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1.0 Require Files For Each Compiler Module

This is a list of all of the BLISS modules in the FORTRAN compiler along with a list of files REQUIRED by each module (if any). All files required by a module must be available on DSK: when recompiling that module.

Note that the require file FIRST requires IOFLG, so that every mention of FIRST implies IOFLG also.

Module	Require file
-----	-----
ACT0	ASHELP LEXNAM META72 FIRST TABLES
ACT1	ASHELP LEXNAM META72 FIRST TABLES
ALCBLO	FIRST TABLES
ARRXPB	FIRST

	TABLES
ASHELP	
BLIO	
BUILD	
CANNON	
	FIRST TABLES OPTMAC
CGDO	
	FIRST TABLES
CGEXPR	
	FIRST TABLES
CGSTMN	
	FIRST TABLES
CMPBLO	
	FIRST TABLES
CMPLX	
	FIRST TABLES
CODETA	
	LEXNAM LEXAID IOFLG META72
COMSUB	
	FIRST TABLES OPTMAC
DATAST	
	FIRST TABLES
DEBUG	
	FIRST TABLES REQREL
DEFLT	
DEFPT	
	FIRST TABLES OPTMAC
DOALC	
	FIRST TABLES REQREL
DOXPN	
	FIRST TABLES
DRIVER	
	DBUGIT FIRST

	FTTENX TABLES
ERROR0 ERROUT ERROVA ERROVB ERROVC ERROVD ERROVG ERROVR EXPRES	
	LEXNAM ASHELP FIRST TABLES
F72BNF FAZ1	
	LEXNAM F72BNF LOOK72 FIRST
FIRST	
	IOFLG
FMTLEX FORMAT	
	FMTLEX FRMBNF LOOKFM FIRST
FRMBNF GCMNSB	
	FIRST TABLES OPTMAC
GLOBAL	
	FIRST REQREL TABLES
GNRCFN	
	FIRST TABLES
GOPT2	
	FIRST TABLES
GOPTIM	
	FIRST TABLES OPTMAC
GRAPH	
	FIRST TABLES OPTMAC
INOUT	
	DEBUGIT

	LEXAID IOFLG
INPT	
	FIRST TABLES
IOFLG IOPT	
	FIRST TABLES OPTMAC
LEFT72	
	LEXNAM F72BNF
LEFTFM	
	FMTLEX FRMBNF
LEXAID	
LEXCLA	FTTENX
	DEBUGIT IOFLG LEXNAM LEXAID
LEXICA	
	DEBUGIT IOFLG LEXNAM LEXAID
LEXNAM LEXSUP	
	DEBUGIT LEXNAM FIRST TABLES
LISTNG	
	LEXAID IOFLG
LISTOU	
	FIRST TABLES REQREL
LOOK72 LOOKFM MAIN	
	FT1SEG FTTENX IOFLG
MEMCMP	
	FIRST TABLES
META72 META7M MOVA	
	FIRST

	TABLES OPTMAC
NUMIO1 OPTAB OPTMAC OUTMOD	
	FIRST TABLES REQREL
OUTZ P2S1	
	FIRST TABLES OPTMAC
P2S2	
	FIRST TABLES
P3R	
	FIRST TABLES
PEEPOP	
	FIRST TABLES
PH2S	
	FIRST TABLES
PH3G	
	FIRST TABLES OPTMAC
PHA2	
	FIRST TABLES OPTMAC
PHA3	
	FIRST TABLES
PNROPT	
	FIRST TABLES OPTMAC
REGAL2	
	FIRST TABLES
REGUTL	
	FIRST TABLES
RELBUF	
	FIRST TABLES REQREL
REQREL SCAN0 SCNR	

SKSTMN	FIRST TABLES
SRCA	FIRST FTTENX TABLES
STA0	LEXNAM FIRST TABLES META72 ASHELP
STA1	LEXNAM FIRST TABLES META72 ASHELP
STA2	FTTENX LEXNAM FIRST TABLES META72 ASHELP
STA3	LEXNAM FIRST TABLES META72 ASHELP
STREGA	FIRST TABLES
TABLES TBL TRACE1 TSTR	FIRST TABLES OPTMAC
UNEND	FIRST FTTENX
UTIL	FIRST TABLES
VER5	FIRST TABLES OPTMAC
VLTPPR	FIRST

TABLES

2.0 Require Files And Which Compiler Modules Use Them

This is a list of the files REQUIRED by BLISS modules in the FORTRAN compiler and which compiler modules require them.

Require file	Module
-----	-----
ASHELP	ACT0 ACT1 EXPRES STA0 STA1 STA2 STA3
DBUGIT	DRIVER INOUT LEXCLA LEXICA LEXSUP
F72BNF	FAZ1 LEFT72
FIRST	ACT0 ACT1 ALCBLO ARRXPB CANNON CGDO CGEXPR CGSTMN CMPBLO CMPLX COMSUB DATAST DEBUG DEFPT DOALC DOXPB DRIVER EXPRES FAZ1 FORMAT GCMNSB GLOBAL GNRCFN GOPT2 GOPTIM GRAPH INPT

	IOPT
	LEXSUP
	LISTOU
	MEMCMP
	MOVA
	OUTMOD
	P2S1
	P2S2
	P3R
	PEEPOP
	PH2S
	PH3G
	PHA2
	PHA3
	PNROPT
	REGAL2
	REGUTL
	RELBUF
	SKSTMN
	SRCA
	STA0
	STA1
	STA2
	STA3
	STREGA
	TSTR
	UNEND
	UTIL
	VER5
	VLTPPR
FMTLEX	
	FORMAT
	LEFTFM
FRMBNF	
	FORMAT
	LEFTFM
FT1SEG	
	MAIN
FTTENX	
	DRIVER
	LISTNG
	LEXAID
	MAIN
	SRCA
	STA2
	UNEND
IOFLG	
	CODETA
	FIRST (and all modules which require it)
	INOUT
	LEXCLA
	LEXICA
	LISTNG
	MAIN

LEXAID	CODETA INOUT LEXCLA LEXICA LISTNG
LEXNAM	ACT0 ACT1 CODETA EXPRES FAZ1 LEFT72 LEXCLA LEXICA LEXSUP STA0 STA1 STA2 STA3
LOOK72	FAZ1
LOOKFM	FORMAT
META72	CODETA STA0 STA1 STA2 STA3
OPTMAC	CANNON COMSUB DEFPT GCMNSB GOPTIM GRAPH IOPT MOVA P2S1 PH3G PHA2 PNROPT TSTR VER5
REQREL	DEBUG DOALC GLOBAL LISTOU OUTMOD RELBUF
TABLES	ACT0

ACT1
ALCBLO
ARRXPB
CANNON
CGDO
CGEXPR
CGSTMN
CMPBLO
CMPLX
COMSUB
DATAST
DEBUG
DEFPT
DOALC
DOXPB
DRIVER
EXPRES
GCMNSB
GLOBAL
GNRCFN
GOPT2
GOPTIM
GRAPH
INPT
IOPT
LEXSUP
LISTOU
MEMCMP
MOVA
OUTMOD
P2S1
P2S2
P3R
PEEPOP
PH2S
PH3G
PHA2
PHA3
PNROPT
REGAL2
REGUTL
RELBUF
SKSTMN
SRCA
STA0
STA1
STA2
STA3
STREGA
TSTR
UTIL
VER5
VLTPPR

3.0 Search Files For Each MACRO Source

The following is a list of MACRO files in the FORTRAN compiler, FOROTS, FORLIB and FORDDT along with a list of any universal files searched, or any relocatable modules required by them. Note that the .REL files are loaded from REL: under TOPS-10, and from SYS: under TOPS-20.

3.1 Forots / Forlib / Forddt MACRO source files

All source files search either the TV (Title and Version) or FSRCH macros. FSRCH is searched by TV. FSRCH is a macro in MTHPRM.MAC which searches the files MACSYM and MONSYM (TOPS-20), MACTEN and UUOSYM (TOPS-10).

Macro file -----	Universal file -----	Relocatable file -----
F10REL		
F10SHR		
F20REL		
F20SHR		
FDDT		
FORCHR		
	FORPRM	
	FSRCH*	
FORDST		
	FORPRM	
FORHST		
	FORPRM	
FORCNV		
	FORPRM	
FORDBM		
	FORPRM	
FORDDT		
	UUOSYM (TOPS-10 only)	
	MACTEN (TOPS-10 only)	
	MONSYM (TOPS-20 only)	
	MACSYM (TOPS-20 only)	
FORDUM		
	FORPRM	
	FSRCH*	
FOREND		
	FORPRM	
FORERR		
	FORPRM	
FORFMT		
	FORPRM	
FORHAK		
	FORPRM	
	FSRCH*	

FORINI	
FORIO	FORPRM
FORMEM	FORPRM
FORMSC	FORPRM
FORMSG	FORPRM FSRCH*
FORNML	FORPRM
FOROP	FORPRM
FOROPN	FORPRM FSRCH*
	FORPRM FSRCH*
	QSRMAC (TOPS-20 only)
	QSRMC2 (TOPS-10 only)
	GLXMAC (TOPS-20 only)
FOROTS	
FORPL2	FORPRM
FORPRM	FORPRM
	For FORLIB:
	F10REL, MTHPRM, FORPRM (TOPS-10 only)
	F20REL, MTHPRM, FORPRM (TOPS-20 only)
	For FOROTS:
	F10SHR, MTHPRM, FORPRM (TOPS-10 only)
	F20SHR, MTHPRM, FORPRM (TOPS-20 only)
FORPSE	
FORRTF (TOPS-10)	FORPRM only)
	FORPRM
FORSRT	
FORXIT	FORPRM
FSRCH*	FORPRM
	JOBDAT
	MACSYM (TOPS-20 only)
	MACTEN (TOPS-10 only)
	MONSYM (TOPS-20 only)
	UUOSYM (TOPS-10 only)
M10REL	
M20REL	
M10SHR	
M20SHR	
MTHCDX	
	MTHPRM

	FSRCH*
MTHCGX	
	MTHPRM
MTHCPX	
	MTHPRM
MTHDBL	
	MTHPRM
MTHEPR	
	MTHPRM
MTHERR	
	MTHPRM
MTHGDB	
	MTHPRM
MTHHST	
	MTHPRM
	FSRCH*
MTHMSC	
	MTHPRM
	FSRCH*
MTHMSG	
	MTHPRM
MTHPRM	
	For FORLIB:
	M10REL, MTHPRM, FORPRM (TOPS-10 only)
	M20REL, MTHPRM, FORPRM (TOPS-20 only)
	For FOROTS:
	M10SHR, MTHPRM, FORPRM (TOPS-10 only)
	M20SHR, MTHPRM, FORPRM (TOPS-20 only)
	JOB DAT
	MACSYM (TOPS-20 only)
	MACTEN (TOPS-10 only)
	MONSYM (TOPS-20 only)
	UUOSYM (TOPS-10 only)
	FSRCH*
MTHSNG	
	MTHPRM
MTHTRP	
	MTHPRM

* FSRCH is a macro in MTHPRM.MAC which searches the files shown above.

3.2 Compiler MACRO sources

Macro file	Universal file	Relocatable file
-----	-----	-----
CMND20 (TOPS-20 only)	GFOPDF	
	JOB DAT	

	MACSYM	
	MONSYM	
CNSTCM		
	GFOPDF	
COMMAN (TOPS-10	only)	
	FTTENX	SCAN
	UUOSYM	HELPER
	MACTEN	WILD
	SCNMAC	
	GFOPDF	
DGCMN		
DNPT		
DOPT		
ERR3		
	FTTENX	
	MACSYM (TOPS-20	only)
	MONSYM (TOPS-20	only)
ERRTB3		
EXOSUP		
FLTGEN		
FTTENX		
GFOPDF		
JOB		
OPGNTA		
	GFOPDF	
OWNDM		
QTAB1		
REXHST		

4.0 Compiler Segments And Which Modules Are In Them

The following is a complete list of the FORTRAN compiler modules (.REL files) and which segment they are in. This information is not applicable to the TOPS-20 compiler.

The "segment" column specifies the TOPS-10 overlay segment for each file. "A" is as an abbreviation for FORTRA, "B" for FORTB, "C" for FORTC, etc..

The "single" column contains a comment if the module is NOT in the single segment version of Fortran built with ALL.CMD or ALL20.CMD.

The relinking of any particular segment can be easily accomplished by running LINK and using the command files A.CMD, B.CMD, etc., for FORTRA, FORTB, etc.. Notice the particular versions of SCAN and WILD which are used, because it is imperative that every segment uses the same versions of these standard programs.

Module -----	Segment -----	Single -----
ACT0	B	
ACT1	B	
ALCBLO	E,F	
ARRXPB	B,E,F	
CANNON	C,D	
CGDO	G	
CGEXPR	G	
CGSTMN	G	
CMPBLO	E,F	
CMPLX	E,F	
CNSTCM	B,C,D,E,F,G	
CODETA	B	
COMMAN	A,B,C,D,E,F,G	
COMSUB	C,D	
DATAST	E,F	
DEBUG	G	
DEFPT	D	
DGCMN	C	dummy declarations
DNPT	D	dummy declarations
DOALC	E,F	
DOPT	C	dummy declarations
DOXPB	B	
DRIVER	B	
ERR3	A,B,C,D,E,F,G	
ERROUT	B	
ERROVA	A	included in ERROUT

ERROVB	B	included in ERROUT
ERROVC	C	included in ERROUT
ERROVD	D	included in ERROUT
ERROVG	G	included in ERROUT
ERROVR	E,F	included in ERROUT
EXOSUP	A,B,C,D,E,F,G	
EXPRES	B	
FAZ1	B	
FLTGEN	B	
FORMAT	B	
GCMNSB	D	
GLOBAL	A,B,C,D,E,F,G	
GNRCFN	B	
GOPT2	D,E	
GOPTIM	C,D,E,F,G	
GRAPH	D	
HELPER	A	
INOUT	A,B,C,D,E,F,G	
INPT	C	
IOPT	D	
JOB	A,B,C,D,E,F,G	
LEXCLA	B	
LEXICA	B	
LEXSUP	B	
LISTNG	B	
LISTOU	G	
MAIN	A,B,C,D,E,F,G	
MEMCMP	C,D	
MOVA	D	
OPGNTA	G	
OPTAB	G	
OUTMOD	E,F	
OWNDM	A	dummy declarations
P2S1	C,D	
P2S2	C,D	
P3R	F	
PEEPOP	G	
PH2S	C	
PH3G	E	
PHA2	D	
PHA3	G	
PNROPT	D	
REGAL2	E,F	
REGUTL	E,F	

RELBUF	E,F,G
REVHST	A,B,C,D,E,F,G
SCAN	A
SKSTMN	C,D
SRCA	B,C,D,E,F,G
STA0	B
STA1	B
STA2	B
STA3	B
STREGA	E,F
TSTR	D
UNEND	A,B
UTIL	C,D,E,F,G
VER5	D
VLTPPR	B,E,F
WILD	A

[End of MODULE.MEM]