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| <p data-bbox="268 548 715 586">1. PACKAGE NUMBER</p> <p data-bbox="288 613 384 642">SW2020</p> <p data-bbox="268 696 660 734">2. PACKAGE NAME</p> <p data-bbox="288 761 517 790">RC3502 File System</p> <p data-bbox="268 844 520 882">3. RELEASE</p> <p data-bbox="288 909 424 938">1.0,89.06.21</p> <p data-bbox="268 992 544 1030">4. ABSTRACT</p> <p data-bbox="284 1057 1425 1245">The package contains the programs comprising the RC3502 File System and the RC3502 File Processor acting as a disc operating system with operator commands. The package also holds a program LOOKWD, which enables similar operations from a PAXNET NMC. Furthermore the package holds a number of utility programs for manipulation of binary RC3502/2 Real-Time Pascal object programs. The programs must be transferred from RC8000 to a Winchester Disc on an RC3502 observing some installation demands.</p> <p data-bbox="268 1294 647 1332">5. PREREQUISITES</p> <p data-bbox="284 1359 376 1388">RC8000</p> <p data-bbox="284 1415 475 1444">RC3502 Model 2</p> <table data-bbox="284 1462 1023 1688"> <tr> <td data-bbox="284 1462 721 1491">Basis System Package</td> <td data-bbox="740 1462 1023 1491">(SW8001/1 or SW8001/2)</td> </tr> <tr> <td data-bbox="284 1509 721 1538">System Utility Package</td> <td data-bbox="740 1509 871 1538">(SW8010/2)</td> </tr> <tr> <td data-bbox="284 1556 721 1585">RC3502/2 Operating System Package</td> <td data-bbox="740 1556 948 1585">(SW2001/2 rel 4.0)</td> </tr> <tr> <td data-bbox="284 1603 721 1632">PAXNETPAXOPSYS</td> <td data-bbox="740 1603 874 1632">version 2.26.</td> </tr> <tr> <td data-bbox="284 1650 721 1680">PAXNET EM ROUTINES</td> <td data-bbox="740 1650 863 1680">version 2.3.</td> </tr> </table> | | | Basis System Package | (SW8001/1 or SW8001/2) | System Utility Package | (SW8010/2) | RC3502/2 Operating System Package | (SW2001/2 rel 4.0) | PAXNETPAXOPSYS | version 2.26. | PAXNET EM ROUTINES | version 2.3. |
| Basis System Package | (SW8001/1 or SW8001/2) | | | | | | | | | | | |
| System Utility Package | (SW8010/2) | | | | | | | | | | | |
| RC3502/2 Operating System Package | (SW2001/2 rel 4.0) | | | | | | | | | | | |
| PAXNETPAXOPSYS | version 2.26. | | | | | | | | | | | |
| PAXNET EM ROUTINES | version 2.3. | | | | | | | | | | | |

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| <p>6. DOCUMENTATION</p> <p>The following manuals are collected in SW2020-D:</p> <p>6.1 PN: 99001171</p> <p>RC3502 LOCAL FILE SYSTEM ACCESS METHOD, Reference Manual</p> <p>This manual describes a routine library for manipulation of directories and files from a Real-Time Pascal program establishing a UNIX like access method.</p> <p>(To appear)</p> <p>6.2 PN: 99001172</p> <p>RC3502 File Processor, User's Guide</p> <p>This manual describes the user interface to the RC3502 File Processor. The RC3502 FP establishes a disc operating system with operator commands and a program interface for execution of programs under control of RC3502 FP.</p> <p>(To appear)</p> <p>6.3 PN: 99000761</p> <p>RC-FS File System Nucleus, Reference Manual</p> <p>This is the reference manual for the RC-FS (File System) nucleus as implemented on the RC3502 computer.</p> | | |

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7. INSTALLATION

The package is delivered on a 9-track magnetic tape.

The files on the tape are loaded on RC8000.

For every XXX the object files XXXFTS and XXXPLIB or BXXX contain the same object programs. The entries XXXPLIB or BXXX have a format, intended for installation on RC3502 disc via FPA by means of the RC3502 FP program GETFPA. The entries XXXFTS have a format, intended for installation on RC3502 disc via FTS by means of the RC3502 FP program FTS.

The files must be transferred one by one to an RC3502 Winchester Disc described in a catalog with name SYSTEM, directly under the ROOT catalog, or in a user catalog. The RC3502 File Processor takes the SYSTEM catalog, if a file is not found in the current catalog (CURCAT).

All the entries, BXXX, XXXPLIB, or XXXFTS, should be installed under the entry name XXX in the SYSTEM catalog.

The requirements of the package in segments and entries on RC8000 are given in section 8.

7.1 Installation from Magnetic Tape

The tape is arranged as follows:

| File No. | Contents | Format |
|----------|------------------------|---------------|
| 0 | label | text |
| 1 | package identification | text |
| 2 | job to load file 4 | text |
| 3 | job to load file 5 | text |
| 4 | programs | save13/load13 |
| 5 | libfile | save13/load13 |

File No. 1 is in text format and may be inspected by the utility program copy, e.g.:

```
t = set mto mtsw2020 0 1
copy list.yes message.no t
```

File No. 2 is a textfile, which contains a standard job with fp-commands to load the package, and it may be inspected in a similar manner.

The package files on file 4 are loaded by means of the job in this way:

```
t = set mto mtsw2020 0 2
i t
```

The libfile on file 5 are loaded by means of the job in this way (cf. 8.2):

```
t = set mto mtsw2020 0 3
i t
```

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8. ENTRY SURVEY

8.1 Entries on File 4

Installation of the package files on file 4 creates the following permanent entries:

| | | | |
|-------------|----|-----------|---------------|
| bcompare | 9 | user.disc | d.890621.0100 |
| bcorrect | 9 | user.disc | d.890621.0100 |
| bfsformat | 20 | user.disc | d.890621.0100 |
| bfts | 19 | user.disc | d.890621.0100 |
| bgetfpa | 8 | user.disc | d.890621.0100 |
| blist | 8 | user.disc | d.890621.0100 |
| bplib | 20 | user.disc | d.890621.0100 |
| bprint | 7 | user.disc | d.890621.0100 |
| btypein | 4 | user.disc | d.890621.0100 |
| fp3502env | 1 | user.disc | d.890621.0100 |
| fp3502plib | 35 | user.disc | d.890621.0100 |
| fs3502env | 7 | user.disc | d.890621.0100 |
| fs3502plib | 75 | user.disc | d.890621.0100 |
| fsm3502env | 3 | user.disc | d.890621.0100 |
| fsuserplib | 15 | user.disc | d.890621.0100 |
| lf3502env | 7 | user.disc | d.890621.0100 |
| lf3502plib | 54 | user.disc | d.890621.0100 |
| tfp3502env | 1 | user.disc | d.890621.0100 |
| tfs3502env | 10 | user.disc | d.890621.0100 |
| tlf3502env | 22 | user.disc | d.890621.0100 |
| tfs | 12 | user.disc | d.890621.0100 |
| lookwdplib | 11 | user.disc | d.890621.0100 |
| comparefts | 8 | user.disc | d.890621.0100 |
| correctfts | 7 | user.disc | d.890621.0100 |
| fsformatfts | 15 | user.disc | d.890621.0100 |
| ftsfts | 14 | user.disc | d.890621.0100 |
| getfpafts | 7 | user.disc | d.890621.0100 |
| listfts | 6 | user.disc | d.890621.0100 |
| plibfts | 15 | user.disc | d.890621.0100 |
| printfts | 6 | user.disc | d.890621.0100 |
| typeinfts | 4 | user.disc | d.890621.0100 |
| fp3502fts | 25 | user.disc | d.890621.0100 |
| fs3502fts | 51 | user.disc | d.890621.0100 |
| fsuserfts | 11 | user.disc | d.890621.0100 |
| lf3502fts | 38 | user.disc | d.890621.0100 |
| lookwdfts | 8 | user.disc | d.890621.0100 |

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| <p>For every XXX the text files TXXXENV and XXXENV are essentially the same. The files XXXENV are compressed versions of the files TXXXENV. It is recommended to use the files XXXENV for compilation in order to save compilation time and the files TXXXENV for manual printout.</p> <p>For every XXX the object files XXXFTS and XXXPLIB or BXXX contain the same object programs. The entries XXXPLIB or BXXX have a format, intended for load via FPA by means of the CRC16 program. The entries XXXFTS have a format, intended for load via FTS on RclAN.</p> <p>LF3502ENV is the user environment for the RC3502 Local File Access Method. This access method is available for all processes, independent of the RC3502 File Processor, FP.</p> <p>Programs utilising the RC3502 Local File Access Method must be compiled like:</p> <p style="padding-left: 40px;"><outfile> = rtp35022 ioenv lf3502env <infile></p> <p>LF3502PLIB is the routine library realising the RC3502 Local File Access Method.</p> <p>FP3502PLIB contains the RC3502 File Processor, which runs as a command interpreter. FP may run under the ADAM process.</p> <p>Programs indented for running under FP must be compiled like:</p> <p style="padding-left: 40px;"><outfile> = rtp35022 fp3502env <infile></p> <p>FS3502ENV is the user environment for the blockoriented access method.</p> <p>FSUSERPLIB and</p> <p>FS3502PLIB contain the routine library and the file system kernal. The files are configured for one RC3563 SCSI Channel Adaptor and two discs. Reconfiguration is done by changing the environment FSM3502ENV and compiling the file TFS with the new FSM3502ENV. The resulting object file should be inserted in the file FS3502PLIB.</p> <p>LOOKWD is a program with LCP, which enables a number of file and catalog operations from a PAXNET NMC.</p> | | |

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The following entries contain some utility programs running under FP. As a general rule, the programs print the call syntax, if called with no parameters.

- PLIB** is a utility program for manipulation of RTP3502 object programs. The program may be called in different modes, PLIB.INSERT, PLIB.LOOKUP, PLIB.IMAGE, PLIB.EXTRACT, or PLIB.DELETE.
- COMPARE** prints the differences between two files.
- CORRECT** may update any byte position of a file.
- FTS** takes a file from an FTS Server via RcLAN, and places the file in the current catalog.
- GETFPA** takes a file from RC8000 via an FPA100, and places the file in the current catalog.
- LIST** prints the contents of a file as text.
- PRINT** prints the contents of a file as hexa decimal bytes and text.
- TYPEIN** may be used for primitiv data entry of text to a text file.
- FSFORMAT** is the program used for logical and physical formatting of an RC3502 Winchester Disc.

| *pliblookup bcompare | | | | | |
|----------------------|---------|---------|-----------------|---------|-------|
| nr | kind | name | object date | version | bytes |
| 1 | PROGRAM | compare | 1989.01.2009.49 | 1.3 | 3236 |
| end | | | | | |

| *pliblookup bcorrect | | | | | |
|----------------------|---------|---------|-----------------|---------|-------|
| nr | kind | name | object date | version | bytes |
| 1 | PROGRAM | correct | 1989.01.2009.54 | 1.3 | 2850 |
| end | | | | | |

| *pliblookup bfsformat | | | | | |
|-----------------------|---------|----------|-----------------|---------|-------|
| nr | kind | name | object date | version | bytes |
| 1 | PROGRAM | fsformat | 1987.10.1408.37 | 2.11 | 6480 |
| end | | | | | |

| *pliblookup bfts | | | | | |
|------------------|---------|------|------------------|---------|-------|
| nr | kind | name | object date | version | bytes |
| 1 | PROGRAM | fts | 1988.06.01 14.39 | 2.21 | 6014 |
| end | | | | | |

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| *pliblookup bgetfpa | | | | | |
| nr | kind | name | object date | version | bytes |
| 1 | PROGRAM | getfpa | 1987.06.09 14.14 | 1.7 | 2314 |
| end | | | | | |
| *pliblookup blist | | | | | |
| nr | kind | name | object date | version | bytes |
| 1 | PROGRAM | list | 1987.06.09 23.34 | 1.2 | 2552 |
| end | | | | | |
| *pliblookup bplib | | | | | |
| nr | kind | name | object date | version | bytes |
| 1 | PROGRAM | plib | 1989.01.31 11.19 | 1.13 | 6366 |
| end | | | | | |
| *pliblookup bprint | | | | | |
| nr | kind | name | object date | version | bytes |
| 1 | PROGRAM | print | 1987.06.09 14.22 | 1.7 | 2160 |
| end | | | | | |
| *pliblookup btypein | | | | | |
| nr | kind | name | object date | version | bytes |
| 1 | PROGRAM | typein | 1987.06.10 00.01 | 1.2 | 1000 |
| end | | | | | |
| *pliblookup fp3502plib | | | | | |
| nr | kind | name | object date | version | bytes |
| 1 | PROGRAM | fp | 1988.10.14 08.19 | 1.14 | 10504 |
| 2 | PROCEDURE | fp_halt | 1988.10.14 08.19 | 1.14 | 226 |
| 3 | FUNCTION | odd | 1988.10.14 08.19 | 1.14 | 110 |
| 4 | PROCEDURE | fp_replace | 1988.10.14 08.19 | 1.14 | 238 |
| 5 | FUNCTION | fp_system | 1988.10.14 08.19 | 1.14 | 300 |
| end | | | | | |

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*pliblookup fs3502plib

| nr | kind | name | object date | version | bytes |
|-----|---------|-----------|------------------|---------|-------|
| 1 | PROGRAM | dsm | 1988.12.16 09.07 | 2.6 | 3400 |
| 2 | PROGRAM | fosm | 1987.08.25 22.10 | 0.0 | 2478 |
| 3 | PROGRAM | bfs | 1987.08.25 22.12 | 2.3 | 4812 |
| 4 | PROGRAM | lfs | 1987.08.25 22.15 | 2.4 | 4624 |
| 5 | PROGRAM | fs | 1988.10.11 11.02 | 0.0 | 3040 |
| 6 | PROGRAM | saidriver | 1987.08.25 22.24 | 1.4 | 3978 |
| 7 | PROGRAM | fsevent | 1987.10.13 13.33 | 0.0 | 5164 |
| end | | | | | |

*pliblookup fsuserplib

| nr | kind | name | object date | version | bytes |
|-----|-----------|--------------|------------------|---------|-------|
| 1 | PROCEDURE | fs_mount | 1987.08.25 22.16 | 0.0 | 360 |
| 2 | PROCEDURE | fs_dismount | 1987.08.25 22.16 | 0.0 | 244 |
| 3 | PROCEDURE | fs_connect | 1987.08.25 22.16 | 0.0 | 280 |
| 4 | PROCEDURE | fs_disconnec | 1987.08.25 22.16 | 0.0 | 174 |
| 5 | PROCEDURE | fs_lookup | 1987.08.25 22.16 | 0.0 | 256 |
| 6 | PROCEDURE | fs_open | 1987.08.25 22.16 | 0.0 | 238 |
| 7 | PROCEDURE | fs_close | 1987.08.25 22.16 | 0.0 | 168 |
| 8 | PROCEDURE | fs_get | 1987.08.25 22.16 | 0.0 | 212 |
| 9 | PROCEDURE | fs_put | 1987.08.25 22.16 | 0.0 | 212 |
| 10 | PROCEDURE | fs_create | 1987.08.25 22.16 | 0.0 | 228 |
| 11 | PROCEDURE | fs_delete | 1987.08.25 22.16 | 0.0 | 194 |
| 12 | PROCEDURE | fs_link | 1987.08.25 22.16 | 0.0 | 272 |
| 13 | PROCEDURE | fs_rename | 1987.08.25 22.16 | 0.0 | 218 |
| 14 | PROCEDURE | fs_extend | 1987.08.25 22.16 | 0.0 | 202 |
| 15 | PROCEDURE | fs_truncate | 1987.08.25 22.16 | 0.0 | 202 |
| 16 | PROCEDURE | fs_set_autho | 1987.08.25 22.16 | 0.0 | 180 |
| 17 | PROCEDURE | fs_set_inher | 1987.08.25 22.16 | 0.0 | 180 |
| 18 | PROCEDURE | fs_set_prote | 1987.08.25 22.16 | 0.0 | 180 |
| 19 | PROCEDURE | fs_set_tail | 1987.08.25 22.16 | 0.0 | 234 |
| 20 | PROCEDURE | fs_lfscomm | 1987.08.25 22.16 | 0.0 | 162 |
| 21 | FUNCTION | fs_thisime | 1987.08.25 22.16 | 0.0 | 118 |
| 22 | FUNCTION | fs_hash | 1987.08.25 22.16 | 0.0 | 160 |
| 23 | FUNCTION | fs_nameindex | 1987.08.25 22.16 | 0.0 | 196 |
| 24 | PROCEDURE | fsouterror | 1987.12.17 15.46 | 0.0 | 782 |
| end | | | | | |

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```
*pliblookup lf3502plib
```

| nr | kind | name | object date | version | bytes |
|-----|-----------|--------------|-----------------|---------|-------|
| 1 | PROGRAM | lf3502 | 1989.06.2000.31 | 2.18 | 9812 |
| 2 | PROCEDURE | lf_close | 1989.06.2000.31 | 2.18 | 278 |
| 3 | PROCEDURE | lf_common | 1989.06.2000.31 | 2.18 | 146 |
| 4 | PROCEDURE | lf_create | 1989.06.2000.31 | 2.18 | 200 |
| 5 | PROCEDURE | lf_delete | 1989.06.2000.31 | 2.18 | 174 |
| 6 | PROCEDURE | lf_deselect | 1989.06.2000.31 | 2.18 | 146 |
| 7 | PROCEDURE | lf_disable | 1989.06.2000.31 | 2.18 | 128 |
| 8 | PROCEDURE | lf_enable | 1989.06.2000.31 | 2.18 | 128 |
| 9 | FUNCTION | lf_eof | 1989.06.2000.31 | 2.18 | 296 |
| 10 | PROCEDURE | lf_extend | 1989.06.2000.31 | 2.18 | 188 |
| 11 | PROCEDURE | lf_flush | 1989.06.2000.31 | 2.18 | 234 |
| 12 | PROCEDURE | lf_init | 1989.06.2000.31 | 2.18 | 414 |
| 13 | FUNCTION | lf_ioreult | 1989.06.2000.31 | 2.18 | 126 |
| 14 | FUNCTION | lf_length | 1989.06.2000.31 | 2.18 | 282 |
| 15 | PROCEDURE | lf_link | 1989.06.2000.31 | 2.18 | 190 |
| 16 | PROCEDURE | lf_lookup | 1989.06.2000.31 | 2.18 | 238 |
| 17 | PROCEDURE | lf_offset | 1989.06.2000.31 | 2.18 | 132 |
| 18 | PROCEDURE | lf_open | 1989.06.2000.31 | 2.18 | 448 |
| 19 | FUNCTION | lf_position | 1989.06.2000.31 | 2.18 | 362 |
| 20 | FUNCTION | lf_readblock | 1989.06.2000.31 | 2.18 | 288 |
| 21 | PROCEDURE | lf_readbyte | 1989.06.2000.31 | 2.18 | 200 |
| 22 | PROCEDURE | lf_readinteg | 1989.06.2000.31 | 2.18 | 252 |
| 23 | PROCEDURE | lf_rename | 1989.06.2000.31 | 2.18 | 190 |
| 24 | PROCEDURE | lf_reset | 1989.06.2000.31 | 2.18 | 120 |
| 25 | PROCEDURE | lf_rewrite | 1989.06.2000.31 | 2.18 | 218 |
| 26 | PROCEDURE | lf_seek | 1989.06.2000.31 | 2.18 | 590 |
| 27 | PROCEDURE | lf_select | 1989.06.2000.31 | 2.18 | 192 |
| 28 | PROCEDURE | lf_set_autho | 1989.06.2000.31 | 2.18 | 190 |
| 29 | PROCEDURE | lf_set_inher | 1989.06.2000.31 | 2.18 | 190 |
| 30 | PROCEDURE | lf_set_mode | 1989.06.2000.31 | 2.18 | 440 |
| 31 | PROCEDURE | lf_set_prote | 1989.06.2000.31 | 2.18 | 190 |
| 32 | PROCEDURE | lf_set_tail | 1989.06.2000.31 | 2.18 | 204 |
| 33 | PROCEDURE | lf_test | 1989.06.2000.31 | 2.18 | 160 |
| 34 | PROCEDURE | lf_truncate | 1989.06.2000.31 | 2.18 | 190 |
| 35 | FUNCTION | lf_writebloc | 1989.06.2000.31 | 2.18 | 352 |
| 36 | PROCEDURE | lf_writebyte | 1989.06.2000.31 | 2.18 | 322 |
| 37 | PROCEDURE | lf_writeinte | 1989.06.2000.31 | 2.18 | 356 |
| end | | | | | |

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| *pliblookup lookwdplib | | | | | |
|------------------------|---------|--------|------------------|---------|-------|
| nr | kind | name | object date | version | bytes |
| 1 | PROGRAM | lookwd | 1989.06.29 12.38 | 0.0 | 3448 |
| end | | | | | |

8.2 Entries on File 5

The package file on file 5 are intended for RC8000 installations with the LIB utility program. All the Real-Time Pascal programs comprising the RC3502/2 Real-Time Pascal System are collected in one file 'libsw2020'.

| *liblist.libsw2020 | |
|--------------------|---------------|
| libsw2020 | d.890621.0100 |
| antal filer = | 37 |
| max. antal filer = | 45 |
| størrelse af lib = | 672 |
| | |
| bcompare | d.890621.0100 |
| bcorrect | d.890621.0100 |
| bfsformat | d.890621.0100 |
| bfts | d.890621.0100 |
| bgetfpa | d.890621.0100 |
| blist | d.890621.0100 |
| bplib | d.890621.0100 |
| bprint | d.890621.0100 |
| btypein | d.890621.0100 |
| comparefts | d.890621.0100 |
| correctfts | d.890621.0100 |
| deslookwd | d.890621.0100 |
| fp3502env | d.890621.0100 |
| fp3502fts | d.890621.0100 |
| fp3502plib | d.890621.0100 |
| fs3502env | d.890621.0100 |
| fs3502fts | d.890621.0100 |
| fs3502plib | d.890621.0100 |
| fsformatfts | d.890621.0100 |
| fsm3502env | d.890621.0100 |
| fsuserfts | d.890621.0100 |
| fsuserplib | d.890621.0100 |
| ftsfts | d.890621.0100 |
| getfpafsts | d.890621.0100 |
| lf3502env | d.890621.0100 |
| lf3502fts | d.890621.0100 |
| lf3502plib | d.890621.0100 |
| listfts | d.890621.0100 |
| lookwdfts | d.890621.0100 |

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```

libsw2020 d.890621.0100 (cont)
  lookwdplib      d.890621.0100
  plibfts         d.890621.0100
  printfts       d.890621.0100
  tfp3502env     d.890621.0100
  tfs            d.890621.0100
  tfs3502env     d.890621.0100
  tlf3502env     d.890621.0100
  typeinfts      d.890621.0100
end 40

```

The file DESLOOKWD is generated by the program DESDUMP, and contains descriptions of LCP operations for the LOOKWD module. The file is intended for an RC8000, which runs the NMC8000 Network Management System. The file may be installed by the program DESLOAD.

9. VERIFICATION

Entries inspected by lookup and pliblookup will show the release date as listed above in the entry surveys.

10. CHANGES

None, because this is the first released version.

11. STATUS

11.1 Known Errors

- PROBLEM 1:** Sharing of one disc by multiple RC3502 seems to hang up the SCSI bus, when WD1002 disc controllers are used.
- PROBLEM 2:** Disc parameters are not supplied to the WD1002 disc controller, when a CU issues a SCSI RESET. Further operations on the disc generates an Fsevent 'Illegal disk address'.
The file system must be restarted.
- PROBLEM 3:** Slices disappear after long term usage of the file system.
The discs must be reformatted by the FSFORMAT program for repairment.
- PROBLEM 4:** When volume limit is reached during automatic file extension, an internal looping starts in the program DSM in the File System Nucleus.
The File System Nucleus must be restarted.