQFP
Computes incomplete LU factorization of local diagonal blocks ...		F11DTFP
Incomplete LU factorization of the local diagonal ...		F11DAFP
(PZGETRF) LU factorization of complex general matrix		F07ARFP
... linear system, reverse-communication, incomplete LU factorization of local or overlapping ...		F11DFF
(PDGETRF) LU factorization of real general matrix		F07ADFP
	Machine precision	X02AJF
	Matrix-vector multiplication for complex sparse ...	F11XPFP
	Matrix-vector multiplication for real sparse ...	F11XBFP
	Maximum number of decimal digits that can be ...	X02BEF
Release of internally allocated	memory	F11ZZFP
Unconstrained	Minimum of a general nonlinear function with ...	E04JBFP
Parameter of floating-point arithmetic	model , <i>b</i>	E04DFFP
Parameter of floating-point arithmetic	model , e_{\max}	X02BHF
Parameter of floating-point arithmetic	model , e_{\min}	X02BLF
Smallest positive	model number	X02BKF
Largest positive	model number	X02AKF
Parameter of floating-point arithmetic	model , <i>p</i>	X02ALF
Parameter of floating-point arithmetic	model , ROUNDS	X02BJF
		X02DJF

	Creates an MPI communicator from a Library context	Z01ZBFP
Information about	MPI tasks	Z01BGFP
Generates	multi-colour ordering for complex sparse matrix with ...	F11ZUFP
Generates	multi-colour ordering for real sparse matrix with ...	F11ZGFP
	Multi-dimensional quadrature, general product region, ...	D01GCFP
	Multi-dimensional quadrature, hyper-rectangle, ...	D01FAFP
... outside the default library mechanism, allows	multigridding , used in more advanced applications	Z01AEFP
Complex sparse	non-Hermitian linear system, reverse-communication, ...	F11DUFP
Complex sparse	non-Hermitian linear system, reverse-communication, ...	F11BTFP
Complex sparse	non-Hermitian linear system, reverse-communication, ...	F11BRFP
Complex sparse	non-Hermitian linear system, reverse-communication, ...	F11BSFP
Solution of complex sparse	non-Hermitian linear system using block-Jacobi ...	F11DVFP
Solution of complex sparse	non-Hermitian linear system using Jacobi, SOR or no ...	F11DSFP
Minimum of a general	nonlinear function with unconstrained, ...	E04JBFP
Real sparse	nonsymmetric linear system, reverse-communication, ...	F11BCFP
Real sparse	nonsymmetric linear system, reverse-communication, ...	F11DFFP
Real sparse	nonsymmetric linear system, reverse-communication, ...	F11DGFP
Real sparse	nonsymmetric linear system, reverse-communication, ...	F11BAFP
Real sparse	nonsymmetric linear system, reverse-communication, ...	F11BBFP
Solution of real sparse	nonsymmetric linear system using block-Jacobi ...	F11DHFP
Solution of real sparse	nonsymmetric linear system using Jacobi, SOR or no ...	F11DEFP
... real number from the interval $[a,b]$,	Normal distribution	G05ADFP
... real numbers from the interval (a,b) ,	Normal distribution	G05BDFP
Direct or inverse	one-dimensional discrete Fourier transform of a ...	C06MCFP
... generation of real matrix in row block fashion on a	one-dimensional grid of processors, used with routines ...	F01YYFP
... of complex matrix in row block fashion on a	one-dimensional grid of processors, used with routines ...	F01YZFP
	One-dimensional quadrature, adaptive, finite interval, ...	D01ATFP
	One-dimensional quadrature, adaptive, finite interval, ...	D01AUFP
	One-dimensional quadrature, adaptive, finite interval, ...	D01AXFP
Generates multi-colour	ordering for complex sparse matrix with symmetric ...	F11ZUFP
Generates multi-colour	ordering for real sparse matrix with symmetric ...	F11ZGFP
(PDORGQR) Form all or part of an	orthogonal Q from QR factorization determined ...	F08AFFP
(PDSYTRD)	Orthogonal reduction of real symmetric matrix to ...	F08FEFP
(PDORMQR) Apply the	orthogonal transformation determined by F08AEFP ...	F08AGFP
(PDORMTR) Apply	orthogonal transformation determined by F08FEFP ...	F08FGFP
	Outputs complex matrix stored in row block fashion	X04BZFP
... incomplete LU factorization of local or	overlapping diagonal blocks, used mostly as ...	F11DFFP
... for real sparse matrix with symmetric sparsity	pattern , distributed in row block form	F11ZGFP
... for complex sparse matrix with symmetric sparsity	pattern , distributed in row block form.	F11ZUFP
	Permutation of complex vector from distribution ...	F11YPPFP
	Permutation of complex vector from local indexing ...	F11YQFP
	Permutation of non-zero entries of complex sparse ...	F11YNFP
	Permutation of non-zero entries of real sparse ...	F11YAFP
	Permutation of real vector from distribution based ...	F11YBFP
	Permutation of real vector from local indexing based ...	F11YCFP
	π	X01AAF
Solution of real symmetric	positive-definite linear system (Black Box)	F04FBFP
Solution of complex Hermitian	positive-definite linear system (Black Box)	F04FCFP
(PDPOTRS) Solution of real symmetric	positive-definite linear system, matrix already ...	F07FEFP
(PZPOTRS) Solution of complex Hermitian	positive-definite linear system, matrix already ...	F07FSFP
(PDPOTRF) Cholesky factorization of real symmetric	positive-definite matrix	F07DFFP
... Cholesky factorization of complex Hermitian	positive-definite matrix	F07FRFP
Machine	precision	X02AJF
... linear system, reverse-communication, solver using	preconditioned CG or SYMMLQ	F11GBFP
... of sparse symmetric linear system using block-Jacobi	preconditioned CG or SYMMLQ (Black Box)	F11JHFP
... linear system, reverse-communication, solver using	preconditioned GMRES, CGS or Bi-CGSTAB	F11BSFP
... linear system, reverse-communication, solver using	preconditioned RGMRES, CGS or Bi-CGSTAB	F11BBFP
... nonsymmetric linear system using Jacobi, SOR or no	preconditioned RGMRES, CGS or Bi-CGSTAB ...	F11DEFP
... sparse nonsymmetric linear system using block-Jacobi	preconditioned RGMRES, CGS or Bi-CGSTAB ...	F11DHFP
... non-Hermitian linear system using Jacobi, SOR or no	preconditioned RGMRES, CGS or Bi-CGSTAB ...	F11DSFP
... sparse non-Hermitian linear system using block-Jacobi	preconditioned RGMRES, CGS or Bi-CGSTAB ...	F11DVFP
... the complex sparse linear system, used mostly as SOR	preconditioner for complex sparse matrix	F11DRFP
... complex sparse linear system, used mostly as Jacobi	preconditioner for complex sparse matrix	F11DXFP
... to real sparse linear system, used mostly as SOR	preconditioner for real sparse matrix	F11DDFP
... diagonal blocks, used mostly as incomplete LU	preconditioner for real sparse matrix	F11DFFP
... nonsymmetric linear system, reverse-communication,	preconditioner for real sparse matrix	F11DGFP
... to a real sparse linear system, used mostly as Jacobi	preconditioner for real sparse matrix	F11DKFP
... linear system, reverse-communication, block-Jacobi	preconditioner generated by F11DTFP	F11DUFP
... matrices distributed on a two-dimensional logical	processor grid, used with routines from Chapter ...	X04BUFP
Multi-dimensional quadrature, general	product region, number-theoretic method	D01GCFP
Function returning	pseudo-random integer from the interval $[ia,ib)$, ...	G05AZFP
	Pseudo-random integers from the interval (ia,ib) , ...	G05BZFP
Function returning	pseudo-random real number from the interval $(0,1)$	G05AAF
Function returning	pseudo-random real number from the interval $[a,b)$, ...	G05AEFP
Function returning	pseudo-random real number from the interval (a,b) , ...	G05ADFP
Function returning	pseudo-random real number from the interval $[a,b)$, ...	G05ACFP
	Pseudo-random real numbers from the interval $(0,0)$, ...	G05BAFP
	Pseudo-random real numbers from the interval (a,b) , ...	G05BEFP
	Pseudo-random real numbers from the interval (a,b) , ...	G05BDFP
	Pseudo-random real numbers from the interval (a,b) , ...	G05BCFP
(PDORGQR) Form all or part of an orthogonal Q from	QR factorization determined by F08AEFP ...	F08AFFP
(PZUNGQR) Form all or part of a unitary Q from	QR factorization determined by F08ASFP ...	F08ATFP
(PZGQRF)	QR factorization of complex general ...	F08ASFP
(PDGQRF)	QR factorization of real general ...	F08AEFP
One-dimensional	quadrature , adaptive, finite interval, allowing for ...	D01ATFP
One-dimensional	quadrature , adaptive, finite interval, suitable for ...	D01AUFP
One-dimensional	quadrature , adaptive, finite interval, weight ...	D01AXFP

Two-dimensional	quadrature , finite region	D01DAFP
Multi-dimensional	quadrature , general product region, ...	D01GCFP
Multi-dimensional	quadrature , hyper-rectangle, adaptive	D01FAFP
Selects	random number generator and initialises seeds ...	G05ABFP
Selects	random number generator and initialises seeds ...	G05BBFP
Safe	range of complex floating-point arithmetic	X02ANF
Safe	range of real floating-point arithmetic	X02AMF
(PDGEQRF) <i>QR</i> factorization of real general	rectangular matrix	F08AEFP
(PZGEQRF) <i>QR</i> factorization of complex general	rectangular matrix	F08ASFP
Complex sparse non-Hermitian linear system,	reverse-communication , block-Jacobi preconditioner ...	F11DUFP
Real sparse nonsymmetric linear system,	reverse-communication , diagnostic for F11BBFP	F11BCFP
Complex sparse non-Hermitian linear system,	reverse-communication , diagnostic for F11BSFP	F11BTFP
Real sparse symmetric linear system,	reverse-communication , diagnostic for F11GBFP	F11GCFP
Real sparse nonsymmetric linear system,	reverse-communication , incomplete <i>LU</i> factorization ...	F11DFFP
Real sparse nonsymmetric linear system,	reverse-communication , preconditioner for real sparse ...	F11DGFP
Real sparse nonsymmetric linear system,	reverse-communication , set-up for F11BBFP	F11BAFP
Complex sparse non-Hermitian linear system,	reverse-communication , set-up for F11BSFP	F11BRFP
Real sparse symmetric linear system,	reverse-communication , set-up for F11GBFP	F11GAFP
Real sparse symmetric linear system,	reverse-communication , solver using preconditioned ...	F11GBFP
Complex sparse non-Hermitian linear system,	reverse-communication , solver using preconditioned ...	F11BSFP
Real sparse nonsymmetric linear system,	reverse-communication , solver using preconditioned ...	F11BBFP
... reverse-communication, solver using preconditioned	RGMRES , CGS or Bi-CGSTAB	F11BBFP
... linear system using Jacobi, SOR or no preconditioned	RGMRES , CGS or Bi-CGSTAB (Black Box)	F11BDFP
... linear system using block-Jacobi preconditioned	RGMRES , CGS or Bi-CGSTAB (Black Box)	F11DHFp
... linear system using Jacobi, SOR or no preconditioned	RGMRES , CGS or Bi-CGSTAB (Black Box)	F11DSFP
... linear system using block-Jacobi preconditioned	RGMRES , CGS or Bi-CGSTAB (Black Box)	F11DVFP
	Root processor identifier	Z01ACFP
Row and column indices of the	root processor within the logical grid	Z01BAFP
	Row and column indices of the root processor ...	Z01BAFP
Computes number of rows of a	row block distributed matrix owned by a processor	Z01CFFP
Outputs real matrix stored in	row block fashion	X04BXFP
Outputs complex matrix stored in	row block fashion	X04BZFP
In-place generation of real matrix in	row block fashion on a one-dimensional grid of ...	F01YYFP
In-place generation of complex matrix in	row block fashion on a one-dimensional grid of ...	F01YZFP
In-place generation of complex matrix in	row block fashion, used with routines from Chapter ...	F01ZNFp
In-place generation of real matrix in	row block fashion, used with routines from ...	F01ZMFP
... with symmetric sparsity pattern, distributed in	row block form	F11ZGFP
... with symmetric sparsity pattern, distributed in	row block form.	F11ZUFP
Computes number of	rows of a row block distributed matrix owned ...	Z01CFFP
Number of	rows or columns of matrix held locally on a ...	Z01CAFP
	Safe range of complex floating-point arithmetic	X02ANF
	Safe range of real floating-point arithmetic	X02AMF
	Scatter complex matrix from the root processor ...	F01WVFP
	Scatter complex matrix from the root processor ...	F01WUFP
	Scatter complex sparse matrix, stored in ...	F01XPFP
	Scatter complex vector distributed conformally ...	F01XTFP
	Scatter integer vector distributed conformally ...	F01XGFP
	Scatter real matrix from the root processor to ...	F01WPFP
	Scatter real matrix from the root processor to ...	F01WNFP
	Scatter real sparse matrix, stored in coordinate ...	F01XAFP
	Scatter real vector distributed conformally to ...	F01XAFP
	Scatter real vector distributed conformally to ...	F01XAFP
Selects random number generator and initialises	seeds to give repeatable sequence	G05BBFP
(PDSTEBZ) All or	selected eigenvalues of real symmetric ...	F08JJFP
(PZSTEIN)	Selected eigenvectors of real symmetric ...	F08JXFP
(PDSTEIN)	Selected eigenvectors of real symmetric ...	F08JKFP
Largest permissible argument for	sin and cos	X02AHF
	Singular Value Decomposition (SVD) of complex ...	F02WRFp
	Singular Value Decomposition (SVD) of real matrix, ...	F02WQFP
... finite interval, weight functions $\cos(\omega x)$ or	$\sin(\omega x)$	D01AXFP
	Smallest positive model number	X02AKF
Apply iterations of	SOR method to real sparse linear system, ...	F11DDFP
Apply iterations of	SOR method to the complex sparse linear ...	F11DRFP
... real sparse nonsymmetric linear system using Jacobi,	SOR or no preconditioned RGMRES, CGS or ...	F11DEFp
... sparse non-Hermitian linear system using Jacobi,	SOR or no preconditioned RGMRES, CGS or ...	F11DSFP
... of relaxed Jacobi iterative method to complex	sparse linear system, used mostly as Jacobi ...	F11DXFP
... of relaxed Jacobi iterative method to a real	sparse linear system, used mostly as Jacobi ...	F11DKFP
Apply iterations of SOR method to the complex	sparse linear system, used mostly as SOR ...	F11DRFP
Apply iterations of SOR method to real	sparse linear system, used mostly as SOR ...	F11DDFP
... of real dense vector distributed conformally to	sparse matrix	F01YFP
... system, used mostly as SOR preconditioner for real	sparse matrix	F11DDFP
... reverse-communication, preconditioner for real	sparse matrix	F11DGFP
... system, used mostly as Jacobi preconditioner for real	sparse matrix	F11DKFP
... <i>LU</i> factorization of local diagonal blocks of complex	sparse matrix	F11DTFP
Matrix-vector multiplication for real	sparse matrix	F11XBFP
Matrix-vector multiplication for complex	sparse matrix	F11XPFP
In-place generation of complex	sparse matrix according to cyclic row block ...	F01YQFP
In-place generation of complex	sparse matrix according to cyclic row block ...	F01YPFP
General set-up routine for real	sparse matrix distributed in cyclic row block form	F11ZAFP
General set-up routine for real	sparse matrix distributed in cyclic row block ...	F11ZBFP
General set-up routine for complex	sparse matrix, distributed in cyclic row block ...	F11ZFPF
... real dense vector, distributed conformally to a	sparse matrix on a logical grid of processors, ...	X04YAFP
... factorization of the local diagonal blocks of a real	sparse matrix, represented in coordinate ...	F11DAFP
... of linear equations, involving a real block diagonal	sparse matrix, represented in coordinate ...	F11DBFP
	Scatter real sparse matrix, stored in coordinate storage ...	F01XAFP
	Scatter complex sparse matrix, stored in coordinate storage ...	F01XPFP
Outputs complex vector, distributed conformally to	sparse matrix to a sequential file	X04YPFP
Scatter real vector distributed conformally to	sparse matrix, used with routines from Chapter F11	F01XAFP

- Gather real vector distributed conformally to **sparse** matrix, used with routines from Chapter F11 F01XFFP
- Scatter integer vector distributed conformally to **sparse** matrix, used with routines from Chapter F11 F01XGFP
- Gather integer vector distributed conformally to **sparse** matrix, used with routines from Chapter F11 F01XHFP
- Scatter complex vector distributed conformally to **sparse** matrix, used with routines from Chapter F11 F01XTFP
- Gather complex vector distributed conformally to **sparse** matrix, used with routines from Chapter F11 F01XUFP
- ... of complex dense vector distributed conformally to **sparse** matrix, used with routines from Chapter F11 F01YTFP
- In-place generation of real **sparse** matrix using cyclic row block distribution F01YAFP
- In-place generation of real **sparse** matrix using cyclic row block ... F01YBFP
- Permutation of non-zero entries of real **sparse** matrix with repeated sparsity pattern F11YAFP
- Permutation of non-zero entries of complex **sparse** matrix with repeated sparsity pattern F11YNFP
- Generates multi-colour ordering for real **sparse** matrix with symmetric sparsity pattern, ... F11ZGFP
- Generates multi-colour ordering for complex **sparse** matrix with symmetric sparsity pattern, ... F11ZUFP
- Complex **sparse** non-Hermitian linear system, ... F11DUFP
- Complex **sparse** non-Hermitian linear system, ... F11BTFP
- Complex **sparse** non-Hermitian linear system, ... F11BRFP
- Complex **sparse** non-Hermitian linear system, ... F11BSFP
- Solution of complex **sparse** non-Hermitian linear system using ... F11DVFP
- Solution of complex **sparse** non-Hermitian linear system using Jacobi, ... F11DSFP
- Real **sparse** nonsymmetric linear system, ... F11BCFP
- Real **sparse** nonsymmetric linear system, ... F11DFFP
- Real **sparse** nonsymmetric linear system, ... F11DGFp
- Real **sparse** nonsymmetric linear system, ... F11BAFP
- Real **sparse** nonsymmetric linear system, ... F11BBFP
- Solution of real **sparse** nonsymmetric linear system using ... F11DHFP
- Solution of real **sparse** nonsymmetric linear system using Jacobi, ... F11DEFP
- Real **sparse** symmetric linear system, ... F11GCFP
- Real **sparse** symmetric linear system, ... F11GAFP
- Real **sparse** symmetric linear system, ... F11GBFP
- Solution of **sparse** symmetric linear system using ... F11JHFP
- Solution of real **sparse** symmetric linear system using Jacobi, ... F11JFP
- Black Box routine for **sparse** system of linear equations F11DCFp
- ... -colour ordering for real sparse matrix with symmetric **sparsity** pattern, distributed in row block form F11ZGFP
- ... ordering for complex sparse matrix with symmetric **sparsity** pattern, distributed in row block form. F11ZUFP
- Unconstrained minimum of a sum of **squares**, Gauss-Newton algorithm using function ... E04DFDP
- ... of real sparse symmetric linear system using Jacobi, **SSOR** or no preconditioned CG or SYMMLQ (Black Box) F11JFP
- Scatter real sparse matrix, stored in coordinate **storage** format, using cyclic row block ... F01XAFP
- Scatter complex sparse matrix, stored in coordinate **storage** format, using cyclic row block ... F01XPFP
- Unconstrained minimum of a **sum** of squares, Gauss-Newton algorithm ... E04DFDP
- Singular Value Decomposition (**SVD**) of complex matrix, one-sided Jacobi method F02WRFP
- Singular Value Decomposition (**SVD**) of real matrix, one-sided Jacobi method F02WQFP
- Solution of real **symmetric** banded linear system (Black Box) F04HBFP
- (PDPBTRS) Solution of real **symmetric** banded linear system, matrix already ... F07HEFP
- In-place generation of real **symmetric** banded matrix in column block fashion, ... F01YXFP
- (PDPBTRF) Cholesky factorization of real **symmetric** banded matrix with no pivoting F07HDFP
- Real sparse **symmetric** linear system, reverse-communication, ... F11GCFP
- Real sparse **symmetric** linear system, reverse-communication, ... F11GAFP
- Real sparse **symmetric** linear system, reverse-communication, ... F11GBFP
- Solution of sparse **symmetric** linear system using block-Jacobi ... F11JHFP
- Solution of real sparse **symmetric** linear system using Jacobi, SSOR or no ... F11JFP
- Eigenvalues and eigenvectors of real **symmetric** matrix, one-sided Jacobi method F02FQFP
- (PDSYTRD) Orthogonal reduction of real **symmetric** matrix to tridiagonal form F08FEFP
- Solution of real **symmetric** positive-definite linear system (Black ... F04FBFP
- (PDPOTRS) Solution of real **symmetric** positive-definite linear system, matrix ... F07FEFP
- (PDPOTRF) Cholesky factorization of real **symmetric** positive-definite matrix F07DFDP
- ... multi-colour ordering for real sparse matrix with **symmetric** sparsity pattern, distributed in row ... F11ZGFP
- ... multi-colour ordering for complex sparse matrix with **symmetric** sparsity pattern, distributed in row ... F11ZUFP
- ... Unitary reduction of complex Hermitian matrix to **symmetric** tridiagonal form F08FSFP
- real
- Solution of real **symmetric** tridiagonal linear system (Black Box) F04JBFP
- (PDPTRRS) Solution of real **symmetric** tridiagonal linear system, matrix ... F07JFP
- (PZPTRRS) Solution of real **symmetric** tridiagonal linear system, matrix ... F07JSFP
- (PDSTEBZ) All or selected eigenvalues of real **symmetric** tridiagonal matrix by bisection F08JJFP
- (PZSTEIN) Selected eigenvectors of real **symmetric** tridiagonal matrix by inverse iteration, ... F08JXFP
- (PDSTEIN) Selected eigenvectors of real **symmetric** tridiagonal matrix by inverse iteration, ... F08JKFP
- (PDPTRRF) Cholesky factorization of real **symmetric** tridiagonal matrix with no-pivoting F07JDFP
- ... solver using preconditioned CG or **SYMMLQ** F11GBFP
- ... system using Jacobi, SSOR or no preconditioned CG **SYMMLQ** (Black Box) F11JFP
- or
- ... system using block-Jacobi preconditioned CG or **SYMMLQ** (Black Box) F11JHFP
- Solution of real symmetric tridiagonal linear **system** (Black Box) F04JBFP
- Black Box routine for sparse **system** of linear equations F11DCFp
- Solution of real **system** of linear equations, involving a real ... F11DBFP
- Generates an l by m by n **three-dimensional** array $A(i, j, k)$ on a grid of ... F01ZHFP
- Direct or inverse **three-dimensional** discrete Fourier transform of a ... C06MXFP
- Topology** to be used by BLACS for broadcasting and ... Z01BEFP
- Direct or inverse two-dimensional Fourier **transform** of a complex sequence C06FUFp
- Direct or inverse one-dimensional discrete Fourier **transform** of a complex sequence C06MCFP
- Direct or inverse three-dimensional discrete Fourier **transform** of a complex sequence C06MXFP
- (PDORMQR) Apply the orthogonal **transformation** determined by F08AEFP (PDORMQR) F08AGFP
- (PZUNMQR) Apply the unitary **transformation** determined by F08ASFP (PZUNMQR) F08AUFp
- (PDORMTR) Apply orthogonal **transformation** determined by F08FEFP (PDSYTRD) F08FGFP
- (PZUNMTR) Apply unitary **transformation** matrix determined by F08FSFP ... F08FUFp
- (PDTRCON) Estimates condition number of real **triangular** matrix F07TGFP
- ... Orthogonal reduction of real symmetric matrix to **tridiagonal** form F08FEFP
- ... of complex Hermitian matrix to real symmetric **tridiagonal** form F08FSFP
- Solution of real symmetric **tridiagonal** linear system (Black Box) F04JBFP
- Solution of complex Hermitian **tridiagonal** linear system (Black Box) F04JZFP
- (PDPTRRS) Solution of real symmetric **tridiagonal** linear system, matrix already factorized ... F07JFP

(PZPTTRS) Solution of real symmetric tridiagonal linear system, matrix already factorized ...	F07JSFP
... All or selected eigenvalues of real symmetric tridiagonal matrix by bisection	F08JJFP
(PZSTEIN) Selected eigenvectors of real symmetric tridiagonal matrix by inverse iteration, storing ...	F08JXFP
(PDSTEIN) Selected eigenvectors of real symmetric tridiagonal matrix by inverse iteration, storing ...	F08JKFP
(PDPTRF) Cholesky factorization of real symmetric tridiagonal matrix with no-pivoting	F07JDFP
(PZPTRF) Factorization of complex Hermitian tridiagonal matrix with no-pivoting	F07JRF
Direct or inverse two-dimensional Fourier transform of a complex ...	C06FUF
Identifies logical processors in context in the two-dimensional grid declared by Z01AAFP	Z01BBFP
Defines two-dimensional logical processor grid (Library Grid) ...	Z01AAFP
Outputs set of real general matrices distributed on a two-dimensional logical processor grid, used with ...	X04BFFP
... set of complex general matrices distributed on a two-dimensional logical processor grid, used with ...	X04BUFP
Two-dimensional quadrature, finite region	D01DAFP
Minimum of a general nonlinear function with unconstrained , Gauss–Newton algorithm using function ...	E04JBFP
Unconstrained minimum of a sum of squares, ...	E04DFP
... real number from the interval $[a,b]$, uniform distribution	G05ACFP
... pseudo-random integer from the interval $[ia,ib]$, uniform distribution	G05AZFP
Pseudo-random real numbers from the interval $(0,0)$, uniform distribution	G05BAFP
... real numbers from the interval (a,b) , uniform distribution	G05BCFP
Pseudo-random integers from the interval (ia,ib) , uniform distribution	G05BZFP
(PZUNGQR) Form all or part of a unitary Q from QR factorization determined ...	F08ATFP
(PZHETRD) Unitary reduction of complex Hermitian matrix to ...	F08FSFP
(PZUNMQR) Apply the unitary transformation determined by F08ASFP ...	F08AUF
(PZUNMTR) Apply unitary transformation matrix determined by ...	F08FUF
Outputs real dense vector , distributed conformally to a sparse ...	X04YAFP
Gather real vector distributed conformally to matrix, used ...	F01ZFP
In-place generation of real dense vector distributed conformally to sparse matrix	F01YFP
Outputs complex vector , distributed conformally to sparse ...	X04YFP
Scatter real vector distributed conformally to sparse matrix, ...	F01XFP
Gather real vector distributed conformally to sparse matrix, ...	F01XFP
Scatter integer vector distributed conformally to sparse matrix, ...	F01XGFP
Gather integer vector distributed conformally to sparse matrix, ...	F01XHFP
Scatter complex vector distributed conformally to sparse matrix, ...	F01XTFP
Gather complex vector distributed conformally to sparse matrix, ...	F01XUFP
In-place generation of complex dense vector distributed conformally to sparse matrix, ...	F01YTFP
Permutation of real vector from distribution based order to local ...	F11YBFP
Permutation of complex vector from distribution based order to local ...	F11YFP
Permutation of real vector from local indexing based order to ...	F11YCFP
Permutation of complex vector from local indexing based order to ...	F11YQFP
In-place generation of complex vector in column block fashion, used with ...	F01ZYFP
In-place generation of real vector in column block fashion, used with ...	F01ZZFP
One-dimensional quadrature, adaptive, finite interval, weight functions $\cos(\omega x)$ or ...	D01AXFP