

C

SPAC2.F4

CYBERNETIC LANDSCAPE 2: FIELDS

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COMMON /DEV DAT/ DKNOB(4), XJOY, YJOY, XPEN3D, YPEN3D, ZPEN3D,
1DSWCH, DLITS, PENDN, PENED, PENDX, PENDY, PENUX, PENUY, PENX, PENY
DIMENSION IARRAY(4,4), IXMOV(4,4), IZMOV(4,4)
DIMENSION IWORD(14), ICX(26), ICY(26), ICIRCL(3,2)
DIMENSION IDOT(3,3), ILINE(3,3), IBAR1(3,3), IBAR2(3,3)
DIMENSION IARA6(4,4), MMAN(4,4), IPX(4), IPY(4), IPZ(4)
DIMENSION IRA7(4,4)
DIMENSION IX(4), IY(4), IZ(4), ILETR(53)
DATA ILETR/0,'A',0,'B',0,'C',0,'D',0,'E',0,'F',0,'G',
1 0,'H',0,'I',0,'J',0,'K',0,'L',0,'M',0,'N',0,'O',0,
2 'P',0,'Q',0,'R',0,'S',0,'T',0,'U',0,'V',0,'W',0,
3 'X',0,'Y',0,'Z',0/
INTEGER UNIT,X,Y,Z
EXTERNAL STORE
  CALL ARINIT(STORE,10000,5)
  CALL MODE('3D')
  CALL MODE('MON')
  UNIT=10000
  RUNIT=UNIT
  IXTA=RUNIT/SQRT(2.)
    CALL DECITM('VERTS',0)
  IPX(1)=UNIT
  IPZ(1)=-UNIT
  IPX(2)=-UNIT
  IPZ(2)=UNIT
  IPX(3)=UNIT
  IPZ(3)=UNIT
  IPX(4)=-UNIT
  IPZ(4)=-UNIT
  IPY(1)=UNIT
  IPY(2)=2*UNIT
  IPY(3)=3*UNIT
  IPY(4)=4*UNIT
  DO 30 N=1,4
    IX(N)=IPX(N)
    IY(N)=IPY(N)
    IZ(N)=IPZ(N)
30  CONTINUE
    DO 100 N=1,2
40  IF (N.EQ.2) GOTO45
    CALL POS(IX(N),0,IZ(N))
    GO TO 50
45  CALL POS(IZ(N),0,IX(N))
50  CONTINUE
    CALL DRAWTR(0,IY(N),0)
    IX(N)=IX(N)+UNIT
    IF (IABS(IX(N)).LE.131071) GOTO40
    IZ(N)=IZ(N)-2*UNIT
    IF (IABS(IZ(N)).LE.131071) GOTO40
100 CONTINUE
    DO 150 N=3,4
      NX=0
      IXX=0
      IZZ=0
110 IF (N.EQ.4) GOTO120
      CALL PGS(IX(N),0,IZ(N))
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