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C =====  
C = ROUTINE 5. =  
C =====
```

PROGRAM GENLI

```
C ** ROUTINE TO LIST GENERATED SYSTEMS  
C **
```

```
CHARACTER FINAM * 21  
CHARACTER OUTFI * 21  
CHARACTER LINE * 134  
CHARACTER KAR * 1  
CHARACTER CPUNO * 8  
CHARACTER FDAT * 26  
CHARACTER LDAT * 26  
CHARACTER FSIZE * 13  
CHARACTER LSIZE * 13
```

```
EQUIVALENCE(IKAR,KAR)  
DATA FINAM /'(AUX)GEN-STATISTICS'//  
DATA OUTFI /' ' //
```

```
IANSW=1  
LUN=10  
NGEN=0  
NTOT=0  
M=0
```

```
C * OPEN THE FILE FINAM (LOGG-FILE)
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```
OPEN(LUN,ERR=500,FILE=FINAM,STATUS='OLD',ACCESS='R')
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```
C * ASK FOR CPU NUMBER
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```
50 CALL OUTCH(1,14B)  
CALL OUTCH(1,31B)  
WRITE(1,1001)  
IKAR=INCH(1).AND.177B  
IF(IKAR.EQ.15B)GOTO 30  
IKAR=ISHFT(IKAR,8)  
CPUNO(1:1)=KAR  
IANSW=0  
DO 40 I=2,8  
IKAR=INCH(1).AND.177B
```

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      IF(IKAR.EQ.15B)GOTO 30
      M=I
      IKAR=ISHFT(IKAR,8)
      CPUNO(I:I)=KAR
40    CONTINUE
      ITERM=INCH(1)
      IF(ITERM.EQ.215B)GOTO 30
      GOTO 50

C * ASK FOR OUTPUT-FILE

30    WRITE(1,1100)
      IKAR=INCH(1).AND.177B
      IF(IKAR.EQ.15B)GOTO 80
      DO 90 I=1,19
          IKAR=ISHFT(IKAR,8)
          OUTFI(I:I)=KAR
          IKAR=INCH(1).AND.177B
          IF(IKAR.EQ.15B)GOTO 85
90    CONTINUE
      WRITE(1,*)' FILE NAME IS TOO BIG!'

C * DEFAULT OUTPUT FILE IS TERMINAL

80    LUN1=1
      GOTO 60

C * OPEN SPECIFIED OUTPUT-FILE

85    LUN1=20
      OPEN(LUN1,ERR=550,FILE=OUTFI,ACCESS='W')
      CALL OUTCH(LUN1,14B)
      CALL OUTCH(LUN1,215B)
      CALL OUTCH(LUN1,12B)
      GOTO 60
550   FINAM=OUTFI
      GOTO 500

C * SEARCH LOGG-FILE FINAM TO EOF

60    READ(LUN,2000,ERR=600,END=700)LINE
      NTOT=NTOT+1
      IF(IANSW.EQ.1)GOTO 75
      IF(IANSW.NE.0)GOTO 800
      IF(LINE(1:M).EQ.CPUNO(1:M))GOTO 70
      GOTO 60
70    IF(NGEN.EQ.0)FDAT=LINE(98:123)
      IF(NGEN.EQ.0)FSIZE=LINE(82:94)
      NGEN=NGEN+1
      LDAT=LINE(98:123)
      LSIZE=LINE(82:94)
75    INO=IFILSNO(LUN1)
      IF(INO.EQ.1)GOTO 71
      IF(INO.EQ.5.OR.INO.EQ.15B.OR.INO.GE.120B)GOTO 72
      WRITE(LUN1,2000)LINE(1:132)
      GOTO 60
71    WRITE(LUN1,1002)NTOT,LINE(1:53),LINE(59:94),LINE(99:134)
      GOTO 60
72    WRITE(LUN1,1020)LINE
      GOTO 60

C * END OF FILE REACHED

700   IF(NGEN.EQ.0)GOTO 740
      IF(M.LT.8)GOTO 750
      CALL OUTCH(1,7)
      CALL OUTCH(1,12B)
      WRITE(1,3100)
      WRITE(1,3000)CPUNO,NGEN
      WRITE(1,3100)
      WRITE(1,3200)FDAT,FSIZE
      WRITE(1,3300)LDAT,LSIZE
      WRITE(1,3100)
      GOTO 800
740   CALL OUTCH(1,7)
      WRITE(1,5000)CPUNO
750   IF(M.EQ.0)NGEN=NTOT
      WRITE(1,4000)NTOT,NGEN
      WRITE(1,1003)
      GOTO 800

C *****
C * ERROR EXITS

500   IERR=ERRCODE
      WRITE(1,1004)FINAM,IERR
      CALL MON64(IERR)
      GOTO 800

600   IERR=ERRCODE
      WRITE(1,1005)FINAM,IERR
      CALL MON64

C *****
C * PROGRAM TERMINATES

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```
800 CLOSE(UNIT=-1)
WRITE(1,1006)
```

```
C *****
C * PRINT FORMATS
```

```
1000 FORMAT(/,1H$, *SPECIFIED (S) OR WHOLE LIST (W)? *)
1001 FORMAT(/,1H$, *CPU-NUMBER : *)
1002 FORMAT(1H ,*(,J3,)*,2X,A,/,1H ,20X,A,/,1H ,20X,A)
1003 FORMAT(/,1H ,*== END OF FILE ==*,/)
1004 FORMAT(/,1H ,*ERROR IN OPENING FILE : *,A,/,
1 1H ,*FILE-SYSTEM ERROR : *,Z3)
1005 FORMAT(/,1H ,*ERROR IN READING FROM FILE : *,A,/,
1 1H ,*FILE-SYSTEM ERROR : *,Z3)
1006 FORMAT(/,1H ,*----- EXIT -----*)
1020 FORMAT(1H ,A)
1100 FORMAT(/,1H$, *OUTPUT-FILE : *)
2000 FORMAT(A)
3000 FORMAT(1H ,*SYSTEM FOR : *,A,* GENERATED *,I3,* TIME(S)*)
3100 FORMAT(1H ,*=====*,
1 *=====*)
3200 FORMAT(1H ,*FIRST TIME : *,A,3X,A)
3300 FORMAT(1H ,*LAST TIME : *,A,3X,A)
4000 FORMAT(/,1H ,*NUMBER OF SYSTEMS LOGGED IS : *,I3,/,
1 1H ,*SYS. FOUND WITH THIS KEY IS : *,I3)
5000 FORMAT(/,1H ,*CPU-NUMBER : *,A,* IS NOT IN FILE!*)
```

```
END
```

```
EOF
```