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5.6 WINCH-TO-FLOPP

This program copies the directory on SATELLITE/ COMPACT computers onto a set of diskettes.

When the program starts, it will ask for disk type. Then the program will ask for a backup date. The user should answer by typing a string of no more than 50 characters. This string will be written to the backup diskettes, and it can be checked later, if the backup is copied back to the disc.

After this the program will tell the user how many pages on the disk that must be saved, and how many diskettes that are needed. The diskettes are of double-side, double-density type. They will be formatted by the backup program if necessary. These diskettes must not be write-protected.

For a full 21 MB disc (SATELLITE/9), 18 diskettes are needed. After this, the program will read disk pages, write them on the diskette, and ask for a new diskette whenever the present one is full. It will tell the user when the last diskette is finished. The diskettes will be numbered from 1. Both the diskette number, the disk directory name, and the backup date, will be written on each diskette. One diskette will be filled in 1.45 minutes.

5.7 FLOPP-TO-WINCH

This program copies the directory backup from a set of diskettes onto the winchester disc on SATELLITE/COMPACT computers.

When the program starts, it will ask for disk type. Then the user will be asked to insert one of the backup diskettes, written earlier by the WINCH-TO-FLOPPY program. Any of the diskettes will do, the sequence is of no importance. The program will then print out the number of the diskette (they are numbered from 1). Then the saved directory name and the backup date will be printed, and the user is asked to confirm that it is the right backup.

After this, the diskettes are read, one after another. Every time a new diskette is entered, its number, the saved directory name, and the backup date, are checked. When all diskettes have been read, the program stops.

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5 SHORT DESCRIPTION

5.1 COP-VERIFY

This program copies pages between mass storage devices.

5.2 DIR-BACKUP

Stand alone backup program for small discs and streamer. The program can be configured and dumped when running under normal SINTRAN.

5.3 MCOPY-TANB

This program copies directories on disc to and from Cipher, Tandberg, Pertec and STC Mag-tape drives.

5.4 FILSYS-INV

This program checks the consistency of a directory, ie. that the structure is correct, pointers to structures within the directory are correct, files do not conflict, the bit file is correct. The program only reads from disc; it diagnoses errors, but does not attempt to correct them.

5.5 FLOPPY-MON

To load a BPUN program into the computer when SINTRAN is not running, the FLOPPY-MONITOR must be present on the diskette.

The FLOPPY-MONITOR is dumped to the diskette by the SINTRAN command:

```
@DEVICE-FUNCTION
FILE NAME: <Floppy Peripheral name>
FUNCTION: DUMP-BOOTSTRAP
BINARY FILE: FLOPPY-MON
```

To use the Floppy-Monitor see Manual ND-30.005.03

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Product	Name SINTRAN III VSE/VSX Utility programs	Reg. no. 210628F	Category STPR

4 LOADING PROCEDURE

4.1 ND-100 & ND-110

When loading from a Single Side/Single Density diskette, choose the one containing the wanted utility. A list of what is included on the diskettes are found on the `ND SOFTWARE LIBRARY DISKETTE' pages. The Double Side/Double Density diskette contains all utilities.

Insert the floppy in floppy device 1, unit 0.

The computer must be in STOP mode. Press MACL (or type MACL in OPCOM) and type "1560&" on the console.

4.2 ND-butterfly OWS model 110 & model 110 teamstation

In the following, underlined words are commands that must be typed by you.

Press the <SYS> key and select MS-DOS from the menu by moving the inverse field to MS-DOS by pressing the ARROW keys. Press RETURN to perform the selection.

When you have entered MS-DOS, move from MS-DOS to the SINTRAN console by typing: C:\>SUPV↵

Give the system password and select the CONSOLE option.

Press: <ALT>+<F2> simultanously to stop SINTRAN III

If the AUTO-flag is set, then press <ALT>+<F4> to reset it.

and then press: <ALT>+<F1> simultanously to do a master clear of the hardware

Place the SINTRAN III VSE/VSX Utility programs diskette in FLOPPY-DISC-1, UNIT 0: (= FLOPPY A)

Type without giving carriage return: 1560$
The Floppy-Monitor will come up with a * as the prompt string. Then it is possible to list the programs on the diskette by typing

*LIST-FILE↵

To load a program, just type the program name or :

*LOAD-FILE <program name>↵

The program will then start.

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3 KNOWN, BUT NOT CORRECTED ERRORS

3.1 Filsys-inv & Mcopy-tanb

- The command "FLOPPY-LOAD" does not work on ND-100 / ND-110
  with "dma" floppy controller (3027) or floppy and streamer
  controller (3106 or 3112). The ND-butterfly floppy system
  is compatible with the 3027 floppy controller. Thus, the
  command will not work for ND-butterfly either. Please use
  the command "STOP-SYSTEM" or "OPCOM" & stop and then type
  "1560&" to reload.

This command allows the user to alter the contents of a disk-page. The first time the command is executed, a warning about the consequences will be printed, and the user is requested to respond by typing "OK" as a password. Page number and location within the page, must be given as octal numbers. The command is similar to the "LOOK-AT" -command in sintran.

Example: (User input is underlined)

>CHANGE-PAGE (cr)
CHANGE-PAGE

To change a page can be quite dangerous if you don't know what you are doing. If you know that, type "OK (cr)" when asked for password.

PASSWORD: OK (cr)

CHANGE-PAGE is similar to OPCOM or LOOK-AT in sintran.
Legal characters are: 0 1 2 3 4 5 6 7 . / CR
All other characters are ignored.
There is no editing, and only the last 6 digits in a number will be accepted.

GIVE PAGE NO. (0-042103): 40000 (cr)
READY:

0/ 000000   (cr)
000001 / 000000   123456 (cr)
000002 / 000000   .
The page has been written back

>

2 CORRECTED ERRORS

2.1 Filsys-inv

- The problem with table overflow for large disks is fixed.

- The message "Error in byte pointer" will not be printed anymore for files of type ":DSEG"

- The problem with SMD disk controller 2 on computers with local memory is fixed. The program will ask for suitable bank number to be used as data buffer.

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Product	Name SINTRAN III VSE/VSX Utility programs	Reg. no. 210628F	Category STPR
Reason	New product x Change/Addition Other:	x Error Correction x Different Environment	
Documen- tation	Title SINTRAN III System Supervisor Test program description for ND-100/110 ND-100 Compact Operator Guide BACKUP User Guide	Reg. no. 30.003.5 EN 30.005.3 EN 30.031.2 EN 60.250.1 EN	
Purpose	Programs to handle mass storage devices offline.		
Prerequi- sites	Computer Type Floating format ND-100 / ND-110 / ND-Butterfly OWS model 110		
Product consists of	MODULE-no. Name	Reg. no. for Source 210629F	

File Name	Type	Containing
COP-VERIFY-J01	BPUN	Page copying between mass storage devices
DIR-BACKUP-D01	BPUN	Backup Disc/Streamer.
FILSYS-INV-Q03	BPUN	Checks/updates directory
FLOPP-TO-WIN-E00	BPUN	Floppy to Disc copying.
FLOPPY-MON-H01	BPUN	Loads BPUN programs stand alone
MCOPY-TANB-P03	BPUN	Tape to/from Disk copying.
WINCH-TO-FLO-E00	BPUN	Disc to Floppy copying.

This product is delivered on either 2 0.3 Mbytes floppy disks or on 1 1.2 Mbytes floppy disk.

1 MODIFICATIONS

1.1 New disks for ND-Butterfly

New disks for ND-Butterfly OWS model 110 & model 110 teamstation are supported by the following programs:

    COP-VERIFY, FILSYS-INV, WINCH-TO-FLOPP and FLOPP-TO-WINCH.

 The new disk names and types are:

    DISC-36M-C : NEC-D5146H or CDC-94205-51
    DISC-36M-D :   "   or   "

1.2 New command in FILSYS-INV

A new command is available in FILSYS-INV. The command name is:

        CHANGE-PAGE <page number> <word>

4

Program:　　FILSYS-INV-Q04
Title:　　　New disk types for ND-Butterfly.
　　　　　　Check of extended Directory Entry.

- -

1.　New Disks for ND-Butterfly.
　　Two new disk types for ND-Butterfly OWS model 110 &
　　model 110 Teamstation are now supported. The new disk
　　names are:
　　　　　　　　　　DISC-49MB
　　　　　　　　　　DISC-77MB

2.　Extended directory entry for Sintran-III.
　　The Directory Entry has been expanded with 8 words.
　　The words are defined as follows:

Word no.	Interpretation
0	Checksum of the next 7 words.
1	Reserved for future expansion.
2	- " -
3	- " -
4	Directory entered by Remote system. (Bit 15)
5	Remote system CPU number.
6	Pages available, MSW.
7	Pages available, LSW.

FILSYS-INV will now check words 6 & 7 against Directory
Lenght in the mass storage Name Table. If the values
does not match, an error message will be printed.

15.10.1987

ND SOFTWARE LIBRARY DISKETTE

Containing :
SINTRAN III VSE/VSX
Utility programs

Directory Name :
210628F01-XX-01D

User Name : **FLOPPY-USER**

No	File name	Type	T	Public	Friend	Own	Pages	Bytes
0	COP-VERIFY-J01	BPUN	I	R	R	R	14	25590
1	DIR-BACKUP-D01	BPUN	I	R	R	R	59	117168
2	FILSYS-INV-Q04	BPUN	I	R	RWACD	RWACD	26	50870
3	FLOPPY-MON-H01	BPUN	I	R	R	R	4	4332
4	FLOPP-TO-WIN-E00	BPUN	I	R	R	R	27	51796
5	MCOPY-TANB-P03	BPUN	I	R	R	R	24	36678
6	WINCH-TO-FLO-E00	BPUN	I	R	R	R	24	46082

7   files using 178   pages.   610 pages reserved out of 610 pages.

2

ND SOFTWARE LIBRARY DISKETTE

Containing :
SINTRAN III VSE/VSX
Utility programs

Directory Name :
210628F01-XX-02S

User Name : **FLOPPY-USER**

No	File name	Type	T	Public	Friend	Own	Pages	Bytes
0	**FLOPP-TO-WIN-E00**	BPUN	I	R	R	R	27	51796
1	**MCOPY-TANB-P03**	BPUN	I	R	R	R	24	36678
2	**WINCH-TO-FLO-E00**	BPUN	I	R	R	R	24	46082

3   files using   75   pages.   148 pages reserved out of 148 pages.

ND SOFTWARE LIBRARY DISKETTE

Containing :
SINTRAN III VSE/VSX
Utility programs

User Name : **FLOPPY-USER**

No	File name	Type	T	Public	Friend	Own	Pages	Bytes
0	COP-VERIFY-J01	BPUN	I	R	R	R	14	25590
1	DIR-BACKUP-D01	BPUN	I	R	R	R	59	117168
2	FILSYS-INV-Q04	BPUN	I	R	RWACD	RWACD	26	50870
3	FLOPPY-MON-H01	BPUN	I	R	R	R	4	4332

4   files using 103   pages.   148 pages reserved out of 148 pages.