****A START JOB 358 MAND#FOR ROOM 6.28.05 PM 07 JUN 20 PRINTER1 SYS TK4- JOB 358 START A****
****A START JOB 358 MAND#FOR ROOM 6.28.05 PM 07 JUN 20 PRINTER1 SYS TK4- JOB 358 START A****
****A START JOB 358 MAND#FOR ROOM 6.28.05 PM 07 JUN 20 PRINTER1 SYS TK4- JOB 358 START A****

J E S 2 J O B L O G

```
18.28.05 JOB  358  IEF677I WARNING MESSAGE(S) FOR JOB MAND#FOR ISSUED
18.28.05 JOB  358  $HASP373 MAND#FOR STARTED - INIT  1 - CLASS A - SYS TK4-
18.28.05 JOB  358  IEF403I MAND#FOR - STARTED - TIME=18.28.05
18.28.05 JOB  358  CCI001C FORT    /IEKAA00 /00:00:00.07/00:00:00/00000/        /MAND#FOR
18.28.05 JOB  358  CCI001C GO      /LOADER  /00:00:00.10/00:00:00/00000/        /MAND#FOR
18.28.05 JOB  358  IEF404I MAND#FOR - ENDED - TIME=18.28.05
18.28.05 JOB  358  $HASP395 MAND#FOR ENDED

------ JES2 JOB STATISTICS ------

 07 JUN 20 JOB EXECUTION DATE

          5 CARDS READ

        263 SYSOUT PRINT RECORDS

          0 SYSOUT PUNCH RECORDS

       0.00 MINUTES EXECUTION TIME
```

```
1     //MAND#FOR JOB CLASS=A,MSGCLASS=A,MSGLEVEL=(1,1),NOTIFY=HERC01,         JOB  358
      //            USER=HERC01,PASSWORD=         GENERATED BY IKJEFF10
2     // EXEC FORTHCG,PARM.FORT='OPT=2,XREF',PARM.GO=MAP
3     XXFORT EXEC PGM=IEKAA00,REGION=228K
4     XXSYSPRINT DD SYSOUT=A
5     XXSYSPUNCH DD SYSOUT=B
6     XXSYSLIN DD DSNAME=&LOADSET,UNIT=SYSSQ,DISP=(MOD,PASS),
      XX SPACE=(400,(200,50),RLSE)
7     //SYSUT2 DD DSNAME=&SYSUT2,UNIT=SYSDA,SPACE=(1024,(200,20))
8     //SYSIN DD DSN=MANDEL.TEST.SOURCE(MAND#FOR),DISP=SHR
9     XXGO EXEC PGM=LOADER,COND=(4,LT),
      XX PARM='LET,NORES,EP=MAIN'
10    XXSYSLIB DD DSNAME=SYS1.FORTLIB,DISP=SHR
11    XXSYSLOUT DD SYSOUT=A
12    XXSYSLIN DD DSNAME=&LOADSET,DISP=(OLD,DELETE)
13    XXFT05F001 DD DDNAME=SYSIN
14    XXFT06F001 DD SYSOUT=A
15    XXFT07F001 DD SYSOUT=B
```

```
 STMT NO. MESSAGE
-
    15     IEF686I DDNAME REFERRED TO ON DDNAME KEYWORD IN PRIOR STEP WAS NOT RESOLVED
IEF236I ALLOC. FOR MAND#FOR FORT
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
IEF237I 180  ALLOCATED TO SYSLIN
IEF237I 140  ALLOCATED TO SYSUT2
IEF237I 242  ALLOCATED TO SYSIN
IEF142I MAND#FOR FORT - STEP WAS EXECUTED - COND CODE 0000
IEF285I   JES2.JOB00358.S00101                          SYSOUT
IEF285I   JES2.JOB00358.S00102                          SYSOUT
IEF285I   SYS20159.T182805.RA000.MAND#FOR.LOADSET       PASSED        *-------36
IEF285I   VOL SER NOS= WORK02.
IEF285I   SYS20159.T182805.RA000.MAND#FOR.SYSUT2        DELETED       *--------9
IEF285I   VOL SER NOS= WORK00.
IEF285I   MANDEL.TEST.SOURCE                            KEPT          *--------2
IEF285I   VOL SER NOS= MV0001.
IEF373I STEP /FORT    / START 20159.1828
IEF374I STEP /FORT    / STOP  20159.1828 CPU    0MIN 00.07SEC SRB    0MIN 00.05SEC VIRT   292K SYS   208K
**** JOBCARD READ 20159 18:28:05 ***********************************************************************************
*                                      PRC-CCI  370/033 VS2 R03.8  TK4-  STEP STATISTICS                              *
*  STEP NAME  FORT        USER CORE        292K   TAPES USED/IO 000/000000000   START   TIME  18:28:05    TCB TIME  00:00:00.07  *
*  PGM  NAME  IEKAA00     SYSTEM CORE      208K   DISKS USED/IO 003/000000047   STOP    TIME  18:28:05    SRB TIME  00:00:00.05  *
*   COND CODE    0000     PRIVATE AREA SZ  228K       ALLOC TIME  18:28:05      ELAPSED TIME  00:00:00      PGM LOAD  18:28:05   *
** PGNO * NR SRV UNITS * ACTIVE TIME *** PAGES IN *** PAGES OUT * # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
*   004            523   00:00:00.25            0             0         0              0               0             0  *
***********************************************************************************************************************
*  CPU $ (     0.02) + EXCP $ (     0.06) + MEMORY $ (     0.05) = TOTAL $ (     0.13)                                 *
***********************************************************************************************************************
IEF236I ALLOC. FOR MAND#FOR GO
IEF237I 148  ALLOCATED TO SYSLIB
IEF237I JES2 ALLOCATED TO SYSLOUT
IEF237I 180  ALLOCATED TO SYSLIN
IEF237I DMY  ALLOCATED TO FT05F001
IEF237I JES2 ALLOCATED TO FT06F001
IEF237I JES2 ALLOCATED TO FT07F001
IEF142I MAND#FOR GO - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS1.FORTLIB                                  KEPT          *-------65
IEF285I   VOL SER NOS= MVSRES.
IEF285I   JES2.JOB00358.S00103                          SYSOUT
IEF285I   SYS20159.T182805.RA000.MAND#FOR.LOADSET       DELETED       *-------37
IEF285I   VOL SER NOS= WORK02.
IEF285I   JES2.JOB00358.S00104                          SYSOUT
IEF285I   JES2.JOB00358.S00105                          SYSOUT
IEF373I STEP /GO      / START 20159.1828
IEF374I STEP /GO      / STOP  20159.1828 CPU    0MIN 00.10SEC SRB    0MIN 00.01SEC VIRT   332K SYS   204K
***********************************************************************************************************************
*                                      PRC-CCI  370/033 VS2 R03.8  TK4-  STEP STATISTICS                              *
*  STEP NAME  GO          USER CORE        332K   TAPES USED/IO 000/000000000   START   TIME  18:28:05    TCB TIME  00:00:00.10  *
*  PGM  NAME  LOADER      SYSTEM CORE      204K   DISKS USED/IO 002/000000102   STOP    TIME  18:28:05    SRB TIME  00:00:00.01  *
*   COND CODE    0000     PRIVATE AREA SZ  768K       ALLOC TIME  18:28:05      ELAPSED TIME  00:00:00      PGM LOAD  18:28:05   *
** PGNO * NR SRV UNITS * ACTIVE TIME *** PAGES IN *** PAGES OUT * # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
*   004            862   00:00:00.16            0             0         0              0               0             0  *
***********************************************************************************************************************
*  CPU $ (     0.03) + EXCP $ (     0.13) + MEMORY $ (     0.09) = TOTAL $ (     0.25)                                 *
***********************************************************************************************************************
IEF375I  JOB /MAND#FOR/ START 20159.1828
IEF376I  JOB /MAND#FOR/ STOP  20159.1828 CPU    0MIN 00.17SEC SRB    0MIN 00.06SEC
```

```
          COMPILER OPTIONS - NAME=  MAIN,OPT=02,LINECNT=50,SIZE=0000K,
                             SOURCE,EBCDIC,NOLIST,NODECK,LOAD,NOMAP,NOEDIT,NOID,XREF
                C
                C     COSTANTI GLOBALI
                C
   ISN 0002             BLOCK DATA
   ISN 0003             COMMON XSIZE,YSIZE,MAXIT,STR
   ISN 0004             INTEGER XSIZE/131/,YSIZE/48/,MAXIT/27/
                C
                C     DIMENSIONE DI STR = MAXIT
                C
   ISN 0005             LOGICAL*1 STR(27)/'A','B','C','D','E','F','G','H','I',
                       &                  'J','K','L','M','N','O','P','Q','R',
                       &                  'S','T','U','V','W','X','Y','Z',' '/
   ISN 0006             END
```

```
SYMBOL  INTERNAL STATEMENT NUMBERS
STR     0003  0005  0005
MAXIT   0003  0004  0004
XSIZE   0003  0004  0004
YSIZE   0003  0004  0004

*OPTIONS IN EFFECT*      NAME=  MAIN,OPT=02,LINECNT=50,SIZE=0000K,

*OPTIONS IN EFFECT*      SOURCE,EBCDIC,NOLIST,NODECK,LOAD,NOMAP,NOEDIT,NOID,XREF

*STATISTICS*     SOURCE STATEMENTS =       5 ,PROGRAM SIZE =        8

*STATISTICS*  NO  DIAGNOSTICS GENERATED

****** END OF COMPILATION ******                                  29K BYTES OF CORE NOT USED
```

```
          COMPILER OPTIONS - NAME=  MAIN,OPT=02,LINECNT=50,SIZE=0000K,
                             SOURCE,EBCDIC,NOLIST,NODECK,LOAD,NOMAP,NOEDIT,NOID,XREF
                C
                C     CALCOLA & STAMPA
                C
    ISN 0002            SUBROUTINE MANDEL(MINRE,MINIM,MAXRE,MAXIM)
    ISN 0003            COMMON XSIZE,YSIZE,MAXIT,STR
    ISN 0004            INTEGER X,Y,N,XSIZE,YSIZE,MAXIT
    ISN 0005            DOUBLE PRECISION MINRE,MINIM,MAXRE,MAXIM,
                       &                 STEPX,STEPY,RE,IM,ZR,ZI,A,B
    ISN 0006            LOGICAL*1 LINE(132),STR(27)
    ISN 0007            STEPX=(MAXRE-MINRE)/XSIZE
    ISN 0008            STEPY=(MAXIM-MINIM)/YSIZE
    ISN 0009            DO 40 Y=0,YSIZE
    ISN 0010              IM=MINIM+STEPY*Y
    ISN 0011              DO 30 X=0,XSIZE
    ISN 0012                RE=MINRE+STEPX*X
    ISN 0013                ZR=RE
    ISN 0014                ZI=IM
    ISN 0015                N=1
    ISN 0016     10         A=ZR*ZR
    ISN 0017                B=ZI*ZI
    ISN 0018                IF((A+B).GT.4) GOTO 20
    ISN 0020                ZI=ZR*ZI*2+IM
    ISN 0021                ZR=A-B+RE
    ISN 0022                N=N+1
    ISN 0023                IF(N.LT.MAXIT) GOTO 10
    ISN 0025     20         LINE(X+1)=STR(N)
    ISN 0026     30       CONTINUE
    ISN 0027              WRITE(6,100) LINE
    ISN 0028     40     CONTINUE
    ISN 0029            RETURN
    ISN 0030     100    FORMAT(1X,132A1)
    ISN 0031            END
```

SYMBOL	INTERNAL STATEMENT NUMBERS					
A	0005	0016	0018	0021		
B	0005	0017	0018	0021		
N	0004	0015	0022	0022	0023	0025
X	0004	0011	0012	0025		
Y	0004	0009	0010			
IM	0005	0010	0014	0020		
RE	0005	0012	0013	0021		
ZI	0005	0014	0017	0017	0020	0020
ZR	0005	0013	0016	0016	0020	0021
STR	0003	0006	0025			
LINE	0006	0025	0027			
MAXIM	0002	0005	0008			
MAXIT	0003	0004	0023			
MAXRE	0002	0005	0007			
MINIM	0002	0005	0008	0010		
MINRE	0002	0005	0007	0012		
STEPX	0005	0007	0012			
STEPY	0005	0008	0010			
XSIZE	0003	0004	0007	0011		
YSIZE	0003	0004	0008	0009		
MANDEL	0002					

LABEL	DEFINED	REFERENCES
10	0016	0023
20	0025	0018
30	0026	0011
40	0028	0009
100	0030	0027

OPTIONS IN EFFECT NAME= MAIN,OPT=02,LINECNT=50,SIZE=0000K,

OPTIONS IN EFFECT SOURCE,EBCDIC,NOLIST,NODECK,LOAD,NOMAP,NOEDIT,NOID,XREF

STATISTICS SOURCE STATEMENTS = 30 ,PROGRAM SIZE = 892

STATISTICS NO DIAGNOSTICS GENERATED

****** END OF COMPILATION ****** 25K BYTES OF CORE NOT USED

```
          COMPILER OPTIONS - NAME=  MAIN,OPT=02,LINECNT=50,SIZE=0000K,
                             SOURCE,EBCDIC,NOLIST,NODECK,LOAD,NOMAP,NOEDIT,NOID,XREF
                C
                C     PROGRAMMA PRINCIPALE
                C
   ISN 0002             CALL MANDEL(-2.,-1.,1.,1.)
   ISN 0003             STOP
   ISN 0004             END
```

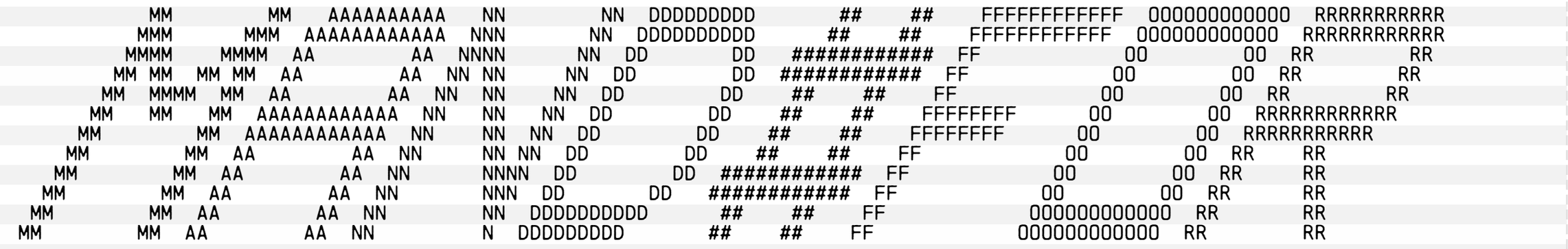
```
SYMBOL  INTERNAL STATEMENT NUMBERS
MANDEL  0002

*OPTIONS IN EFFECT*      NAME=  MAIN,OPT=02,LINECNT=50,SIZE=0000K,

*OPTIONS IN EFFECT*      SOURCE,EBCDIC,NOLIST,NODECK,LOAD,NOMAP,NOEDIT,NOID,XREF

*STATISTICS*     SOURCE STATEMENTS =       3 ,PROGRAM SIZE =      234

*STATISTICS*  NO  DIAGNOSTICS GENERATED

****** END OF COMPILATION ******                                  29K BYTES OF CORE NOT USED

*STATISTICS*  NO  DIAGNOSTICS THIS STEP
```

VS LOADER

OPTIONS USED - PRINT,MAP,NOLET,CALL,RES,NOTERM,SIZE=307200,NAME=**GO

NAME	TYPE	ADDR	NAME	TYPE	ADDR	NAME	TYPE	ADDR	NAME	TYPE	ADDR	NAME	TYPE	ADDR
	SD	AC010	MANDEL	SD	AC038	MAIN	SD	AC3B8	IHCECOMH*	SD	AC4A8	IBCOM# *	LR	AC4A8
FDIOCS# *	LR	AC564	INTSWTCH*	LR	AD3EE	IHCCOMH2*	SD	AD410	SEQDASD *	LR	AD788	IHCFCVTH*	SD	ADA70
ADCON# *	LR	ADA70	FCVAOUTP*	LR	ADB1A	FCVLOUTP*	LR	ADBAA	FCVZOUTP*	LR	ADD02	FCVIOUTP*	LR	AE0B6
FCVEOUTP*	LR	AE5B8	FCVCOUTP*	LR	AE7D2	INT6SWCH*	LR	AEABB	IHCEFIOS*	SD	AEC28	FIOCS# *	LR	AEC28
FIOCSBEP*	LR	AEC2E	IHCFIOS2*	SD	AFB50	IHCEFNTH*	SD	B0080	ARITH# *	LR	B0080	ADJSWTCH*	LR	B041C
IHCUOPT *	SD	B05C8	IHCERRM *	SD	B08C8	ERRMON *	LR	B08C8	IHCERRE *	LR	B08E0	IHCUATBL*	SD	B0EA8
IHCETRCH*	SD	B14E0	IHCTRCH *	LR	B14E0	ERRTRA *	LR	B14E8						

TOTAL LENGTH 5760
ENTRY ADDRESS AC3B8




```
****A   END   JOB  358  MAND#FOR                    ROOM       6.28.05 PM 07 JUN 20  PRINTER1  SYS TK4-  JOB  358   END   A****
****A   END   JOB  358  MAND#FOR                    ROOM       6.28.05 PM 07 JUN 20  PRINTER1  SYS TK4-  JOB  358   END   A****
****A   END   JOB  358  MAND#FOR                    ROOM       6.28.05 PM 07 JUN 20  PRINTER1  SYS TK4-  JOB  358   END   A****
```