

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

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PROGRAM DESCRIPTION					
PRODUCT	NAME	ND-NUMBER	CATEGORY		
	LINKAGE LOADER for ND-500	10319D	P		
		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	X SIN III VS!	. SIN III RT!	. ALONE	
DOCUMENTATION	NUMBER: ND-60.136.04				
	TITLE: ND-500 Loader/Monitor				
PURPOSE	Load the object-modules which are 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	
	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:

```

@ENTER-DIRECTORY ND-10319 <floppy disk name> <unit>
@ND (ND-10319:FLOPPY-USER)LINKAGE-LOADER
ND-linkage-loader - D      6. August 1982 Time: 12:19
Nll entered:              6. August 1982 Time: 12:37
Nll: COPY-DOMAIN (ND-10319:FLOPPY-USER)LINKAGE-LOADER &
"LINKAGE-LOADER-D"
DESCRIPTION-FILE
NOT READ AND WRITE ACCESS
The "DESCRIPTION-FILE" will now be initialized
Nll: EXIT
@RELEASE-DIRECTORY ND-10319

```

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

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      6. August      1982 Time: 12:19
Nll entered:              6. August      1982 Time: 12:44
Nll: 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
Nll: EXIT
@RELEASE-DIRECTORY ND-10319

```

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 - 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!
Nll: OPEN-SEGMENT "FORTRAN-LIB-D",P
Nll: SET-SEGMENT-NUMBER 36
Nll: ENTRY-ROUTINES 500
Nll: LOCAL-TRAP-DISABLE ALL
Nll: SET-IO-BUFFERS 20
Nll: TOTAL-SEGMENT-LOAD FORTRAN-LIBRARY
FORTRAN-LIB-D
Program:.....105303 P01   Data:.....44270 D
Nll: END-DOMAIN
IO-buffer:.....50000 D      .....147777 D
Nll: SET-AUTO-LINK-FILE FORTRAN-LIB-D   FORTRAN
Nll: SET-AUTO-LOAD-FILE FORTRAN-LIBRARY FORTRAN
Nll: EXIT

```

For further information (DESCRIPTION-FILE etc.), see the manual ND-60.136.04 (ND-500 Loader/Monitor)

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! PRODUCT	! NAME	!	!	! ND-NUMBER	!
!	! LINKAGE LOADER for ND-500	!	!	! 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(decimal)

A default set of local-trap-handler routines are always enabled and linked/loaded if FORTRAN is used. Can be suppressed by executing the command LOCAL-TRAP-DISABLE ALL. New default traps are: FLOATING-OVERFLOW and PROGRAMMED-TRAP

Special facilities to remark:

All list-commands 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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