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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	
ARRXPN		
	FIRST	

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

ERRORO ERROUT ERROVA ERROVB ERROVC ERROVD ERROVG ERROVG	FTTENX TABLES
EXPRES F72BNF	LEXNAM ASHELP FIRST TABLES
FAZ1	LEXNAM F72BNF LOOK72 FIRST
FIRST	IOFLG
FMTLEX FORMAT	FMTLEX FRMBNF LOOKFM
FRMBNF GCMNSB	FIRST
GLOBAL	FIRST TABLES OPTMAC
GLOBAL	FIRST REQREL TABLES
GNRCFN	FIRST
GOPT2	TABLES
00D#T1/	FIRST TABLES
GOPTIM	FIRST TABLES
GRAPH	OPTMAC FIRST
	TABLES OPTMAC
INOUT	חחומדש

DBUGIT

TND	LEXAID IOFLG
INPT	FIRST TABLES
IOFLG IOPT	TADLES
	FIRST TABLES
LEFT72	OPTMAC
	LEXNAM F72BNF
LEFTFM	FMTLEX
LEXAID	FRMBNF
LEXCLA	FTTENX
	DBUGIT IOFLG
	LEXNAM LEXAID
LEXICA	DBUGIT
	IOFLG
	LEXNAM
	LEXAID
LEXNAM	
LEXSUP	DBUGIT
	LEXNAM
	FIRST
	TABLES
LISTNG	T 1717 T 17
	LEXAID IOFLG
LISTOU	
	FIRST
	TABLES REOREL
LOOK72	~
LOOKFM	
MAIN	FT1SEG
	FTTENX
ACTION D	IOFLG
MEMCMP	FIRST
	TABLES
META72 METAFM	
MOVA	
	ETD CE

FIRST

NUMIO1 OPTAB	TABLES OPTMAC
OPTMAC OUTMOD	FIRST TABLES REQREL
P2S1	FIRST TABLES OPTMAC
P2S2	FIRST TABLES
P3R	FIRST TABLES
PEEPOP	FIRST TABLES
PH2S	FIRST TABLES
PH3G	FIRST TABLES
PHA2	OPTMAC FIRST TABLES
рна3	OPTMAC FIRST
PNROPT	TABLES
REGAL2	FIRST TABLES OPTMAC
	FIRST TABLES
REGUTL	FIRST TABLES
RELBUF	FIRST TABLES
REQREL SCANO	REQREL

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 ${\tt FTTENX}$ UTIL FIRST **TABLES** VER5 FIRST

> TABLES OPTMAC

FIRST

VLTPPR

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		ACTO ACT1 ALCBLO ARRXPN CANNON CGDO CGEXPR CGSTMN CMPBLO CMPLEX COMSUB DATAST DEBUG DEFPT DOALC DOXPN DRIVER EXPRES FAZ1 FORMAT GCMNSB GLOBAL GNRCFN GOPT2 GOPTIM GRAPH INPT

FMTLEX

FRMBNF

FT1SEG

FTTENX

IOFLG

MAIN

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** FORMAT LEFTFM FORMAT LEFTFM MAIN DRIVER LISTNG LEXAID MAIN SRCA STA2 UNEND FIRST (and all modules which require it) INOUT LEXCLA LEXICA LISTNG

LEXAID

CODETA INOUT LEXCLA LEXICA LISTNG

LEXNAM

ACTO ACT1 CODETA EXPRES FAZ1 LEFT72 LEXCLA LEXICA LEXSUP STA0 STA1 STA2 STA3

LOOK72

FAZ1

LOOKFM

FORMAT

META72

CODETA STA0 STA1 STA2 STA3

CANNON

OPTMAC

COMSUB
DEFPT
GCMNSB
GOPTIM
GRAPH
IOPT
MOVA
P2S1
PH3G
PHA2
PNROPT
TSTR
VER5

REQREL

DEBUG DOALC GLOBAL LISTOU OUTMOD RELBUF

TABLES

ACT0

ACT1

ALCBLO

ARRXPN

CANNON

CGDO

CGEXPR

 ${\tt CGSTMN}$

CMPBLO

CMPLEX

COMSUB

DATAST

DEBUG

DEFPT

DOALC

DOXPN

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		
DODIJAM	FORPRM	
FORHST	FORPRM	
FORCNV	FORFRM	
2 0210217	FORPRM	
FORDBM		
	FORPRM	
FORDDT	UUOSYM (TOPS-10 only)	
	MACTEN (TOPS-10 only)	
	MONSYM (TOPS-20 only)	
	MACSYM (TOPS-20 only)	
FORDUM		
	FORPRM FSRCH*	
FOREND	FSRCH"	
TORBIND	FORPRM	
FORERR		
	FORPRM	
FORFMT		
EODIIAK	FORPRM	
FORHAK	FORPRM	
	FSRCH*	

FORINI FORPRM FORIO FORPRM FORMEM **FORPRM** FORMSC **FORPRM** FSRCH* FORMSG FORPRM FORNML FORPRM FOROP FORPRM FSRCH* FOROPN FORPRM FSRCH* QSRMAC (TOPS-20 only) QSRMC2 (TOPS-10 only) GLXMAC (TOPS-20 only) FOROTS FORPRM FORPL2 **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 **FORPRM** FORRTF (TOPS-10 only) **FORPRM** FORSRT **FORPRM** FORXIT FORPRM FSRCH* 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)

JOBDAT

MACSYM (TOPS-20 only) MACTEN (TOPS-10 only) MONSYM (TOPS-20 only) UUOSYM (TOPS-10 only)

FSRCH*

MTHSNG

MTHPRM

MTHTRP

MTHPRM

3.2 Compiler MACRO sources

Macro file Universal file Relocatable file

CMND20 (TOPS-20 only)
GFOPDF
JOBDAT

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

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 JOBD OPGNTA

GFOPDF

OWNDM QTAB1 REVHST . .

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 ACT1 ALCBLO ARRXPN	B B E,F B,E,F	
CANNON CGDO CGEXPR CGSTMN CMPBLO CMPLEX CNSTCM CODETA COMMAN COMSUB	C,D G G G E,F E,F B,C,D,E,F,G B A,B,C,D,E,F,G C,D	
DATAST DEBUG DEFPT DGCMN DNPT DOALC DOPT DOXPN DRIVER	E,F G D C D E,F C B	dummy declarations dummy declarations
ERR3 ERROUT ERROVA	A,B,C,D,E,F,G B A	included in ERROUT

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

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

[End of MODULE.MEM]