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V2T=A4
GO TO 3020
3010 IF (KAR.EQ.LRS) GO TO 3015
CALL GTARG(1,IERAR)
IF(IERAR.NE.0)GO TO 3090
IF (IREP.EQ.2) GO TO 3012
V2T=V2T+A1-V1T
V1T=A1
GO TO 3020
3012 X1T = X1T+A1-X2T
X2T=A1
GO TO 3020
3015 CALL SKP(LRS)
CALL GTARG(1,IERAR)
IF (IERAR.NE.0) GO TO 3090
IF (IREP.EQ.2) GO TO 3017
V1T = V2T
V2T = A1
GO TO 3020
3017 X1T = X2T
X2T = A1
3020 JINF=JIN
ISTLF=ISTL
ISTLG=ISTL
IPTGF=IPTG
IPTGG=IPTG
NBOX=1
3025 CALL GER(KAR)
CALL INJIN
IF(KAR.EQ.1F3)NBOX=NBOX+1
IF (KAR.NE.1E0)GO TO 3025
RX1T = -X1T*SCX-DX
RX2T = -X2T*SCX-DX
RV1T = V1T*SCY+DY
RV2T = V2T*SCY+DY
IF (IAFIX(RX1T).GT.MAXX) GO TO 3085
IF (IAFIX(RX2T).GT.MAXX) GO TO 3085
IF (IAFIX(RV1T).GT.MAXY) GO TO 3085
IF (IAFIX(RV2T).GT.MAXY) GO TO 3085
DXBOX = RX2T-RX1T
DVBOX = RV2T-RV1T
LOGT = 10R-LRT
RBOX = FLOAT(NBOX)
IF (LOGT.EQ.0) DVBOX=DVBOX/RBOX
IF (LOGT.NE.0) DXBOX=DXBOX/RBOX
IHBOX = IFIX(-DXBOX)
IHBOX = IFIX(DVBOX)
IF (LOGT.EQ.0) DXBOX=0.0
IF (LOGT.NE.0) DVBOX=0.0
IPOH = IPOHT
IPOV = IPOVT
GO TO 3060
3050 CALL SKP(IF2)
CALL KONH(IPOHT)
IF (INVAL(1,IPOHT,12).NE.0) GO TO 3060
CALL SKP(1BLSP)
CALL KONH(IPOVT)
IF (INVAL(1,IPOVT,3).NE.0) GO TO 3060
CALL SKP(1BLSP)

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CALL KONH(ISTL)
IF(ISTL.LT.0)GO TO 3060
CALL SKP(IBLSP)
CALL KONH(IPTG)
IF(IPTG.LT.0)GO TO 3060
CALL P1P2T
IND = 3
GO TO 9000
3060 CALL MESIR(13,ITVPT,2)
GO TO 3050
3085 CALL MES(5)
GO TO 3095
3090 CALL MES(16)
3095 IND=2
GO TO 9000
7000 ITEST = 1
IBOX = 1
7005 JIN = JINF
ISTL = ISTLF
IPTG = IPTGF
CALL P1P2T
7010 JINB = JIN
ISTLB = ISTL
IPTGB = IPTG
LINKT = 1
IIMAX = 0
IHT = 0
IADD = 0
7015 IH1 = 0
IH2 = IH0G
IH3 = 0
ICTC = 0
IHBLK = 0
IHTOT = 0
ISPSN = 0
7020 CALL GKR(KAR)
CALL INJIN
IF(KAR.NE.1F2) GO TO 7030
CALL SKP(1F2)
CALL GKR(KAR)
CALL INJIN
IF(KAR.EQ.162)GO TO 7021
IF(KAR.EQ.136)GO TO 7022
GO TO 8950
7021 CALL KONH(ISTL)
IF(ISTL.LT.0)GO TO 8950
GO TO 7025
7022 CALL KONH(IPTG)
IF(IPTG.LT.0)GO TO 8950
7025 CALL P1P2T
IH2 = MAX2(IH2,IH0G)
GO TO 7020
7030 CALL RECOV(KORVT,IBR,REN,KAR)
IF (INVAL(116,KAR,118).NE.0) GO TO 7040
IF(ISPSN.GT.0)GO TO 7035
IH1 = IH1+IBR
GO TO 7020
7035 IH3 = IH3+IBR
ISPSN = 2

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GO TO 7020
7040 IF (INVAL(112,KAR,114).RE.0) GO TO 7050
IF (KAR.EQ.IBLSP) IHBLK=IHBLK+IBR
ICTC = ICTC+1
7050 IF((KAR.EQ.120).OR.(KAR.EQ.1E0).OR.(KAR.EQ.1F3))GO TO 7100
IF(1SPSH.GT.1)GO TO 8955
IF (NKR.EQ.0) CALL MES(23)
INTOT = INTOT+IBR
ICTC = ICTC+2
1SPSH = 1
GO TO 7020
7100 IVECX(LINKT) = INT+IH1+IH2
IVECY(LINKT) = INTOT
IVEB1(LINKT) = IHBLK
IVEU2(LINKT) = ICTC-2
IHT = IHT+IH1+IH2+IH3
IHMAX = MAX2(IHMAX,INTOT)
IF((KAR.EQ.1E0).OR.(KAR.EQ.1F3))GO TO 7150
LINKT = LINKT+1
IF(LINKT.GT.20)GO TO 8965
GO TO 7015
7150 IF(ITEST.EQ.0)GO TO 7300
IF(IHMAX.GT.IHBOX)GO TO 7180
IF(IHT.GT.IHBOX)GO TO 7190
GO TO 8300
7180 CALL MES(34)
GO TO 7200
7190 CALL MES(33)
7200 CALL INSTPT
IF(NINP.EQ.1)GO TO 8990
CALL SKP(1F2)
CALL KONH(1STLF)
IF(1STLF.LT.0)GO TO 8950
CALL SKP(1BLSP)
CALL KONH(1PTGF)
IF(1PTGF.LT.0)GO TO 8950
GO TO 7000
7300 IX1=JNTAS(CRX1T+DXBOX*FLOAT(1BOX-1))
IV1=JNTAS(CRV1T+DYBOX*FLOAT(1BOX-1))
DO 7400 JC=1, LINKT
IDELT=IHBOX-IVECY(JC)
IDELH = IHMAX-IVECY(JC)
IHXBX = IHBOX-IHMAX
IHBLK = IVEB1(JC)
ICTC = IVEU2(JC)
GO TO (7301,7302,7303,7304,7305,7306,7307,7308,7309,7310,
1 7311,7312), JPOH
7301 JD=0
GO TO 7320
7302 JD=IDELT/2
GO TO 7320
7303 JD=IDELT
GO TO 7320
7304 JD=IDELH/2
GO TO 7320
7305 JD=IDELT-IDELH/2
GO TO 7320
7306 IHBLK = ICTC
ICTC=IDELT

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GO TO 7301
7307 ICTC=IHBLK+IDELT
GO TO 7301
7308 JD=0
GO TO 7319
7309 JD=IHXBK/2
GO TO 7319
7310 JD=IHXBK
GO TO 7319
7311 JD=IDELH
GO TO 7320
7312 JD=IHXBK
GO TO 7320
7319 ICTC=IHBLK+IDELH
7320 IVECY(JC)=IV1+JD
IVEB1(JC) = IHBLK
IVEU2(JC)=ICTC
7400 CONTINUE
DO 7500 JC=1, LINKT
GO TO(7401, 7402, 7403), IPOV
7401 JD=0
GO TO 7420
7402 JD=(IHBOX-IHT)/2
GO TO 7420
7403 JD=IHBOX-IHT
7420 IVECX(JC)=IX1-JD-IVECY(JC)+RXT0
7500 CONTINUE
JIN=JINB
ISTL=ISTLB
IPT6=IPT6B
CALL P1P2T
IF(MATR. NE. NATY)CALLVERY
DO 8200 JC=1, LINKT
NXT=IVECX(JC)
NYT=IVECY(JC)
CALL SPAX1(IVEB1(JC), IVEU2(JC))
8005 CALL GKR(KAR)
CALL IHJIN
IF (INVAL(116, KAR, 118). EQ 0) GO TO 8005
IF(KAR. EQ. 1F2)GO TO 8100
IF(KAR. EQ. 120. OR. KAR. EQ. 1E0. OR. KAR. EQ. 1F3)GO TO 8200
CALL RECV(KRVT, JBP, RKN, KAR)
IBRE=0
IF (INVAL(112, KAR, 114). EQ. 0) GO TO 8030
CALL ERT(JTEXT(KAR), K1, K2)
N100=N100-100
NXN=NXT+JTEXT(1)+(JTEXT(3)*N100)/100+(K1*N100)/100
NYN = NYT+JTEXT(2)+(JTEXT(4)*N100)/100+(K2*N100)/100
NYN=NYN*(FLOAT(RLS0)*.0001)
NSN=2
IF (NOPT0. EQ. 0) GO TO 8020
DO 8010 KT=1, 10
ND(KT)=NR(KT)-RV(KT)
8010 CONTINUE
NKD=IDISK(NKY, RKR)
CALL FIL1(129, -1)
CALL FIL2(NXD, 3)
CALL FIL2(NYD, 7)
CALL FIL2(NHD, 6)

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      IF(NHD.EQ.0)GO TO 8015
      CALL FIL2(NPD,-1)
8015  CALL FIL1(NKD,5)
      CALL FIL1(NSD,4)
      CALL FIL1(NTD,2)
      IF(IPTG.GT.9)CALL FIL1(129,-1)
      IF(IPTG.GT.14)CALL FIL1(129,-1)
      NOUT = JOU-1
      CALL OUTP1
8020  IADD = 1
      ISTAT(5) = ISTAT(5) + 1
      CALL NOVEN(NR,6,11,NV,6)
      NTD=0
      NVV = NVN
      IF(IPOH.NE.6)GO TO 8050
      CALL SPAX2(2,IBRE)
      GO TO 8050
8030  IF (INVAL(6,IPOH,10).NE.6) GO TO 8050
      IF (IPOH.NE.6) GO TO 8035
      CALL SPAX2(3,IBRE)
      GO TO 8050
8035  IF (KAR.NE.IBLSP) GO TO 8050
      CALL SPAX2(1BR,IBRE)
      IBR = 0
8050  NVT=NVT+IBR+IBRE
      GO TO 8065
8100  CALL SKP(IF2)
      CALL GER(KAR)
      CALL INJIN
      IF(KAR.EQ.162)CALL KONH(ISTL)
      IF(KAR.EQ.136)CALL KONH(IPTG)
      CALL P1P2T
      IF(MATL.NE.MATV)CALL VERV
      GO TO 8065
8200  CONTINUE
      ISTAT(4) = ISTAT(4) + IADD
8300  IBOX=IBOX+1
      IF(IBOX.LE.NBOX)GO TO 7010
      IF(ITEST.EQ.0)GO TO 8990
      ITEST=0
      IBOX=1
      IF(NBOX.EQ.1)GO TO 7300
      GO TO 7005
8950  CALL MES(25)
      GO TO 7200
8955  CALL MES(31)
      GO TO 8990
8965  CALL MES(32)
8990  ISTL=1STLG
      IPTG=IPTGG
      CALL P1P2T
      IHD=0
9000  RETURN
      END
F/MESSAGE 7F00

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