NORD SOFTWARE LIBRARY DISKETTE

CONTAINING

: TEST-PROGRAMS NO.1 FOR ND-10, ND-12 AND ND-100.

DIRECTORY NAME : ND-10324C
USER NAME : FLOFFY-USER

FILE 0: (ND-10324C:FLOFPY-USER)BIG-RAND-1876C:BPUN;1 FILE 1: (ND-10324C:FLOFFY-USER)BIGFUNC-1824J:BFUN;1 FILE 2 : (ND-10324C:FLOFFY-USER)BIMS-1871C:BFUN;1 FILE 3: (ND-10324C:FLOPFY-USER)CONFI-INV-1672M:BFUN;1 FILE 4 : (ND-10324C:FLOFFY-USER)DIMS-1453F:BFUN;1 FILE 5 : (ND-10324C:FLOPFY-USER)DISC-TEMA-B:BPUN;1 FILE 6 : (ND-10324C:FLOFFY-USER)EXTEN-ONE-15198:BPUN;1 FILE 7 : (ND-10324C:FLOFFY-USER)FLOFF-FORM-1990B:BFUN;1 FILE 8 : (ND-10324C:FLOFFY-USER)FLOFFY-RAN-1988B:BFUN;1 FILE 9 : (ND-10324C:FLOFFY-USER)HDLC-2-2370A:BFUN;1 FILE 10 : (ND-10324C:FLOPFY-USER)LF-TEST-1878C:BFUN;1 FILE 11 : (ND-10324C:FLOPPY-USER)MEMORY-A:BPUN;1 FILE 12 : (ND-10324C:FLOFFY-USER)MOVER-1863C:BFUN;1 FILE 13 : (ND-10324C:FLOFFY-USER)MULTI-1820N:BFUN;1 FILE 14 : (ND-10324C:FLOFFY-USER)SUFER-RAND-2222C:BPUN;1 FILE 15 : (ND-10324C:FLOPFY-USER)TANB-MAG-1559F:BFUN:1 FILE 16 : (ND-10324C:FLOFFY-USER)TERMINAL-ASYNC-A:BFUN;1

18 JANUARY 1982

! NORSK DATA!	A/S NORD SOFTWARE LIBRARY PAGE 1 OF 4 PROGRAM DESCRIPTION
PRODUCT ! ! !	NAME ! ND-NUMBER!CATEGORY ! 10324C ! T ! TEST-PROGRAMS No. 1 ! I I I I I I I I I I I I I I I I I I I
! ISSUED	DATE: 15 JANUARY 1982 ! BY (INITIALS) DG
COMPUTERS	X 10 ! X 12 ! 50 ! X 100! 500! !
INSTR.SET	48 BIT FL. 32 BIT FL. COMMERCIAL!
OP.SYSTEM	SIN III VS! SIN III RT! X ALONE!!!!!
DOCUMEN- TATION	NUMBER: ND-30.005.1 ! TITLE: Testprogram description. Vol. 1. !
PURPOSE!	Testprograms for CPU, memory, discs and peripherals.
! .r. ! ! !	PROG.NUMB NAME HAR-1876C BIG-RAND HAR-1824J BIGFUNC HUT-1871C BIMS HUT-1672M CONFI-INV BPUN Checks configuration HUT-1453F DIMS BPUN Utility program 10MB disc HUT-153F DIMS BPUN Utility program 10MB disc BPUN Utility program discs HAR-1519B EXTEN-ONE HUT-1990B FLOPP-FORM HAR-1988B FLOPPY-RAN BPUN BPUN Random test floppy disc. HAR-2370A HDLC-2 HAR-1878C LP-TEST BPUN HDLC testprogram HAR-1863C MOVER HAR-1863C MOVER HAR-1820N MULTI HAR-2222C SUPER-RAND HAR-2222C SUPER-RAND HAR-1559F TANB-MAG BPUN Tandberg tape testprogram PUN Terminal testprogram BPUN Terminal testprogram BPUN Terminal testprogram BPUN Terminal testprogram

LOADING PROCEDURE:

Place floppy in FLoppy Disc Controller 1, Unit 0. Press Master Clear, Type 1560& and LOAD cprogram>.

!!!	NORSK DATA	A/S NORD S	OFTWARE LIBRARY]	PAGE 2 OF	; ; ;
!!!!!!!!!!!!	PRODUCT	! NAME ! TEST-PROGRAMS No ! for ND-10, ND-1 !		!	ND-NUMBER 10324C	

BIG-RAND

Date: 78.05.30 (DG) Boundaries: 0<4000 Start address: 0 Restart address: 20

The test can only be run on Disc System 1. Unit numbers are given as a sequence of numbers (0-7) separated by space, terminated by CR.

Status appears as two words. The first word is the hardware status reg. The upper four bits in the second word have the following meaning:

Bit 12: Seek error.

Bit 13: Core Address Reg. not as expected.

Bit 14: Block Address out of range. Bit 15: Illegal device operation code.

Bit 12-15 all ones: Controller not active after activate.

BIGFUNC

Date: 82.01.15 (DG) Boundaries: 0<32261 Start address: 0 Restart address: 20

Includes the TEST-MONITOR-2441E.

BIMS

Date: 76.08.04 (DG) Boundaries: 20<12637 Start address: 20 Restart address: 40

CONFI-INV

Date: 80.09.08 (PVDV) Boundaries: 0<27640 Start address: 0 Restart address: 20

Includes the TEST-MONITOR-2441B.

DIMS

Date: 81.02.01 (DG) Boundaries: 0<20033 Start address: 0 Restart address: 20

Includes the TEST-MONITOR-2441C.

! ! NORSK DATA A/S !	NORD SOFTWARE LIBRARY		PAGE 3 OF 4	
	ROGRAMS No. 1 D-10, ND-12 and ND-100.	!	ND-NUMBER 10324C	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

DISC-TEMA Date: 82.01.15 (DG) Boundaries: 0<36572 Start address: 0 Restart address: 20

Includes the TEST-MONITOR-2441E.

TYTEN-ONE Date: 77.09.15 (PVDV) Boundaries: 0<4064
Start address: 20 Restart address: 20

Runs ONE-CHECK on levels 1-15.

Location 0432 contains SAT 1 (171001)
Is wanted on the Punch, change to 171003.
Is wanted on the Line-Printer, " 171005.
Is wanted on the Terminal 2, " 171007.

FLOPP-FORM Date: 82.01.15 (SUP) Boundaries: 0<5042 Start address: 20 Restart address: 20

FLOPPY-RAN Date: 82.01.15 (SUP) Boundaries: 0<10600 Start address: 0 Restart address: 20

HDLC-2 Date: 79.06.06 (SUP) Boundaries: 0<17434 Start address: 20 Restart address: 20

See appendix for informations.

LP-TEST Date: 82.01.15 (SUP) Boundaries: 0<21322 Start address: 0 Restart address: 20

Includes the TEST-MONITOR-2441E.

EMORY Date: 82.01.15 (PVDV) Boundaries: 0<35546 Start address: 0 Restart address: 20

Includes the TEST-MONITOR-1441E.

! NORSK DATA A/S	NORD SOFTWARE LIBRARY	F	PAGE 4 OF	7 :
	OGRAMS No. 1 -10, ND-12 and ND-100.	* * * * * * * * * * * * * * * * * * *	ND-NUMBER 10324C	**************************************

MOVER

Date: 77.04.29 (PVDV) Boundaries: 0<2736

Start address: 400 Restart address: None

Self-documenting.

MULTI

Date: 82.01.15 (PVDV) Boundaries: 0<25642

Start address: 0 Restart address: 20

Includes the TEST-MONITOR-2441E.

MULTI may be used to test memory on ND-10 and ND-100.

MULTI reads from DMA-devices in test mode. It should not be necessary to turn off the

disc/drum, but it may be the best.

SUPER-RAND

Date: 79.11.30 (DG) Boundaries: 0<13276 Start address: 20 Restart address: 20

Qualitive read/write/seek test for disc and controller.

`ANB-MAG Date: 79.09.11 (DG) Boundaries: 0<7553 Start address: 20 Restart address: 20

TERMINAL-ASYNC Date: 82.01.15 (SUP) Boundaries: 0<31113

Start address: 0 Restart address: 20

Includes the TEST-MONITOR-2441E.

! NORSK DATA!	A/S NORD SOFTWARE LIBRARY PAGE 1 OF 1 REVISION LOG
PRODUCT	! NAME ! ND-NUMBER ! ND-10324C
! ISSUED	DATE 15 JAN 1982 ! BY (INITIALS) DG
! REASON !	! ERROR CORRECTION ! DIFFERENT ENVIRONMENT ! * CHANGE/ADDITION ! !
! FILES ! CHANGED ! OR NEW ! FILES !	PROG.NUMB. NAME 203396A MEMORY 203198A TERMINAL-ASYNC

Two new programs have been added:

- 1) MEMORY which replaces T4KMOS, T8KMOS, T32KMOS and MPM-MAINT.
- 2) TERMINAL-ASYNC which replaces TTEST.

Two programs have been suppressed:

- 1) GREMS (replaced by DISC-TEMA).
- 2) TTEST (replaced by TERMINAL-ASYNC).

PFAIL and FLOPPY-FU have been moved to TEST PROGRAM NO. 2 (ND-10325B).

MPM-MAINT and T32KMOS have been moved to TEST PROGRAM NO. 3 (ND-10326B).

! MORSK DATA	A/S MORD SOFTWARE REVISION	
PRODUCT	! NAME ! BIGFUNC !	! ND-NUMBER ! 10324C !
! ISSUED	! DATE 82.01.15 !!	EY (INITIALS) DG
! REASON !	ERROR CORRECTION H * CHANGE/ADDITION !	! DIFFERENT ENVIRONMENT !
! FILES ! CHANGED ! OR NEW ! FILES !	PROG.NUMB. NAME HAR-1824J BIGFUNC !	

The I-version of BIGFUNC did not handle the 2-75MB (150MB) discs. The J-version of BIGFUNC does.

The J-version of BIGFUNC includes the E-version of the TEST PROGRAM MONITOR.

! . ! NORSK DATA ! !	A A/S NORD SOFTWARE LIBRARY REVISION LOG	PAGE 1 OF 1
PRODUCT!	! NAME !!! DISC-TEMA !!!	ND-NUMBER 10324C
! ISSUED	! DATE 82.01.15 . ! BY (INITIALS) !) DG
! REASON !	! * ERROR CORRECTION ! DIFFERE ! * CHANGE/ADDITION ! NEW PRO !	ENT ENVIRONMENT CGREAM
! FILES ! CHANGED ! OR NEW ! FILES !	PROG.NUMB. NAME 203134 DISC-TEMA !	!

The following errors have been reported on DISC-TEMA-A:

- i) The command ALIGN does not work properly.
- ii) Only one error within each block is detected.
- iii) When using the commands, SEEK or FORMAT unit 0 must be ready even if it is not used.
 - iv) On Phoenix Discs, errors on the fixed surfaces are reported with a surface number which is 20 to big.
 - v) Errors might be reported on cylinder 1465 and 1466 on 150MB discs(DISC-2-75).
 - vi) If the question DISC AREAS OVERLAP EACH OTHER. OK ? is answered with NO the program goes crazy.

They are all corrected on the B-version.

A new version of the SINTRAN ECC disc driver has been released, the B-version. This new disc driver is improved concerning ECC. The B-version of DISC-TEMA includes this new disc driver.

The B-version of DISC-TEMA includes the E-version of the Test Program Monitor.

! ! NORSK DATA !	A/S NORD SOFTWARE LIBRARY PAGE 1 OF 1 REVISION LOG
PRODUCT	! NAME ! ND-NUMBER ! FLOPP-FORM ! 10324C !
! ISSUED !	DATE 82.01.15 ! BY (INITIALS) SUP
! REASON !	! ERROR CORRECTION ! DIFFERENT ENVIRONMENT ! X CHANGE/ADDITION ! ! !
! FILES ! CHANGED ! OR NEW ! FILES	PROG.NUMB. NAME HUT-1990B FLOPP-FORM !

A new driver for the new floppy controller with double side/double density has been included.

NORSK DATA	A/S NORD SOFTWARE LIBRARY PAGE 1 OF 1 REVISION LOG
PRODUCT	NAME ! ND-NUMBER ! 10324C
ISSUED	DATE 82.01.15 ! BY (INITIALS) SUP
REASON	ERROR CORRECTION ! DIFFERENT ENVIRONMENT ! X CHANGE/ADDITION ! !
FILES ! CHANGED ! OR NEW ! FILES	PROG.NUMB. NAME HAR-1988B FLOPPY-RAN

A new driver for the new floppy controller with double side/double density has been included.

! NORSK DATA	A/S NORD SOFTWARE LIBRARY PAGE 1 OF 1 REVISION LOG
PRODUCT	! NAME ! ND-NUMBER ! 10324C !
! ISSUED	DATE 82.01.15 ! BY (INITIALS) SUP
REASON	! X ERROR CORRECTION ! DIFFERENT ENVIRONMENT ! X CHANGE/ADDITION ! ! !
! FILES ! CHANGED ! OR NEW ! FILES !	PROG.NUMB. NAME HAR-1878C LP-TEST !

Errors have been corrected in the INTERFACE-TEST.

The program now includes the E-version of the Test Program Monitor.

A new command STRESS-BUSY-TEST has been added. This command makes the printer go busy by doing many line-feeds and form-feeds, and only printing one number on each line. Usable if problems with missing characters.

NORSK DATA	A/S NORD SOFTWARE LIBRARY REVISION LOG	Y PAGE 1 OF 1
PRODUCT	! NAME ! MEMORY !	! ND-NUMBER ! 10324C !
! ISSUED	! DATE 15 JAN 1982 ! BY (IN:	ITIALS) PVDV
! REASON !		DIFFERENT ENVIRONMENT NEW PROGRAM
! FILES ! CHANGED ! OR NEW ! FILES	PROG.NUMB. NAME 1 203396A MEMORY !	

The program permits to test systems with non correcting local memory, error correcting local memory and big (N10) multiport memory and it includes a simple "Service Program" which acts upon the multiport error log in order to print the contents of the "Error Log" and to scan the "Port Status". Also is it possible to run one DMA device in test mode, in parallel with the actual memory test. The DMA device can be either a "Small Disc Interface" (device no. 500) or a "Big Disc Interface" (device no. 1540).

! ! NORSK DATA !	A/S NORD SOFTWARE LIBRARY PAGE 1 OF 1 REVISION LOG
!	·
PRODUCT!	! NAME ! ND-NUMBER ! TERMINAL-ASYNC ! 10324C !
! ISSUED	! DATE 82.01.15 ! BY (INITIALS) SUP !
! REASON!!	! ERROR CORRECTION ! DIFFERENT ENVIRONMENT ! CHANGE/ADDITION ! X NEW PROGRAM ! !
! FILES ! CHANGED	! PROG.NUMB. NAME!
! OR NEW ! FILES !	! 203198A TERMINAL-ASYNC ! !

This program substitutes TTEST-1206A and TERMBUF-1751A that will not be valid from now on.

The program can test terminals and all asynchronous interfaces. In addition to DISPLAY-TEST and KEYBOARD-TEST it is possible to SET- and FIND-SPEED on the interface, and to VERFIFY-TERMINAL-SPEED.

The program is capable of running some tests on several devices at the time. Then DEFINE-DEVICE-TABLE has to be used.

The command TRANSLATE gives crossreferance between device number, ident code, logical number and background program for terminals.

NORSK DATA	A/S NORD SOFTWARE LIBRARY PAGE 1 OF 1 REVISION LOG
PRODUCT	! NAME ! ND-NUMBER ! MULTI ! 10324C
ISSUED	! DATE 15 JAN 1982 ! BY (INITIALS) PVDV !
REASON	! * ERROR CORRECTION ! DIFFERENT ENVIRONMENT ! * CHANGE/ADDITION ! !
! FILES ! CHANGED ! OR NEW ! FILES !	PROG.NUMB. NAME HAR-1820N MULTI ! !

An error concerning Memory Out of Range when running DMA transfers in testmode has been corrected.

The program now includes the E-version of the Test Program Monitor.