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PROGRAM BRUKER
INTEGER I,J,AANTAL,I0,npoints,sign
INTEGER LNFD,NOFSET,NMIN,NPLUS
REAL X,Y,XFACT,YFACT,XMIN,XMAX,XSTP,XA
CHARACTER*1 p
character*20 kl
CHARACTER*80 REGEL
common/asci/nofset,nmin,lnfd,nplus
c   nofset=240
c   nmin=96
c   lnfd=64
c   nplus=78
nofset=48
nmin=45
lnfd=32
nplus=43
open(34,file='jcmptoxy.log')
  read(*,'(A15)') kl
  write(34,*) '# ',kl
DO 5 I=1,10
  read(*,'(A20)') kl
  write(34,*) '# ',kl
5 CONTINUE
  read(*,'(t10,g15.14e4)') xmin
  WRITE(34,*) '# XMIN = ',XMIN
  read(*,'(t9,g15.14e4)') xmax
  write(34,*) '# XMAX = ',XMAX
  read(*,'(t10,g15.14e4)') xstp
  WRITE(34,*) '# XSTP = ',XSTP
  read(*,'(A1)') KL
  write(34,*) '# ',kl
  read(*,'(A1)') KL
  write(34,*) '# ',kl
  read(*,'(t11,g15.14e4)') xfact
  WRITE(34,*) '# XFACT = ',XFACT
  read(*,'(t11,g15.14e4)') yfact
  WRITE(34,*) '# YFACT = ',YFACT
  read(*,'(t11,i15)') npoints
  write(34,*) 'npoints = ',npoints
  read(*,'(A1)') kl
  write(34,*) kl
  read(*,'(A1)') kl
  write(34,*) kl
X=XMIN
AANTAL = 1
c LOOP FOR DATA
661 read(*,'(A80)',END=999) REGEL
  IF (REGEL(3:5).EQ.'END') GOTO 999
  IF (REGEL(1:1).EQ.'') GOTO 999
  if (aantal.eq.npoints) goto 999
C LOOP FOR EACH REGEL
  Y=0
  I0=1
  XA=0
75 P=REGEL(I0:I0)
  J=ICHAR(P)
  IF ((J.EQ.NPLUS).OR.(J.EQ.NMIN)) then
    if (j.eq.nmin) then

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        sign=-1
    else
        sign=1
    endif
    GOTO 76
endif
XA=XA*10+REAL(J-nofset)
I0=I0+1
GOTO 75
76 XA=XA*XFACT
DO 80 I=I0+1,80
    P=REGEL(I:I)
    J=ICHAR(P)
    IF (J.EQ.LNFD) THEN
        Y=Y*YFACT*sign
        WRITE(*,*) X,Y
        AANTAL=AANTAL+1
        X=X+XSTP
        GOTO 661
    ENDIF
    IF ((J.EQ.NPLUS).OR.(J.EQ.NMIN)) THEN
        if (j.eq.nmin) then
            sign=-1
        else
            sign=1
        endif
        Y=Y*YFACT*sign
        AANTAL=AANTAL+1
        WRITE(*,*) X,Y
        X=X+XSTP
        Y=0
        GOTO 80
    ENDIF
    Y=Y*10+REAL(J-nofset)
80 CONTINUE
999 continue
close(34)
END

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