Product Information

Product name	Product number
Test programs for ND-100/110/120	**210523H**

Norsk Data

Description of product

The product contains the following test programs for the
ND-100/110/120 CPUs, memory systems, and ND-100 type interfaces and
peripherals:

File Name	Type	T	Containing
TPE-MON-100-B<rev>	BPUN	I	Test program monitor
CACHE-1X0-A<rev>	TEST	I	Cache test for ND-1x0 CPUs
COLOUR-TERM-<rev>	TEST	I	NCT / TCTI test program
CONFIGURATIO-D<rev>	TEST	I	Checks HW configuration
DISC-TEMA-I<rev>	TEST	I	Disk utility and test program
DISK-MM-B<rev>	TEST	I	Disk media maintenance program
FLOPPY-STREA-C<rev>	TEST	I	Floppy and streamer test
GRAPHIC-TERM-B<rev>	TEST	I	Verify TDV 2200S graphic functions
HDLC-MEGALIN-D<rev>	TEST	I	HDLC and megalink test program
INSTRUCTION-C<rev>	TEST	I	Verify ND-1x0 CPUs instruction set
LP-TEST-E<rev>	TEST	I	Line printer test program
MAGTAPE-B<rev>	TEST	I	Cipher / Pertec magtape test
MEMORY-D<rev>	TEST	I	Memory test program
NET-ONE-A<rev>	TEST	I	Net/One test program
OCTOBUS-B<rev>	TEST	I	Octobus test program
PAGING-C<rev>	TEST	I	Memory Management test for ND-1x0
PIOC-ETHER-B<rev>	TEST	I	Pioc / Ethernet test program
POWER-FAIL-A<rev>	TEST	I	Power fail and restart test
PRINTERS-B<rev>	TEST	I	Printer test for ND printers
SCSI-TV-C<rev>	TEST	I	SCSI Test and Verification
SYNC-MODEM-B<rev>	TEST	I	Sync modem interface test program
TERMINAL-ASY-F<rev>	TEST	I	Terminal interface test program
UNIVERS-DMA-C<rev>	TEST	I	Universal dma/ Vicom test program

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.

Reason(s) for new product or version

New product   * Error correction
* Change/addition   * Different environment

Product Information

Product name	Product number
Test programs for ND-100/110/120	*210523H*

Table of Contents   Page

1 Prerequisites

The following are <u>required</u> in order to use this product.

1.1 Hardware prerequisites

The following hardware must be present for this product to be used:

<u>CPU type (any of the following)</u>:

- 100 Standard
- 100 CX
- 110 Standard
- 110 CX
- 120 Standard
- 120 CX

Floating format: Any

1.2 Software prerequisites

The following software must be installed on the system for this product to be used:

<u>Operating system</u>:

<u>Name</u>

Stand-alone programs, or
SINTRAN III VSE/VSX

Product Information

Product name	Product number
Test programs for ND-100/110/120	*210523H*

2 Documentation

Included (distributed free with product)

Title	Number
Test Program Description for ND-100/ND-110	*830005.3 EN*
Test Program Description for ND-100/ND-110 - Addendum	*899159.1 EN*

3 Installation procedure

3.1 Loading procedure – stand alone

The machine must be in STOP. Press MASTER CLEAR and type 1560& on the console.

If autoload is not disabled (see description of FLOPPY-MON-H), TPE-MONITOR will start up and give the prompt:

        TPE>

Manual loading:

        FLOPPY-MON-H02
        *LOAD TPE-MON-100

When TPE-MONITOR is started, use the command LOAD-PROGRAM to load the desired program:

·   TPE>LOAD-PROGRAM <progam name>

or just:

        TPE><progam name>

The program is loaded if no error messages appear.

To list the programs available on diskette, use the command LIST-FILES:

        TPE>LIST-FILES <file-name>

Product Information

Product name	Product number
Test programs for ND-100/110/120	*210523H*

3.2 Online installation

The TPE-MONITOR can execute under SINTRAN in different modes.

Installation on-line:

1) Log in under the user where you want to execute the programs.

2) Place the floppy diskette in floppy controller 1 unit 0.

3) Type the command:

   @ENTER-DIRECTORY 210523H FLOPPY-DISC-1 0

4) Start the TPE-MONITOR with the command:

   @LOAD-BINARY (210523H:FLOPPY-USER)TPE-MON-100-B↵

The TPE-MONITOR now starts and you can load the different test programs by using the command LOAD-PROGRAM.

   TPE>LOAD-PROGAM (210523H:FLOPPY-USER)<program name>

Product Information

Product name	Product number
Test programs for ND-100/110/120	**210523H**

Permanent installation in the system can be done like this:

1) Log in as user SYSTEM.

2) Place the floppy diskette in floppy controller 1 unit 0.

3) Type the command:

```
@ENTER-DIRECTORY 210523H FLOPPY-DISC-1 0
```

4) Copy the TPE-MONITOR to the disk by the command COPY-FILE

```
@COPY-FILE
DESTINATION FILE: "TPE-MON-100-B<rev.>:BPUN"
SOURCE FILE: (210523H:FLOPPY-USER)TPE-MON-100-B<rev.>:BPUN
```

5) Dump the TPE-MONITOR by the command DUMP-REENTRANT

```
@DUMP-REENTRANT
NAME: TPE-MON-100-B<rev.>
START ADDRESS: 0
RESTART ADDRESS: 20
FILE-NAME:TPE-MON-100-B<rev.>:BPUN
```

The TPE-MONITOR is now installed. You can start it by typing:

```
@TPE-MON-100
```

The test programs can now be started by using the LOAD-PROGRAM command in the TPE-MONITOR.

```
@TPE-MON-100 <program name>
```

Norsk Data

Product Information

Product name	Product number
Test programs for ND-100/110/120	*210523H*

4 Modifications and errors corrected

4.1 TPE-MON-100-B⟨rev⟩

Errors corrected:

1) After power down - power up, the software clock did not start in several minutes.
2) Error in the UPDAT command's leap year calculation.
3) Reading of panel clock sometimes failed because of insufficient testing of the panel-processor status bits.

4.2 DISK-MM-B⟨rev⟩

Errors corrected:

It is now possible to run the program with 32MB memory available for the ND-1X0 (including MPM5 memory).

4.3 CONFIGURATIO-D⟨rev⟩
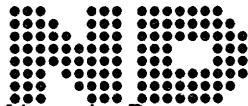
Modifications:

Implemented Floppy/SCSI card 3205.

4.4 FLOPPY-STREA-C⟨rev⟩

Modifications:

- Implemented Floppy/SCSI card 3205.
- The filemark test is removed from the program (the test does not work properly because of an interface-controller error).

Product Information

4.5 POWER-FAIL-A⟨rev⟩

Errors corrected:

- Because of the errors in TPE BOO listed above, clock
  inconsistency was sometimes detected by the power fail test
  program. This resulted in a fatal error message (error code
  100000B) and program abortion.

- In this revision, clock inconsistency will not result in program
  abortion.

4.6 SCSI-TV-C⟨rev⟩

Errors corrected:

It is now possible to run the program with 32MB memory available
for the ND-1XO (including MPM5 memory).

Modifications:

- New products supported by this version:

  NDCDC   94171-9   (WREN IV, 5 1/4" fixed disk)
  Exabyte   8200   (Gigatape system)
  HP   88780   (Magtape)

- Runs under SINTRAN (ver. L) / user SYSTEM.

- Media tests for optical disk are implemented.

5 Errors known but not corrected

See the manual Test Program Description for ND-100/ND-110 - Addendum
(ND-899159.1 EN) for details.

Product Information

Product name Test programs for ND-100/110/120	Product number **210523H**

Norsk Data

6 Where to find the different programs

Programs	Diskette
CACHE-1X0-A<rev>	01D/02S
COLOUR-TERM-A<rev>	01D/04S
CONFIGURATIO-D<rev>	01D/01S
DISC-TEMA-I<rev>	01D/01S
DISK-MM-B<rev>	02D/05S
FLOPPY-STREA-C<rev>	01D/05S
GRAPHIC-TERM-B<rev>	01D/04S
HDLC-MEGALIN-D<rev>	01D/03S
INSTRUCTION-C<rev>	01D/02S
LP-TEST-E<rev>	01D/04S
MAGTAPE-B<rev>	01D/05S
MEMORY-D<rev>	01D/01S
NET-ONE-A<rev>	01D/02S
OCTOBUS-B<rev>	01D/03S
PAGING-C<rev>	01D/02S
PIOC-ETHER-B<rev>	01D/03S
POWER-FAIL-A<rev>	01D/01S
PRINTERS-B<rev>	01D/04S
SCSI-TV-C<rev>	02D/---
SYNC-MODEM-B<rev>	01D/03S
TERMINAL-ASY-F<rev>	01D/01S
UNIVERS-DMA-C<rev>	01D/02S

Note:
SCSI-TV is only available on double sided diskette.