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100 'PIP, peripheral Interchange program, THOR-2/80
150 PG$="PIP"
200 'CLOSE:OPEN"R",1,"<DATE>",1:FIELD1,8ASDT$:GET1,1:DA$= +
    DT$:CLOSE:OPEN"R",1,"<ACCTR>",1:FIELD1,8ASDT$,8ASFR$:GET +
    1,1:RC=VAL(DT$):LSETDT$=STR$(RC+1):PUT1,1:LSETDT$=DA$:LS +
    ETPR$=PG$:PUT1,RC:CLOSE
300 CLEARA:CLEAR6000:UNLOAD:MOUNT:CLOSE
400 DEF FNN$(A)=MID$(STR$(A),2)
500 VR$="1.3"
600 SL$="ARDVL"
700 CT=0:RESTORE
800 READ A$:A:IF A$<>"END" THEN CT=CT+1:GOTO 800
900 RESTORE:DIM DV$(CT),DV(CT):FOR A=1 TO CT:READ DV$(A), +
    DV(A):NEXT A
1000 READ A$,A
1100 DIM ES$(80)
1200 READ A:IF A<>0 THEN READ ES$(A):GOTO 1200
1300 PRINT "PIP (ver "VR$")"
1400 CLOSE:ON ERROR GOTO 6300:CONSOLE 16,1:WIDTH79:NULL0: +
    LINEINPUT "*";CM$
1500 IF CM$="" GOTO 1400
1600 'Command format is DEV:FILE/SWITCH=DEV:FILE/SWITCH
1700 FS=1:CS=1
1800 D1$="":F1$="":S1$="":D2$="":F2$="":S2$=""
1900 GOSUB 3600 'Get the first part.
2000 IF OC$="!" THEN RUN AC$,1
2100 D0$="":F0$="":S0$=""
2200 IF OC$=":" THEN D0$=AC$:GOTO 2400
2300 GOTO 2500
2400 GOSUB 3600
2500 IF OC$<>":" THEN F0$=AC$
2600 IF OC$<>"/" THEN S200
2700 GOSUB 3600
2800 IF LEN(AC$)>1 THEN 10900
2900 IF AC$="" THEN 11000
3000 IF INSTR(SL$,AC$)=0 THEN 11100
3100 S0$=S0$+AC$:GOTO 2600
3200 IF OC$=":" THEN 11200
3300 IF OC$="=" AND FS=2 THEN 11300 ELSE IF OC$="=" THEN +
    D1$=D0$:F1$=F0$:S1$=S0$:FS=2:GOTO 1900
3400 GOTO 4800
3500 END
3600 'Get all characters up to a : / = or EOL
3700 'Return the substring in AC$, and the char in OC$
3800 'We always start at CS and we set CD to it for a bac +
    k and
3900 'increment CS continually.
4000 'A " will quote the next character.
4100 CO=CS
4200 AC$=""
4300 IF LEN(CM$)<CS THEN OC$="":RETURN
4400 SC$=MID$(CM$,CS,1):IF SC$=CHR$(34) THEN CS=CS+1:SC$= +
    MID$(CM$,CS,1):CR=0:GOTO 4600

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4500 CR=INSTR("/:!",SC$)
4600 IF CR<>0 THEN CS=CS+1:OC$=SC$:RETURN
4700 AC$=AC$+SC$:CS=CS+1:GOTO 4300
4800 IF INSTR(SO$,"D") THEN 12200
4850 IF INSTR(SO$,"L") THEN OUT19,12
4875 IF FO$="" AND DO$="" THEN 1400
4900 IF FS=1 THEN D2$=DO$:F2$=FO$:S2$=SO$:D1$="TTY":F1$=" +
    ":S0$=""
5000 IF FS=2 THEN D2$=DO$:F2$=FO$:S2$=SO$
5100 IF D1$="" THEN D1$="DSK"
5200 IF D2$="" THEN D2$="DSK"
5300 IF F1$="" THEN F1$=F2$
5400 PRINT "[D1$":F1$ = "D2$":F2$"]"
5500 N1=-100:FOR A=1 TO CT:IF D1$=DV$(A) THEN N1=DV$(A):NE +
    XT A ELSE NEXT A
5600 N2=-100:FOR A=1 TO CT:IF D2$=DV$(A) THEN N2=DV$(A):NE +
    XT A ELSE NEXT A
5700 IF N1<-10 THEN UD$=D1$:GOTO 11400
5800 IF N2<-10 THEN UD$=D2$:GOTO 11400
5900 GOSUB 6700:GOSUB 7800
6000 GOSUB 9000:IF FG THEN GOSUB 9800:GOTO 6000
6100 GOTO 1400
6200 END
6300 EN=ERR:IF ES$(EN)="" THEN PRINT "%Unknown error"EN$: +
    GOTO 6500
6400 PRINT "%ES$(EN):" ";
6500 EL=ERL:IF EL=65535! THEN PRINT "in Basic-Level Comma +
    nd.":RESUME 6600 ELSE PRINT "in line "FNN$(EL).":RESUME +
    1400
6600 END
6700 'Opens the input device, if necessary, Also take car +
    e of the
6800 'formatting switches, if implimeted, or any
6900 'N2 etc is the device
7000 IF N2<0 THEN 7500
7100 ON ERROR GOTO 7400
7200 CLOSE2:OPEN"I",2,LEFT$(F2$,8),N2
7300 ON ERROR GOTO 1400:RETURN
7400 EN=ERR:PRINT "%ES$(EN)" for input specification.":R +
    ESUME 1400
7500 IF N2=-3 THEN 11500
7600 IF N2=-2 THEN 11600
7700 RETURN
7800 'Opens the output device
7900 IF N1<0 THEN 8400
8000 ON ERROR GOTO 8300
8100 CLOSE1:OPEN"O",1,LEFT$(F1$,8),N1
8200 ON ERROR GOTO 1400:RETURN
8300 EN=ERR:PRINT "%ES$(EN)" for output specification.": +
    RESUME 1400
8400 IF N1=-3 THEN 11800
8500 IF N1<-2 THEN RETURN
8600 CONSOLE 18,1:NULL3:WIDTH80:PRINT
8700 PRINT "[D1$":F1$ = "D2$":F2$"]":PRINT

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8800 CONSOLE 16,1:NULL0:WIDTH79
8900 RETURN
9000 'Grabs a line from the input device and puts it in IL$
9100 'Also keeps a flag that is FG which will be true if +
    not end of file
9200 FG=0
9300 IF N2<0 THEN 9600
9400 IF NOT EOF(2) THEN LINEINPUT #2,IL$:FG=-1
9500 RETURN
9600 LINEINPUT IL$:IF LEFT$(IL$,1)<>CHR$(7) THEN FG=-1
9700 RETURN
9800 'Prints IL$ onto the output device
9900 IF INSTR(S1$+S2$+" ", "V")>0 THEN PRINT IL$
10000 IF N1<0 THEN 10300
10100 PRINT #1,IL$
10200 RETURN
10300 IF N1=-3 THEN RETURN
10400 IF N1=-1 THEN PRINT IL$:RETURN
10500 IF N1<>-2 THEN RETURN
10600 CONSOLE 18,1:WIDTH84:NULL2
10700 PRINT IL$
10800 CONSOLE 16,1:WIDTH79:NULL0:RETURN
10900 PRINT "%Switch /"AC$" is in illegal format.":GOTO 1400
11000 PRINT "%Switch syntax error.":GOTO 1400
11100 PRINT "%Unknown switch /"AC$".":GOTO 1400
11200 PRINT "%Double device Illegal.":GOTO 1400
11300 PRINT "%Double destination Illegal.":GOTO 1400
11400 PRINT "%Unknown device "UD$":.":GOTO 1400
11500 PRINT "%Queue is not an input device.":GOTO 1400
11600 PRINT "%Line-Printer is not an input device.":GOTO +
    1400
11700 PRINT "%May not delete anything not a disk file.":G +
    OTO 1400
11800 PRINT "%Queued spooling not implemented.":GOTO 1400
11900 PRINT "%Not confirmed.":GOTO 1400
12000 'Clear TTY Screen
12100 OUT 17,27:OUT 17,42:FOR A=1 TO 10:OUT 17,1:NEXT A:R +
    ETURN
12200 IF D0$="" THEN D0$="DSK"
12300 NO=-100:FOR A=1 TO CT:IF D0$=DV$(A) THEN NO=DV(A):N +
    EXT A ELSE NEXT A
12400 IF NO<-10 THEN UD$=D0$:GOTO 11400
12500 IF NO<0 THEN 11700
12600 CLOSE
12700 PRINT "Delete "D0$":"F0$" !OK!";LINEINPUT CF$:IF C +
    F$<>" " THEN 11900
12800 ON ERROR GOTO 13000
12900 KILL F0$,NO:GOTO 1400
13000 EN=ERR:PRINT "%ES$(EN)" for deletion specification +
    ,":RESUME 1400
13100 DATA D0,0,DSK0,0,DK0,0,DS0,0,0,0,DA,0,DT,0,DAT,0,R1 +
    ,0,A,0
13200 DATA DSK,1,DK,1,DS,1,D1,1,1,1,FR,1,PRG,1,F1,1,B,1
13300 DATA D2,2,DSK2,2,DK2,2,DS2,2,2,2,RM,2,SP,2,R2,2,C,2 +

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,DOC,2,DO,2
13400 DATA D3,3,DSK3,3,DK3,3,DS3,3,3,3,AR,2,SN,2,F2,3,D,3
13500 DATA TT,-1,TTY,-1,T,-1,-1,-1
13600 DATA LP,-2,LPT,-2,L,-2,-2,-2
13700 DATA QU,-3,QUE,-3,-3,-3
13800 DATA END,0
13900 DATA 1,NEXT without FOR,2,Syntax error
14000 DATA 3,RETURN without GOSUB,4,Out of Data,5,Illegal +
function call
14100 DATA 6,Overflow,7,Out of memory,8,Undefined line,9, +
Subscript out of range
14200 DATA 10,Redimensioned array,11,Division by zero,12, +
Illegal direct
14300 DATA 13,Type mismatch,15,Strings too long,16,String +
formula too complex
14400 DATA 17,Can't continue,18,Undefined user function,1 +
9,No RESUME
14500 DATA 20,RESUME without error,21,Unprintable error
14600 DATA 22,Missing operand,23,Line buffer overflow,24, +
Unsupported operation
14700 DATA 50,Field overflow,51,Internal error,52,Bad fil +
e number
14800 DATA 53,File not found,54,Bad file mode,55,File alr +
eady open
14900 DATA 56,Disk not mounted,57,Disk I/O error,58,File +
already exists
15000 DATA 59,Set to a non-disk string,60,Disk already mo +
unted
15100 DATA 61,Disk full,62,Input past end,63,Bad record n +
umber
15200 DATA 64,Bad file name,65,Mode-mismatch,66,Direct st +
atement in file
15300 DATA 67,Too many files,68,Out of random blocks,69,F +
ile link error
15400 DATA 70,Bad random sector
15500 DATA 0,END

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