



# DECUS

## PROGRAM LIBRARY

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

# DECUS

PROGRAM 210101



DATE	DESCRIPTION	AMOUNT
1954	...	...
1955	...	...
1956	...	...
1957	...	...
1958	...	...
1959	...	...
1960	...	...
1961	...	...
1962	...	...
1963	...	...
1964	...	...
1965	...	...
1966	...	...
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1968	...	...
1969	...	...
1970	...	...
1971	...	...
1972	...	...
1973	...	...
1974	...	...
1975	...	...
1976	...	...
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1982	...	...
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1987	...	...
1988	...	...
1989	...	...
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2002	...	...
2003	...	...
2004	...	...
2005	...	...
2006	...	...
2007	...	...
2008	...	...
2009	...	...
2010	...	...
2011	...	...
2012	...	...
2013	...	...
2014	...	...
2015	...	...
2016	...	...
2017	...	...
2018	...	...
2019	...	...
2020	...	...
2021	...	...
2022	...	...
2023	...	...
2024	...	...
2025	...	...
2026	...	...
2027	...	...
2028	...	...
2029	...	...
2030	...	...

# 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