```
      CALL MAKMT2(AY,131071.-25000.,131071.-25000.,1.0,ILINE)
      CALL UPDATE('MAT2','KEY6',ILINE)
      CALL MAKMAT(AX,AY,0,0,RY,0,IXMOV)
      CALL UPDATE('MAT3','KEY1',IXMOV)
      CALL MAKMAT(0,0,0,RX,RY,RZ,IZMOV)
      CALL UPDATE('MAT3','KEY2',IZMOV)
      IF(MMOV.EQ.0.AND.MROT.NE.0) GO TO 270
      IF(MMOV.NE.0.AND.MROT.EQ.0) GO TO 260
      IF(NDUM.EQ.1) GOTO240
      RRAN=RAN(RRAN)
      MROT=RRAN*100.
      R1=1.
      IF(MROT.EQ.2*MROT/2) R1=-1.
      AMY=RRAN*20.*R1
      NDUM=1
      GO TO 270
240   RRAN=RAN(RRAN)
      MMOV=RRAN*100.
      R1=1.
      IF(MMOV.EQ.2*MMOV/2) R1=-1.
      MDUM=RRAN*RUNIT*R1/10.
      RRAN=RAN(RRAN)
      IDUM=RRAN*100.
      R1=1.
      IF(IDUM.EQ.2*IDUM/2) R1=-1.
      IDUM=RRAN*RUNIT*R1/10.
      NDUM=0
260   MMOV=MMOV-1
      RMDUM=MDUM
      RIDUM=IDUM
      RMZ=RMZ+RMDUM
      RMX=RMX+RIDUM
      CALL MAKMAT(0,0,0,RMX,0,RMZ,MMAN)
      CALL UPDATE('MAT3','KEY11',MMAN)
      GO TO 300
270   MROT=MROT-1
      CALL MAKMAT(0,AMY,0,0,0,0,IARA6)
      CALL UPDATE('MAT3','KEY12',IARA6)
      IF(MROT.GT.0) GOTO300
      CALL MAKMAT(0,0,0,0,0,0,IARA6)
      CALL UPDATE('MAT3','KEY12',IARA6)
300   CONTINUE
      CALL SLEEP(5)
      GO TO 200
      END
```