NORD SOFTWARE LIBRARY DISKETTE

Containing : SUBSYSTEM PACKAGE

32 BITS FLOATING FORMAT

Directory Name : ND-10005U : FLOPPY-USER

		File access:					
Num	File name	Type	Public	Friend	0wn	Pages	Bytes
5	BRF-EDITOR-1858F	BPUN	R	RWA	RWACD	10	16748
6	F32-EXTR-2232B	BPUN	R	RWACD	RWACD	20	38394
1	GPM-2365B	BPUN	RWACD	RWACD	RWACD	3	3852
7	LOOK-FILE-2244E	BPUN	RWACD	RWACD	RWACD	4 2	82337
0	NRL-1935J	BPUN	RWACD	RWACD	RWACD	12	21864
3	PERFORM-2412F	BPUN	R	RWACD	RWACD	26	49569
4	PERFORM-LIBRARY	MCRO	R	RWA	RWACD	3	3582
2	GPM-LIBR-2366B	SYMB	RWACD	RWACD	RWACD	3	4067

Total: 8 files using 119 pages

9 JAN 1984

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NORSK DATA A/S NORD SOFTWARE LIBRARY PAGE 1 OF 1 PROGRAM DESCRIPTION PRODUCT ! NAME ! ND-NUMBER!CATEGORY Subsystem Package. 10044S ! STPR (BRF-EDITOR) _10005U_!_ ND-NUMBER FOR SOURCE 10153C ISSUED ! DATE 83.12.01 ! BY (INITIALS) HKD. 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 DOCUMEN-! NUMBER: 60.066.04 TATION ! TITLE: NRL ND Relocating Loader **PURPOSE** ! Handle files containing BRF-information. **PROGRAMS** PROG.NUMB. NAME TYPE CONTAINING (FILES) ! SUT-1858F BRF-EDITOR **BPUN**

LOADING/OPERATING PROCEDURE, USE

PLACE-BINARY BRF-EDITOR
DUMP BRF-EDITOR 0 0

R

DDUMP-REENTRANT BRF-EDITOR O O BRF-EDITOR

IORSK DAT		TWARE LIBRARY PAGE 1 OF 1 ISION LOG
PRODUCT	! NAME ! Subsystem Packag ! (BRF-EDITOR)	! ND-NUMBER e. ! 10044S 10005U !
ISSUED	! DATE 83.12.01	! BY (INITIALS) HKD.
REASON	! . ERROR CORRECTION ! X CHANGE/ADDITION	! . DIFFERENT ENVIRONMENT
FILES CHANGED DR NEW FILES	PROG.NUMB. NAME SUT-1858F BRF-EDI	TOR

CHANGES

One error corrected in the MAKE-LIBRARY-UNITS command. The error ocurred when the brf-unit contained the brf-control number 44 (octal), (DATA statement to CHARACTER variables).

	NORD SOFTWARE LIBRARY OBJECT DESCRIPTION	PAGE 1 OF
PROGRAM	NAME FILE-EXTRACT-F32	PROGRAM NUMBER SUT-2232B
REFERENCE	DATE 78.12.19 NAME SR	PROGRAM CATEGORY
REVISED	DATE NAME	REVISION LOG FOR PROGRAM
EXPIRED	DATE NAME	NEW PROGRAM ND-10005
COMPUTERS	12B51012	20 50 X 10-32
OPERATING SYSTEMS	TSS K SIN III M S	SIN III C ALONE
ТҮРЕ	X BINARY OCTAL E	BRF RB
DOCUMENTATION		USER DESCRIPTION MANUAL "ILITY COMMAND User's Guide ND-60.
ADDRESS	SIZE	BOUNDARIES 16000 < 63102
SPACE	START ADDRESS 16000	RESTART ADDRESS 16000
PURPOSE	Extract records from one file and	write to another

LOADING/OPERATING PROCEDURE, USE

Standard subsystem
PLACE-BINARY < input file >
DUMP "FILE-EXT-2221B", < sa>, < ra>

***	NORD SOFTWARE LIBRARY _ PAGE 1 OF
000 000 0000000 000 000 00000000 000 000 000000	PROGRAM DESCRIPTION
PROGRAM	NAME PROGRAM NUMBER SUT-2365 B
A. Car	GPM PART OF 10005U ND NUMBER 10124 B 10044S
COMPUTERS	X 10 12 50 X 100 500
INSTRUCTION SET	X 48 BIT FL. X 32 BIT FL. X COMMERCIAL
OPERATING SYSTEMS	SIN III VS SIN III RT ALONE SIN III RT
PROGRAM TYPE	X BINARY BRF SYMBOLIC
DOCUMENTATION	NUMBER ND-60.151.01
	TITLE SINTRAN III Utiliti⊑s Manual
ADDRESS SPACE (For Binary Programs)	BOUNDARIES 0 < 3153
(1 or Billary 1 rograms)	START RESTART ADDRESS 0
PURPOSE	Macroprocessing

LOADING/OPERATING PROCEDURE, USE

Non-reentrant load:

@ PLACE <input file>
@ DUMP "GPM-2365B" 0 0

Reentrant load:

@ DUMP-REENTRANT GPM, 0, 0, <i nput file>

Warning:

ND is fully aware that this GPM-version contains the following error :

A temporary definition made by DEF does not leave a null value.

This error will not be corrected since this would require a complete redesign of the data structure. The problem may be avoided by making all temporary definitions in redundant parameter-positions.

NORSK DATA		D SOFTWARE LIE OGRAM DESCRIPT		PΑ	AGE '	1 OF 1
PRODUCT	NAME SUBSYSTEM PACKAGE (LOOK-FILE) ND-NUMBER CATEGORY 10005U STPR 10044S					
	ND-NUMBER FOR SOURCE 10158D					· - · · · · ·
ISSUED	DATE 83.12.11 BY (INITIALS) IFJ					j
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					
DOCUMEN- TATION	TITLE: NUMBER: SINTRAN III Utilities Manual 60.151.02					
PURPOSE	Dump/Patch/Compare SINTRAN files					
PROGRAMS (FILES)	PROG.NUMB. NAME TYPE CONTAINING SUT-2244E LOOK-FILE-2244E BPUN LOOK-FILE					

LOADING/ OPERATING PROCEDURE/ USE:

If LOOK-FILE is to be dumped as a PROG-file, perform following:

@PLACE-BINARY <input-file>

input-file may be found on diskette ND-10005U or ND-10044S with the name LOOK-FILE-2244E

adump "LOOK-FILE-2244E",0,0

If LOOK-FILE is to be dumped-reentrant, perform following:

DUMP-REENTRANT LOOK-FILE-2244E,0,0,<input-file>

input-file is found on diskette ND-10005U or ND-10044S with the name LOOK-FILE-2244E

NORSK DAT	A A/S NORD SOFTWA REVISI		PAGE 1 OF 2
PRODUCT	NAME SUBSYSTEM PACKAGE (L	OOK-FILE)	ND-NUMBERS 10005U, 10044S
ISSUED	DATE 83.12.16	BY (INIT:	IALS) IFJ
REASON	X ERROR CORRECTION X CHANGE/ADDITION	FFERENT ENVIRONMENT	
FILES CHANGED OR NEW FILES	PROG.NUMB. NAME SUT-2244E LOOK-FILE-	2244E:BPUN	

1 Changes in commands

Many of the commands are changed or renamed. In the following chapter all commands are listed.

All commands and parameters may be given on one line, except the patch and search value in the command PATCH and SEARCH.

All commands may be given in upper or lower case.

2 List of all Commands

PROGRAM-INFORMATION

CALCULATE <OPERAND> <OPERATOR> <OPERAND>

DUMP <BLOCK NUMBER (DEFAULT=0)>
 <from word number (DEFAULT=1)>
 <number of words (DEFAULT=140)>

BYTE-DUMP <BLOCK NUMBER (DEFAULT=0)>
<FROM WORD NUMBER (DEFAULT=1)>
<NUMBER OF WORDS (DEFAULT=120)>

NEXT

PREVIOUS

ZERO <BLOCK NUMBER (DEFAULT=0)>

SET-BLOCK-CONTENTS <BLOCK NUMBER (DEFAULT=0)>

CLOSE

NORSK DATA	A/S NORD SOFTWARE LIBRARY REVISION LOG	PAGE 2 OF 2
PRODUCT	NAME SUBSYSTEM PACKAGE (LOOK-FILE)	ND-NUMBERS 10005U, 10044S

COMPARE <FILE NAME>
<FIRST BLOCK NUMBER (DEFAULT=0)>
<NUMBER OF BLOCKS (DEFAULT=1)>

DEFINE-PRINT-FILE <FILE NAME>

ON-OFF-PRINTER <1=ON/O=OFF (DEFAULT=OFF)>

MOVE <FROM FILE NAME>
<NUMBER OF BLOCKS TO MOVE>
<FIRST BLOCK NUMBER IN SOURCE FILE>
<FIRST BLOCK NUMBER IN DESTINATION FILE>

PROGRAM-STATUS

SET-PRINT-FORMAT <(B = OCTAL

,H = HEXADECIMAL

,D = DECIMAL) FORMAT (DEFAULT= B)>

PATCH <BLOCK NUMBER (DEFAULT=0)> <WORD NUMBER (DEFAULT=1)>

SEARCH <FIRST BLOCK NUMBER (DEFAULT=0)> <NUMBER OF BLOCKS (DEFAULT=1)>

EXIT

EXPLAIN-COMMAND <COMMAND>

NORSK DATA		RD SOFTWARE LIE ROGRAM DESCRIPT		P.A	AGE	1 OF 1
PRODUCT	NAME NRL			ND-NUN 10005 1004	5 U	CATEGORY STPR
				ND-NUI		FOR SOURCE 170E
ISSUED	DATE 84.01.06 BY (INITIALS) JKL				<u>.</u>	
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					
DOCUMEN- TATION	TITLE: NUMBER: ND Relocating Loader 60.066.04					
PURPOSE	Builds programs/data out of the NORD-10/ND-100 BRF-format in memory/memory-image/overlays.					
PROGRAMS (FILES)	PROG.NUMB. NAME TYPE CONTAINING LDR-1935J NRL BPUN ND Relocating Loader					

LOADING/OPERATING PROCEDURE/USE:

Procedure for generating a standard subsystem:

aplace-Binary (ND:FLOPPY-USER)NRL-1935J
adump "NRL-1935J",0,1

Procedure for generating a reentrant subsystem:

QDUMP-REENTRANT NRL-1935J,0,1,(ND:FLOPPY-USER)NRL-1935J

NOTE: The following applies until the two-bank RECOVER command is implemented in the operating system:

The file name in the loader commands PROG-FILE and DUMP can only be 15 characters when loading routines compiled with the compiler command SEPARATE-DATA ON.

NORSK DAT	A A/S NORD SOFTWAR REVISIO		PAGE 1 OF 1
PRODUCT	NAME NRL		ND-NUMBER 10005U, 10044S
ISSUED	DATE 84.01.00	BY (INITI	ALS) JKL
REASON	X ERROR CORRECTION X CHANGE/ADDITION	. DIF	FERENT ENVIRONMENT
FILES CHANGED OR NEW FILES	PROG.NUMB. NAME LDR-1935J NRL	–	CONTAINING ND Relocating Loader

1 ERRORS CORRECTED

The loader command PROG-FILE destroyed the area from 177400B to 177777B on the specified program file. This error has been corrected.

When a number of library files containing a dictionary table were loaded with one LOAD command, only the last library file was closed. This error has been corrected.

The loader command ON-ERROR-EXIT will be carried out correctly when loading onto a PROG-FILE.

When creating an overlay system, the overlay table was sometimes incorrect. This error resulted in the runtime error message NO SUCH OVERLAY. This could occur if the overlay table contained more than 70 overlay entries.

Overlaid programs using buffered I/O from FORTRAN-100, i.e. using the access code SEQUENTIAL or DIRECT in the OPEN statement, got the buffer space incorrectly allocated.

2 CHANGES MADE

Two-bank programs can be loaded to memory without using the loader command PROG-FILE. They can then be executed by means of the RUN command.

The library file FTNLIBR will not be automatically loaded.

The DEPOSIT command has been improved. The following option has been included:

DEPOSIT <symbol name> [,<±octal displacement>] [,<new contents>]

The DUMP command has been improved. The start and restart addresses may be symbol names.

NRL will produce information to be used by the Job Execution Control program at termination.

NORSK DATA	A/S NORD SOFTWARE LIE PROGRAM DESCRIPT		P	AGE 1 OF 1	
PRODUCT	NAME SINTRAN UTILITY PROGRAMS ND-NUMBER CATEGORY 10005U 100445 STPR				
1	(PERFORM) ND-NUMBER FOR SOURCE 10168F				
ISSUED	DATE 84.01.09 BY (INITIALS) BR				
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				
DOCUMEN- TATION	TITLE: NUMBER: SINTRAN UTILITIES MANUAL 60.151.02				
PURPOSE	Insert parameters to a macro which makes a MODE file, and runs this MODE file.				
PROGRAMS (FILES)	PROG.NUMB. NAME TYPE CONTAINING SUT-2412F PERFORM BPUN PROGRAM PERFORM SUT-2439D PERFORM-LIBRARY MCRO PERFORM MACROS				

LOADING/OPERATING PROCEDURE, USE:

Under user SYSTEM, do following:

- DPLACE-BINARY (ND:FLOPPY)PERFORM-2412F
- adump "PERFORM-2412F",0,0

This will install PERFORM as a PROG file.

- DDELETE-REENTRANT PERFORM
- adump-reentrant perform o o (ND:FLOPPY)Perform-2412F:BPUN

This will dump PERFORM as a reentrant subsystem.

- adelete-file perform-Library: MCRO
- @COPY-FILE "PERFORM-LIBRARY: MCRO", (ND: FLOPPY) PERFORM-LIBRARY: MCRO

This will install the standard release of the default macros.

NOTE! Be carefull not to release the old version of the PERFORM-LIBRARY if your own macroes are included to this file. Also note that the PERFORM-LIBRARY: MCRO file is completely changed. Macro names and contents are alined to our current compilers.

If old versions of our compilers are used, macroes from previous versions of the PERFORM-LIBRARY:MCRO may be used or included in the new version of PERFORM-LIBRARY:MCRO.

NORSK DATA	A/S NORD SOFTWAR REVISION		PAGE 1 OF 1
PRODUCT	NAME SINTRAN UTILITY PROGRA	AMS	ND-NUMBER 10005U 10044S
ISSUED	DATE 84.01.09	BY (INIT	IALS) BR
REASON	X ERROR CORRECTION X CHANGE/ADDITION	. DI	FFERENT ENVIRONMENT
FILES CHANGED	PROG.NUMB. NAME		CONTAINING
OR NEW FILES	SUT-2412F PERFORM SUT-2439D PERFORM-LIB		PROGRAM PERFORM PERFORM MACROS

CHANGES :

- If two concecutive backslaches are encountered they are trated as one backslach and not as a parameter submission placement, becouse it somtimes is nessesary to have a backslach as a character in a parameter.
- The default macro name will now be the first macro on the :MCRO file.
- Partly abbvribation of macro names is imlemented ie. the first occurence will be taken.
- PERFORM-LIBRARY: MCRO, file with macroes, is completely changed. Macro names and contents are alined to our current compilers.

If old versions of our compilers are used, macroes from previous versions of PERFORM may be used or included in the file PERFORM-LIBRARY: MCRO.

Remember, the PERFORM-LIBRARY: MCRO file is only ment to be an exsample.

ERRORS CORRECTED:

- If a parameter was followed by a single character, this character disapeared from the mode file.
- Some minor errors are corrected.

	NORD SOFTWARE LIBRA	ARY PAGE 1 OF				
	PROGRAM DESCRIPTION					
PROGRAM	NAME GPM-LIB	PROGRAM NUMBER SUT-2366B				
	di ii-Lib	PART OF 10124B 10005T,U 10044R,S				
COMPUTERS	X 10 12 50 X 100 C]500 🔲 🔲				
INSTRUCTION SET	X 48 BIT FL. X 32 BIT FL. X	COMMERCIAL				
OPERATING SYSTEMS	X SIN III VS SIN III RT	ALONE				
PROGRAM TYPE	BINARY BRF	SYMBOLIC				
DOCUMENTATION	NUMBER ND-60.151.01					
	TITLE SINTRAN III Utilities	Manual				
ADDRESS SPACE (For Binary Programs)	BOUNDARIES <					
(1 of Billary Programs)	START ADDRESS	RESTART ADDRESS				
PURPOSE	Library of macro-definitions	for GPM				

LOADING/OPERATING PROCEDURE, USE

Installation:

- @ COPY-FILE "GPM-LIB-2366B" ⟨input-file⟩
- © SET-FILE-ACCESS GPM-LIB-2366B R R RD Use:

Let GPM read this library before calling it :

⊘GPM

CR/LF TO BE IGNORED ON INPUT ? Y

OUTPUT FILE NAME : WHATEVER

INPUT FILE NAME : GPM-LIB

INPUT FILE NAME :

GPM is in "ignore CR/LF"-mode when the GPM-LIBRARY has been read.

!!!!!!!	NORSK DATA	A/S NORD SOFTWARE LIBRARY PAGE 1 OF REVISION LOG	! 1 ! ! !
!!!!!	PRODUCT	! GPM ! 10124B ₁₀	005T,U 044R,S
!	ÍSSUED	DATE 82.01.05 ! BY (INITIALS) SN	!
!!!	REASON	X ERROR CORRECTION ! X DIFFERENT ENVIRONMENT ! BOTH 48 and 32 BITS FI	
!!!!!!	FILES CHANGED OR NEW FILES	PROG.NUMB. NAME SUT-2365B GPM SUT-2366B GPM-LIBR !	! ! ! !

CHANGES

The new GPM-version can be executed on NORD-10/ND-100 regardless of floating-point hardware version (48 or 32 bits). The previous version failed when any sort of integer division was attempted on CPUs with 32-bits floating point hardware.

The GPM-LIB now includes a DO-LOOP macro-definition that allows other step-lengths than the default value.