

## Reserved Names

### 1 Auxiliary Routines

In addition to those Library routines which are documented and are intended to be called by users, the Library also contains many auxiliary routines.

In general, you need not be concerned with them at all, although you may be made aware of their existence if, for example, you examine a memory map of an executable program which calls NAG routines.

NAG auxiliary routines have names which are similar to the name of the documented routine(s) to which they are related, but with the sixth letter 'Z', 'Y', and so on, e.g.

D01AUTP is an auxiliary routine called by D01AUPF.

The Library also calls a number of **de facto** standard routines such as the BLACS, PBLAS (see [2]) and BLAS (see for example [1] and the references contained therein). Depending on which version of the Library is used, a few MPI or PVM routines are also called. MPI routines that are called by the MPI-based version of the Library have names that start with MPI, and PVM routines called by the PVM-based version have names that start with PVM or LPVM; to avoid unintentional clashes with MPI or PVM names you should not declare names that start with these characters. Similarly, a number of the BLACS routines start with the characters BLACS. Additional reserved names to avoid, including further BLACS names, are listed below.

### 2 Other Reserved Names

ARGCHECK00	BE_COMB	DCPUTIME00_	DGAMN2D_	DGAMX2D_
DGEBR2D_	DGEBS2D_	DGERV2D_	DGESD2D_	DGPK4AMXAMN
DGPK4OP	DGSUM2D_	DGUPK4AMXAMN	DGUPK4OP	DGUPK_AMN
DGUPK_AMN2	DGUPK_AMX	DGUPK_AMX2	DGUPK_SUM	DLABAD
DLACPY	DLADIV	DLAGGE	DLAGSY	DLAGTF
DLAGTS	DLAMCH	DLAPY2	DLAPY3	DLARAN
DLARF	DLARFB	DLARFG	DLARFT	DLARNR
DLARNV	DLAROT	DLARTG	DLARUV	DLASCL
DLASET	DLASRT	DLASSQ	DLATM1	DLATMS
DORM2L	DORM2R	DORMQL	DORMQR	DORMTR
DPACK00	DSTEIN	DTRBR2D_	DTRBS2D_	DTRPACK00
DTRRV2D_	DTRSD2D_	DTRUNPACK00	DUNPACK00	DWALLTIME00_
DZSUM1	FTOCSTR	GETBUFF	GLOBALVARS	ICMAX1
ICOPY	IGAMN2D_	IGAMX2D_	IGEBR2D_	IGESB2D_
IGERV2D_	IGESD2D_	IGPK4AMXAMN	IGPK4OP	IGSUM2D_
IGUPK4AMXAMN	IGUPK4OP	IGUPK_AMN	IGUPK_AMN2	IGUPK_AMX
IGUPK_AMX2	IGUPK_SUM	ILAENV	IMALLOC	IPACK00
ITRBR2D_	ITRBS2D_	ITRPACK00	ITRRV2D_	ITRSD2D_
ITRUNPACK00	IUNPACK00	IZMAX1	KBRID_	KBSID_
KRECVID_	KSENDID_	LSAME	PBDDZERO	PBDDZRO1
PBDGEMM	PBDGEMV	PBDGER	PBDLACP1	PBDLACPZ
PBDMATADD	PBDSYMM	PBDSYMV	PBDSYR	PBDSYR2
PBDSYR2K	PBDSYRK	PBDTRAD1	PBDTRADD	PBDTRAN
PBDTRGET	PBDTRMM	PBDTRMV	PBDTRNV	PBDTRSM
PBDTRSRT	PBDTRST1	PBDTRSV	PBDVECADD	PBERROR_
PBLAS_	PDAMAX_	PDASUM_	PDAXPY_	PDCOPY_
PDDOT_	PDGEMM_	PDGEMV_	PDGER_	PDNRM2_
PDSCAL_	PDSWAP_	PDSYMM_	PDSYMV_	PDSYR2K_
PDSYR2_	PDSYRK_	PDSYR_	PDTRAN_	PDTRMM_
PDTRMV_	PDTRSM_	PDTRSV_	PDZASUM_	PDZNRM2_
PXERBLA	SETPVMTIDS_	SHYP_BR	SHYP_BS	SIDRING_BR
SIDRING_BS	SMPATH_BR	SMPATH_BS	SRECV2D00	SRECV2DID

SSEND2D00	SSEND2DID	SSRING_BR	SSRING_BS	STREE_BR
STREE_BS	TRANSDIST	TREE_COMB		

### 3 References

- [1] Anderson E, Bai Z, Bischof C, Demmel J, Dongarra J J, Du Croz J J, Greenbaum A, Hammarling S, McKenney A, Ostrouchov S and Sorensen D (1995) *LAPACK Users' Guide* (2nd Edition) SIAM, Philadelphia
  - [2] Choi J, Dongarra J J, Ostrouchov S, Petitet A P, Walker D W and Whaley R C (1994) The Design and Implementation of the ScaLAPACK LU, QR and Cholesky Factorization Routines *LAPACK Working Note 80. Technical Report CS-94-246* Department of Computer Science, University of Tennessee, 107 Ayres Hall, Knoxville, TN 37996-1301, USA
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