

NORD SOFTWARE LIBRARY DISKETTE

CONTAINING : LINKAGE LOADER FOR ND-500

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

FILE 0 : (ND-10319C:FLOPPY-USER)DESCRIPTION-FILE:DESC;1
FILE 1 : (ND-10319C:FLOPPY-USER)SCRATCH-SEG-01:LINK;1
FILE 2 : (ND-10319C:FLOPPY-USER)SCRATCH-SEG-01:DSEG;1
FILE 3 : (ND-10319C:FLOPPY-USER)SCRATCH-SEG-01:PSEG;1
FILE 4 : (ND-10319C:FLOPPY-USER)SEGMENT-D001-S01:LINK;1
FILE 5 : (ND-10319C:FLOPPY-USER)SEGMENT-D001-S01:DSEG;1
FILE 6 : (ND-10319C:FLOPPY-USER)SEGMENT-D001-S01:PSEG;1

18 JANUARY 1982

PRODUCT	NAME	ND-NUMBER	CATEGORY
	LINKAGE LOADER for ND-500	10319C	P
		ND-NUMBER FOR SOURCE	
		10350C	
ISSUED	DATE	BY (INITIALS)	
	82.01.06	JFB	
COMPUTERS	. 10 ! . 12 ! . 50 ! . 100!	X 500!!
INSTR.SET	. 48 BIT FL.!	. 32 BIT FL.!	. COMMERCIAL!
OP.SYSTEM	X SIN III VS!	. SIN III RT!	. ALONE !
DOCUMENTATION	NUMBER: ND-60.136.03		
	TITLE: ND-500 Loader/Monitor		
PURPOSE	Load the object-modules which is output from the language processors to segments, and make connections between them. It is also a NRF editor.		
PROGRAMS (FILES)	PROG.NUMB.	NAME	TYPE CONTAINING
	203126C	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):

SEGMENT-D001-S01:PSEG
SEGMENT-D001-S01:DSEG
SEGMENT-D001-S01:LINK

This domain must be copied to user SYSTEM:

For new installations:

```
@ENTER-DIRECTORY ND-10319 <floppy disk name> <unit>
@ND (ND-10319:FLOPPY-USER)LINKAGE-LOADER
ND-Linkage-loader - C 11. January 1982
N11: COPY-DOMAIN "LINKAGE-LOADER" &
(ND-10319:FLOPPY-USER)LINKAGE-LOADER
The "DESCRIPTION-FILE" will now be initialized
N11: EXIT
@RELEASE-DIRECTORY ND-10319
```

and, for old installations (installations already using the Linkage-loader):

PRODUCT	NAME	ND-NUMBER
	LINKAGE LOADER for ND-500	10319C

```

@ENTER-DIRECTORY ND-10319 <floppy disk name> <unit>
@ND (ND-10319:FLOPPY-USER)LINKAGE-LOADER
ND-linkage-loader C 11. january 1982
N11: COPY-DOMAIN "LINKAGE-LOADER" &
(ND-10319:FLOPPY-USER)LINKAGE-LOADER
The DESCRIPTION-FILE version is to old,
Fatal error on the "DESCRIPTION-FILE"
Do you want to rebuild it(Y/N):Y
The "DESCRIPTION-FILE" will now be initialized
N11: EXIT
@RELEASE-DIRECTORY ND-10319

```

logged in as user SYSTEM.

The ND-500 Linkage-Loader (hereafter called the NLL) runs as a sub-system 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 C 11. january 1982
N11: SET-DOMAIN "LIBRARY-DOMAIN"
The "DESCRIPTION-FILE" will now be initialized
N11: OPEN-SEGMENT "FORTRAN-LIB-C",P
N11: SET-SEGMENT-NUMBER 36
N11: ENTRY-ROUTINES 500
N11: LOCAL-TRAP-DISABLE ALL
N11: SET-IO-BUFFERS 20
N11: TOTAL-SEGMENT-LOAD FORTRAN-LIBRARY
FORTRAN-LIB-C
Program:.....105303 P01 Data:.....44270 D
N11: END-DOMAIN
IO-buffer:.....50000 D .....147777 D
N11: SET-AUTO-LINK-FILE FORTRAN-LIB-C FORTRAN
N11: SET-AUTO-LOAD-FILE FORTRAN-LIBRARY FORTRAN
N11: EXIT

```

For further information (DESCRIPTION-FILE etc.), see the manual ND-60.136.03. (ND-500 linkage-loader and monitor)

PRODUCT	NAME	ND-NUMBER
	LINKAGE LOADER for ND-500	10319C
ISSUED	DATE	BY (INITIALS)
	82.01.06	JFB
REASON		
	X ERROR CORRECTION	. DIFFERENT ENVIRONMENT
	X CHANGE/ADDITION
FILES	PROG.NUMB.	NAME
CHANGED	203126C	LINKAGE-LOADER
OR NEW		
FILES		

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 is 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 contents 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 reinitiated, 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-B(81.09.07)):

Multi-segment facilities are implemented! (see manual)

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

RENAME-SEGMENT is also renaming the files

The following commands are changed:

SET-IO-BUFFERS is no longer executed automatically, and should only be used if the FORTRAN-LIBRARY is loaded!
CLOSE-SEGMENT Y gives a total load-map on the output-file
A default set of local-trap-handler routines are always enabled and linked/loaded. Can be suppressed by executing the command LOCAL-TRAP-DISABLE ALL.

Special facilities to remark:

All list-commands can temporarily be halted by typing any character. Resumed at next character.
The "0" sign will abort any list-command in interactive mode!