

NAG Library

Routines Withdrawn or Scheduled for Withdrawal

This document lists all those routines that have been withdrawn since Mark 17 of the Library or are scheduled for withdrawal at one of the next two marks.

The document gives the names of the routines which are now recommended as their replacements. Another document, 'Advice on Replacement Calls for Withdrawn/Superseded Routines', gives more detailed guidance.

Withdrawn Routine	Mark of Withdrawal	Replacement Routine(s)
C05ADF	25	C05AYF
C05AGF	25	C05AUF
C05AJF	25	C05AWF
C05NBF	25	C05QBF
C05NCF	25	C05QCF
C05NDF	25	C05QDF
C05PBF	25	C05RBF
C05PCF	25	C05RCF
C05PDF	25	C05RDF
C05ZAF	25	C05ZDF
C06DBF	25	C06DCF
C06EAF	26	C06PAF
C06EBF	26	C06PAF
C06ECF	26	C06PCF
C06EKF	26	C06FKF
C06FRF	26	C06PSF
C06FUF	26	C06PUF
C06GBF	26	No replacement required
C06GCF	26	No replacement required
C06GQF	26	No replacement required
C06GSF	26	No replacement required
C06HAF	26	C06RAF
C06HBF	26	C06RAF
C06HCF	26	C06RCF
C06HDF	26	C06RDF
D01BAF	26	D01UAF
D01BBF	26	D01TBF
D02BAF	18	D02PEF and associated D02P routines
D02BBF	18	D02PEF and associated D02P routines
D02BDF	18	D02PEF and associated D02P routines
D02CAF	18	D02CJF

D02CBF	18	D02CJF
D02CGF	18	D02CJF
D02CHF	18	D02CJF
D02EAF	18	D02EJF
D02EBF	18	D02EJF
D02EGF	18	D02EJF
D02EHF	18	D02EJF
D02PAF	18	D02PEF and associated D02P routines
D02PCF	26	D02PEF and associated D02P routines
D02PDF	26	D02PFF and associated D02P routines
D02PVF	26	D02PQF
D02PWF	26	D02PRF
D02PXF	26	D02PSF
D02PYF	26	D02PTF
D02PZF	26	D02PUF
D02QDF	17	D02NBF or D02NCF
D02QQF	17	D02NBF or D02NCF
D02XAF	18	D02PSF and associated D02P routines
D02XBF	18	D02PSF and associated D02P routines
D02YAF	18	D02PFF and associated D02P routines
D03PAF	17	D03PCF/D03PCA
D03PBF	17	D03PCF/D03PCA
D03PGF	17	D03PCF/D03PCA
E01SEF	20	E01SGF
E01SFF	20	E01SHF
E04CCF	24	E04CBF
E04FDF	19	E04FYF
E04GCF	19	E04GYF
E04GEF	19	E04GZF
E04HFF	19	E04HYF
E04JAF	19	E04JYF
E04KAF	19	E04KYF
E04KCF	19	E04KZF
E04LAF	19	E04LYF
E04MBF	18	E04MFF/E04MFA
E04MZF	26	E04MXF
E04NAF	18	E04NFF/E04NFA
E04UNF	22	E04USF/E04USA
E04UPF	19	E04USF/E04USA

E04VCF	17	E04UCF/E04UCA
E04VDF	17	E04UCF/E04UCA
E04ZCF	24	No longer required
F01AAF	17	F07ADF (DGETRF) and F07AJF (DGETRI)
F01AEF	18	F07FDF (DPOTRF), F08SEF (DSYGST) and F06EGF (DSWAP)
F01AFF	18	F06EGF (DSWAP) and F06YJF (DTRSM)
F01AGF	18	F08FEF (DSYTRD)
F01AHF	18	F08FGF (DORMTR)
F01AJF	18	F08FEF (DSYTRD) and F08FFF (DORGTR)
F01AKF	18	F08NEF (DGEHRD)
F01ALF	18	F08NGF (DORMHR)
F01AMF	18	F08NSF (ZGEHRD)
F01ANF	18	F08NUF (ZUNMHR)
F01APF	18	F06QFF and F08NFF (DORGHR)
F01ATF	18	F08NHF (DGEBAL)
F01AUF	18	F08NJF (DGEBAK)
F01AVF	18	F08NVF (ZGEBAL)
F01AWF	18	F08NWF (ZGEBAK)
F01AXF	18	F06EFF (DCOPY) and F08BEF (DGEQPF)
F01AYF	18	F08GEF (DSPTRD)
F01AZF	18	F08GGF (DOPMTR)
F01BCF	18	F08FSF (ZHETRD) and F08FTF (ZUNGTR)
F01BDF	18	F07FDF (DPOTRF), F08SEF (DSYGST) and F06EGF (DSWAP)
F01BEF	18	F06YFF (DTRMM) and F06EGF (DSWAP)
F01BNF	17	F07FRF (ZPOTRF)
F01BPF	17	F07FRF (ZPOTRF) and F07FWF (ZPOTRI)
F01BTF	18	F07ADF (DGETRF)
F01BWF	18	F08HEF (DSBTRD)
F01BXF	17	F07FDF (DPOTRF)
F01LBF	18	F07BDF (DGBTRF)
F01MAF	19	F11JAF
F01NAF	17	F07BRF (ZGBTRF)
F01QCF	18	F08AEF (DGEQRF)
F01QDF	18	F08AGF (DORMQR)
F01QEF	18	F08AFF (DORGQR)
F01QFF	18	F08BEF (DGEQPF)
F01RCF	18	F08ASF (ZGEQRF)
F01RDF	18	F08AUF (ZUNMQR)
F01REF	18	F08ATF (ZUNGQR)

F01RFF	18	F08BSF (ZGEQPF)
F02AAF	18	F08FAF (DSYEV)
F02ABF	18	F08FAF (DSYEV)
F02ADF	18	F08SAF (DSYGV)
F02AEF	18	F08SAF (DSYGV)
F02AFF	18	F08NAF (DGEEV)
F02AGF	18	F08NAF (DGEEV)
F02AJF	18	F08NNF (ZGEEV)
F02AKF	18	F08NNF (ZGEEV)
F02AMF	18	F08JEF (DSTEQR)
F02ANF	18	F08PSF (ZHSEQR)
F02APF	18	F08PEF (DHSEQR)
F02AQF	18	F08PEF (DHSEQR) and F08QKF (DTREVC)
F02ARF	18	F08PSF (ZHSEQR) and F08QXF (ZTREVC)
F02AVF	18	F08JFF (DSTERF)
F02AWF	18	F08FNF (ZHEEV)
F02AXF	18	F08FNF (ZHEEV)
F02AYF	18	F08JSF (ZSTEQR)
F02BBF	19	F08FBF (DSYEVX)
F02BCF	19	F02ECF
F02BDF	19	F02GCF
F02BEF	18	F08JFJ (DSTEBZ) and F08JKF (DSTEIN)
F02BFF	18	F08JFJ (DSTEBZ)
F02BJF	23	F08WAF (DGGEV)
F02BKF	18	F08PKF (DHSEIN)
F02BLF	18	F08PXF (ZHSEIN)
F02EAF	23	F08PAF (DGEES)
F02EBF	23	F08NAF (DGEEV)
F02FAF	23	F08FAF (DSYEV)
F02FCF	23	F08FBF (DSYEVX)
F02FDF	23	F08SAF (DSYGV)
F02FHF	23	F08UAF (DSBGV)
F02GAF	23	F08PNF (ZGEES)
F02GBF	23	F08NNF (ZGEEV)
F02GJF	23	F08WNF (ZGGEV)
F02HAF	23	F08FNF (ZHEEV)
F02HCF	23	F08FPF (ZHEEVX)
F02HDF	23	F08SNF (ZHEGV)
F02SWF	18	F08KEF (DGEBRD)

F02SXF	18	F08KFF (DORGBR) and F08KGF (DORMBR)
F02SYF	18	F08MEF (DBDSQR)
F02UWF	18	F08KSF (ZGEBRD), F06TFF, F08KTF (ZUNGBR) and F08KUF (ZUNMBR)
F02UXF	18	F08KTF (ZUNGBR) or F08KUF (ZUNMBR)
F02UYF	18	F08MSF (ZBDSQR)
F02WEF	23	F08KBF (DGESVD)
F02XEF	23	F08KPF (ZGESVD)
F03AAF	25	F07ADF (DGETRF) and F03BAF
F03ABF	25	F07FDF (DPOTRF) and F03BFF
F03ACF	25	F07HDF (DPBTRF) and F03BHF
F03ADF	25	F07ARF (ZGETRF) and F03BNF
F03AEF	25	F07FDF (DPOTRF) and F03BFF
F03AFF	25	F07ADF (DGETRF) and F03BAF
F03AGF	17	F07HDF (DPBTRF)
F03AHF	17	F07ARF (ZGETRF)
F03AMF	17	No replacement required; see Chapter F03
F04AAF	23	F07AAF (DGESV)
F04ACF	23	F07HAF (DPBSV)
F04ADF	23	F07ANF (ZGESV)
F04AFF	25	None.
F04AGF	25	None.
F04AHF	25	None.
F04AJF	25	None.
F04AKF	17	F07ASF (ZGETRS)
F04ALF	17	F07HEF (DPBTRS)
F04ANF	18	F06EFF (DCOPY), F06PJF (DTRSV) and F08AGF (DORMQR)
F04ARF	23	F07AAF (DGESV)
F04AWF	17	F07FSF (ZPOTRS)
F04AYF	18	F07AEF (DGETRS)
F04AZF	17	F07FEF (DPOTRS)
F04EAF	23	F07CAF (DGTSV)
F04FAF	23	F07JAF (DPTSV), or F07JDF (DPTTRF) and F07JEF (DPTTRS)
F04JAF	23	F08KAF (DGELSS)
F04JDF	23	F08KAF (DGELSS)
F04JLF	23	F08ZBF (DGGGLM)
F04JMF	23	F08ZAF (DGGLSE)
F04KLF	23	F08ZPF (ZGGGLM)
F04KMF	23	F08ZNF (ZGGLSE)

F04LDF	18	F07BEF (DGBTRS)
F04MAF	19	F11JCF
F04MBF	19	F11GDF, F11GEF and F11GFF (or F11JCF or F11JEF)
F04NAF	17	F06SKF (ZTBSV) and F07BSF (ZGBTRS)
F04YCF	26	F04YDF
F04ZCF	26	F04ZDF
F11BAF	21	F11BDF
F11BBF	21	F11BEF
F11BCF	21	F11BFF
F11GAF	22	F11GDF
F11GBF	22	F11GEF
F11GCF	22	F11GFF
G01AAF	26	G01ATF
G01CEF	18	G01FAF
G04ADF	17	G04BCF
G04AEF	17	G04BBF
G04AFF	17	G04CAF
G05CAF	22	G05SAF
G05CBF	22	G05KFF
G05CCF	22	G05KGF
G05CFF	22	F06DFF
G05CGF	22	F06DFF
G05DAF	22	G05SQF
G05DBF	22	G05SFF
G05DCF	22	G05SLF
G05DDF	22	G05SKF
G05DEF	22	G05SMF
G05DFF	22	G05SCF
G05DHF	22	G05SDF
G05DJF	22	G05SNF
G05DKF	22	G05SHF
G05DPF	22	G05SSF
G05DRF	22	G05TKF
G05DYF	22	G05TLF
G05DZF	22	G05TBF
G05EAF	22	G05RZF
G05EBF	22	G05TLF
G05ECF	22	G05TJF
G05EDF	22	G05TAF

G05EEF	22	G05THF
G05EFF	22	G05TEF
G05EGF	22	G05PHF
G05EHF	22	G05NCF
G05EJF	22	G05NDF
G05EWF	22	G05PHF
G05EXF	22	G05TDF
G05EYF	22	G05TDF
G05EZF	22	G05RZF
G05FAF	22	G05SQF
G05FBF	22	G05SFF
G05FDF	22	G05SKF
G05FEF	22	G05SBF
G05FFF	22	G05SJF
G05FSF	22	G05SRF
G05GAF	22	G05PXF
G05GBF	22	G05PYF
G05HDF	22	G05PJF
G05HKF	24	G05PDF
G05HLF	24	G05PEF
G05HMF	24	G05PFF
G05HNF	24	G05PGF
G05KAF	24	G05SAF
G05KBF	24	G05KFF
G05KCF	24	G05KGF
G05KEF	24	G05TBF
G05LAF	24	G05SKF
G05LBF	24	G05SNF
G05LCF	24	G05SDF
G05LDF	24	G05SHF
G05LEF	24	G05SBF
G05LFF	24	G05SJF
G05LGF	24	G05SQF
G05LHF	24	G05SPF
G05LJF	24	G05SFF
G05LKF	24	G05SMF
G05LLF	24	G05SJF
G05LMF	24	G05SSF
G05LNF	24	G05SLF

G05LPF	24	G05SRF
G05LQF	24	G05SGF
G05LXF	24	G05RYF
G05LYF	24	G05RZF
G05LZF	24	G05RZF
G05MAF	24	G05TLF
G05MBF	24	G05TCF
G05MCF	24	G05THF
G05MDF	24	G05TFF
G05MEF	24	G05TKF
G05MJF	24	G05TAF
G05MKF	24	G05TJF
G05MLF	24	G05TEF
G05MRF	24	G05TGF
G05MZF	24	G05TDF
G05NAF	24	G05NCF
G05NBF	24	G05NDF
G05PAF	24	G05PHF
G05PCF	24	G05PJF
G05QAF	24	G05PXF
G05QBF	24	G05PYF
G05QDF	24	G05PZF
G05RAF	24	G05RDF
G05RBF	24	G05RCF
G05YAF	23	G05YLF and G05YMF
G05YBF	23	G05YLF and either G05YJF or G05YKF
G05YCF	24	G05YLF
G05YDF	24	G05YMF
G05YEF	24	G05YLF
G05YFF	24	G05YMF
G05YGF	24	G05YLF
G05YHF	24	G05YMF
G05ZAF	22	None.
G13DAF	17	G13DMF
G13DCF	24	G13DDF
P01ABF	24	No longer required
X02DAF	24	No longer required
X02DJF	24	No longer required