



DIGI

ASSEMBLY LISTINGS

NEW BOOTSTRAP (4x4) } REQUIRE NEW I.P.L  
NEW BOOTSTRAP (8+8) }

NEW MNLDSA (both formats) corrigé pour chgt absolu

NEW DUMPSA (both formats)

NEW DMLPSA (ASR or LP)



#:JOB PARIS,0005

\*JCP#6

#\*\*\*\* CLOCK= 23 /05 /72 AT 16H-46M-59S-

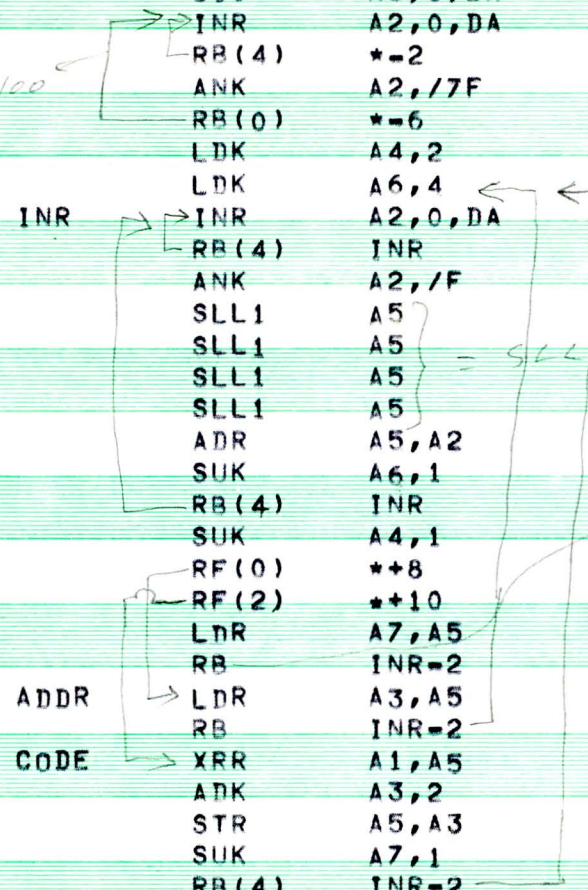
#:SAS

4x4

```

00000          IDENT   BOOT
00001          * BOOTSTRAP FOR 4*4 FORMAT FROM ASR (/10) OR PTR (/20)
00002          * BOOTSTRAP FOR P850/855/860
00003          * BEFORE STARTING SET REGISTERS : A3= 1 (ASR ONLY)
00004          *
00005          *
00006          DA      EQU      /10          FOR ASR (/20 FOR PTR)
00007          S      EQU      1
00008          H      EQU      0
00009  0000  20BF
00010  0002  43D0
00011  0004  4A10
00012  0006  5C04
00013  0008  227F
00014  000A  5808
00015  000C  0402
00016  000E  0604
00017  0010  4A10
00018  0012  5C04
00019  0014  220F
00020  0016  3D41
00021  0018  3D41
00022  001A  3D41
00023  001C  3D41
00024  001E  9508
00025  0020  1E01
00026  0022  5C14
00027  0024  1C01
00028  0026  5006
00029  0028  5208
00030  002A  8714
00031  002C  5F20
00032  002E  8314
00033  0030  5F24
00034  0032  B114
00035  0034  1302
00036  0036  852D
00037  0038  1F01
00038  003A  5C2E
00039  003C  207F
00040
ASS.FRR. 00000
    
```

*if input = 100*



LOOP TILL RUB-OUT  
A4 : FLAG FOR LENGTH, BASE OR CODE

*A5,4*

*= RB(7)*

8F2C

ABR \* A3

1000 1111 0010 0110  
00 0 100



**SYMBOL**	**VALUE*		**SYMBOL**	**VALUE*		**SYMBOL**	**VALUE*	
CODE	0032	UNUSED	ADDR	002E	UNUSED	INR	0010	R
H	0000	UNUSED	S	0001	A	DA	0010	A
A15	000F	UNUSED	A14	000D	UNUSED	A13	0008	UNUSED
A12	0009	UNUSED	A11	0007	UNUSED	A10	0005	UNUSED
A9	0003	UNUSED	A8	0001	UNUSED	A7	000E	A
A6	000C	A	A5	000A	A	A4	0008	A
A3	0006	A	A2	0004	A	A1	0002	A



EXIT CODE=0000

#:SAS

#\*\*\* CLOCK= 23 /05 /72 AT 16H-47M-10S-

8+8

```

00000          IDENT   BOOT
00001          * BOOTSTRAP FOR 8+8 FORMAT FROM PTR(/20)
00002          * BOOTSTRAP FOR P850/855/860
00003          * BEFORE STARTING SET REGISTERS : A3= 1 (ASR ONLY)
00004          *
00005          *
00006          DA      EQU      /20          FOR PTR
00007          S      EQU      1
00008          H      EQU      0
00009 0000 20BF      INH
00010 0002 43E0      CIO      A3,S,DA      LOK \ A7, 0 ←
00011 0004 4A20      INR      A2,0,DA
00012 0006 5C04      RB(4)   *-2
00013 0008 227F      ANK      A2,/7F
00014 000A 5808      RB(0)   *-6          LOOP TILL RUB-OUT
00015 000C 0402      LDK      A4,2          A4 : FLAG FOR LENGTH, BASE OR CODE
00016 000E 0602      LDK      A6,2
00017 0010 4A20      INR      A2,0,DA
00018 0012 5C04      RB(4)   INR
00019 0014 22FF      ANK      A2,/FF      not necessary: replace with
00020 0016 E514      ECR      A5,A5
00021 0018 A520      ANK.L   A5,/FF00    same as SLL \ A5,8
00022 001A FF00      RF      RF(7)
00023 001C 5700      RF      **2          not necessary
00024 001E 9508      ADR      A5,A2      replace with ORR \ A5, A2
00025 0020 1E01      SUK      A6,1
00026 0022 5C14      RB(4)   INR
00027 0024 1C01      SUK      A4,1
00028 0026 5006      RF(0)   **8          ADDR
00029 0028 5208      RF(2)   **10         CODE
00030 002A 8714      LDR      A7,A5      STORE LENGTH INTO A7
00031 002C 5F20      RB      INR-2
00032 002E 8314      ADDR    LDR      A3,A5      STORE BASE ADDRESS INTO A3
00033 0030 5F24      RB      INR-2
00034 0032 B114      CODE    XRR      A1,A5
00035 0034 1302      ADK      A3,2
00036 0036 852D      STR      A5,A3
00037 0038 1F01      SUK      A7,1
00038 003A 5C2E      RB(4)   INR-2
00039 003C 207F      HLT
          END
ASS.ERR. 00000

```

LOK \ A7, 0 ←

LOOP TILL RUB-OUT  
A4 : FLAG FOR LENGTH, BASE OR CODE

not necessary: replace with

same as SLL \ A5,8

not necessary → replace with ORR \ A5, A2

ADDR  
CODE  
STORE LENGTH INTO A7

STORE BASE ADDRESS INTO A3

CODE



**SYMBOL**	**VALUE*		**SYMBOL**	**VALUE*		**SYMBOL**	**VALUE*	
CODE	0032	UNUSED	ADDR	002E	UNUSED	INR	0010	R
H	0000	UNUSED	S	0001	A	DA	0020	A
A15	000F	UNUSED	A14	000D	UNUSED	A13	000B	UNUSED
A12	0009	UNUSED	A11	0007	UNUSED	A10	0005	UNUSED
A9	0003	UNUSED	A8	0001	UNUSED	A7	000E	A
A6	000C	A	A5	000A	A	A4	0008	A
A3	0006	A	A2	0004	A	A1	0002	A