Appendix A.   Files Required by Each Entry

The following tabulation shows for each user-callable procedure name in the MATH77 library the set of program files needed to support the use of that procedure name. A program file contains one or more Fortran program units. A program unit contains the code for one or more procedures (more than one if ENTRY statements are present). Files are listed in lower case, entries in upper case. If an entry uses an entry that is not in a MATH77 file, it is listed with the files, but in upper case.

The term "file" is used here as it is used in most operating systems. For the UNISYS (UNIVAC) system replace the term "file" with "element."

Entry   Necessary files

Entry										
CAXPY	caxpy									
CCOEF	ccoef									
CCOPY	ccopy									
CDOTC	cdotc									
CDOTU	cdotu									
CGAM	amach	cgam	erfin	ermsg	serm1	serv1				
CGECO	caxpy	cdotc	cgeco	cgefa	cscal	csscal	icamax	scasum		
CGED	amach	cged								
CGEFA	caxpy	cgefa	cscal	icamax						
CGEFS	caxpy	cgefa	cgefs	cgesld	cscal	erfin	ermsg	icamax		
CGEFSC	caxpy	cdotc	cgeco	cgefa	cgefsc	cgesld	cscal	csscal	erfin	ermsg icamax
	scasum									
CGEI	caxpy	cgei	cscal	cswap	erfin	ermsg				
CGESLD	caxpy	cgesld	erfin	ermsg						
CGESLT	cdotc	cgeslt	erfin	ermsg						
CPOLZ	amach	cpolz	erfin	ermsg	scomqr					
CSCAL	cscal									
CSORT	csort									
CSORTP	csortp									
CSORTQ	csortp									
CSSCAL	csscal									
CSWAP	cswap									
CWOFZ	amach	cwofz	erfin	ermor	ermsg	serv1				
D1MACH	amach									
DACCUM	amach	daccum	dhtcc	dnrm2	drotg	erfin	ermsg	ierm1	ierv1	
DACOSH	amach	dasinh	derm1	derv1	erfin	ermsg				
DACSCH	amach	dasinh	derm1	derv1	erfin	ermsg				
DACTNH	amach	dasinh	derm1	derv1	erfin	ermsg				
DASECH	amach	dasinh	derm1	derv1	erfin	ermsg				
DASINH	amach	dasinh	derm1	derv1	erfin	ermsg				
DASUM	dasum									
DATANH	amach	dasinh	derm1	derv1	erfin	ermsg				
DAXPY	daxpy									
DBACC	amach	dbacc	dhtcc	dnrm2	erfin	ermsg	ierm1	ierv1		
DBESJ0	amach	dbesj0	dbmp0	dcsevl	derm1	derv1	dinits	erfin	ermsg ierm1 ierv1	
DBESJ1	amach	dbesj1	dbmp1	dcsevl	derm1	derv1	dinits	erfin	ermsg ierm1 ierv1	
DBESJN	amach	dbesjn	dbespq	derm1	derv1	dgamma	erfin	ermsg	ierv1	
DBESY0	amach	dbesj0	dbesy0	dbmp0	dcsevl	derm1	derv1	dinits	erfin	ermsg ierm1
	ierv1									
DBESY1	amach	dbesj1	dbesy1	dbmp1	dcsevl	derm1	derv1	dinits	erfin	ermsg ierm1
	ierv1									
DBESYN	amach	dbespq	dbesyn	derm1	derv1	dgamma	dlgama	erfin	ermor	ermsg ierv1
DBI0K0	amach	dbi0k0	dcsevl	derm1	derv1	dinits	erfin	ermsg	ierm1	ierv1
DBI1K1	amach	dbi1k1	dcsevl	derm1	derv1	dinits	erfin	ermsg	ierm1	ierv1
DBINOM	amach	dbinom	derm1	derv1	dgamma	dlgama	erfin	ermsg	ierm1	ierv1
DBSOL	dbsol	erfin	ermsg	ierm1	ierv1					
DC2FIT	amach	dbacc	dbsol	dc2bas	dc2fit	derm1	derv1	dhtcc	dnrm2	dtrc2c erfin
	ermsg	ierm1	ierv1							

Entry   Necessary files

Entry											
DCDCHI	amach	dcdchi	dcsevl	derf	derm1	derv1	dgam1	dgami	dgamma	dgr17	dgr29
	dinits	drcomp	drexp	drlog	dxparg	erfin	ermsg	ierm1	ierv1		
DCDNML	amach	dcdnml	dcsevl	derf	derm1	derv1	dinits	erfin	ermsg	ierm1	ierv1
DCDPOI	amach	dcdpoi	dcsevl	derf	derm1	derv1	dgam1	dgami	dgamma	dgr17	dgr29
	dinits	drcomp	drexp	drlog	dxparg	erfin	ermsg	ierm1	ierv1		
DCFT	dcft	dfft	erfin	ermsg	ierm1	ierv1					
DCHOL	amach	dchol	ddot								
DCI	dci	dcpval	derm1	derv1	erfin	ermsg					
DCIN	dci	dcpval	derm1	derv1	erfin	ermsg					
DCKDER	amach	dckder	erfin	ermsg	ierm1	ierv1					
DCONCM	dconcm										
DCONMC	dconmc										
DCOPY	dcopy										
DCOS1	dcos1										
DCOSHM	dcoshm										
DCOSPX	amach	dcospx	derm1	derv1	erfin	ermsg					
DCOV2	dcov2	ddot	dswap	erfin	ermsg	ierm1	ierv1				
DCOV3	dcopy	dcov3	ddot	dscal	erfin	ermsg	ierm1	ierv1			
DCPDRV	dcpdrv	erfin	ermsg	ierm1	ierv1						
DCPINT	dcpint	erfin	ermsg	ierm1	ierv1						
DCPLTE	amach	dcplte	derm1	derv1	erfin	ermsg					
DCPLTK	amach	dcpltk	derm1	derv1	erfin	ermsg					
DCPVAL	dcpval										
DCSHMM	dcshmm										
DDASDB	amach	ddasdb	dmess	mess							
DDASLS	amach	dasum	daxpy	dcopy	ddasf	ddasls	ddot	dgbfa	dgbsl	dgefa	dgemv
	dgesl	dscal	dswap	idamax	lsame	mess	xerbla				
DDASLX	amach	daxpy	dcopy	ddas1	ddasco	ddasdb	ddasf	ddasgh	ddasin	ddasj	ddaslv
	ddaslx	ddasnm	ddastp	ddaswt	ddot	dgbfa	dgbsl	dgefa	dgesl	dmess	dnrm2 drot
	drotg	dscal	dswap	idamax	mess						
DDOT	ddot										
DE1	amach	dcsevl	dei	derm1	derv1	dinits	erfin	ermsg	ierm1	ierv1	
DEI	amach	dcsevl	dei	derm1	derv1	dinits	erfin	ermsg	ierm1	ierv1	
DELEFI	amach	delefi	derm1	derv1	dlnrel	erfin	ermsg				
DELPII	amach	delpii	derm1	derv1	drcval	drfval	drjval	erfin	ermsg		
DERF	amach	dcsevl	derf	derm1	derv1	dinits	erfin	ermsg	ierm1	ierv1	
DERFC	amach	dcsevl	derf	derm1	derv1	dinits	erfin	ermsg	ierm1	ierv1	
DERFCE	amach	dcsevl	derf	derm1	derv1	dinits	erfin	ermsg	ierm1	ierv1	
DERFCI	amach	derfi	derm1	derv1	erfin	ermsg					
DERFI	amach	derfi	derm1	derv1	erfin	ermsg					
DERM1	derm1	derv1	erfin	ermsg							
DERV1	derv1	erfin									
DEVUN	amach	devbh	devun	erfin	ermsg						
DEVVUN	amach	devbh	devvun	dnrm2	dscal	erfin	ermsg				
DFFT	dfft										
DFMIN	amach	dfmin	erfin	ermsg	ierm1	ierv1					
DFRENC	amach	dcospx	dcspxx	derm1	derv1	dfrenl	dsinpx	dsnpxx	erfin	ermsg	
DFRENF	amach	dcospx	dcspxx	derm1	derv1	dfrenl	dsinpx	dsnpxx	erfin	ermsg	
DFRENG	amach	dcospx	dcspxx	derm1	derv1	dfrenl	dsinpx	dsnpxx	erfin	ermsg	
DFRENS	amach	dcospx	dcspxx	derm1	derv1	dfrenl	dsinpx	dsnpxx	erfin	ermsg	
DGAM1	amach	derm1	derv1	dgam1	dgamma	erfin	ermsg				
DGAMI	amach	dcsevl	derf	derm1	derv1	dgam1	dgami	dgamma	dgr17	dgr29	dinits
	drcomp	drexp	drlog	dxparg	erfin	ermsg	ierm1	ierv1			
DGAMIE	amach	dcsevl	derf	derm1	derv1	dgam1	dgami	dgamma	dgr17	dgr29	dinits
	drcomp	drexp	drlog	dxparg	erfin	ermsg	ierm1	ierv1			
DGAMIK	amach	dcsevl	derf	derm1	derv1	dgam1	dgami	dgamma	dgr17	dgr29	dinits
	drcomp	drexp	drlog	dxparg	erfin	ermsg	ierm1	ierv1			

Entry	Necessary files								
DGAMMA	amach	derm1	derv1	dgamma	erfin	ermsg			
DGECO	dasum	daxpy	ddot	dgeco	dgefa	dscal	idamax		
DGED	amach	dged							
DGEFA	daxpy	dgefa	dscal	idamax					
DGEFS	daxpy	dgefa	dgefs	dgesld	dscal	erfin	ermsg	idamax	
DGEFSC	dasum	daxpy	ddot	dgeco	dgefa	dgefsc	dgesld	dscal	erfin	ermsg idamax
DGEI	daxpy	dgei	dscal	dswap	erfin	ermsg			
DGESLD	daxpy	dgesld	erfin	ermsg					
DGESLT	ddot	dgeslt	erfin	ermsg					
DHERQL	dherql	dimql	erfin	ermsg	ierm1	ierv1			
DHFTI	amach	daxpy	ddot	dhfti	dhtcc	dhtgen	dnrm2	erfin	ermor	ermsg ierm1
	ierv1								
DHINT	dhint								
DHTCC	amach	dhtcc	dnrm2						
DHTGEN	amach	daxpy	ddot	dhtgen	dnrm2				
DILUP	amach	dilup	dmess	mess					
DILUPM	amach	dilup	dilupm	dmess	mess	optchk			
DILUPM	amach	dilupm	dmess	mess					
DINT1	amach	dint1	dinta	dintdl	dintdu	dintf	dintns	dinto	dintop	dintsm dmess
	mess								
DINTA	amach	dinta	dintdl	dintdu	dintf	dintns	dinto	dintsm	dmess	mess
DINTM	amach	dcopy	dinta	dintdl	dintdu	dintf	dintm	dintma	dintns	dinto dintop
	dintsm	dmess	mess						
DINTMA	amach	dcopy	dinta	dintdl	dintdu	dintf	dintma	dintns	dinto	dintsm dmess
	mess								
DINTOP	amach	dintop	mess						
DIVA	amach	diva	dmess	mess	optchk	DIVAF	DIVAO		
DIVAA	amach	diva	dmess	mess	optchk	DIVAF	DIVAO		
DIVACO	amach	diva	dmess	mess	optchk	DIVAF	DIVAO		
DIVADB	amach	divadb	dmess	mess					
DIVAG	amach	diva	divag	dmess	dzero	mess	optchk		
DIVAIN	amach	diva	dmess	mess	optchk	DIVAF	DIVAO		
DIVAOP	amach	diva	dmess	mess	optchk	DIVAF	DIVAO		
DIVSET	amach	divset							
DJACG	amach	djacg							
DLASUM	dlasum								
DLESUM	dlesum								
DLGAMA	amach	derm1	derv1	dgamma	dlgama	erfin	ermsg		
DLNREL	dlnrel								
DMATP	amach	dmatp							
DMATPR	amach	dmatpr	dmess	mess					
DMESS	amach	dmess	mess						
DMLC01	amach	derv1	dmlc	erfin	ermor	ermsg	ierm1	ierv1	DMLCFG	
DMPDRV	dmpdrv	erfin	ermsg	ierm1	ierv1				
DMPINT	dmpint	erfin	ermsg	ierm1	ierv1				
DMPVAL	dmpval								
DNLAFB	amach	divset	dnlafb	drn2gb	i7copy	DCALCR			
DNLAFU	amach	divset	dnlafu	drn2g	DCALCR				
DNLAGB	amach	divset	dnlagb	drn2gb	i7copy	DCALCR	DCALCJ		
DNLAGU	amach	divset	dnlagu	drn2g	DCALCR	DCALCJ			
DNLSFB	amach	divset	dnlsfb	dq7rfh	drn2gb	drnsgb	i7copy	idsm	DCALCA	
DNLSFU	amach	divset	dnlsfu	dq7rfh	drn2g	drnsg	idsm		
DNLSGB	amach	divset	dnlsgb	dq7rfh	drn2gb	drnsgb	i7copy		
DNLSGU	amach	divset	dnlsgu	dq7rfh	drn2g	drnsg	DCALCA		
DNQSOL	amach	derv1	dnqsol	dnrm2	erfin	ermsg	ierm1	ierv1	DNQFJ	
DNRM2	amach	dnrm2							
DPASCL	dwcomp	erfin	ermsg	ierm1	ierv1				

Entry   Necessary files

Entry										
DPFIT	amach	derm1	derv1	dpfit	drotm	drotmg	erfin	ermsg	ierm1	ierv1
DPLOT	amach	dmess	dplot	mess						
DPOLZ	amach	dpolz	erfin	ermsg						
DPOLZ2	amach	dpolz2	erfin	ermsg						
DPPNML	amach	derfi	derm1	derv1	dppnml	erfin	ermsg			
DPQUAD	derv1	dpquad	dsfind	erfin	ermsg	ierm1	ierv1			
DPRPL	dprpl									
DPRPL1	dprpl1	dprpl3	erfin	ermsg	ierm1	ierv1				
DPRPL2	dprpl2	dprpl3	erfin	ermsg	ierm1	ierv1				
DPSI	amach	dcsevl	derm1	derv1	dinits	dpsi	erfin	ermor	ermsg	ierm1	ierv1
DPSIE	amach	dcsevl	derm1	derv1	dinits	dpsi	erfin	ermor	ermsg	ierm1	ierv1
DPSIK	amach	dcsevl	derm1	derv1	dinits	dpsi	erfin	ermor	ermsg	ierm1	ierv1
DPVAL	derv1	dpval	dsfind	erfin	ermsg	ierm1	ierv1			
DRANE	drane	erfin	ermsg	ranpk1	ranpk2					
DRANG	drang	erfin	ermsg	ranpk1	ranpk2					
DRANGV	drang	drangv	erfin	ermsg	ranpk1	ranpk2				
DRANR	dranr	erfin	ermsg	ranpk1	ranpk2					
DRANU	dranu	erfin	ermsg	ranpk1	ranpk2					
DRANUA	erfin	ermsg	ranpk2							
DRANUS	erfin	ermsg	ranpk2							
DRCVAL	amach	derm1	derv1	drcval	erfin	ermsg				
DRDVAL	amach	derm1	derv1	drdval	erfin	ermsg				
DREXP	amach	drexp								
DRFT	dfft	drft	erfin	ermsg	ierm1	ierv1				
DRFT1	dfft	drft1	erfin	ermsg	ierm1	ierv1				
DRFVAL	amach	derm1	derv1	drfval	erfin	ermsg				
DRJVAL	amach	derm1	derv1	drcval	drfval	drjval	erfin	ermsg		
DRLOG	amach	drlog								
DRLOG1	amach	drlog								
DROT	drot									
DROTG	drotg									
DROTM	drotm									
DROTMG	drotmg									
DSBASD	dsbasd	erfin	ermsg	ierm1	ierv1					
DSBASI	derv1	dsbasd	dsbasi	dsfind	erfin	ermsg	ierm1	ierv1		
DSCAL	dscal									
DSDIF	dsdif									
DSDOT	dsdot									
DSFIND	derv1	dsfind	erfin	ermsg	ierm1	ierv1				
DSFIT	amach	dbacc	dbsol	derv1	dhtcc	dnrm2	dsbasd	dsfit	erfin	ermsg	ierm1
	ierv1									
DSFITC	amach	daxpy	dblse	dcopy	ddot	derv1	dhtcc	dnrm2	dranu	drotg	dsbasd
	dsbasi	dsfind	dsfitc	dswap	erfin	ermor	ermsg	ierm1	ierv1	ranpk1	ranpk2
DSI	dcpval	dsi								
DSIN1	amach	dsin1								
DSINHM	amach	dsinhm								
DSINPX	amach	derm1	derv1	dsinpx	erfin	ermsg				
DSORT	dsort									
DSORTP	dsortp									
DSORTQ	dsortp									
DSPGE	amach	dmess	dspge	mess						
DSQUAD	derv1	dsfind	dsquad	dsval	erfin	ermsg	ierm1	ierv1		
DSTAT1	dstat1									
DSTAT2	dprpl	dstat2								
DSTOP	derv1	dsdif	dsfind	dstop	dsvala	erfin	ermsg	ierm1	ierv1	
DSVA	amach	daxpy	dcopy	ddot	dhtcc	dhtgen	dnrm2	dprtsv	dqrbd	drot	drotg
	dsva	dsvdrs	dswap	erfin	ermor	ermsg	ierv1			

Entry   Necessary files

Entry	Necessary files									
DSVAL	derv1	dsfind	dsval	erfin	ermsg	ierm1	ierv1			
DSVALA	derv1	dsfind	dsvala	erfin	ermsg	ierm1	ierv1			
DSVDRS	amach	daxpy	dcopy	ddot	dhtcc	dhtgen	dnrm2	dqrbd	drot	drotg	dsvdrs
	dswap	erfin	ermor	ermsg	ierv1					
DSWAP	dswap									
DSYMQL	dimql	dsymql	erfin	ermsg	ierm1	ierv1				
DTCST	dfft	dtcst	erfin	ermsg	ierm1	ierv1				
DTGFI	dtgc0	dtgc1	dtgext	dtgfi	dtgfnd	dtgset	erfin	ermsg	ierm1	ierv1
DTGGRD	dsortp	dtggrd	dtgset							
DTGPD	drot	drotg	dtgpd	dtgset						
DTGPRG	dtgprg	dtgset								
DTGREC	dtgc0	dtgc1	dtgext	dtgfi	dtgfnd	dtgrec	dtgset	erfin	ermsg	ierm1	ierv1
DUACOS	ducomp	erfin	ermsg	ierm1	ierv1					
DUASIN	ducomp	erfin	ermsg	ierm1	ierv1					
DUATAN	ducomp	erfin	ermsg	ierm1	ierv1					
DUATN2	ducomp	erfin	ermsg	ierm1	ierv1					
DUCOS	ducomp	erfin	ermsg	ierm1	ierv1					
DUCOSH	ducomp	erfin	ermsg	ierm1	ierv1					
DUDIF	ducomp	erfin	ermsg	ierm1	ierv1					
DUDIF1	ducomp	erfin	ermsg	ierm1	ierv1					
DUEXP	ducomp	erfin	ermsg	ierm1	ierv1					
DUGETN	ducomp	erfin	ermsg	ierm1	ierv1					
DULOG	ducomp	erfin	ermsg	ierm1	ierv1					
DUPRO	ducomp	erfin	ermsg	ierm1	ierv1					
DUPRO1	ducomp	erfin	ermsg	ierm1	ierv1					
DUPWRI	ducomp	erfin	ermsg	ierm1	ierv1					
DUQUO	ducomp	erfin	ermsg	ierm1	ierv1					
DUQUO1	ducomp	erfin	ermsg	ierm1	ierv1					
DUREV	dasum	daxpy	ddot	dgeco	dgefa	dgei	dscal	dswap	durev	erfin	ermsg
	idamax									
DUSET	ducomp	erfin	ermsg	ierm1	ierv1					
DUSETN	ducomp	erfin	ermsg	ierm1	ierv1					
DUSIN	ducomp	erfin	ermsg	ierm1	ierv1					
DUSINH	ducomp	erfin	ermsg	ierm1	ierv1					
DUSQRT	ducomp	erfin	ermsg	ierm1	ierv1					
DUSUM	ducomp	erfin	ermsg	ierm1	ierv1					
DUSUM1	ducomp	erfin	ermsg	ierm1	ierv1					
DUTAN	ducomp	erfin	ermsg	ierm1	ierv1					
DUTANH	ducomp	erfin	ermsg	ierm1	ierv1					
DVECP	amach	dvecp								
DVECPR	amach	dmess	dvecpr	mess						
DWACOS	dwcomp	erfin	ermsg	ierm1	ierv1					
DWASIN	dwcomp	erfin	ermsg	ierm1	ierv1					
DWATAN	dwcomp	erfin	ermsg	ierm1	ierv1					
DWATN2	dwcomp	erfin	ermsg	ierm1	ierv1					
DWCHN	dwcomp	erfin	ermsg	ierm1	ierv1					
DWCOS	dwcomp	erfin	ermsg	ierm1	ierv1					
DWCOSH	dwcomp	erfin	ermsg	ierm1	ierv1					
DWDIF	dwcomp	erfin	ermsg	ierm1	ierv1					
DWDIF1	dwcomp	erfin	ermsg	ierm1	ierv1					
DWEXP	dwcomp	erfin	ermsg	ierm1	ierv1					
DWLOG	dwcomp	erfin	ermsg	ierm1	ierv1					
DWPRO	dwcomp	erfin	ermsg	ierm1	ierv1					
DWPRO1	dwcomp	erfin	ermsg	ierm1	ierv1					
DWPWRI	dwcomp	erfin	ermsg	ierm1	ierv1					
DWQUO	dwcomp	erfin	ermsg	ierm1	ierv1					
DWQUO1	dwcomp	erfin	ermsg	ierm1	ierv1					

Entry	Necessary files							
DWRCHN	dwcomp	erfin	ermsg	ierm1	ierv1			
DWSET	dwcomp	erfin	ermsg	ierm1	ierv1			
DWSIN	dwcomp	erfin	ermsg	ierm1	ierv1			
DWSINH	dwcomp	erfin	ermsg	ierm1	ierv1			
DWSQRT	dwcomp	erfin	ermsg	ierm1	ierv1			
DWSUM	dwcomp	erfin	ermsg	ierm1	ierv1			
DWSUM1	dwcomp	erfin	ermsg	ierm1	ierv1			
DWTAN	dwcomp	erfin	ermsg	ierm1	ierv1			
DWTANH	dwcomp	erfin	ermsg	ierm1	ierv1			
DXRK8	amach	dmess	dxrk8	dxrk8f	dxrk8o	mess		
DXRK8A	amach	dmess	dxrk8	dxrk8f	dxrk8o	mess		
DXRK8G	amach	dmess	dxrk8	dxrk8f	dxrk8g	dxrk8o	dzero	mess
DZABS	dzabs							
DZERO	amach	dmess	dzero	mess				
ERFIN	erfin							
ERMOR	erfin	ermor						
ERMSET	erfin	ermsg						
ERMSG	erfin	ermsg						
EXSORT	exsort	insrtx	pvec	DATAOP	COMPAR			
GSORTP	gsortp	COMPAR						
I1MACH	amach							
ICAMAX	icamax							
IDAMAX	idamax							
IDRANP	amach	derm1	derv1	erfin	ermsg	idranp	ranpk1	ranpk2
IDSTA1	idsta1							
IDSTA2	dprpl	idsta2						
IERM1	erfin	ermsg	ierm1	ierv1				
IERV1	erfin	ierv1						
IMATP	imatp							
IMATPR	imatpr	mess						
INSORT	insort	COMPAR						
ISAMAX	isamax							
ISORT	isort							
ISORTP	isortp							
ISORTQ	isortp							
ISRANP	amach	erfin	ermsg	isranp	ranpk1	ranpk2	serm1	serv1
ISSTA1	issta1							
ISSTA2	issta2	sprpl						
IVECP	ivecp							
IVECPR	ivecpr	mess						
MESS	mess							
PVEC	pvec							
R1MACH	amach							
RAN1	erfin	ermsg	ranpk1	ranpk2				
RANGET	erfin	ermsg	ranpk2					
RANPUT	erfin	ermsg	ranpk1	ranpk2				
RANSIZ	erfin	ermsg	ranpk2					
RN2	erfin	ermsg	ranpk2					
SACCUM	amach	erfin	ermsg	ierm1	ierv1	saccum	shtcc	snrm2 srotg
SACOSH	amach	erfin	ermsg	sasinh	serm1	serv1		
SACSCH	amach	erfin	ermsg	sasinh	serm1	serv1		
SACTNH	amach	erfin	ermsg	sasinh	serm1	serv1		
SASECH	amach	erfin	ermsg	sasinh	serm1	serv1		
SASINH	amach	erfin	ermsg	sasinh	serm1	serv1		
SASUM	sasum							
SATANH	amach	erfin	ermsg	sasinh	serm1	serv1		
SAXPY	saxpy							

Entry — Necessary files

Entry										
SBACC	amach	erfin	ermsg	ierm1	ierv1	sbacc	shtcc	snrm2		
SBESJ0	amach	erfin	ermsg	ierm1	ierv1	sbesj0	sbmp0	scsevl	serm1	serv1	sinits
SBESJ1	amach	erfin	ermsg	ierm1	ierv1	sbesj1	sbmp1	scsevl	serm1	serv1	sinits
SBESJN	amach	erfin	ermsg	ierv1	sbesjn	sbespq	serm1	serv1	sgamma	
SBESY0	amach	erfin	ermsg	ierm1	ierv1	sbesj0	sbesy0	sbmp0	scsevl	serm1	serv1
	sinits									
SBESY1	amach	erfin	ermsg	ierm1	ierv1	sbesj1	sbesy1	sbmp1	scsevl	serm1	serv1
	sinits									
SBESYN	amach	erfin	ermor	ermsg	ierv1	sbespq	sbesyn	serm1	serv1	sgamma	slgama
SBI0K0	amach	erfin	ermsg	ierm1	ierv1	sbi0k0	scsevl	serm1	serv1	sinits
SBI1K1	amach	erfin	ermsg	ierm1	ierv1	sbi1k1	scsevl	serm1	serv1	sinits
SBINOM	amach	erfin	ermsg	ierm1	ierv1	sbinom	serm1	serv1	sgamma	slgama
SBSOL	erfin	ermsg	ierm1	ierv1	sbsol				
SC2FIT	amach	erfin	ermsg	ierm1	ierv1	sbacc	sbsol	sc2bas	sc2fit	serm1	serv1
	shtcc	snrm2	strc2c							
SCASUM	scasum									
SCDCHI	amach	erfin	ermsg	ierm1	ierv1	scdchi	scsevl	serf	serm1	serv1	sgam1
	sgami	sgamma	sgr17	sgr29	sinits	srcomp	srexp	srlog	sxparg	
SCDNML	amach	erfin	ermsg	ierm1	ierv1	scdnml	scsevl	serf	serm1	serv1	sinits
SCDPOI	amach	erfin	ermsg	ierm1	ierv1	scdpoi	scsevl	serf	serm1	serv1	sgam1
	sgami	sgamma	sgr17	sgr29	sinits	srcomp	srexp	srlog	sxparg	
SCFT	erfin	ermsg	ierm1	ierv1	scft	sfft				
SCHOL	amach	schol	sdot							
SCI	erfin	ermsg	sci	scpval	serm1	serv1				
SCIN	erfin	ermsg	sci	scpval	serm1	serv1				
SCKDER	amach	erfin	ermsg	ierm1	ierv1	sckder				
SCNRM2	amach	scnrm2								
SCONCM	sconcm									
SCONMC	sconmc									
SCOPY	scopy									
SCOS1	scos1									
SCOSHM	scoshm									
SCOSPX	amach	erfin	ermsg	scospx	serm1	serv1				
SCOV2	erfin	ermsg	ierm1	ierv1	scov2	sdot	sswap			
SCOV3	erfin	ermsg	ierm1	ierv1	scopy	scov3	sdot	sscal		
SCPDRV	erfin	ermsg	ierm1	ierv1	scpdrv					
SCPINT	erfin	ermsg	ierm1	ierv1	scpint					
SCPLTE	amach	erfin	ermsg	scplte	serm1	serv1				
SCPLTK	amach	erfin	ermsg	scpltk	serm1	serv1				
SCPVAL	scpval									
SCSHMM	scshmm									
SDASDB	amach	mess	sdasdb	smess						
SDASLS	amach	isamax	lsame	mess	sasum	saxpy	scopy	sdasf	sdasls	sdot	sgbfa
	sgbsl	sgefa	sgemv	sgesl	sscal	sswap	xerbla			
SDASLX	amach	isamax	mess	saxpy	scopy	sdas1	sdasco	sdasdb	sdasf	sdasgh	sdasin
	sdasj	sdaslv	sdaslx	sdasnm	sdastp	sdaswt	sdot	sgbfa	sgbsl	sgefa	sgesl	smess
	snrm2	srot	srotg	sscal	sswap					
SDOT	sdot									
SDSDOT	sdsdot									
SE1	amach	erfin	ermsg	ierm1	ierv1	scsevl	sei	serm1	serv1	sinits
SEI	amach	erfin	ermsg	ierm1	ierv1	scsevl	sei	serm1	serv1	sinits
SELEFI	amach	erfin	ermsg	selefi	serm1	serv1	slnrel			
SELPII	amach	erfin	ermsg	selpii	serm1	serv1	srcval	srfval	srjval	
SERF	amach	erfin	ermsg	ierm1	ierv1	scsevl	serf	serm1	serv1	sinits
SERFC	amach	erfin	ermsg	ierm1	ierv1	scsevl	serf	serm1	serv1	sinits
SERFCE	amach	erfin	ermsg	ierm1	ierv1	scsevl	serf	serm1	serv1	sinits
SERFCI	amach	erfin	ermsg	serfi	serm1	serv1				

Entry	Necessary files									
SERFI	amach	erfin	ermsg	serfi	serm1	serv1				
SERM1	erfin	ermsg	serm1	serv1						
SERV1	erfin	serv1								
SEVUN	amach	erfin	ermsg	sevbh	sevun					
SEVVUN	amach	erfin	ermsg	sevbh	sevvun	snrm2	sscal			
SFFT	sfft									
SFMIN	amach	erfin	ermsg	ierm1	ierv1	sfmin				
SFRENC	amach	erfin	ermsg	scospx	scspxx	serm1	serv1	sfrenl	ssinpx	ssnpxx
SFRENF	amach	erfin	ermsg	scospx	scspxx	serm1	serv1	sfrenl	ssinpx	ssnpxx
SFRENG	amach	erfin	ermsg	scospx	scspxx	serm1	serv1	sfrenl	ssinpx	ssnpxx
SFRENS	amach	erfin	ermsg	scospx	scspxx	serm1	serv1	sfrenl	ssinpx	ssnpxx
SGAM1	amach	erfin	ermsg	serm1	serv1	sgam1	sgamma			
SGAMI	amach	erfin	ermsg	ierm1	ierv1	scsevl	serf	serm1	serv1	sgam1 sgami
	sgamma	sgr17	sgr29	sinits	srcomp	srexp	srlog	sxparg		
SGAMIE	amach	erfin	ermsg	ierm1	ierv1	scsevl	serf	serm1	serv1	sgam1 sgami
	sgamma	sgr17	sgr29	sinits	srcomp	srexp	srlog	sxparg		
SGAMIK	amach	erfin	ermsg	ierm1	ierv1	scsevl	serf	serm1	serv1	sgam1 sgami
	sgamma	sgr17	sgr29	sinits	srcomp	srexp	srlog	sxparg		
SGAMMA	amach	erfin	ermsg	serm1	serv1	sgamma				
SGECO	isamax	sasum	saxpy	sdot	sgeco	sgefa	sscal			
SGED	amach	sged								
SGEFA	isamax	saxpy	sgefa	sscal						
SGEFS	erfin	ermsg	isamax	saxpy	sgefa	sgefs	sgesld	sscal		
SGEFSC	erfin	ermsg	isamax	sasum	saxpy	sdot	sgeco	sgefa	sgefsc	sgesld sscal
SGEI	erfin	ermsg	saxpy	sgei	sscal	sswap				
SGESLD	erfin	ermsg	saxpy	sgesld						
SGESLT	erfin	ermsg	sdot	sgeslt						
SHERQL	erfin	ermsg	ierm1	ierv1	sherql	simql				
SHFTI	amach	erfin	ermor	ermsg	ierm1	ierv1	saxpy	sdot	shfti	shtcc shtgen
	snrm2									
SHINT	shint									
SHTCC	amach	shtcc	snrm2							
SHTGEN	amach	saxpy	sdot	shtgen	snrm2					
SILUP	amach	mess	silup	smess						
SILUPM	amach	mess	optchk	silup	silupm	smess				
SILUPM	amach	mess	silupm	smess						
SINT1	amach	mess	sint1	sinta	sintdl	sintdu	sintf	sintns	sinto	sintop sintsm
	smess									
SINTA	amach	mess	sinta	sintdl	sintdu	sintf	sintns	sinto	sintsm smess	
SINTM	amach	mess	scopy	sinta	sintdl	sintdu	sintf	sintm	sintma sintns	sinto
	sintop	sintsm	smess							
SINTMA	amach	mess	scopy	sinta	sintdl	sintdu	sintf	sintma sintns	sinto	sintsm
	smess									
SINTOP	amach	mess	sintop							
SIVA	amach	mess	optchk	siva	smess	SIVAF	SIVAO			
SIVAA	amach	mess	optchk	siva	smess	SIVAF	SIVAO			
SIVACO	amach	mess	optchk	siva	smess	SIVAF	SIVAO			
SIVADB	amach	mess	sivadb	smess						
SIVAG	amach	mess	optchk	siva	sivag	smess	szero			
SIVAIN	amach	mess	optchk	siva	smess	SIVAF	SIVAO			
SIVAOP	amach	mess	optchk	siva	smess	SIVAF	SIVAO			
SIVSET	amach	sivset								
SJACG	amach	sjacg								
SLASUM	slasum									
SLESUM	slesum									
SLGAMA	amach	erfin	ermsg	serm1	serv1	sgamma	slgama			
SLNREL	slnrel									

Entry	Necessary files									
SMATP	amach	smatp								
SMATPR	amach	mess	smatpr	smess						
SMESS	amach	mess	smess							
SMLC01	amach	erfin	ermor	ermsg	ierm1	ierv1	serv1	smlc	SMLCFG	
SMPDRV	erfin	ermsg	ierm1	ierv1	smpdrv					
SMPINT	erfin	ermsg	ierm1	ierv1	smpint					
SMPVAL	smpval									
SNLAFB	amach	i7copy	sivset	snlafb	srn2gb	SCALCR				
SNLAFU	amach	sivset	snlafu	srn2g	SCALCR					
SNLAGB	amach	i7copy	sivset	snlagb	srn2gb	SCALCR	SCALCJ			
SNLAGU	amach	sivset	snlagu	srn2g	SCALCR	SCALCJ				
SNLSFB	amach	i7copy	idsm	sivset	snlsfb	sq7rfh	srn2gb	srnsgb	SCALCA	
SNLSFU	amach	idsm	sivset	snlsfu	sq7rfh	srn2g	srnsg			
SNLSGB	amach	i7copy	sivset	snlsgb	sq7rfh	srn2gb	srnsgb			
SNLSGU	amach	sivset	snlsgu	sq7rfh	srn2g	srnsg	SCALCA			
SNQSOL	amach	erfin	ermsg	ierm1	ierv1	serv1	snqsol	snrm2	SNQFJ	
SNRM2	amach	snrm2								
SPASCL	erfin	ermsg	ierm1	ierv1	swcomp					
SPFIT	amach	erfin	ermsg	ierm1	ierv1	serm1	serv1	spfit	srotm	srotmg
SPLOT	amach	mess	smess	splot						
SPOLZ	amach	erfin	ermsg	spolz						
SPOLZ2	amach	erfin	ermsg	spolz2						
SPPNML	amach	erfin	ermsg	serfi	serm1	serv1	sppnml			
SPQUAD	erfin	ermsg	ierm1	ierv1	serv1	spquad	ssfind			
SPRPL	sprpl									
SPRPL1	erfin	ermsg	ierm1	ierv1	sprpl1	sprpl3				
SPRPL2	erfin	ermsg	ierm1	ierv1	sprpl2	sprpl3				
SPSI	amach	erfin	ermor	ermsg	ierm1	ierv1	scsevl	serm1	serv1	sinits	spsi
SPSIE	amach	erfin	ermor	ermsg	ierm1	ierv1	scsevl	serm1	serv1	sinits	spsi
SPSIK	amach	erfin	ermor	ermsg	ierm1	ierv1	scsevl	serm1	serv1	sinits	spsi
SPVAL	erfin	ermsg	ierm1	ierv1	serv1	spval	ssfind			
SRANE	erfin	ermsg	ranpk1	ranpk2	srane					
SRANG	erfin	ermsg	ranpk1	ranpk2	srang					
SRANGV	erfin	ermsg	ranpk1	ranpk2	srang	srangv				
SRANR	erfin	ermsg	ranpk1	ranpk2	sranr					
SRANU	erfin	ermsg	ranpk1	ranpk2	sranu					
SRANUA	erfin	ermsg	ranpk2							
SRANUS	erfin	ermsg	ranpk2							
SRCVAL	amach	erfin	ermsg	serm1	serv1	srcval				
SRDVAL	amach	erfin	ermsg	serm1	serv1	srdval				
SREXP	amach	srexp								
SRFT	erfin	ermsg	ierm1	ierv1	sfft	srft				
SRFT1	erfin	ermsg	ierm1	ierv1	sfft	srft1				
SRFVAL	amach	erfin	ermsg	serm1	serv1	srfval				
SRJVAL	amach	erfin	ermsg	serm1	serv1	srcval	srfval	srjval		
SRLOG	amach	srlog								
SRLOG1	amach	srlog								
SROT	srot									
SROTG	srotg									
SROTM	srotm									
SROTMG	srotmg									
SSBASD	erfin	ermsg	ierm1	ierv1	ssbasd					
SSBASI	erfin	ermsg	ierm1	ierv1	serv1	ssbasd	ssbasi	ssfind		
SSCAL	sscal									
SSDIF	ssdif									
SSFIND	erfin	ermsg	ierm1	ierv1	serv1	ssfind				
SSFIT	amach	erfin	ermsg	ierm1	ierv1	sbacc	sbsol	serv1	shtcc	snrm2	ssbasd

Entry	Necessary files
	ssfit
SSFITC	amach erfin ermor ermsg ierm1 ierv1 ranpk1 ranpk2 saxpy sblse scopy sdot serv1 shtcc snrm2 sranu srotg ssbasd ssbasi ssfind ssfitc sswap
SSI	scpval ssi
SSIN1	amach ssin1
SSINHM	amach ssinhm
SSINPX	amach erfin ermsg serm1 serv1 ssinpx
SSORT	ssort
SSORTP	ssortp
SSORTQ	ssortp
SSPGE	amach mess smess sspge
SSQUAD	erfin ermsg ierm1 ierv1 serv1 ssfind ssquad ssval
SSTAT1	sstat1
SSTAT2	sprpl sstat2
SSTOP	erfin ermsg ierm1 ierv1 serv1 ssdif ssfind sstop ssvala
SSVA	amach erfin ermor ermsg ierv1 saxpy scopy sdot shtcc shtgen snrm2 sprtsv sqrbd srot srotg ssva ssvdrs sswap
SSVAL	erfin ermsg ierm1 ierv1 serv1 ssfind ssval
SSVALA	erfin ermsg ierm1 ierv1 serv1 ssfind ssvala
SSVDRS	amach erfin ermor ermsg ierv1 saxpy scopy sdot shtcc shtgen snrm2 sqrbd srot srotg ssvdrs sswap
SSWAP	sswap
SSYMQL	erfin ermsg ierm1 ierv1 simql ssymql
STCST	erfin ermsg ierm1 ierv1 sfft stcst
STGFI	erfin ermsg ierm1 ierv1 stgc0 stgc1 stgext stgfi stgfnd stgset
STGGRD	ssortp stggrd stgset
STGPD	srot srotg stgpd stgset
STGPRG	stgprg stgset
STGREC	erfin ermsg ierm1 ierv1 stgc0 stgc1 stgext stgfi stgfnd stgrec stgset
SUACOS	erfin ermsg ierm1 ierv1 sucomp
SUASIN	erfin ermsg ierm1 ierv1 sucomp
SUATAN	erfin ermsg ierm1 ierv1 sucomp
SUATN2	erfin ermsg ierm1 ierv1 sucomp
SUCOS	erfin ermsg ierm1 ierv1 sucomp
SUCOSH	erfin ermsg ierm1 ierv1 sucomp
SUDIF	erfin ermsg ierm1 ierv1 sucomp
SUDIF1	erfin ermsg ierm1 ierv1 sucomp
SUEXP	erfin ermsg ierm1 ierv1 sucomp
SUGETN	erfin ermsg ierm1 ierv1 sucomp
SULOG	erfin ermsg ierm1 ierv1 sucomp
SUPRO	erfin ermsg ierm1 ierv1 sucomp
SUPRO1	erfin ermsg ierm1 ierv1 sucomp
SUPWRI	erfin ermsg ierm1 ierv1 sucomp
SUQUO	erfin ermsg ierm1 ierv1 sucomp
SUQUO1	erfin ermsg ierm1 ierv1 sucomp
SUREV	erfin ermsg isamax sasum saxpy sdot sgeco sgefa sgei sscal sswap surev
SUSET	erfin ermsg ierm1 ierv1 sucomp
SUSETN	erfin ermsg ierm1 ierv1 sucomp
SUSIN	erfin ermsg ierm1 ierv1 sucomp
SUSINH	erfin ermsg ierm1 ierv1 sucomp
SUSQRT	erfin ermsg ierm1 ierv1 sucomp
SUSUM	erfin ermsg ierm1 ierv1 sucomp
SUSUM1	erfin ermsg ierm1 ierv1 sucomp
SUTAN	erfin ermsg ierm1 ierv1 sucomp
SUTANH	erfin ermsg ierm1 ierv1 sucomp
SVECP	amach svecp

Entry	Necessary files						
SVECPR	amach	mess	smess	svecpr			
SWACOS	erfin	ermsg	ierm1	ierv1	swcomp		
SWASIN	erfin	ermsg	ierm1	ierv1	swcomp		
SWATAN	erfin	ermsg	ierm1	ierv1	swcomp		
SWATN2	erfin	ermsg	ierm1	ierv1	swcomp		
SWCHN	erfin	ermsg	ierm1	ierv1	swcomp		
SWCOS	erfin	ermsg	ierm1	ierv1	swcomp		
SWCOSH	erfin	ermsg	ierm1	ierv1	swcomp		
SWDIF	erfin	ermsg	ierm1	ierv1	swcomp		
SWDIF1	erfin	ermsg	ierm1	ierv1	swcomp		
SWEXP	erfin	ermsg	ierm1	ierv1	swcomp		
SWLOG	erfin	ermsg	ierm1	ierv1	swcomp		
SWPRO	erfin	ermsg	ierm1	ierv1	swcomp		
SWPRO1	erfin	ermsg	ierm1	ierv1	swcomp		
SWPWRI	erfin	ermsg	ierm1	ierv1	swcomp		
SWQUO	erfin	ermsg	ierm1	ierv1	swcomp		
SWQUO1	erfin	ermsg	ierm1	ierv1	swcomp		
SWRCHN	erfin	ermsg	ierm1	ierv1	swcomp		
SWSET	erfin	ermsg	ierm1	ierv1	swcomp		
SWSIN	erfin	ermsg	ierm1	ierv1	swcomp		
SWSINH	erfin	ermsg	ierm1	ierv1	swcomp		
SWSQRT	erfin	ermsg	ierm1	ierv1	swcomp		
SWSUM	erfin	ermsg	ierm1	ierv1	swcomp		
SWSUM1	erfin	ermsg	ierm1	ierv1	swcomp		
SWTAN	erfin	ermsg	ierm1	ierv1	swcomp		
SWTANH	erfin	ermsg	ierm1	ierv1	swcomp		
SXRK8	amach	mess	smess	sxrk8	sxrk8f	sxrk8o	
SXRK8A	amach	mess	smess	sxrk8	sxrk8f	sxrk8o	
SXRK8G	amach	mess	smess	sxrk8	sxrk8f	sxrk8g	sxrk8o szero
SZERO	amach	mess	smess	szero			
ZCOEF	zcoef						
ZDIF	zdif						
ZGAM	amach	derm1	derv1	erfin	ermsg	zgam	
ZPOLZ	amach	dcomqr	dzabs	erfin	ermsg	zpolz	zquo zsqrtx
ZPRO	zpro						
ZQUO	zquo						
ZSQRTX	zsqrtx						
ZSUM	zsum						
ZWOFZ	amach	derv1	erfin	ermor	ermsg	zwofz	