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| DECUS NO. | 8-461 |
| TITLE | COPY1Ø - PDP-10 DECTAPE PROGRAM FOR THE PDP-8 |
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| SOURCE LANGUAGE | PAL-1Ø |

COPY10 - PDP-10 DECTAPE PROGRAM FOR THE PDP-8

DECUS Program Library Write-up

DECUS NO. 8-461

COPY10 is a program for transferring ASCII files between PDP-10 and PDP-8 DECTapes on the PDP-8. Sequence numbers on the PDP-10 input files are ignored. Likewise, no sequence numbers are written in PDP-10 output files. There is a special option to allow a PDP-10 BIN file generated by PAL-10 to be read on the PDP-8.

When the program starts, it asks for the current date:

TYPE DATE AS MM-DD-YY

You would then type the date as in "06-15-76", followed by a carriage return. The date is converted into the 12 bit format used on the PDP-10 and TSS/8. The welcome message is then typed:

PDP-8/10 FILE TRANSFER V3B

The program asks for a command by typing:

OPTION-

The commands are a single letter, or a letter followed by a modification, where a modification is a slash, "/", followed by a letter or digit. The line is ended by a carriage return. The legal commands are:

| | |
|-----|----------------------------------|
| L | list PDP-10 tape directory |
| L/8 | list PDP-8 device directory |
| D | delete PDP-10 file |
| Z | zero PDP-10 tape directory |
| R | read ASCII file from PDP-10 tape |
| R/B | read BIN file from PDP-10 tape |
| W | write ASCII file to PDP-10 tape |
| X | debug, return to XDDT |

The L, D, and Z commands will then type:

DEVICE-

and expect a PDP-10 DECTape device name (as in 'DTAx:', where x is the unit number from 0 to 7) as a reply. The L/8 command will also type the above message, but will instead expect a PDP-8 directory device name (either 'S:' or 'Dx:'). The legal PDP-8 device names are:

| | |
|-----|-----------------------------------------------|
| S: | system device (either disk or DECTape unit 0) |
| Dx: | DECTape unit x |
| T: | teletype/keyboard (or low speed reader/punch) |
| R: | high speed paper tape reader/punch |

The read (R and R/B) and write (W) commands will ask for input and output devices by typing:

INPUT-
OUTPUT-

The output device specification always gives one device name and one filename (unless output is to a non-directory PDP-8 device), Thus for the PDP-10, an output file could be:

DTA3:TEST.PAL

Note that PDP-10 filenames consist of a 1-6 character filename and an optional 1-3 character extension, If the extension is not given, the period (',') which separates the filename and extension is not typed.

PDP-8 device specifications could be one of:

S:TEST
D2:RUN1
R:

Likewise, for input from a PDP-10 device, you can give only 1 file specification. However, you can also read PDP-10 ASCII paper tapes by specifying device name 'PTR:' with no filename. For input from a PDP-8 device, you can specify a series of files to be concatenated into one output file by typing something like:

D2:TEST,S:TST1,R:,R:,D2:RUN,D2:RR,T:

The programs starting address is 7400 octal. To save on the systems device as a system program do:

SAVE CP10!0-6577,7400;7400