

IDENT LINKS
SUBROUTINE LINKS

19/03/74/0915

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C
C *** LINE AND SCREEN SET PROCESS - DATA REQUIRED :
C   XLS   CENTERLINE OF LINE OR SCREEN
C   YLS   UNCORRECTED POSITION OF Y MASK
C   ZLS   UNCORRECTED POSITION OF Z MASK
C   NUN   CORRECTED POSITION OF U MASK (STEPS)
C   NLN   POSITION OF LINE AND SCREEN MATRIX (STEPS)
C   NREP  NUMBER OF REPETITIONS (0 IF NO REPEAT)
C   DXLS  INCREMENT FOR XLS
C   DYZLS INCREMENT FOR YLS AND ZLS
C   LSCFL NUMBER OF FLASHES
C   LOLSL OVERLAP IN STEPS (LEFT)
C *** LOLSR OVERLAP IN STEPS (RIGHT)
C
C *** SPECIFICATION STATEMENTS
C
  DIMENSION ISKIP(36), INSEP(36)
  DIMENSION ITEXT(200)
  DIMENSION ISTAT(6), DBH(64), DBV(64), ARG(4)
  DIMENSION KORZ(53), KORZ(53), KLIN(16), KOL(16), KTK(16), KTH(16),
1     KTP(16), RO(11), IPARA(200)
  DIMENSION NR(11), NV(11), ND(11)
  DIMENSION INPTZ(196), IOUTZ(12), INPRC(200)
  COMMON/SPCON/ISKIP, INSEP, ISK, ISE, ISKSH, HOPT1, HOPT0, HOPT2
  COMMON/P2CON/SCX, SCY, SCZ, DX, DY, HAXX, HAXY, ITEXT, K100,
1     IST32, IH00, KORTX
  COMMON/PDCON/RSEG, KOUNT, KOUNP, ISTAT, ISHRD, ISHIR, DBH, DBV, IBLOK,
1     IOR, IORV, IND, A1, A2, A3, A4, IREP, KAR, YREC
  COMMON/BCCON/RX0, RY0, RZ0, RUB, RLB, RYB, RNB, RPB, RCB, RSB, RT0, RXT0,
1     RLS0, KORV, KORZ, KORU, KLIN, KOL, KTK, KTH, KTP
  COMMON/HDCON/RXH, RYH, RZH, RUL, RLH, RYH, RNL, RPH, RCH, RSH, RTH,
1     RXV, RYV, RZV, RUV, RLV, RYV, RNV, RPV, RCV, RSV, RTV,
2     RXD, RYD, RZD, RUD, RLD, RYD, RND, RPD, RCD, RSD, RTD,
3     HATX, HATY, HATV, HASV
  COMMON/IOCON/INPTZ, IIRP, IIR, IIRER, INSIN, IOUTZ, ROUT, JOU
  COMMON/KRCON/LRA, LRB, LRC, LRE, LRH, LRL, LRH, LRP, LRD, LRR, LRS, LRT,
1     LRU, LRY, LRZ, LRG, LRS
  COMMON/LSCON/XLS, YLS, ZLS, NREP, NREP, DXLS, DYZLS, LOLSL, LOLSR, LSCFL
  EQUIVALENCE (ARG(1), A1)
  EQUIVALENCE (IPARA(1), RO(1), RX0)
  EQUIVALENCE (NR(1), RXH), (NV(1), RYH), (ND(1), RND)
  EQUIVALENCE (INPRC(1), INPTZ(1))
  DATA RYZ0/3/
  DATA RUMAX/3000/
C
C *** SUBROUTINE BODY
C
  IF (IREP.NE.0) GO TO 4035
4000 RXH = -XLS*SCX-DX
  RYH = YLS*SCY+DY
  RZH = -ZLS*SCY-DY
  IF (IAFIX(RXH).GT.HAXX) GO TO 4080
  IF (IAFIX(RYH).GT.HAXY) GO TO 4080
  IF (IAFIX(RZH).GT.HAXY) GO TO 4080
  RXH = JINTAS(RXH)
  RYH = JINTAS(RYH+COR(RYH, KORV))-LOLSL
  RZH = JINTAS(RZH+COR(RZH, KORZ))-LOLSR
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MYZ=-RZR-RYR
IF(MYZ.LT.RYZ0)GO TO 4005
IF (NUN.LT.RYZ0) GO TO 4005
IF (NUN.GT.RUHAX) GO TO 4007
IF (NOPTO.EQ.0) GO TO 4011
DO 4010 KT=1,5
ND(KT) = RR(KT)-RV(KT)
4010 CONTINUE
CALL FIL1(128,-1)
CALL FIL2(NXD,3)
CALL FIL2(NYD,4)
CALL FIL2(NZD,5)
CALL FIL2(NUD,7)
CALL FIL2(NLD,6)
CALL FIL1(NTD,2)
NOUT = J0U-1
CALL OUTP1
4011 IF (IOR.NE.LRS) GO TO 4012
ISTAT(3)=ISTAT(3)+1
GO TO 4018
4012 IF (NREP.EQ.0 .AND. IBLOK.LE.1) GO TO 4015
ISTAT(2)=ISTAT(2)+1
GO TO 4018
4015 ISTAT(1)=ISTAT(1)+1
4018 CALL NOVEN(NR,1,5,RV,1)
NTD = 0
NTV = RTN
IF (LSCFL.EQ.1) GO TO 4030
CALL FIL1(128,-1)
NOUT = 1
DO 4020 KT=2,LSCFL
CALL OUTP1
4020 CONTINUE
4030 NREP = NREP-1
IF (NREP.LE.0) GO TO 4040
4035 XLS = XLS+DXLS
XREP = XREP+DXLS
YLS = YLS+DYZLS
ZLS = ZLS+DYZLS
GO TO 4000
4040 IND = 0
GO TO 4095
4080 CALL MES(5)
GO TO 4090
4085 CALL MES(11)
GO TO 4090
4087 CALL MES (10)
4090 IND = 2
4095 RETURN
END
F/MESSAGE 7F00

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