

ND SOFTWARE LIBRARY DISKETTE

PAGE 1

Containing :  
ND-500 Monitor

Directory Name :  
210333101-XX-01S

User Name : FLOPPY-USER

No	File name	Type	T	Public	Friend	Own	Pages	Bytes
0	ND-500-MONIT-101	PROG	I	RWACD	RWACD	RWACD	125	253370
1	file using 125 pages. 148 pages reserved out of 148 pages.							

ND SOFTWARE LIBRARY DISKETTE

PAGE 1

Containing :  
ND-500 Monitor

Directory Name :  
210333I01-XX-01D

User Name : FLOPPY-USER

No	File name	Type	T	Public	Friend	Own	Pages	Bytes
0	ND-500-MONIT-I01	PROG	I	R	RWACD	RWACD	125	253370
1	file using 125 pages. 610 pages reserved out of 610 pages.							

Date 87.12.09		Norsk Data A.S PROGRAM DESCRIPTION		Page 1 of 5	
Product	Name ND-500 Monitor	Reg. no. 210333I	Category STNP		
Reason	. New product X Change/Addition . Other:		. Error Correction X Different Environment		
Documen- tation	Title SINTRAN III Commands Reference Manual SINTRAN III Release information, K-version		Reg. no. 60.128.5 60.230.4		
Purpose	Control of ND-500 processes				
Prerequi- sites	Computer Type ND-500	Any	Op. system SINTRAN III/VSX	Version 500	Revision K (any WM)
	(ND-100 part of ND-500 must be ND-100/CX)				Reg. no. Source 210349I
File Name ND-500-MONIT-I<rev>	Type PROG	Containing The ND-500 Monitor			

1 NOTE:

<rev> is to be replaced by the current revision of the DIRECTORY or FILE. Revision is found on the "ND SOFTWARE LIBRARY DISKETTE" pages.

2 ERRORS CORRECTED

- Standard break-mode and echo-mode inconsistent with SINTRAN, and is not reset at program termination.
- LOOK-AT destroying pages on files. Writing back wrong blocks.
- Setting segment limits does not work when specified in LINKAGE-LOADER.
- LIST-TABLE N5MSG corrected. Possible to list last message for each process.
- LOOK-AT-CONTROL-STORE errors in disassembling XD-bits in microcode. New revised disassembler supplied.
- TRAP-ENABLE commands using 'all' does not work.
- CRLF missing in LIST-TABLE, TRACK when output to file.
- Problems with LOOK-AT going from patching program to patching data, putting wrong values into addresses.

Product	Name	Reg. no.	Category
	ND-500 Monitor	210333I	STNP

- ECO-levels when no card connected all one gives 85H, detect and print " - "!
- Fatal DTL error.. using macros. (Not reconstructed)  
Macros,- does not accept more than one parameter??! Stack and free data space expanded.
- Illegal character in parameter. Missing "fnutt" in domain-name when calling debugger with default (placed) domain (new domain format only).
- ACCP-PROM version corrected.
- LOOK-AT-SRF fetching wrong contents.

### 3 KNOWN, BUT NOT CORRECTED ERRORS

- LOOK-AT using file, outside-file-page when reading first byte in page after a "file-hole". Suspects filesystem,- only on some patchlevels.
- VALUE-ENTRY gives wrong value +/- . (Not reconstructed)
- NOT KNOWN TRAP ... written when error-answer from micro-program.

### 4 MODIFICATIONS

#### 5 NEW COMMANDS

- ND-5000 LOOK-AT-CONTROL-STORE and LOOK-AT-HARDWARE.
- MONCALL-LOG listing including only those monitor calls that has been used during log-period.
- LOAD-CONTROL-STORE number of words default from 8Kb to 16Kb.
- Trap-information messages for ND-5000.
- ECO levels for ND-5000 in "VERSION"
- New domain format place and define standard domain.
- New domain format list-status command.

Product	Name	Reg. no.	Category
	ND-500 Monitor	210333I	STNP

- Lookat segment-on-file mode for new domain format.
- Possible to change segment in look-at-prog/data in segment-on-file mode by specifying address on other segment. (Not possible to change between prog and data segments.)
- Modifications needed to get new 500-symbolic-debugger working with new domain format.
- Look-at-prog/data/file segment-on-file mode does not open file for write unless "PERMIT" is used.
- Following new commands for ND-5000 tracer:
  - INIT-TRACER
  - ARM-TRACER
  - DISARM-TRACER
  - CLEAR-TRACE-ADDRESS
  - CLEAR-TRACE-MEMORY
  - DUMP-TRACE-MEMORY
  - EXAMINE-TRACE
  - READ-TRACE-FILE
  - WRITE-TRACE-FILE
- MASTER-CLEAR on ND-5000 will perform RESET ACCP and do a full selftest. RESET-CPU will only reset the ND-5000 CPU.
- New command RUN-SELFTEST (ACCP).
- LIST-DOMAINS lists :DOM files together with old domains.
- SET-CPU-AVAILABLE-FOR-AUTOMATIC-ALLOCATION (multi-CPU systems) implemented as SET-CPU-STATUS <CPU-number> <image><save> <status> status may be: avail, unavail, auto-alloc, fixed-alloc
- LOOK-AT-SRF (scratch-register file).
- New domain format, dir:user-name appended for free segments if specified by user in domain name and not specified in segment-name in domain-entry.
- SWAPPING-LOG corrected and changed.
- Error handling for system errors (2000b - series) changed. Uses new mon-64 (new workmode).
- TRAP-ENABLE commands using 'all' enables only user-traps.
- LIST-TABLE process-table, changed for new swapper.
- CACHE-MODE added for ND-5000, - "SMART-IF-GO-PROGRAM".

Product	Name	Reg. no.	Category
	ND-500 Monitor	210333I	STNP

- Trap-messages for ND-5000 changed and slot-number added.
- LOOK-AT on file and domain-file using SEARCH, does not abort when reaching end-of-file or file hole. Message printed.
- LIST-TABLE N5-MSG, changed layout, lists more parameters. NOTE: <rev> is to be replaced by the current revision of the DIRECTORY or FILE. Revision is found on the "ND SOFTWARE LIBRARY DISKETTE" pages.

## 6 REMOVED COMMANDS

- Table search in LIST-TABLE (due to space limitations)
- LIST-TABLE/MATCH-TABLE command from LOOK-AT

## 7 INSTALLATION PROCEDURE

Copy the file ND-500-MONIT-I<rev>:PROG the the user where you keep your :PROG files to be dumped REENTRANT.

```
@ENTER-DIRECTORY↓
DIRECTORY NAME: 210333I<rev>-XX-01↓
DEVICE NAME: FLOPPY-DISK-<drive>,<unit>↓
```

```
@COPY-FILE↓
DESTINATION FILE: "ND-500-MONITOR:PROG"↓
SOURCE FILE: (210333I:FLOPPY-USER)ND-500-MONIT-I:PROG↓
```

```
@DUMP-PROGRAM-REENTRANT↓
NAME: ND-500-MONITOR↓
FILE NAME: (<prog-file-user>)ND-500-MONIT-I N5MOM↓
```

### 7.1 Notes and hints

- Dump the subsystem Monitor as a reentrant subsystem, as demonstrated in the example above, to improve its performance (especially if used by many users at the same time).

You may also define an extra entry point at address 31 for entering the symbolic debugger without first entering the monitor by using the command

```
@DEFINE-REENTRANT-PROGRAM DEBUGGER-500 31 31 N5MON↓
```

Date 87.12.09

Norsk Data A.S  
PROGRAM DESCRIPTION

Page 5 of 5

Product	Name ND-500 Monitor	Reg. no. 210333I	Category STNP
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when the subsystem monitor is installed.

- Remember to update your HENT-MODE file to reflect the changes in the installation procedure.