## NORD SOFTWARE LIBRARY DISKETTE

CONTAINING

: LINKAGE LOADER FOR ND-500

DIRECTORY NAME : ND-10319D USER NAME : FLOPPY-USER

FILE 0: (ND-10319D:FLOPPY-USER)DESCRIPTION-FILE:DESC;1
FILE 4: (ND-10319D:FLOPPY-USER)LINKAGE-LOADER:LINK;1
FILE 5: (ND-10319D:FLOPPY-USER)LINKAGE-LOADER:DSEG;1
FILE 6: (ND-10319D:FLOPPY-USER)LINKAGE-LOADER:PSEG;1

12 OCTOBER 1982

! NORSK DATA!	A/S NORD SOFTWARE LIBRARY PAGE 1 OF 2 PROGRAM DESCRIPTION						
PRODUCT	! NAME ! ND-NUMBER!CATEGORY ! LINKAGE LOADER for ND-500 ! 10319D ! P						
1	! LINKAGE LOADER FOR ND-500 ! 10319D ! P						
<u>!</u> !	! ND-NUMBER FOR SOURCE ! 10350D						
! ISSUED !	DATE 82.08.06 ! BY (INITIALS) JFB						
! COMPUTERS !	. 10 ! . 12 ! . 50 ! . 100! X 500! !						
! INSTR.SET	. 48 BIT FL.! . 32 BIT FL.! . COMMERCIAL!						
! OP.SYSTEM !							
! DOCUMEN- ! TATION	NUMBER: ND-60.136.04						
!	TITLE: ND-500 Loader/Monitor						
! PURPOSE							
! ! ! !	! Load the object-modules which are output from the lang- ! uage processors to segments, and make connections ! between them. It is also a NRF editor.						
! PROGRAMS	PROG.NUMB. NAME TYPE CONTAINING						
! (FILES) ! !!	! 203126D LINKAGE-LOADER Linkage-loader !						

## LOADING/OPERATING PROCEDURE, USE

The ND-500 Linkage-Loader consists of the domain

LINKAGE-LOADER

This domain consists of three files (segments):

LINKAGE-LOADER: PSEG LINKAGE-LOADER: DSEG LINKAGE-LOADER: LINK

This domain must be copied to user SYSTEM:

For new installations:

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!	NORSK DATA	A/S	NORD	SOFT	WARE	LIBRARY		PAGE	2 OF	2	
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!								•			•
!	PRODUCT	! NAME		***	<del></del>			ND-N	UMBE	2	;
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:		! LINKAGE	LUADER	l tor	ND-	000	1	103	19D		1
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For old installations (installations already using the Linkage/ Loader), log in as user SYSTEM:

@ENTER-DIRECTORY ND-10319 <floppy disk name> <unit>

@ND (ND-10319:FLOPPY-USER)LINKAGE-LOADER

ND-linkage-loader - D 1982 Time: 12:19 6. August

Nll entered:

6. August 1982 Time: 12:44

N11: COPY-DOMAIN (ND-10319:FLOPPY-USER)LINKAGE-LOADER &

"LINKAGE-LOADER-D"

The DESCRIPTION-FILE version is too old,

Fatal error on the "DESCRIPTION-FILE"

Do you want to rebuild it(Y/N):Y

DESCRIPTION-FILE

NOT READ AND WRITE ACCESS

The "DESCRIPTION-FILE" will now be initialized

N11: EXIT

@RELEASE-DIRECTORY ND-10319

The ND-500 Linkage-Loader (hereafter called the NLL) runs as a subsystem in the ND-500, and should therefore be defined as a standard domain. This is done in this way (as user SYSTEM):

@ND

ND-500 MONITOR B

MON: DEFINE-STANDARD-DOMAIN LINKAGE-LOADER &

LINKAGE-LOADER

MON: EXIT

Now the NLL should be ready for use. It is useful to get all library segments linked automatically, and all library files loaded automatically when all other loading is finished. This is done as shown below. This is only necessary the first time the NLL is entered under user SYSTEM. Lower case output is from the NLL.

@ND LINKAGE-LOADER

ND-linkage-loader - D 6. August 1982 Time: 12:19

Nll entered: 6. August 1982 Time: 12:54

Nll: SET-DOMAIN "LIBRARY-DOMAIN"

DESCRIPTION-FILE % NB: First

NOT READ AND WRITE ACCESS % time Nll The "DESCRIPTION-FILE" will now be initialized % is called!

N11: OPEN-SEGMENT "FORTRAN-LIB-D", P

N11: SET-SEGMENT-NUMBER 36

N11: ENTRY-ROUTINES 500

N11: LOCAL-TRAP-DISABLE ALL

Nll: SET-IO-BUFFERS 20

N11: TOTAL-SEGMENT-LOAD FORTRAN-LIBRARY

FORTRAN-LIB-D

Program:.....105303 P01 Data:.....44270 D

N11: END-DOMAIN IO-buffer:....50000 D

N11: SET-AUTO-LINK-FILE FORTRAN-LIB-D FORTRAN

N11: SET-AUTO-LOAD-FILE FORTRAN-LIBRARY FORTRAN

Nll: EXIT

For further information (DESCRIPTION-FILE etc.), see the manual ND-60.336.04 (ND-500 Loader/Monitor)

NORSK DAT	A A/S NORD SOFTWARE LIBRARY PAGE 1 OF 2 REVISION LOG
PRODUCT	! NAME ! ND-NUMBER ! LINKAGE LOADER for ND-500 ! 10319D
ISSUED	! DATE 82.08.06 ! BY (INITIALS) JFB
REASON	! X ERROR CORRECTION ! . DIFFERENT ENVIRONMENT ! X CHANGE/ADDITION !
FILES CHANGED OR NEW FILES	! PROG.NUMB. NAME ! 203126D LINKAGE-LOADER !

This version of the LINKAGE-LOADER runs in the ND-500. ND-500-MONITOR version B (or later) is required. Due to the new Micro-program all domains which are loaded with the A/B versions of the NLL must be reloaded! When the first command accessing the DESCRIPTION-FILE is issued, the LINKAGE-LOADER will check it, and give the following message if it is necessary:

The DESCRIPTION-FILE version is to old, Fatal error on the "DESCRIPTION-FILE" Do you want to rebuild it(Y/N):

If a Y is typed, the whole content of the DESCRIPTION-FILE is lost, and a new file is initialized. All domains must then be created, and reloaded.

If a N is typed, the DESCRIPTION-FILE is not re-initiated, and only a subset of the commands are legal. (LIST-DOMAIN, LIST-SEGMENT, WRITE-DOMAIN-STATUS, WRITE-SEGMENT-STATUS)

New commands from the previous version (Linkage-loader-C(82.01.11)):

Errors in the following commands are corrected from the previous version:

COPY-DOMAIN on multi segment domain
RENAME-SEGMENT
Load to a segment with 3 extra common segments will not
give an error message
OMITTED-SEGMENT-LOAD will not occupy space for unloaded
code or data
CC sometimes gave INDEX SCALING ERROR
OUTPUT-FILE

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	NORSK DATA	A/S	NORD	SOFTWA	RELIBRARY		PAGE 2 OF 2	! ! !
!!!!	PRODUCT	! NAME ! LINKAGE !	LOADER	for N	D-500	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	ND-NUMBER 10319D	!

The following commands are changed:

The auto-load and auto-link sequence are now:

- 1. Link local defined segments
- 2. Load local defined files
- 3. Link system defined segments
- 4. Load system defined files

It is possible to use the file-number instead of the symbolic file-name. RESTRICTION: The file must be opened inside the ND-500 monitor (OPEN-FILE in the monitor)! The error message system is improved COPY-DOMAIN <old-domain-name:> <new-domain-name:> RENAME-DOMAIN <old-domain-name:> <new-domain-name:> RENAME-SEGMENT <old-segment-name> <new-segment-name:> CLEAR-DOMAIN on scratch-domain is now allowed DELETE-SEGMENT of scratch segment is also allowed It is possible to expand common-blocks Common-blocks addresses are aligned to even byte addresses The NLL is delivered on segment 22(desimal) A default set of local-trap-handler routines are allways enabled and linked/loaded if FORTRAN is used. Can bee suppressed by executing the command LOCAL-TRAP-DISABLE ALL. default traps are: FLOATING-OVERFLOW and PROGRAMMED-TRAP

## Special facilities to remark:

All list-comands can temporarily be halted by typing any character. Resumed at next character. The "@" sign will abort any list-command in interactive mode!

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