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10 'RUNOFF, Text Processing system from DEC-10 RUNOFF, TH +
OR-1/80
20 PG$="RUNOFF"
30 'CLOSE:OPEN"R",1,"<DATE>",1:FIELD1,8ASDT$:GET1,1:DA$=D +
T$:CLOSE:OPEN"R",1,"<ACCTR>",1:FIELD1,8ASDT$,8ASPR$:GET1 +
,1:RC=VAL(DT$):LSETDT$=STR$(RC+1):PUT1,1:LSETDT$=DA$:LSE +
TPR$=PG$:PUT1,RC:CLOSE
40 CLEAR A:CLEAR 10000:CLOSE
50 DEF FNN$(A)=MID$(STR$(A),2)
60 DEF FNR$(A$,A)=RIGHT$(SPACE$(A)+A$,A)
70 DEF FNL$(A$,A)=LEFT$(A$+SPACE$(A),A)
80 DEF FNB$(A$,B$,A)=FNL$(A$,A-LEN(B$))+B$
90 DEF FNC$(A$,A)=SPACE$((A-LEN(A$))/2)+A$
100 DEF FNF(A$)=ASC(A$)-64
110 RESTORE:READ CT:DIM CM$(CT):FOR A=1 TO CT:READ CM$(A) +
,B:NEXT A
120 LN=999:PS=0:LE=0
130 TH$=""$SH$=""$PN=0:PG=0
140 WT=84:PL=66:BR=0
150 LM=14:RM=WT-10:TM=9:BM=PL-6:GOSUB 570
160 FT=18:FF=12:J1=0
170 TR=-1:WD=0:WF=1:FO$=""
180 ON ERROR GOTO 1540
190 BR$="";FOR A=1 TO LW:BR$=BR$+"-":NEXT A
200 DIM WD$(500),PO$(20),F$(26),LV(100),J5$(20),J6(20),J7 +
(20):LV=1
210 FOR A=1 TO 26:F$(A)=""$NEXT A
220 GOSUB 1500:FI$=""$PRINT "Commands also here are END,R +
ETURN":LINEINPUT "Input program name,drive? ";FI$:ML=0
230 IF FI$="" THEN CLEAR20:RUN "SOS",1 ELSE IF FI$="END" +
THEN RUN "SYSMENU",1
240 B=INSTR(FI$,".");IF B=0 THEN VT$=FI$:FD=2:GOSUB820:FI$ +
=2:FI$=VT$:GOTO 260
250 VT$=LEFT$(FI$,B-1):FD=VAL(MID$(FI$,B+1)):GOSUB820:FI$ +
=VT$:GOTO 260
260 CLOSE 5:OPEN "O",5,LEFT$("&"$FI$,8),FD
270 T1$=FI$:FI$=LEFT$("&"$FI$,8):GOSUB 480:FI$=T1$
280 PRINT #5,".PAG":PRINT #5,".STP":PRINT #5,".TAB":PRINT +
#5,".CNT TABLE OF CONTENTS":PRINT #5,""
290 LE=0:CLOSE1:OPEN "I",1,FI$,FI:GOSUB 1530:PRINT "[Just +
opened file "FI$","FNN$(FD)":]":GOSUB 1510
300 ON ERROR GOTO 1590
310 GOSUB 1490
320 IF NOT EOF(1) THEN LE=LE+1:LINEINPUT #1,LN$:$IF LE<=ML +
THEN 320 ELSE 330 ELSE 520
330 IF LEFT$(LN$,1)="#" THEN 320
340 SN=INSTR(LN$,"\"):$IF SN=0 THEN 360 ELSE NF$=MID$(LN$, +
SN+1,1):$IF NF$<"A" OR NF$>"Z" THEN 360 ELSE IF SN=1 THEN +
LN$=F$(FNF(NF$))+MID$(LN$,3) ELSE LN$=LEFT$(LN$,SN-1)+F +
$(FNF(NF$))+MID$(LN$,SN+2)
350 GOTO 340
360 IF LEFT$(LN$,1)<>"." THEN 400
370 CN=0:CM$=LEFT$(LN$,4):GOSUB 4000:FOR A=1 TO CT:$IF CM$ +

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(A)=CM$ THEN CN=A:NEXT A ELSE NEXT A
380 IF CN=0 THEN GOSUB 1530:PRINT "Unknown command "CM$" +
    in line"LE"- line ignored.":GOSUB 1510:GOTO 320
390 ON CN GOTO 1630,1640,1650,1710,1720,1730,1740,1750,17 +
    60,1770,
    1780,1820,1830,1840,1860,1870,1880,1910,1920,1940,1 +
    960,
    1970,2000,2005
400 IF NOT TB THEN 450 ELSE P0=1:P0$(1)=LN$:IF LN$<>"" TH +
    EN GOSUB 1070
410 FOR GO=1 TO PO
420 GOSUB 950:PRINT SPC(LM)+PO$(GO)
430 NEXT GO
440 GOTO 320
450 VT$=LN$:GOSUB 930:LN$=VT$:GOSUB 1260
460 GOTO 320
470 GOSUB 1200:GOSUB 1500:IF PS<>0 THEN OUT PT+1,FF:GOTO +
    40 ELSE 40
480 'Push FI$,FD,LE down, error if off top
490 J1=J1+1:IF J1>20 THEN ES$="Not enough room for another +
    r include":GOTO 1610
500 J5$(J1)=FI$:J6(J1)=FD:J7(J1)=LE
510 RETURN
520 'Pop FI$,FD,ML off, seto to 900 if off bottom else 160
530 IF J1<1 THEN 470
540 IF J1=1 THEN CLOSE 5
550 FI$=J5$(J1):FI=J6(J1):ML=J7(J1):J1=J1-1:GOTO 290
560 IF J1<1 THEN 470
570 LW=RM-LM:LL=BM-TM:HC=INT(LW/2)+LM:VC=INT(LL/2)+TM:RETURN
580 DATA 24
590 DATA .TIT,1
600 DATA .PAG,2
610 DATA .SUB,3
620 DATA .LMR,4
630 DATA .RMR,5
640 DATA .BMR,6
650 DATA .TST,7
660 DATA .PAR,8
670 DATA .TAB,9
680 DATA .SKP,10
690 DATA .CNT,11
700 DATA .TMR,12
710 DATA .BAR,13
720 DATA .ASK,14
730 DATA .UPD,15
740 DATA .PNI,16
750 DATA .LNK,17
760 DATA .IPR,18
770 DATA .ILV,19
780 DATA .PUL,20
790 DATA .PDL,21
800 DATA .INC,22
810 DATA .STP,23
812 DATA .IND,24
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820 'Subroutine converts tabs to spaces and removes double +
e spaces
830 'also removes leading and trailing spaces
840 CI$=CHR$(9):DS$=" "+SS$=" ":"NL$="""
850 IF VT$=NL$ THEN 920
860 GOSUB 930
870 CF=INSTR(VT$,DS$):IF CF<>0 THEN IF CF=1 THEN VT$=MID$ +
(VT$,2):GOTO 870
     ELSE VT$=LEFT$(VT$,CF-1)+SS$+MID$(VT$,CF+2):GOTO 870
880 IF VT$=NL$ THEN 920
890 IF LEFT$(VT$,1)=SS$ THEN VT$=MID$(VT$,2)
900 IF VT$=NL$ THEN 920
910 IF RIGHT$(VT$,1)=SS$ THEN VT$=LEFT$(VT$,LEN(VT$)-1)
920 RETURN
930 SS$=" ":"CI$=CHR$(9):CF=INSTR(VT$,CI$):IF CF<>0 THEN M +
ID$(VT$,CF,1)=SS$:GOTO 930
940 RETURN
950 IF LN<BM THEN LN=LN+1:RETURN
960 IF PS<>0 THEN OUT PT+1,FF
970 PS=PS+1
980 IF PG THEN PN=PN+1
990 FOR LN=1 TO TM
1000 IF NOT PG THEN 1040
1010 IF LN=1 THEN PRINT SPC(LM)+FNB$(TH$,"Page   "+FNN$(PN +
),LW)
1020 IF LN=2 THEN PRINT SPC(LM)+SH$
1030 IF LN=3 THEN IF BR THEN PRINT SPC(LM)+BR$ ELSE PRINT
1040 IF NOT PG OR LN>3 THEN PRINT
1050 NEXT LN
1060 RETURN
1070 CR$=CHR$(13):LF$=CHR$(10):TB$=CHR$(9):PL=LW
1080 PO=1
1090 P1=INSTR(PO$(PO),CR$):IF P1<>0 THEN IF P1=1 THEN PO$ +
(PO)=MID$(PO$(PO),2):GOTO 1090 ELSE PO$(PO)=LEFT$(PO$(PO +
),P1-1)+MID$(PO$(PO),P1+1):GOTO 1090
1100 P1=INSTR(PO$(PO),TB$):IF P1=0 THEN 1140
1110 P2=(9-(P1 MOD 8)) MOD 8:IF P2=0 THEN P2=8
1120 IF P1=1 THEN PO$(PO)=SPACE$(P2)+MID$(PO$(PO),2):GOTO +
1100
1130 PO$(PO)=LEFT$(PO$(PO),P1-1)+SPACE$(P2)+MID$(PO$(PO), +
P1+1):GOTO 1100
1140 P1=LEN(PO$(PO)):P2=INSTR(PO$(PO),LF$)
1150 IF P2>PL OR P2=0 THEN 1180
1160 IF P2=1 THEN PO$(PO+1)=MID$(PO$(PO),2):PO$(PO)=" ";PO +
=PO+1:GOTO 1080
1170 PO$(PO+1)=MID$(PO$(PO),P2+1):PO$(PO)=LEFT$(PO$(PO),P +
2-1):PO=PO+1:GOTO 1140
1180 IF P1<=PL THEN RETURN
1190 PO$(PO+1)=" "+MID$(PO$(PO),PL-2):PO$(PO)=LEFT$(PO$(PO +
),PL-3)+" ";PO=PO+1:GOTO 1140
1200 IF WD=0 THEN RETURN
1210 IF WF>WD THEN 1240
1220 T$=PO$:IF T$<>" " THEN T$=T$+" ";IF RIGHT$(T$,2)=". " +
THEN T$=T$+" "

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1230 T$=T$+WD$(WF):WF=WF+1:GOTO 1210
1240 GOSUB 950:IF ID OR IV THEN PRINT SPC(IT)
1250 PRINT SPC(LM)+T$:WF=1:WD=0:PO$="" :RETURN
1260 AC$=LN$
1270 IF LEFT$(AC$,1)=" " THEN AC$=MID$(AC$,2):GOTO 1270
1280 IF AC$=" " THEN 1310
1290 SN=INSTR(AC$," "):IF SN=0 THEN WD$(WD+1)=AC$:WD=WD+1 +
:GOTO 1310
1300 WD$(WD+1)=LEFT$(AC$,SN-1):WD=WD+1:AC$=MID$(AC$,SN+1) +
:GOTO 1270
1310 IF WF>WD THEN RETURN
1320 T$=PO$:IF T$<>" " THEN T$=T$+" ":IF RIGHT$(T$,2)="." +
THEN T$=T$+"."
1330 T$=T$+WD$(WF):WF=WF+1
1340 IF LEN(T$)>LW+IT*(ID=-1 OR IV=-1) THEN WF=WF-1:GOTO +
1360
1350 PO$=T$:GOTO 1310
1360 L1=LW+IT*(ID=-1 OR IV=-1)
1370 SP=1
1380 IF LEN(PO$)>=L1 THEN 1420
1390 DS=INSTR(SP,PO$," "):IF DS=0 THEN 1370 ELSEIF DS=SPT +
HENSP=SP+1:GOTO 1390
1400 PO$=LEFT$(PO$,DS)+" "+MID$(PO$,DS+1):SP=DS+1
1410 IF LEN(PO$)<L1 THEN 1390
1420 GOSUB 950:IF ID OR IV THEN PRINT SPC(IT)
1430 PRINT SPC(LM)+PO$-
1440 WF=WF-1
1450 FOR A=1 TO WD-WF:WD$(A)=WD$(A+WF):NEXT A:WD=WD-WF
1460 PO$=" " :WF=1
1470 IF PI THEN IV=-1
1480 ID=0:GOTO 1310
1490 CONSOLE PT,1:WIDTH 90:NULL4:PR=-1:TR=0:RETURN
1500 CONSOLE 16,1:WIDTH 79:NULL0:TR=-1:PR=0:RETURN
1510 IF PR THEN 1490 ELSE 1500
1520 CONSOLE PT,1:WIDTH90:NULL4:RETURN
1530 CONSOLE 16,1:WIDTH79:NULL0:RETURN
1540 'Recover from error in 150,160
1550 IF ERR=53 THEN PRINT "%File not found.":RESUME 220
1560 IF ERR=64 THEN PRINT "%Bad file name.":RESUME 220
1570 IF ERR=57 THEN PRINT "?Disk I/O error.":GOTO 1600
1580 IF ERR=56 THEN PRINT "%Illegal disk specified.":RESU +
ME 220
1590 IF ERR=62 THEN RESUME 520
1598 GOSUB 1500:PRINT "?Unexpected error.":GOTO 1600
1600 'Unrecoverable error
1610 GOSUB 1500:PRINT "Unrecoverable error..."+ES$:PRINT +
"Error number"ERR"on line"ERL:PRINT"PUNT - CANNOT CONTINUE"
1620 GOSUB 1500:END
1630 VT$=MID$(LN$,5):GOSUB 820:TH$=VT$:PG=-1:PRINT #5,".C +
NT "+TH$:PRINT #5,"":GOTO 320
1640 GOSUB 1200:LN=9999:GOTO 320
1650 VT$=MID$(LN$,5):GOSUB 820:SH$=VT$:PG=-1
1660 IF LN<BM THEN FD=PN ELSE FD=PN+1
1670 HB$=" ";FOR A=1 TO LW STEP 2:HB$=HB$+" - ";NEXT A:HB$= +
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FNL$(HB$,LW)
1680 MID$(HB$,1)=SPACE$(LV)+SH$:LT=LEN(FNN$(PI)):MID$(HB$ +
,LW-LT+1,LT)=FNN$(PI)
1690 GOSUB 1530:PRINT HB$:GOSUB 1510
1700 PRINT #5,HB$:GOTO 320
1710 LM=VAL(MID$(LN$,5))-1:GOSUB 570:GOTO 320
1720 RM=WT-VAL(MID$(LN$,5)):GOSUB 570:GOTO 320
1730 EM=PL-VAL(MID$(LN$,5)):GOSUB 570:GOTO 320
1740 GOTO 2010
1750 TB=0:GOSUB 1200:PI=0:IV=0:ID=-1:IT=5:GOTO 320
1760 GOSUB 1200:ID=0:TB=-1:GOTO 320
1770 GOSUB 1200:A=VAL(MID$(LN$,5)):A=A+(-1*(A=0)):FOR B=1 +
TO A:GOSUB 950:PRINT:NEXT B:GOTO 320
1780 LH$=LN$:$IF NOT TB AND WD>0 THEN GOSUB 1200
1790 VT$=MID$(LH$,5):GOSUB 820
1800 GOSUB 950:PRINT SPC(LM)+FNC$(VT$,LW)
1810 GOTO 320
1820 TM=VAL(MID$(LN$,5)):GOSUB 570:GOTO 320
1830 BR=-1:GOTO 320
1840 GOSUB 1530:NF$=MID$(LN$,6,1):IF NF$<"A" OR NF$>"Z" T +
HEN GOSUB 1510:GOTO 320
1850 PRINT MID$(LN$,8);:LINEINPUT F$(FNF(NF$)):GOSUB 1510 +
:GOTO 320
1860 GOTO 320
1870 TB=0:GOSUB 1200:PI=0:IV=0:ID=0:IT=0:GOTO 320
1880 LI$=MID$(LN$,5):B=INSTR(LI$,"")
1890 IF B=0 THEN VT$=LI$:GOSUB 820:FI$=VT$:FD=2:ON ERROR +
GOTO 1540:GOTO 290
1900 VT$=LEFT$(LI$,B-1):FD=VAL(MID$(LI$,B+1)):GOSUB 820:FI +
I$=VT$:ON ERROR GOTO 1540:GOTO 290
1910 TB=0:GOSUB 1200:PI=-1:IV=0:ID=0:IT=5:GOTO 320
1920 LV(LV)=LV(LV)+1:F$(12)=""$:FOR A=1 TO LV
1930 IF LV(A)<>0 THEN F$(12)=F$(12)+FNN$(LV(A))+".":NEXT +
A:GOTO 320
1940 IF LV<=1 THEN ES$="Not allowed to back up so far":GO +
TO 1600
1950 LV(LV)=0:LV=LV-1:GOTO 320
1960 LV=LV+1:LV(LV)=0:GOTO 320
1970 GOSUB 480:LI$=MID$(LN$,5):B=INSTR(LI$,""):ML=0
1980 IF B=0 THEN VT$=LI$:GOSUB 820:FI$=VT$:FD=2:ONERRORGOT +
01540:GOTO 290
1990 VT$=LEFT$(LI$,B-1):FD=VAL(MID$(LI$,B+1)):GOSUB 820:FI +
$=VT$:ONERRORGOT 01540:GOTO 290
2000 PG=0:GOTO 320
2005 TB=0:GOSUB 1200:PI=-1:IV=-1:ID=0:IT=5:GOTO 320
2010 GOSUB 1530:PRINT "Command "CM$(CN)" is not implement +
ed at this time":GOSUB 1510:GOTO 320
2020 GOSUB 1500:ON ERROR GOTO 0
4000 FOR CM=2 TO 4:CC=ASC(MID$(CM$,CM,1)):IF CC>95 THEN C +
C=CC-32
4010 MID$(CM$,CM,1)=CHR$(CC):NEXT CM:RETURN

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