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0 'SORT, General purpose large file sorter, THOR 1/80
7 PG$="SORT"
8 'CLOSE:OPEN "R",1,"<DATE>",1:FIELD1,8ASDT$:GET1,1:DA$=DT +
  $:CLOSE:OPEN "R",1,"<ACCTR>",1:FIELD1,8ASDT$,8ASPR$:GET1, +
  1:RC=VAL(DT$):LSETDT$=STR$(RC+1):PUT1,1:LSETDT$=DA$:LSET +
  PR$=PG$:PUT1,RC:CLOSE
10 'Reads file *SORT*,1 which is ascii file in format
20 'FILE(to read from),DRIVE(file is on),DRIVE(to place t +
  emps on),
30 'WIDTH(of field),FILE(to run when done),DRIVE(on which +
  to find file),
40 'NUMBER(of pieces of data in file)
50 CLOSE:CLEARA:CLEAR10000
52 A=1:DB(1)=DT
54 READ B:IF B=DT THEN 54 ELSE A=A+1:DB(A)=B:IF A<4 THEN 54
60 DEF FNN$(A)=MID$(STR$(A),2)
70 OPEN "I",1,"*SORT*",1
80 INPUT #1,F1$,D1,DT,WF,F2$,D2,NB:CLOSE1
90 OPEN "R",1,"*SORTF*",DT:FIELD#1,5ASSS$:LSET SS$=" 0":P +
  UT1,1:CLOSE1
100 OPEN "R",1,F1$,D1:FIELD 1,(WF) AS FD$
110 NF=INT(10000/(WF+10)):IF NF>=NB THEN NF=INT(NB/2+.5)
115 IF NF=0 THEN RUN F2$,D2
120 DIM LB$(NF):FS$=SPACE$(WF)
130 BP=1
140 SW=1:ST=NB/NF:IF ST-INT(ST)<>0 THEN ST=INT(ST+1)
150 PRINT "Sorting file "F1$", width"WF"size"NF"total"NB
160 PRINT "Now sorting set"SW"of"ST:NL=0
170 GET 1,BP
180 PRINT BP,FD$
190 LB$(NL+1)=FD$
200 BP=BP+1:NL=NL+1
210 IF BP>NB THEN 240
220 IF NL>=NF THEN 240
230 GOTO 170
240 GOSUB 400
250 FF$="*SRT-"+FNN$(SW)+"*"
255 FOR A=1 TO 4:IF DSKF(DB(A))*(1000/128)<NL*1.2 THEN NE +
  XT A:GOTO 800
260 DG=DB(A)
265 PRINT:PRINT "Now writing file "FF$ on drive "DG
270 CLOSE2:OPEN "R",2,FF$,DG:FIELD 2,(WF) AS OS$
280 LSET OS$=STR$(NL):PUT 2,1
290 FOR A=1 TO NL
300 PRINT A,LB$(A)
310 LSET OS$=LB$(A):PUT 2,A+1
320 NEXT A
330 CLOSE 2
340 CLOSE3::OPEN "R",3,"*SORTF*",DT:FIELD 3,5ASSS$,8ASFQ$, +
  3ASDD$
350 GET 3,1:SN=VAL(SS$):LSET SS$=STR$(SN+1):SN=SN+1:LSET +
  FQ$=STR$(SN+1):PUT 3,1
360 LSET FQ$=FF$:LSET SS$=STR$(LEN(FF$)):LSET DD$=STR$(DG +

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    ):PUT 3,1+SN
370 CLOSE3,4:IF BP>NB THEN RUN "SORTMGM",1
380 ON ERROR GOTO 0
390 SW=SW+1:GOTO 160
400 'Quicksort character array LB$(NL), where NL is # of +
    lines
410 DIM LV%(10),UV%(10)
420 LV%(1)=1:UV%(1)=NL:P%=1:SC=0
430 SC=SC+1:PRINT SC;SPC(10);CHR$(13);:IF P%<=0 THEN 520 +
    ELSE IF LV%(P%)>=UV%(P%) THEN P%=P%-1:GOTO 430
440 IZ=LV%(P%)-1:JZ=UV%(P%):PV%=JZ
450 IF IZ>=JZ THEN 490 ELSE IZ=IZ+1
460 IF LB$(IZ)>=LB$(PV%) THEN JZ=JZ-1:GOTO 470 ELSE IZ=IZ +
    +1:GOTO 460
470 IF JZ<=IZ THEN 480 ELSE IF LB$(JZ)<=LB$(PV%) THEN 480 +
    ELSE JZ=JZ-1:GOTO 470
480 IF IZ<JZ THEN SWAP LB$(IZ),LB$(JZ):GOTO 450 ELSE 450
490 JZ=UV%(P%):SWAP LB$(IZ),LB$(JZ)
500 IF (IZ-LV%(P%)<UV%(P%)-IZ) THEN LV%(P%+1)=LV%(P%):UV% +
    (P%+1)=IZ-1:LV%(P%)=IZ+1 ELSE LV%(P%+1)=IZ+1:UV%(P%+1)=U +
    V%(P%):UV%(P%)=IZ-1
510 P%=P%+1:GOTO 430
520 PRINT "Sort order"SC/NL:ERASE LV%,UV%:RETURN
530 DATA 2,3,0,1
800 PRINT "Insufficient disk room for further sorting."
810 PRINT "ABORTING SORT."
820 END

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