

NORD SOFTWARE LIBRARY DISKETTE

CONTAINING : FORTRAN
32 BITS FLOATING FORMAT.

DIRECTORY NAME : ND-10033K
USER NAME : FLOPPY-USER

FILE 0 : (ND-10033K:FLOPPY-USER)PRINT-FILE-2324B:BFUN;1
FILE 1 : (ND-10033K:FLOPPY-USER)FTN-2090I:BFUN;1
FILE 2 : (ND-10033K:FLOPPY-USER)FTNLIBR-2093F:BRF;1
FILE 3 : (ND-10033K:FLOPPY-USER)FTNRTLBR-2094F:BRF;1

29 SEPTEMBER 1981



NORD SOFTWARE LIBRARY
PROGRAM DESCRIPTION

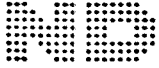
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PROGRAM	NAME	PROGRAM NUMBER	SUT-2324B
	PRINT-FILE	PART OF	NO NUMBER 10023G,H,I,J,K 10033H,I,J,K
COMPUTERS	<input checked="" type="checkbox"/> 10	<input type="checkbox"/> 12	<input type="checkbox"/> 50 <input checked="" type="checkbox"/> 100 <input type="checkbox"/> 500 <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____
INSTRUCTION SET	<input checked="" type="checkbox"/> 48 BIT FL.	<input checked="" type="checkbox"/> 32 BIT FL.	<input type="checkbox"/> COMMERCIAL <input type="checkbox"/> _____
OPERATING SYSTEMS	<input checked="" type="checkbox"/> SIN III VS	<input type="checkbox"/> SIN III RT	<input type="checkbox"/> ALONE <input type="checkbox"/> _____
PROGRAM TYPE	<input checked="" type="checkbox"/> BINARY	<input type="checkbox"/> BRJ	<input type="checkbox"/> SYMBOLIC <input type="checkbox"/> _____
DOCUMENTATION	NUMBER	_____	
	TITLE	_____	
ADDRESS SPACE (For Binary Programs)	BOUNDARIES	13400 < 34040	
	START ADDRESS	13665	RESTART ADDRESS 13665
PURPOSE	PRINT A FORMATTED FILE CREATED BY A FTN-PROG.		

LOADING/OPERATING PROCEDURE, USE

@PLACE <input file>
@DUMP "PRINT-FILE", 13665; 13665

This program prints a formatted file created by a FORTRAN program on a specified list device. The control characters in FORTRAN are expanded (1H1, 1H+, 1H\$ etc.)



NORD SOFTWARE LIBRARY
REVISION LOG

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PROGRAM	NAME	PROGRAM NUMBER	SUT-2324B
	PRINT-FILE	PART OF ND NUMBER	10023G,H,I,J,K 10033H,I,J,
ISSUED	DATE 79.08.17	BY (INITIALS)	BR
REASON	<input type="checkbox"/> ERROR CORRECTION	<input type="checkbox"/> DIFFERENT ENVIRONMENT	<input checked="" type="checkbox"/> CHANGE/ADDITION

CHANGES

The speed of printing is improved by not printing trailing spaces.

! NORSK DATA A/S		! NORD SOFTWARE LIBRARY		! PAGE 1 OF 1	
! PROGRAM DESCRIPTION					
! PROGRAM	! NAME			! PROGRAM NUMBER	
	! FTN			! FTN-2090I	
				! PART OF ND-NUMBER	
				! 10023K, 10033K	
! COMPUTERS	! X 10 ! . 12 ! . 50 ! X 100!	! . 500!!			
! INSTR.SET	! . 48 BIT FL.!	! . 32 BIT FL.!		! . COMMERCIAL!	
! OP.SYSTEM	! X SIN III VS!	! . SIN III RT!		! . ALONE !	
! PROG.TYPE	! X BINARY	! . BRF		! . SYMBOLIC !	
! DOCUMEN-	! NUMBER: ND-60.074.03				
! TATION	! TITLE: NORD-10/100 FORTRAN SYSTEM REFERENCE MANUAL				
! ADDRESS	! BOUNDARIES: 0<76370+tables!				
! SPACE					
! (BIN.PROG)	! START ADDRESS: 0		! RESTART ADDRESS: 1		
! PURPOSE	! NORD 10/100 FORTRAN COMPILER				

LOADING/OPERATING PROCEDURE, USE

Procedure for generating a standard subsystem:

```
@PLACE-BINARY <input file>
@DUMP "FTN-2090I",0,1
```

Procedure for generating a reentrant subsystem:

```
@DUMP-REENTRANT FTN-2090I,0,1,<input file>
```

The number of lines printed on each page on the line-printer may be changed by the following patch in the compiler:

```
333/67 <No. of lines>
```

or by the compiler command

```
PAGE-SIZE <No. of lines>
```

A run-time message, if floating division by zero, may be obtained by the following patch in the compiler:

```
240/0 10000
```

!	!	!	!	!
!	NORSK DATA A/S	NORD SOFTWARE LIBRARY	PAGE 1 OF 1	!
!		REVISION LOG		!
!	!	!	!	!
!	PRODUCT	NAME	ND-NUMBER	!
!		NORD FORTRAN	10023K , 10033K	!
!	ISSUED	DATE 81.09.14	BY (INITIALS) JKL	!
!	REASON	X ERROR CORRECTION	. DIFFERENT ENVIRONMENT	!
!		. CHANGE/ADDITION	!
!	FILES	PROG.NUMB. NAME		!
!	CHANGED	FTN-2090I FTN		!
!	OR NEW			!
!	FILES			!
!	!	!	!	!

1. ERRORS CORRECTED
 - 1.1 The compiler command DIRECT-ADDRESSED-CALLS did not work correctly when subprogram calls contained either subscripted parameters or expressions.
 - 1.2 The compiler command PROFILE-MAP destroyed the compiler's memory area. This error has been corrected.
 - 1.3 The logical shift function ISHFT did not work correctly when the parameters were of different types. This error has been corrected.
 - 1.4 In program units greater than 100000B, character strings in DATA statements were sometimes destroyed. This error has been corrected.

! NORSK DATA A/S		! NORD SOFTWARE LIBRARY		! PAGE 1 OF 1	
		! PROGRAM DESCRIPTION			
! PROGRAM	! NAME			! PROGRAM NUMBER	
	! FTNLIBR			! FTN-2093F	
				! PART OF ND-NUMBER	
				! 10033I,J,K	
				! 10136B	
! COMPUTERS	! X 10 ! 12 ! . 50 ! X 100! . 500!!				
! INSTR.SET	! . 48 BIT FL.!	! X 32 BIT FL.!	! . COMMERCIAL!		
! OP.SYSTEM	! X SIN III VS!	! . SIN III RT!	! . ALONE ! !		
! PROG.TYPE	! . BINARY	! X BRF	! . SYMBOLIC ! !		
! DOCUMEN-	! NUMBER: ND60.074.03/ ND60.050.08				
! TATION	! TITLE: NORD-10/100 FORTRAN SYSTEM Reference Manual and				
	! SINTRAN III User's Guide				
! ADDRESS	! BOUNDRIES:<..... !				
! SPACE	! !				
! (BIN.PROG)	! START ADDRESS:		! RESTART ADDRESS:		
! PURPOSE	! NORD-10/100 FORTRAN LIBRARY/RUNTIME SYSTEM				

LOADING/OPERATING PROCEDURE, USE

Procedure for generating a BRF file :

```
@COPY "FTNLIBR-2093F:BRF",<input file>
```

NORSK DATA A/S		NORD SOFTWARE LIBRARY		PAGE 1 OF 1	
PROGRAM DESCRIPTION					
PROGRAM	NAME			PROGRAM NUMBER	
	FTNRTLBR			FTN-2094F	
				PART OF ND-NUMBER	
				10033I,J,K	
				10136B	
COMPUTERS	X 10	12	. 50	X 100	. 500
INSTR.SET	. 48 BIT FL.	X 32 BIT FL.	. COMMERCIAL		
OP.SYSTEM	X SIN III VS	. SIN III RT	. ALONE		
PROG.TYPE	. BINARY	X BRF	. SYMBOLIC		
DOCUMENTATION	NUMBER: ND60.074.03/ ND60.050.08				
	TITLE: NORD-10/100 FORTRAN SYSTEM Reference Manual and				
	SINTRAN III User's Guide				
ADDRESS SPACE	BOUNDRIES: <				
(BIN.PROG)	START ADDRESS:		RESTART ADDRESS:		
PURPOSE	NORD-10/100 FORTRAN REENTRANT LIBRARY/RUNTIME SYSTEM				

LOADING/OPERATING PROCEDURE, USE

Procedure for generating a BRF file :

@COPY "FTNRTLBR-2094F:BRF", <input file>

PROGRAM	NAME	PROGRAM NUMBER
	FTNLIBR/FTNRRTLBR	FTN-2091F, FTN-2092F FTN-2093F, FTN-2094F
		PART OF ND-NUMBER 10023I, J, K 10033I, J, K 10136B 10067D
ISSUED	DATE 80.11.26	BY (INITIALS) JKL
REASON	X ERROR CORRECTION	. DIFFERENT ENVIRONMENT
	X CHANGE/ADDITION

CHANGES

1. ERRORS CORRECTED

- 1.1 The routine 8CLSB will not be doubly defined if the OPEN statement is performed only on an overlay.
- 1.2 An error concerning REWIND for buffered I/O is corrected.
- 1.3 When reading from a terminal with the READ statement, the control will be transferred to the error label if the terminal is not opened for read.
- 1.4 Underflow and overflow in the double precision real multiplication routine will be handled correctly in the versions FTN-2093F and FTN-2094F.
- 1.5 Some minor errors are corrected.

2. CHANGES MADE

- 2.1 The OPEN statement will accept the access codes SEQUENTIAL, DIRECT and SPECIAL.

The access codes SEQUENTIAL and DIRECT should only be used for the I/O which employ READ/WRITE statements. For files, line-printers and magnetic tapes the I/O will be buffered, if a buffer is made available with the loader command SET-IO-BUFFERS. If a buffer is not available, the unit will be opened for sequential access.

The access code SPECIAL should only be used for I/O using the RFILE/WFILE and MAGTP file utility subprograms. This access code will function similarly to the access code D.

- 2.2 When using buffered I/O the READ/WRITE statements containing the REC= specifier will accept a record number in the range of 0 to 65535.

! NORSK DATA A/S		! NORD SOFTWARE LIBRARY		! PAGE 2 OF 2	
! PROGRAM	! NAME	! PROGRAM NUMBER	! FTN-2091F, FTN-2092F	! FTN-2093F, FTN-2094F	!
	! FTNLIBR/FTNRTLIBR				!
		! PART OF ND-NUMBER	! 10023I,J,K	! 10033I,J,K	!
		! 10136B	! 10067D		!
! ISSUED	! DATE 80.11.26	! BY (INITIALS)	! JKL		!

2.3 The following new routines for overlay handling are implemented in the versions FTN-2091F and FTN-2093F:

OVLINIT, OVERLAY and OVRECAL.

NOTE: The NRL-version LDR-1935G or later must be used.

2.4 The following SINTRAN III monitor calls are implemented:

PASET, PAGET, EDTRM and RERRP.

2.5 A fourth parameter is implemented in the BRKM routine if the strategy is greather than 2. The parameter is the maximum number of characters input before break is given.

2.6 The old OPEN routine will now accept the access code 8.

2.7 The ~~DEBUG~~ command processor will accept SINTRAN commands starting with commercial at (@).

2.8 Some minor changes.