

NAG Fortran Library

Routines Withdrawn or Scheduled for Withdrawal

This document lists all those routines that have been presented in earlier Marks of the Library, but have since been withdrawn or are scheduled for withdrawal.

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 Another document, 'Advice on Replacement Calls for Withdrawn/Superseded Routines', gives more detailed guidance.

Withdrawn Routine	Mark of Withdrawal	Replacement Routine(s)
C02ADF	15	C02AFF
C02AEF	16	C02AGF
C05AAF	9	C05ADF
C05ABF	9	C05ADF
C05ACF	9	C05ADF
C05NAF	10	C05NBF or C05NCF
C05PAF	8	C05PBF or C05PCF
C06AAF	9	C06ECF or C06FRF
C06ABF	9	C06EAF or C06FPF
C06ACF	12	C06EKF or C06FKF
C06ADF	12	C06FFF
D01AAF	8	D01AJF
D01ABF	8	D01AJF
D01ACF	9	D01BDF
D01ADF	8	D01BAF or D01BBF
D01AEF	8	D01BAF or D01BBF
D01AFF	8	D01BAF or D01BBF
D01AGF	9	D01AJF
D01FAF	11	D01GBF
D02AAF	8	D02PDF
D02ABF	8	D02PCF
D02ADF	9	D02HAF or D02GAF
D02AFF	9	D02TGF
D02AHF	8	D02CJF or D02QFF
D02AJF	8	D02EJF and D02NBF
D02BAF	18	D02PCF
D02BBF	18	D02PCF
D02BDF	18	D02PCF
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	D02PDF
D02QAF	14	D02QFF, D02QWF and D02QXF
D02QBF	13	D02NBF
D02QDF	17	D02NBF or D02NCF
D02QQF	17	not needed except with D02QDF
D02XAF	18	D02PXF
D02XBF	18	D02PXF
D02XGF	14	D02QZF
D02XHF	14	D02QZF

D02YAF	18	D02PDF
D03PAF	17	D03PCF/D03PCA
D03PBF	17	D03PCF/D03PCA
D03PGF	17	D03PCF/D03PCA
E01ACF	15	E01DAF and E02DEF
E01ADF	9	E01BAF
E01SEF	20	E01SGF
E01SFF	20	E01SHF
E02DBF	16	E02DEF
E04AAF	7	E04ABF/E04ABA
E04BAF	7	E04BBF/E04BBA
E04CDF	7	E04WDF
E04CEF	7	E04JYF
E04CFF	8	E04WDF
E04CGF	13	E04JYF
E04DBF	13	E04DGF/E04DGA
E04DCF	7	E04WDF or E04KDF
E04DDF	8	E04WDF or E04KDF
E04DEF	13	E04KYF
E04DFE	13	E04KZF
E04EAF	8	E04LBF
E04EBF	13	E04LYF
E04FAF	8	E04FCF or E04FYF
E04FBF	7	E04FCF or E04FYF
E04FDF	19	E04FYF
E04GAF	8	E04GBF, E04GYF, E04GDF or E04GZF
E04GCF	19	E04GYF
E04GEF	19	E04GZF
E04HAF	7	E04WDF
E04HBF	16	no longer required
E04HFF	19	E04HYF
E04JAF	19	E04JYF
E04JBF	16	E04WDF
E04KAF	19	E04KYF
E04KBF	16	E04WDF
E04KCF	19	E04KZF
E04LAF	19	E04LYF
E04MBF	18	E04MFF/E04MFA
E04NAF	18	E04NFF/E04NFA
E04NKF/E04NKA	23	E04NQF
E04NLF/E04NLA	23	E04NRF
E04NMF/E04NMA	23	E04NSF, E04NTF and E04NUF
E04UAF	13	E04WDF
E04UCF/E04UCA	23	E04WDF
E04UDF/E04UDA	23	E04WEF
E04UEF/E04UEA	23	E04WFF, E04WGF and E04WHF
E04UHF/E04UHA	23	E04VKF
E04UJF/E04UJA	23	E04VLF, E04VMF and E04VNF
E04UNF	22	E04USF/E04USA
E04UPF	19	E04USF/E04USA
E04VAF	12	E04WDF
E04VBF	12	E04WDF
E04VCF	17	E04WDF
E04VDF	17	E04WDF
E04WAF	12	E04WDF
E04ZAF	12	E04ZCF/E04ZCA
E04ZBF	12	no longer required
F01AAF	17	F07ADF (DGETRF) and F07AJF (DGETRI)
F01ACF	16	F01ABF

F01AEF	18	F07FDF (DPOTRF), F08SEF (DSYGST) and F06EGF (DSWAP)
F01AFF	18	F06YJF (DTRSM) and F06EGF (DSWAP)
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	F08NTF (ZUNGHR)
F01APF	18	F08NFF (DORGHR) and F06QFF
F01ATF	18	F08NHF (DGEBAL)
F01AUF	18	F08NJF (DGEBAK)
F01AVF	18	F08NVF (ZGEBAL)
F01AWF	18	F08NWF (ZGEBAK)
F01AXF	18	F08BEF (DGEQPF) and F06EFF (DCOPY)
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)
F01BFF	8	F07GDF (DPPTRF) or F07PDF (DSPTRF)
F01BHF	9	F08KBF (DGESVD)
F01BJF	9	F08HEF (DSBTRD)
F01BKF	9	F02WDF
F01BMF	9	F07BDF (DGBTRF)
F01BNF	17	F07FRF (ZPOTRF)
F01BPF	17	F07FRF (ZPOTRF) and F07FWF (ZPOTRI)
F01BQF	16	F07GDF (DPPTRF) and F07PDF (DSPTRF)
F01BTF	18	F07ADF (DGETRF)
F01BWF	18	F08HEF (DSBTRD)
F01BXF	17	F07FDF (DPOTRF)
F01CAF	14	F06QHF
F01CBF	14	F06QHF
F01CCF	7	F06QFF
F01CDF	15	F01CTF
F01CEF	15	F01CTF
F01CFE	14	F06QFF
F01CGF	15	F01CTF
F01CHF	15	F01CTF
F01CJF	8	F01CRF
F01CLF	16	F06YAF (DGEMM)
F01CMF	14	F06QFF
F01CNF	13	F06EFF (DCOPY)
F01CPF	13	F06EFF (DCOPY)
F01CQF	13	F06FBF
F01CSF	13	F06PEF (DSPMV)
F01DAF	13	F06EAF (DDOT)
F01DBF	13	X03AAF
F01DCF	13	F06GAF (ZDOTU)
F01DDF	13	X03ABF
F01DEF	14	F06EAF (DDOT)
F01LBF	18	F07BDF (DGBTRF)
F01LZF	15	F08KEF (DGEBRD), F08KFF (DORGBR) or F08KGF (DORMBR)
F01MAF	19	F11JAF
F01NAF	17	F07BRF (ZGBTRF)
F01QAF	15	F08AEF (DGEQRF)
F01QBF	15	F01QJF
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)
F02AHF	8	F02ECF
F02AJF	18	F08NNF (ZGEEV)
F02AKF	18	F08NNF (ZGEEV)
F02ALF	8	F02GCF
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)
F02ATF	8	F08PKF (DHSEIN)
F02AUF	8	F08PXF (ZHSEIN)
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	F08JFF (DSTEBZ) and F08JKF (DSTEIN)
F02BFF	18	F08JFF (DSTEBZ)
F02BJF	23	F08WAF (DGGEV)
F02BKF	18	F08PKF (DHSEIN)
F02BLF	18	F08PXF (ZHSEIN)
F02BMF	9	F08HEF (DSBTRD) and F08JFF (DSTEBZ)
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)
F02SZF	15	F08MEF (DBDSQR)
F02UWF	18	F08KSF (ZGEBRD)
F02UXF	18	F08KTF (ZUNGBR) or F08KUF (ZUNMBR)
F02UYF	18	F08MSF (ZBDSQR)
F02WAF	16	F08KBF (DGESVD)
F02WBF	14	F08KBF (DGESVD)
F02WCF	14	F08KBF (DGESVD)
F02WEF	23	F08KBF (DGESVD)

F02XEF	23	F08KPF (ZGESVD)
F03AGF	17	F07HDF (DPBTRF)
F03AHF	17	F07ARF (ZGETRF)
F03AJF	8	F01BRF
F03AKF	8	F01BSF
F03ALF	9	F07BDF (DGBTRF)
F03AMF	17	No replacement; see Chapter F03
F04AAF	23	F07AAF (DGESV)
F04ACF	23	F07HAF (DPBSV)
F04ADF	23	F07ANF (ZGESV)
F04AKF	17	F07ASF (ZGETRS)
F04ALF	17	F07HEF (DPBTRS)
F04ANF	18	F08AGF (DORMQR), F06PJF (DTRSV) and F06EFF (DCOPY)
F04APF	8	F04AXF
F04AQF	16	F07GEF (DPPTRS) and F07PEF (DSPTRS)
F04ARF	23	F07AAF (DGESV)
F04AUF	9	F04JGF
F04AVF	9	F07BEF (DGBTRS)
F04AWF	17	F07FSF (ZPOTRS)
F04AYF	18	F07AEF (DGETRS)
F04AZF	17	F07FEF (DPOTRS)
F04EAF	23	F07CAF (DGTSV)
F04FAF	23	F07JAF (DPTSV)
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, F11GFF, F11JCF or F11JEF
F04NAF	17	F07BSF (ZGBTRS) and F06SKF (ZTBSV)
F05ABF	14	F06EJF (DNRM2)
F06QGF	16	F06RAF, F06RCF and F06RJF
F06VGF	16	F06UAF, F06UCF and F06UJF
F11BAF	21	F11BDF
F11BBF	21	F11BEF
F11BCF	21	F11BFF
F11GAF	22	F11GDF
F11GBF	22	F11GEF
F11GCF	22	F11GFF
G01ACF	9	G04BBF
G01BAF	16	G01EBF
G01BBF	16	G01EDF
G01BCF	16	G01ECF
G01BDF	16	G01EEF
G01CAF	16	G01FBF
G01CBF	16	G01FDF
G01CCF	16	G01FCF
G01CDF	16	G01FEF
G01CEF	18	G01FAF
G02CJF	16	G02DAF and G02DGF
G04ADF	17	G04BCF
G04AEF	17	G04BBF
G04AFF	17	G04CAF
G05AAF	7	G05KAF
G05ABF	7	G05LGF
G05ACF	7	G05LJF

G05ADF	7	G05LAF
G05AEF	7	G05LAF
G05AFF	7	G05LKF
G05AGF	7	G05LLF
G05AHF	7	G05LFF
G05AJF	7	G05LFF
G05AKF	7	G05LFF
G05ALF	7	G05LEF
G05AMF	7	G05LEF
G05ANF	7	G05LCF
G05APF	7	G05LBF
G05AQF	7	G05LDF
G05ARF	7	G05MZF
G05ASF	7	G05MJF
G05ATF	7	G05MAF
G05AUF	7	G05MLF
G05AVF	7	G05MKF
G05AWF	7	G05MZF
G05AZF	7	G05MZF
G05BAF	7	G05KBF
G05BBF	7	G05KCF
G05CAF	22	G05KAF
G05CBF	22	G05KBF
G05CCF	22	G05KCF
G05CFF	22	F06DFF
G05CGF	22	F06DFF
G05DAF	22	G05LGF
G05DBF	22	G05LJF
G05DCF	22	G05LNF
G05DDF	22	G05LAF
G05DEF	22	G05LKF
G05DFF	22	G05LLF
G05DGF	16	G05LFF
G05DHF	22	G05LCF
G05DJF	22	G05LBF
G05DKF	22	G05LDF
G05DLF	16	G05LEF
G05DMF	16	G05LEF
G05DPF	22	G05LMF
G05DRF	22	G05MEF
G05DYF	22	G05MAF
G05DZF	22	G05KEF
G05EAF	22	G05LZF
G05EBF	22	G05MAF
G05ECF	22	G05MKF
G05EDF	22	G05MJF
G05EEF	22	G05MCF
G05EFF	22	G05MLF
G05EGF	22	G05PAF
G05EHF	22	G05NAF
G05EJF	22	G05NBF
G05EWF	22	G05PAF
G05EXF	22	G05MZF
G05EYF	22	G05MZF
G05EZF	22	G05LZF
G05FAF	22	G05LGF
G05FBF	22	G05LJF
G05FDF	22	G05LAF
G05FEF	22	G05LEF

G05FFF	22	G05LFF
G05FSF	22	G05LPF
G05GAF	22	G05QAF
G05GBF	22	G05QBF
G05HDF	22	G05PCF
G05YAF	23	G05YCF, G05YDF, G05YEF, G05YFF, G05YGF, G05YHF, G05YJF and G05YKF
G05YBF	23	G05YCF, G05YDF, G05YEF, G05YFF, G05YGF, G05YHF, G05YJF and G05YKF
G05ZAF	22	No replacement document required
G08ABF	16	G08AGF
G08ADF	16	G08AHF, G08AJF and G08AKF
G08CAF	16	G08CBF
G13DAF	17	G13DMF
H01ABF	12	E04MFF/E04MFA
H01ADF	12	E04MFF/E04MFA
H01AEF	9	E04MFF/E04MFA
H01AFF	12	E04MFF/E04MFA
H01BAF	12	E04MFF/E04MFA
H02AAF	12	E04NCF/E04NCA
H02BAF	15	H02BBF
M01AAF	13	M01DAF
M01ABF	13	M01DAF
M01ACF	13	M01DBF
M01ADF	13	M01DBF
M01AEF	13	M01DEF and M01EAF
M01AFF	13	M01DEF and M01EAF
M01AGF	13	M01DFF and M01EBF
M01AHF	13	M01DFF and M01EBF
M01AJF	16	M01DAF, M01ZAF and M01CAF
M01AKF	16	M01DAF, M01ZAF and M01CAF
M01ALF	13	M01DBF, M01ZAF and M01CBF
M01AMF	13	M01DBF, M01ZAF and M01CBF
M01ANF	13	M01CAF
M01APF	16	M01CAF
M01AQF	13	M01CBF
M01ARF	13	M01CBF
M01BAF	13	M01CCF
M01BBF	13	M01CCF
M01BCF	13	M01CCF
M01BDF	13	M01CCF
P01AAF	13	P01ABF
X02AAF	16	X02AJF
X02ABF	16	X02AKF
X02ACF	16	X02ALF
X02ADF	14	X02AJF and X02AKF
X02AEF	14	X02AMF
X02AFF	14	X02AMF
X02AGF	16	X02AMF
X02BAF	14	X02BHF
X02BCF	14	X02AMF
X02BDF	14	X02AMF
X02CAF	17	not needed except with F01BTF and F01BXF