NORD SOFTWARE LIBRARY DISKETTE

CONTAINING

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

DIRECTORY NAME : ND-10324E USER NAME : FLOPPY-USER

FILE 0: (ND-10324E:FLOPPY-USER)BIG-RAND-1876C:BPUN:1
FILE 1: (ND-10324E:FLOPPY-USER)CONFI-INV-1672N:BPUN:1
FILE 2: (ND-10324E:FLOPPY-USER)DIMS-1453F:BPUN:1
FILE 3: (ND-10324E:FLOPPY-USER)DISC-TEMA-D:BPUN:1
FILE 4: (ND-10324E:FLOPPY-USER)EXTEN-ONE-1519B:BPUN:1
FILE 5: (ND-10324E:FLOPPY-USER)FLOPPY-FORM-1990B:BPUN:1
FILE 6: (ND-10324E:FLOPPY-USER)FLOPPY-RAN-1988B:BPUN:1
FILE 7: (ND-10324E:FLOPPY-USER)HDLC-MEGALINK-A:BPUN:1
FILE 8: (ND-10324E:FLOPPY-USER)HDLC-MEGALINK-A:BPUN:1
FILE 9: (ND-10324E:FLOPPY-USER)MEMORY-B:BPUN:1
FILE 10: (ND-10324E:FLOPPY-USER)MULTI-1820P:BPUN:1
FILE 11: (ND-10324E:FLOPPY-USER)MULTI-1820P:BPUN:1
FILE 13: (ND-10324E:FLOPPY-USER)SUPER-RAND-2222C:BPUN:1
FILE 13: (ND-10324E:FLOPPY-USER)TANB-MAG-1559G:BPUN:1
FILE 14: (ND-10324E:FLOPPY-USER)TERMINAL-ASYNC-B:BPUN:1

PRODUCT	! ND-NUMBER!CATEGORY ! 10324E ! T ! TEST-PROGRAMS No. 1 ! for ND-10, ND-12 and ND-100. ! ND-NUMBER FOR SOURCE ! 10327E
ISSUED	DATE: 1 DEC 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.
PROGRAMS (FILES)	PROG.NUMB NAME HAR-1876C BIG-RAND HUT-1672N CONFI-INV HUT-1453F DIMS 203134D DISC-TEMA HAR-1519B EXTEN-ONE HUT-1990B FLOPPFORM HAR-1988B FLOPPY-RAN HAR-1988B FLOPPY-RAN HAR-1878C LP-TEST HAR-1863C MOVER HAR-1863C MOVER HAR-1820P MULTI HAR-2222C SUPER-RAND HAR-1559G TANB-MAG PUN Random test for big disc BPUN Checks configuration BPUN Utility program 10MB disc BPUN Utility program 10MB disc BPUN Utility program discs BPUN Instruction check BPUN Discette formatting BPUN Random test floppy disc. BPUN HOLC and MEGALINK testprogram BPUN HOLC and MEGALINK testprogram BPUN Memory test program BPUN Memory test program BPUN Memory test program BPUN Random test for discs BPUN Tandberg tape testprogram BPUN Tandberg tape testprogram TERMINAL-ASYNC BPUN Terminal testprogram

LOADING PROCEDURE:

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

NORSK DAT	A A/S	NORD SOFTWARE LIBR	ARY	PAGE 2	OF 4
PRODUCT		ROGRAMS No. 1 D-10, ND-12 and ND-100	.	ND-NUM 1032	

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.

CONFI-INV

Date: 82.09.01 (PVDV) Boundaries: 0<40577 Start address: 0 Restart address: 20

Includes the TEST-MONITOR-2441F and MON-LIBR-2442F

DIMS

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

Includes the TEST-MONITOR-2441C.

DISC-TEMA

Date: 82.12.01 (DG) Boundaries: 0<55113 Start address: 0 Restart address: 20

Includes the TEST-MONITOR-2441F and MON-LIBR-2442F.

EXTEN-ONE

Date: 77.09.15 (PVDV) Boundaries: 0<4065 Start address: 20 Restart address: 20

Runs ONE-CHECK on levels 1-15.

Location 0432 contains SAT 1 (171001)

-- oo Technical Support oo --

PRODUCT !	NAME TEST-PROGRAMS No. 1 for ND-10, ND-12 a		ND-NUMBER 10324E
	Is wanted on the	Line-Pr	change to 171003. inter, " 171005. 1 2, " 171007.
LOPP-FORM	Date: 82.01.15 Start address:	(SUP) 20	Boundaries: 0<5042 Restart address: 20
LOPPY-RAN	Date: 82.01.15 Start address:	(SUP)	Boundaries: 0<10600 Restart address: 20
HDLC-MEGALINK	Start address:	0	Boundaries: 0<31756 Restart address: 20 2441F and MON-LIBR-2442F.
P-TEST	Date: 82.01.15 Start address: Includes the TEST-	0	Boundaries: 0<21322 Restart address: 20 2441E.
EMORY	Start address:	0	Boundaries: 0<41233 Restart address: 20 1441F and MON-LIBR-2442F.
OVER			Boundaries: 0<2737 Restart address: None
ULTI	Start address: Includes the TEST-	MONITOR- to test	Boundaries: 0<25643 Restart address: 20 2441E and MON-LIBR-2442E memory on ND-10 and ND-10

		OGRAMS No.		!		JMBER 324E
!!_	for ND-	-10, ND-12	and ND-1	00. !		
		ald not be rum, but i				
SUPER-RAND		79.11.30 address:			ries: 0<133 t address:	
	Qualiti	ive read/w	rite/seek	test for	r disc and	controller
TANB-MAG					ries: 0<75 t address.	
TERMINAL-ASYNC					ries: 0<32° t address:	
	Include	es the TES	T-MONITOR	R-2441F.		

NORSK DATA	A/S NORD SOFTWAI	
PRODUCT	! NAME ! DISC-TEMA	! ND-NUMBER ! 10324E
ISSUED	DATE 82.12.01	! BY (INITIALS) DG
REASON	# ERROR CORRECTION ! * CHANGE/ADDITION	! DIFFERENT ENVIRONMENT ! NEW PROGREAM
FILES CHANGED OR NEW FILES	PROG.NUMB. NAME 203134D DISC-TEMA	

The D-version of DISC-TEMA includes the F-versions of the TEST-PROGRAM-MONITOR and the MONITOR-LIBRARY.

The following errors have been reported in DISC-TEMA-C:

i) PROGRAM-STATUS:

The command PROGRAM-STATUS does not write the number of retries in the column where this chould be written.

ii) Formatting with track reallocation of tracks on Phoenix discs.: It is not possible to format with track reallocation of tracks on Phoenix discs.

iii) Translate on Phoenix:

When running stand alone, translate does not allow cylinder number above 1464 on Phoenix.

- iv) Formatting with track-allocation, no bad track found: If a disc pack which has never been formatted without trackallocation, is formatted with track allocation, and no bad track are detected, problems occur when using the pack afterwards. I.E. the program tries to use the non-formatted tracks.
- v) Formatting of artificially divided subunits: When artificially divided subunits (2-75MB or 3-75MB) are formatted. The last tracks on the last cylinder is not formatted.
- vi) Use of disc conected to diferent disc controllers:

 If a command which uses both the "FROM" and the "TO" discs are used, and the last specified disc unit does not exist on the "FROM" controller, the program tries to do a RTZ on the not existing disc unit, during the "cleaning up" sequence in the beginning of the command.

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PRODUCT ! NAME ! DISC-	TEMA !	ND-NUMBER 10324E

vii) Function on 38MB disc:

On 38MB disc, the function test uses cylinder 0 for all the tests. Consequently the content on cylinder 0 is destroyed.

viii) Disabling of ECC:

Replying YES to the question: ECC CORRECTION ALLOWED (YES/NO): Does not have any efect.

ix) Error in Sintran disc driver:

An error in the Sintran disc driver had the effect that transfers to or from a reallocated track, were started on the first sector on the track regardless of which sector was specified.

In the D version of DISC-TEMA, all the mentioned errors are corrected.

The D version of DISC-TEMA, has two new features:

PROGRAM-STATUS:

The command PROGRAM-STATUS now also prints the accumulated no of: ECC-corrections, read retries, write retries and marginal recovery.

ii) Varying disc type:

It is also possible to tell the program that different disc types vil be used. This is done by specifying VARYING as disc type. Each command will then ask for the disc type to use. It is now possible to specify the disc type to be varying.

The D version of DISC-TEMA, has one new command:

i) PRIORITY-SELECT:

Priority selects the specifyed disc drive. It remains priority selected until another command which uses the disc drive, is finished. This command is only interesting for configurations with dual port to the disc drive. This command is not executable under sintran.