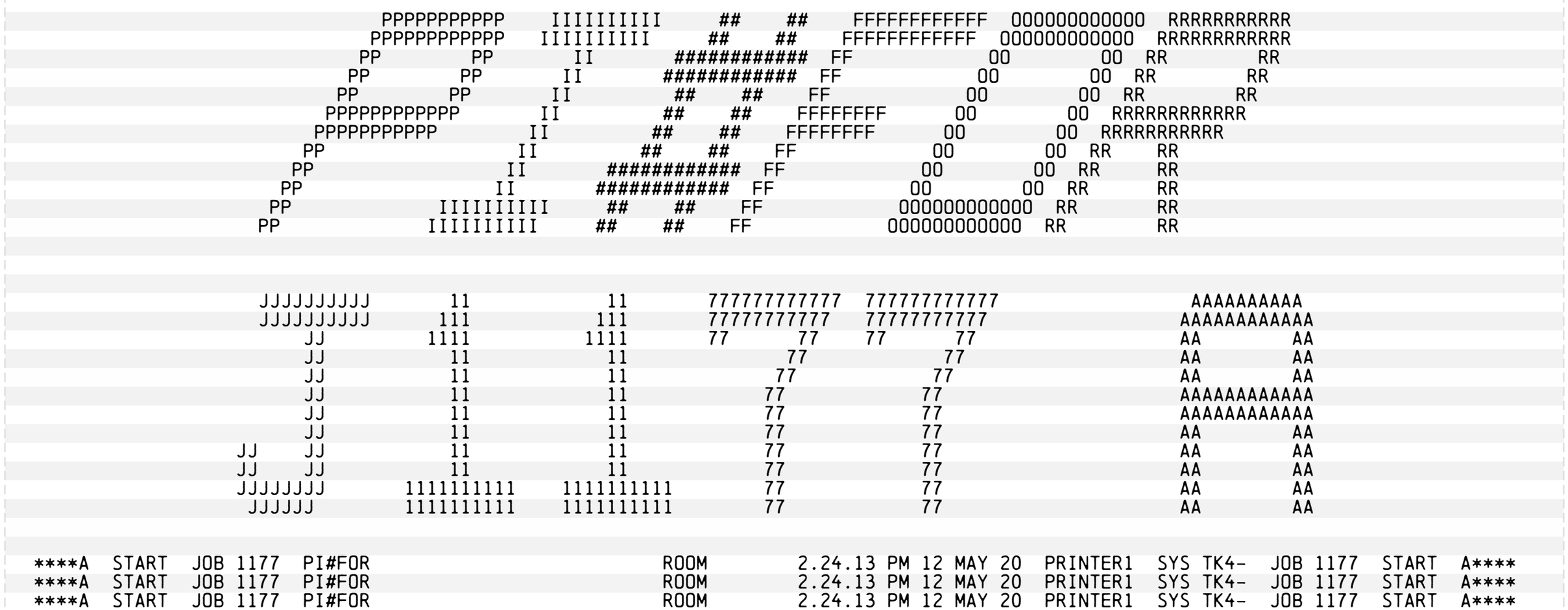


****A START JOB 1177 PI#FOR ROOM 2.24.13 PM 12 MAY 20 PRINTER1 SYS TK4- JOB 1177 START A****
****A START JOB 1177 PI#FOR ROOM 2.24.13 PM 12 MAY 20 PRINTER1 SYS TK4- JOB 1177 START A****
****A START JOB 1177 PI#FOR ROOM 2.24.13 PM 12 MAY 20 PRINTER1 SYS TK4- JOB 1177 START A****

J E S 2 J O B L O G

```
14.24.12 JOB 1177  IEF677I WARNING MESSAGE(S) FOR JOB PI#FOR   ISSUED
14.24.12 JOB 1177  $HASP373 PI#FOR   STARTED - INIT  1 - CLASS A - SYS TK4-
14.24.12 JOB 1177  IEF403I PI#FOR - STARTED - TIME=14.24.12
14.24.12 JOB 1177  IEFACTRT - STEPNAME  PROCSTEP  PROGRAM   RETCODE
14.24.12 JOB 1177  PI#FOR     ASM                 IFOX00    RC= 0000
14.24.12 JOB 1177  PI#FOR     FORT                IEKAA00   RC= 0000
14.24.13 JOB 1177  PI#FOR     GO                  LOADER    RC= 0000
14.24.13 JOB 1177  IEF404I PI#FOR - ENDED - TIME=14.24.13
14.24.13 JOB 1177  $HASP395 PI#FOR   ENDED

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

 12 MAY 20 JOB EXECUTION DATE

          9 CARDS READ

        291 SYSOUT PRINT RECORDS

          0 SYSOUT PUNCH RECORDS

       0.01 MINUTES EXECUTION TIME
```

```
 1      //PI#FOR JOB REGION=256K,CLASS=A,MSGCLASS=A,MSGLEVEL=(1,1),              JOB 1177
        // NOTIFY=HERC01,                                                       IKJEFF10
        //             USER=HERC01,PASSWORD=         GENERATED BY IKJEFF10
 2      // EXEC ASMFC,PARM='NODECK,OBJECT'
 3      XXASMFC    PROC  MAC='SYS1.MACLIB',MAC1='SYS1.MACLIB',                  00000100
        XX         MAC2='SYS1.MACLIB',MAC3='SYS1.MACLIB',SOUT='*'               00000200
 4      XXASM      EXEC  PGM=IFOX00,REGION=128K                                 00000300
 5      XXSYSLIB   DD    DSN=&MAC,DISP=SHR                                      00000400
 6      XX         DD    DSN=&MAC1,DISP=SHR                                     00000500
 7      XX         DD    DSN=&MAC2,DISP=SHR                                     00000600
 8      XX         DD    DSN=&MAC3,DISP=SHR                                     00000700
 9      XXSYSUT1   DD    DSN=&&SYSUT1,UNIT=SYSSQ,SPACE=(1700,(600,100)),        00000800
        XX              SEP=(SYSLIB)                                          00000900
10      XXSYSUT2   DD    DSN=&&SYSUT2,UNIT=SYSSQ,SPACE=(1700,(300,50)),         00001000
        XX              SEP=(SYSLIB,SYSUT1)                                   00001100
11      XXSYSUT3   DD    DSN=&&SYSUT3,UNIT=SYSSQ,SPACE=(1700,(300,50))          00001200
12      XXSYSPRINT DD    SYSOUT=&SOUT,DCB=BLKSIZE=1089                          00001300
13      XXSYSPUNCH DD    SYSOUT=B                                               00001400
14      //SYSIN DD DSN=ASSEMBLY.TEST.SOURCE(I2A),DISP=SHR
15      //SYSGO DD DSN=&&LOADSET,UNIT=SYSDA,SPACE=(80,(200,50)),DISP=(MOD,PASS)
16      // EXEC FORTHCG,PARM.FORT='OPT=2,XREF',PARM.GO=MAP
17      XXFORT EXEC PGM=IEKAA00,REGION=228K
18      XXSYSPRINT DD SYSOUT=A
19      XXSYSPUNCH DD SYSOUT=B
20      XXSYSLIN DD DSNAME=&LOADSET,UNIT=SYSSQ,DISP=(MOD,PASS),
        XX SPACE=(400,(200,50),RLSE)
21      //SYSUT2 DD DSNAME=&SYSUT1,UNIT=SYSDA,SPACE=(1024,(200,20)),SEP=SYSLMOD
22      //SYSIN DD DSN=PI.TEST.SOURCE(PI#FOR),DISP=SHR
23      XXGO EXEC PGM=LOADER,COND=(4,LT),
        XX PARM='LET,NORES,EP=MAIN'
24      XXSYSLIB DD DSNAME=SYS1.FORTLIB,DISP=SHR
25      XXSYSLOUT DD SYSOUT=A
26      XXSYSLIN DD DSNAME=&LOADSET,DISP=(OLD,DELETE)
27      XXFT05F001 DD DDNAME=SYSIN
28      XXFT06F001 DD SYSOUT=A
29      XXFT07F001 DD SYSOUT=B
```

```
 STMT NO. MESSAGE
-
     5       IEF653I SUBSTITUTION JCL - DSN=SYS1.MACLIB,DISP=SHR
     6       IEF653I SUBSTITUTION JCL - DSN=SYS1.MACLIB,DISP=SHR
     7       IEF653I SUBSTITUTION JCL - DSN=SYS1.MACLIB,DISP=SHR
     8       IEF653I SUBSTITUTION JCL - DSN=SYS1.MACLIB,DISP=SHR
    12       IEF653I SUBSTITUTION JCL - SYSOUT=*,DCB=BLKSIZE=1089
    29       IEF686I DDNAME REFERRED TO ON DDNAME KEYWORD IN PRIOR STEP WAS NOT RESOLVED
IEF236I ALLOC. FOR PI#FOR ASM
IEF237I 148  ALLOCATED TO SYSLIB
IEF237I 148  ALLOCATED TO
IEF237I 148  ALLOCATED TO
IEF237I 148  ALLOCATED TO
IEF237I 140  ALLOCATED TO SYSUT1
IEF237I 170  ALLOCATED TO SYSUT2
IEF237I 190  ALLOCATED TO SYSUT3
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
IEF237I 242  ALLOCATED TO SYSIN
IEF237I 180  ALLOCATED TO SYSGO
IEF142I PI#FOR ASM - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS1.MACLIB                                KEPT          *--------0
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS1.MACLIB                                KEPT          *--------0
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS1.MACLIB                                KEPT          *--------0
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS1.MACLIB                                KEPT          *--------0
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS20133.T142412.RA000.PI#FOR.SYSUT1       DELETED       *--------8
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS20133.T142412.RA000.PI#FOR.SYSUT2       DELETED       *--------7
IEF285I   VOL SER NOS= WORK01.
IEF285I   SYS20133.T142412.RA000.PI#FOR.SYSUT3       DELETED       *--------7
IEF285I   VOL SER NOS= WORK03.
IEF285I   JES2.JOB01177.S00101                       SYSOUT
IEF285I   JES2.JOB01177.S00102                       SYSOUT
IEF285I   ASSEMBLY.TEST.SOURCE                       KEPT          *--------2
IEF285I   VOL SER NOS= MV0001.
IEF285I   SYS20133.T142412.RA000.PI#FOR.LOADSET      PASSED        *--------3
IEF285I   VOL SER NOS= WORK02.
IEF373I STEP /ASM     / START 20133.1424
IEF374I STEP /ASM     / STOP  20133.1424 CPU    0MIN 00.06SEC SRB    0MIN 00.01SEC VIRT   256K SYS   196K
*********************************************************************************************************************
*     1. JOBSTEP OF JOB: PI#FOR      STEPNAME: ASM         PROGRAM NAME: IFOX00     EXECUTED ON 12.05.20 FROM 14.24.12 TO 14.24.12 *
*         ELAPSED TIME  24:00:00,19                   CPU-IDENTIFIER:  TK4-           PAGE-IN:      0                           *
*             CPU TIME  00:00:00,07              VIRTUAL STORAGE USED:    256K        PAGE-OUT:     0                           *
*           CORR. CPU:  00:00:00,07   CPU TIME HAS BEEN CORRECTED BY  1 / 1,0  MULTIPLIER                                      *
*                                                                                                                             *
*     I/O OPERATION                                                                                                           *
*     NUMBER OF RECORDS READ VIA DD * OR DD DATA:      0                                                                      *
*     148.......0 148.......0 148.......0 148.......0 140.......8 170.......7 190.......7 DMY.......0 DMY.......0 242.......2      *
*     180.......3                                                                                                             *
*                                                                                                                             *
*                                        CHARGE FOR STEP (W/O SYSOUT):          0,11                                      *
*********************************************************************************************************************
IEF236I ALLOC. FOR PI#FOR FORT
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
IEF237I 180  ALLOCATED TO SYSLIN
IEF237I 170  ALLOCATED TO SYSUT2
IEF237I 242  ALLOCATED TO SYSIN
IEF142I PI#FOR FORT - STEP WAS EXECUTED - COND CODE 0000
```

```
IEF285I   JES2.JOB01177.S00103                    SYSOUT
IEF285I   JES2.JOB01177.S00104                    SYSOUT
IEF285I   SYS20133.T142412.RA000.PI#FOR.LOADSET   PASSED        *------264
IEF285I   VOL SER NOS= WORK02.
IEF285I   SYS20133.T142412.RA000.PI#FOR.SYSUT1    DELETED       *--------3
IEF285I   VOL SER NOS= WORK01.
IEF285I   PI.TEST.SOURCE                          KEPT          *--------2
IEF285I   VOL SER NOS= MV0001.
IEF373I STEP /FORT    / START 20133.1424
IEF374I STEP /FORT    / STOP  20133.1424 CPU    0MIN 00.06SEC SRB    0MIN 00.05SEC VIRT   320K SYS   168K
*********************************************************************************************************************
*     2. JOBSTEP OF JOB: PI#FOR      STEPNAME: FORT        PROGRAM NAME: IEKAA00    EXECUTED ON 12.05.20 FROM 14.24.12 TO 14.24.12 *
*         ELAPSED TIME  24:00:00,28                    CPU-IDENTIFIER:  TK4-          PAGE-IN:      0                          *
*             CPU TIME  00:00:00,11              VIRTUAL STORAGE USED:    320K        PAGE-OUT:     0                          *
*           CORR. CPU:  00:00:00,11   CPU TIME HAS BEEN CORRECTED BY  1 / 1,0  MULTIPLIER                                    *
*                                                                                                                           *
*     I/O OPERATION                                                                                                         *
*     NUMBER OF RECORDS READ VIA DD * OR DD DATA:      0                                                                    *
*     DMY.......0 DMY.......0 180.....264 170.......3 242.......2                                                           *
*                                                                                                                           *
*                                          CHARGE FOR STEP (W/O SYSOUT):          0,18                                  *
*********************************************************************************************************************
IEF236I ALLOC. FOR PI#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 PI#FOR GO - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS1.FORTLIB                            KEPT          *-------65
IEF285I   VOL SER NOS= MVSRES.
IEF285I   JES2.JOB01177.S00105                    SYSOUT
IEF285I   SYS20133.T142412.RA000.PI#FOR.LOADSET   DELETED       *------268
IEF285I   VOL SER NOS= WORK02.
IEF285I   JES2.JOB01177.S00106                    SYSOUT
IEF285I   JES2.JOB01177.S00107                    SYSOUT
IEF373I STEP /GO      / START 20133.1424
IEF374I STEP /GO      / STOP  20133.1424 CPU    0MIN 00.28SEC SRB    0MIN 00.05SEC VIRT   256K SYS   168K
*********************************************************************************************************************
*     3. JOBSTEP OF JOB: PI#FOR      STEPNAME: GO          PROGRAM NAME: LOADER     EXECUTED ON 12.05.20 FROM 14.24.12 TO 14.24.13 *
*         ELAPSED TIME  24:00:00,58                    CPU-IDENTIFIER:  TK4-          PAGE-IN:      0                          *
*             CPU TIME  00:00:00,33              VIRTUAL STORAGE USED:    256K        PAGE-OUT:     0                          *
*           CORR. CPU:  00:00:00,33   CPU TIME HAS BEEN CORRECTED BY  1 / 1,0  MULTIPLIER                                    *
*                                                                                                                           *
*     I/O OPERATION                                                                                                         *
*     NUMBER OF RECORDS READ VIA DD * OR DD DATA:      0                                                                    *
*     148......65 DMY.......0 180.....268 DMY.......0 DMY.......0 DMY.......0                                               *
*                                                                                                                           *
*                                          CHARGE FOR STEP (W/O SYSOUT):          0,55                                  *
*********************************************************************************************************************
IEF375I  JOB /PI#FOR  / START 20133.1424
IEF376I  JOB /PI#FOR  / STOP  20133.1424 CPU    0MIN 00.40SEC SRB    0MIN 00.11SEC
```

SYMBOL TYPE ID ADDR LENGTH LDID ASM 0201 14.24 05/12/20

I2A SD 0001 000000 000038

```
 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                                  ASM 0201 14.24 05/12/20

                                     1 * CHIAMATA DA FORTRAN PER POTER STAMPARE UN INTERO 'ZERO PADDED'
                                     2 * INPUT  INTEGER*4 DA 0 A 9999
                                     3 * OUTPUT INTEGER*4 CONVERTITO IN 4 CARATTERI
```

```
  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                                ASM 0201 14.24 05/12/20

000000                               5 I2A      CSECT
000000 90EC D00C      0000C          6          STM   14,12,12(13)   SALVA REGISTRI DEL CHIAMANTE
                                     7          USING I2A,15         STABILISCE INDIRIZZO BASE
000004 9823 1000      00000          8          LM    2,3,0(1)       INDIRIZZO DEI 2 ARGOMENTI IN R2 E R3
000008 5842 0000      00000          9          L     4,0(2)         R4=VALORE DI NUM
00000C 4E40 F030      00030         10          CVD   4,WRK          CONVERTE NUM IN DECIMALE
000010 F332 F030 F035 00030 00035   11          UNPK  WRK(4),WRK+5(3) CONVERTE DECIMALE IN ALPHA
000016 96F0 F033      00033         12          OI    WRK+3,C'0'     AZZERA BYTE DI SEGNO
00001A 4113 0000      00000         13          LA    1,0(3)         R1=INDIRIZZO DI STR
00001E D203 1000 F030 00000 00030   14          MVC   0(4,1),WRK     MUOVE ALPHA IN STR
000024 98EC D00C      0000C         15          LM    14,12,12(13)   RIPRENDE REGISTRI DEL CHIAMANTE
000028 07FE                         16          BR    14             RITORNA AL CHIAMAMTE
00002A 000000000000
000030 0000000000000000             17 WRK      DC    D'0'           SPAZIO DI LAVORO
                                    18          END
```

SYMBOL LEN VALUE DEFN REFERENCES ASM 0201 14.24 05/12/20

```
I2A      00001 00000000 00005  00007
WRK      00008 00000030 00017  00010 00011 00011 00012 00014
```

```
NO STATEMENTS FLAGGED IN THIS ASSEMBLY
HIGHEST SEVERITY WAS    0
OPTIONS FOR THIS ASSEMBLY
  ALIGN, ALOGIC, BUFSIZE(STD), NODECK, ESD, FLAG(0), LINECOUNT(55), LIST, NOMCALL, YFLAG, WORKSIZE(2097152)
  NOMLOGIC, NONUMBER, OBJECT, NORENT, RLD, NOSTMT, NOLIBMAC, NOTERMINAL, NOTEST, XREF(SHORT)
  SYSPARM()
WORK FILE BUFFER SIZE/NUMBER =12798/ 1
TOTAL RECORDS READ FROM SYSTEM INPUT         18
TOTAL RECORDS READ FROM SYSTEM LIBRARY        0
TOTAL RECORDS PUNCHED                         3
TOTAL RECORDS PRINTED                        42
```

```
          COMPILER OPTIONS - NAME=  MAIN,OPT=02,LINECNT=50,SIZE=0000K,
                             SOURCE,EBCDIC,NOLIST,NODECK,LOAD,NOMAP,NOEDIT,NOID,XREF
               C INSPIRATO ALLA VERSIONE CHE SI TROVA SU ROSETTACODE
               C LE MODIFICHE RIGUARDANO:
               C  * LAVORA CON BASE 10000 INVECE CHE 100000
               C    QUESTO PERCHÉ UN INTEGER = 4 CARATTERI
               C  * BUFFER CONTIENE 4 CARATTERI PER ELEMENTO INVECE CHE 5 CIFRE
               C    QUESTO PERCHÉ NON ESISTE IL FORMAT "ZERO PADDING"
               C    QUINDI È STATO DIMENSIONATO A 251 PER 1000 CARATTERI
               C  * ELIMINATO IL DO 10 LOOP, SOSTITUITO CON IF & GO TO
               C    QUESTO PERCHÉ IL PASSO DEL DO NON PUÒ ESSERE = -1
               C  * STAMPA 100 CIFRE PER LINEA INVECE CHE 50
               C    QUESTO PERCHÉ 4 NON DIVIDE 50, MENTRE 5 SI
               C
               C COME DETTO I VETTORI SONO DIMENSIONATI PER 1000 CIFRE
    ISN 0002             INTEGER VECT(3350)/3350*2/
    ISN 0003             INTEGER BUFFER(251)
    ISN 0004             INTEGER DV/3350/,DB/251/,BASE/10000/
    ISN 0005             INTEGER MORE/0/,KARRAY,NUM,K,L,N
    ISN 0006             DO 20 N=1,DB
    ISN 0007               KARRAY=0
    ISN 0008               L=DV
    ISN 0009     10        NUM=BASE*VECT(L)+KARRAY*L
    ISN 0010               KARRAY=NUM/(2*L-1)
    ISN 0011               VECT(L)=NUM-KARRAY*(2*L-1)
    ISN 0012               L=L-1
    ISN 0013               IF(L.NE.0) GO TO 10
    ISN 0015               K=KARRAY/BASE
               C CONVERTE UN NUMERO IN UNA STRINGA DI 4 CARATTERI (CON ZERO INIZIALI)
    ISN 0016                 CALL I2A(MORE+K,BUFFER(N))
    ISN 0017                 MORE=KARRAY-K*BASE
    ISN 0018     20    CONTINUE
               C SOLO NEL CASO DI BUFFER(1) GLI ZERO INIZIALI SONO "SCONVENIENTI"
               C SI ASSUME CHE IL VALORE DI PI ABBIA COME UNICA CIFRA INTERA 3
    ISN 0019             WRITE(6,100) (BUFFER(N),N=2,DB)
    ISN 0020     100     FORMAT(' 3.'25A4/(3X25A4))
    ISN 0021             STOP
    ISN 0022             END
```

SYMBOL	INTERNAL STATEMENT NUMBERS									
K	0005	0015	0016	0017						
L	0005	0008	0009	0009	0010	0011	0011	0012	0012	0013
N	0005	0006	0016	0019	0019	0019				
DB	0004	0004	0006	0019						
DV	0004	0004	0008							
I2A	0016									
NUM	0005	0009	0010	0011						
BASE	0004	0004	0009	0015	0017					
MORE	0005	0005	0016	0017						
VECT	0002	0002	0009	0011						
BUFFER	0003	0016	0019							
KARRAY	0005	0007	0009	0010	0011	0015	0017			

```
 LABEL   DEFINED   REFERENCES
   10    0009      0013
   20    0018      0006
  100    0020      0019

*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 =      21 ,PROGRAM SIZE =    15004

*STATISTICS*  NO  DIAGNOSTICS GENERATED

****** END OF COMPILATION ******                                  57K BYTES OF CORE NOT USED
```

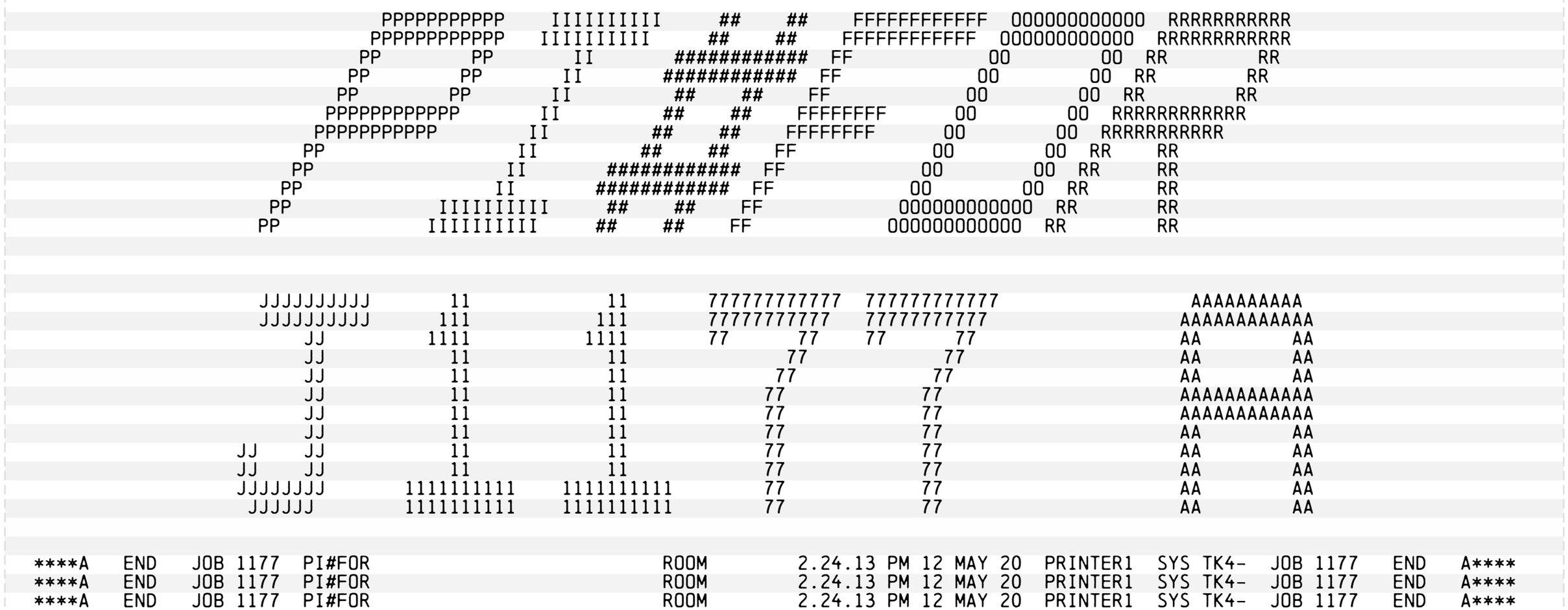
VS LOADER

OPTIONS USED - PRINT,MAP,NOLET,CALL,RES,NOTERM,SIZE=229376,NAME=**GO

NAME	TYPE	ADDR	NAME	TYPE	ADDR	NAME	TYPE	ADDR	NAME	TYPE	ADDR	NAME	TYPE	ADDR
I2A	SD	AC010	MAIN	SD	AC048	IHCECOMH*	SD	AFAE8	IBCOM# *	LR	AFAE8	FDIOCS# *	LR	AFBA4
INTSWTCH*	LR	B0A2E	IHCCOMH2*	SD	B0A50	SEQDASD *	LR	B0DC8	IHCFCVTH*	SD	B10B0	ADCON# *	LR	B10B0
FCVAOUTP*	LR	B115A	FCVLOUTP*	LR	B11EA	FCVZOUTP*	LR	B1342	FCVIOUTP*	LR	B16F6	FCVEOUTP*	LR	B1BF8
FCVCOUTP*	LR	B1E12	INT6SWCH*	LR	B20FB	IHCEFIOS*	SD	B2268	FIOCS# *	LR	B2268	FIOCSBEP*	LR	B226E
IHCFIOS2*	SD	B3190	IHCEFNTH*	SD	B36C0	ARITH# *	LR	B36C0	ADJSWTCH*	LR	B3A5C	IHCUOPT *	SD	B3C08
IHCERRM *	SD	B3F08	ERRMON *	LR	B3F08	IHCERRE *	LR	B3F20	IHCUATBL*	SD	B44E8	IHCETRCH*	SD	B4B20
IHCTRCH *	LR	B4B20	ERRTRA *	LR	B4B28									

TOTAL LENGTH 8DA0
ENTRY ADDRESS AC048

3.14159265358979323846264338327950288419716939937510582097494459230781640628620899862803482534211706798214808651328230664709384460955058223172535940812848111745028410270193852110555964462294895493038196442881097566593344612847564823378678316527120190914564856692346034861045432664821339360726024914127372458700660631558817488152092096282925409171536436789259036001133053054882046652138414695194151160943305727036575959195309218611738193261179310511854807446237996274956735188575272489122793818301194912983367336244065664308602139494639522473719070217986094370277053921717629317675238467481846766940513200056812714526356082778577134275778960917363717872146844090122495343014654958537105079227968925892354201995611212902196086403441815981362977477130996051870721134999999837297804995105973173281609631859502445945534690830264252230825334468503526193118817101000313783875288658753320838142061717766914730359825349042875546873115956286388235378759375195778185778053217122680661300192787661119590921642019890



****A END JOB 1177 PI#FOR ROOM 2.24.13 PM 12 MAY 20 PRINTER1 SYS TK4- JOB 1177 END A****
****A END JOB 1177 PI#FOR ROOM 2.24.13 PM 12 MAY 20 PRINTER1 SYS TK4- JOB 1177 END A****
****A END JOB 1177 PI#FOR ROOM 2.24.13 PM 12 MAY 20 PRINTER1 SYS TK4- JOB 1177 END A****