

Directory Handling

Copying and deleting whole directories on the HP-28S

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COPY · DEL · CPYDR · DELDR · GODR

THE MANUAL

These programs are to be used to copy and delete entire directories. The programs will operate on directories regardless of how many files or subdirectories are within the specified directory.

The programs COPY and DEL are the actual programs to be executed. CPYDR, DELDR, and GODR are called automatically during the copy and delete processes.

To execute COPY, the { SOURCE PATH }, { TARGET PATH }, and new directory name must be entered on the stack in that order:

```
3:  { SOURCE PATH }
2:  { TARGET PATH }
1:  'NEW DIR NAME'
```

To execute DEL, only the directory-to-be-deleted's path must be entered on the stack:

```
3:
2:
1:  { DIRECTORY PATH }
```

THE PROGRAMS

```
COPY
« 'CPYDR' DUP RCL SWAP 'GODR' DUP RCL SWAP HOME STO STO
  CPYDR HOME 'CPYDR' PURGE 'GODR' PURGE
»

DEL
« 'DELDLDR' DUP RCL SWAP 'GODR' DUP RCL SWAP HOME STO STO
  DELDR HOME 'DELDLDR' PURGE 'GODR' PURGE
»
```

```

CPYDR
« CLLCD "COPYING..." 1 DISP SWAP GODR → s d
  « d CRDIR d EVAL PATH → t
    « s GODR VARS LIST→ 1 SWAP
      START DUP
        IFERR RCL
        THEN EVAL PATH t ROT CPYDR
        ELSE t GODR SWAP STO s GODR
        END
      NEXT s GODR CLMF
    »
  »
»

DELDLDR
« CLLCD "DELETING..." 1 DISP DUP GODR VARS DUP SIZE
  IF 0 SAME
  THEN DROP DUP DUP SIZE GET SWAP DUP SIZE 1 – 1 SWAP SUB GODR PURGE
  ELSE DUP SIZE GET
    IFERR PURGE
    THEN 1 →LIST DELDLDR
    END DELDLDR
  END CLMF
»

GODR
« →STR DUP SIZE 1 – 2 SWAP SUB STR→
»

```

NOTES ON THIS EDITION

1. CPYDR and DELDLDR both call themselves. A directory of unknown depth is walked by recursion, on a machine with 32K of memory holding the programs, the data and the stack at once.
2. DELDLDR carries an inked query on the page — “? XTRA DELDLDR” — beside a struck-out repetition, with an ELSE struck and an END added. The corrected reading is the one set here.

The notebook is the manuscript — handwritten, photocopied, and reproduced exactly as scanned at michaelmorrison.com/downloads/hp28s/directory-handling-notebook.pdf. This is the edited edition. The wording and the voice are the manuscript’s and the program listings are unaltered; where the prose has been corrected, the notes above say what was changed, so the two can be held against each other.