```
 EXIT CODE=0000

#:SAS

#**** CLOCK= 23 /05 /72 AT 16H-48M-26S-
```

```
00000                                   IDENT    DUMPSA
00001                           *
00002                           *
00003                                   ENTRY    DUMPSA
00004                           ASR     EQU      /10
00005                           PTP     EQU      /30
00006                           S       EQU      1
00007                           H       EQU      0
00008                           XOFF    EQU      X'13'
00009                           ROUT    EQU      X'FF'
00010                           TON     EQU      X'11'
00011                           *
00012                           TOFF    EQU      X'14'
00013                           * STORE IN A1 DEVICE ADDRESS : /10 FOR ASR
00014                           *                              /30 FOR PTP
00015                           *
00016                           * STORE IN A2 FORMAT OF OUTPUT D /4 FOR 4*4 FORMAT
00017                           *                                /8 FOR 8*8 FORMAT
00018                           *
00019                           *
00020                           * CAUTION D NO CHECK IS MADE ON VALIDITY
00021                           *
00022                           * START AT INIT
00023                           * ON HALT WITH -1 IN A1, THE DUMPSA IS MODIFIED ACCORDING TO USER
00024                           * REQUIREMENTS
00025                           *
00026                           * IT MAY BE DUMPED AND THEN LOADED DIRECTLY BY BOOTSTRAP
00027                           INIT    EQU      *
00028  0000  E920                       CWK      A1,/10 → ASR
       0002  0010
00029  0004  5000  0004                  RF(0)    HALT
00030  0006  8320                       LnK.L    A3,/FFC0
       0008  FFC0
00031  000A  A341                       AN.S     A3,PP1
       000C  0000 R  000A
00032  000E  A341                       AN.S     A3,PP2
       0010  0000 R  000E
00033  0012  A341                       AN.S     A3,PP3
       0014  0000 R  0012
00034  0016  A341                       AN.S     A3,PP4
       0018  0000 R  0016
00035  001A  A341                       AN.S     A3,PP5
       001C  0000 R  001A
00036  001E  A341                       AN.S     A3,PP6
       0020  0000 R  001E
00037  0022  A341                       AN.S     A3,PP7
       0024  0000 R  0022
00038  0026  A341                       AN.S     A3,PP8
       0028  0000 R  0026
00039  002A  A341                       AN.S     A3,PP9
       002C  0000 R  002A
```

DUMPSA

```
00040  002E  A941                    OR.S    A1,PP1
       0030  0000 R  000A
00041  0032  A941                    OR.S    A1,PP2
       0034  0000 R  000E
00042  0036  A941                    OR.S    A1,PP3
       0038  0000 R  0012
00043  003A  A941                    OR.S    A1,PP4
       003C  0000 R  0016
00044  003E  A941                    OR.S    A1,PP5
       0040  0000 R  001A
00045  0042  A941                    OR.S    A1,PP6
       0044  0000 R  001E
00046  0046  A941                    OR.S    A1,PP7
       0048  0000 R  0022
00047  004A  A941                    OR.S    A1,PP8
       004C  0000 R  0026
00048  004E  A941                    OR.S    A1,PP9
       0050  0000 R  002A
00049  0052  EA20                    CWK     A2,4
       0054  0004
00050  0056  5000      0004          RF(0)   HALT
00051  0058  8340                    LD      A3,M1
       005A  0000 R  0058
00052  005C  8341                    ST      A3,EIGHT1
       005E  0000 R  005C
00053  0060  8340                    LD      A3,M2
       0062  0000 R  0060
00054  0064  8341                    ST      A3,EIGHT2
       0066  0000 R  0064
00055  0068  8340                    LD      A3,M3
       006A  0000 R  0068
00056  006C  8341                    ST      A3,EIGHT3
       006E  0000 R  006C
00057  0070  8340                    LD      A3,M4
       0072  0000 R  0070
00058  0074  8341                    ST      A3,EIGHT4
       0076  0000 R  0074
00059  0078  8340                    LD      A3,M4+2
       007A  0000 R  0070
00060  007C  8341                    ST      A3,EIGHT4+2
       007E  0000 R  0074
00061                        HALT    EQU     *
00062  0080  8120                    LDK.L   A1,/FFFF
       0082  FFFF
00063  0084  207F                    HLT
00064  0086  5700      0086          RF(7)   DUMPSA      READY TO START THE DUMP
00065  0088  0602                M1  LDK     A6,2
00066  008A  0508                M2  LDK     A5,8
00067  008C  27FF                M3  ANK     A7,/FF
00068  008E  8F20                M4  AB.L    Y4
       0090  0000 R  008E
```

```
00069                          ********************************************************************************
00070                          *
00071                          * HERE ONLY STARTS THE USEFULL PART ONCE INITIALIZATION HAS
00072                          * BEEN PERFORMED
00073                          *                                    {A3 = first Adr to be dumped
00074                          ********************************************************************************
00075  0092                    STACK    RES      2                 {A2 = last Adr to be dumped
00076                          DUMPSA   EQU      *
00077  0096  87A0                      LDK.L    A15,STACK
       0098  0092 R
00078  009A  8120                      LDK.L    A1,/FFFF
       009C  FFFF
00079  009E  4100                      WIM       A1
00080  00A0  20BF                       INH
00081  00A2  9A0C                      SUR      A2,A3
00082  00A4  3A21                       SRA1    A2
00083  00A6  1201                      ADK      A2,1              A2= WORD  COUNT
00084  00A8  0100                      LDK      A1,0
00085                          PP1      EQU      *
00086  00AA  41D0                      CIO      A1,S,ASR PTP      PUT ASR  IN  OUTPUT
00087  00AC  5C04                      RB(4)    *-2
00088  00AE  0111                      LDK      A1,TON            OUTPUT TAPE-ON
00089                          PP2      EQU      *
00090  00B0  4110                      OTR      A1,0,ASR PTP
00091  00B2  5C04                      RB(4)    *-2
00092  00B4  0480                      LDK      A4,/80            OUTPUT 128 NULLS ON TAPPE
00093  00B6  0100                      LDK      A1,0
00094                          PP3      EQU      *
00095  00B8  4110                      OTR      A1,0,ASR PTP
00096  00BA  5C04                      RB(4)    *-2
00097  00BC  1C01                      SUK      A4,1
00098  00BE  5C08                      RB(4)    *-6
00099  00C0  01FF                      LDK      A1,ROUT           OUTPUT RUB-OUT
00100                                  PP4      EQU      *
00101  00C2  4110                      OTR      A1,0,ASR PTP
00102  00C4  5C04                      RB(4)    *-2
00103  00C6  0100                      LDK      A1,0              A1 = CHECKSUM
00104  00C8  8408                      LDR      A4,A2             A4 = WORD COUNT
00105  00CA  F7A1                      CF       A15,S4
       00CC  0000 R  00CA
00106                                                             OUTPUT  WORD COUNT
00107  00CE  820C                      LDR      A2,A3
00108  00D0  1A02                      SUK      A2,2
00109  00D2  F7A1                      CF       A15,S4
       00D4  0000 R  00CA
00110  00D6  822C                      LDR*     A2,A3             OUTPUT   CODE WORD
00111  00D8  B108                      XRR      A1,A2             CHECKSUM
00112  00DA  F7A1                      CF       A15,S4
       00DC  0000 R  00D2
00113  00DE  1302                      ADK      A3,2
00114  00E0  1C01                      SUK      A4,1              DECREMENT WORD COUNT
```

DUMPSA

```
00115  00E2  590E                    RB(1)     DB1          NOT YET FINISHED  LOOP
00116  00E4  8204                    LDR       A2,A1        OUTPUT  CHECKSUM
00117  00E6  F7A1                    CF        A15,S4
       00E8  0000 R  00DA
00118  00EA  0213                    LDK       A2,XOFF      OUTPUT   X-OFF
00119                         PP5     EQU       *
00120  00EC  4210                    OTR       A2,0,ASR PTP
00121  00EE  5C04                    RB(4)     *-2
00122  00F0  0214                    LDK       A2,TOFF      OUTPUT  T-OFF
00123                         PP6     EQU       *
00124  00F2  4210                    OTR       A2,0,ASR PTP
00125  00F4  5C04                    RB(4)     *-2
00126                         PP7     EQU       *
00127  00F6  4290                    CIO       A2,H,ASR PTP
00128                         PP8     EQU       *
00129  00F8  49D0                     SST        A1,ASR PTP
00130  00FA  5C04                     RB(4)      *-2
00131  00FC  207F                    HLT
00132                         *
00133                         *
00134                         EIGHT1  EQU       *
00135  00FE  0604             S4      LDK       A6,4 2
00136                         EIGHT2  EQU       *
00137  0100  050C             Y1      LDK       A5,12 8
00138  0102  3AE1             Y2      SRC1      A2
00139  0104  1D01                     SUK       A5,1
00140  0106  5906                     RB(1)     Y2
00141  0108  8708                     LDR       A7,A2
00142                         EIGHT3  EQU       *
00143  010A  270F                     ANK       A7,X'1F' /FF
00144                         EIGHT4  EQU       *
00145  010C  5000  010C               RF(0)     Y3 }AB.L  Y4
00146  010E  EF20                     CWK       A7,5 } 2 instructies
       0110  0005
00147  0112  5200  008E               RF(2)     Y4
00148  0114  2F10             Y3      ORK       A7,X'10'
00149                         PP9     EQU       *
00150  0116  4710             Y4      OTR       A7,0,ASR PTP
00151  0118  5C04                     RB(4)     *-2
00152  011A  1E01                     SUK       A6,1
00153  011C  591E                     RB(1)     Y1
00154  011E  97A0                     ADK.L     A15,4
       0120  0004
00155  0122  8F3E                     ABR*      A15
00156                         *                                        DMH  002
00157                         *
00158                         *
00159                         END
ASS.ERR.  00000
```

DUMPSA

SYMBOL	**VALUE*		**SYMBOL**	**VALUE*		**SYMBOL**	**VALUE*	
Y3	0114	R	Y2	0102	R	Y1	0100	R
DB1	00D6	R	S4	00FE	R	STACK	0092	R
Y4	0116	R	EIGHT4	010C	R	M4	008E	R
EIGHT3	010A	R	M3	008C	R	EIGHT2	0100	R
M2	008A	R	EIGHT1	00FE	R	M1	0088	R
PP9	0116	R	PP8	00F8	R	PP7	00F6	R
PP6	00F2	R	PP5	00EC	R	PP4	00C2	R
PP3	00B8	R	PP2	00B0	R	PP1	00AA	R
HALT	0080	R	INIT	0000	UNUSED	TOFF	0014	A
TON	0011	A	ROUT	00FF	A	XOFF	0013	A
H	0000	A	S	0001	A	PTP	0030	UNUSED
ASR	0010	A	DUMPSA	0096	R	A15	000F	A
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			

DUMPSA

```
 EXIT CODE=0000

#:SAS

#**** CLOCK= 23 /05 /72 AT 16H-49M- 1S-
```

```
00000                                   IDENT    DMLPSA
00001                           *
00002                           *                                                    DMH  001
00003                           *STAND  ALONE  HEXADECIMAL MEMORY DUMP.
00004                           *        THIS MODULE  OUTPUT THE  CONTENT OF CORE MEMORY   DMH  004
00005                           * ON ASR OR LINE PRINTER EITHER ON BUS OR MX
00006                           *                                                    DMH  006
00007                           *
00008                           * ENTRY CONDITIONS
00009                           *                          A8=DEVICE ADDRESS
00010                           * SET BIT 0 IF  PROGRAMMED CHANNEL
00011                                              A9=FIRST  ADDRESS TO BE DUMPED
00012                                              A10=LAST ADDRESS TO BE DUMPED
00013                           *
00014                           *
00015  0000  8120                        LDK.L    A1,/FFFF
       0002  FFFF
00016  0004  4100                        WIM      A1          SET IT MASK FOR  P850
00017  0006  87A0                        LDK.L    A15,STACK
       0008  0000 R  0006
00018  000A  010C                        LDK      A1,/0C
00019  000C  E141                        SC       A1,BUFCP-1
       000E  0000 R  000C
00020  0010  8120                        LDK.L    A1,-50
       0012  FFCE
00021  0014  8141                        ST       A1,LINE
       0016  0000 R  0014
00022  0018  8102                        LDR      A1,A8
00023  001A  29C0                        ORK      A1,/C0
00024  001C  E141                        SC       A1,CIOLNE+1  SET  CIO  INST
       001E  0000 R  001C
00025  0020  E141                        SC       A1,SSTLNE+1  SET  SST  INST
       0022  0000 R  0020
00026  0024  8102                        LDR      A1,A8
00027  0026  5100    0026                RF(1)    DEVMX        BRANCH IF DEVICE ON MX
00028                           * ELSE GENERATE OTR AND HALT
00029  0028  E141                        SC       A1,OTRLNE+1
       002A  0000 R  0028
00030  002C  2980                        ORK      A1,/80
00031  002E  E141                        SC       A1,HLTLNE+1
       0030  0000 R  002E
00032  0032  0100                        LDK      A1,0
00033  0034  8141                        ST       A1,MULTX     SET FLAG TO 0 FOR BUS
       0036  0000 R  0034
00034  0038  5700    0038                RF       COMM
00035                           DEVMX    EQU      *
00036  003A  3941                        SLL1     A1
00037  003C  3941                        SLL1     A1
00038  003E  1180                        ADK      A1,/80
00039  0040  8141                        ST       A1,MULTX     SET MULTIPLEX ADDRESS
       0042  0000 R  0034
```

```
00040                          COMM     EQU     *
00041  0044  8306                      LDR     A3,A9
00042  0046  AAA0                      ORK.L   A10,/E
       0048  000E
00043  004A  A320                      ANK.L   A3,/FFF0
       004C  FFF0
00044  004E  8620              DMH0    LDK.L   A6,BUFCP    A6= ADDRESS WHERE TO STORE CHARACTERS
       0050  0000 R  000C
00045  0052  8120                      LDK.L   A1,/2020
       0054  2020
00046  0056  870C                      LDR     A7,A3
00047  0058  F7A1                      CF      A15,BH      BH  CONVERTS  NUMBER A7 AND STORES      DMH  035
       005A  0000 R  0058
00048                          *                           IT  IN (BUFCP AND BUFCP+2)              DMH  036
00049  005C  8139                      STR     A1,A6       STORE  TWO MORE  BLANKS IN (BUFCP+4)    DMH  038
00050  005E  1602                      ADK     A6,2                                                DMH  039
00051                          *                                                                   DMH  040
00052                          *                                                                   DMH  041
00053  0060  0500                      LDK     A5,0        COUNT  OF WORDS IN A5                   DMH  042
00054  0062  872C                      LDR*    A7,A3       TAKE FIRST WORD
00055                          *                                                                   DMH  044
00056  0064  1502              DMH1    ADK     A5,2                                                DMH  045
00057  0066  1302                      ADK     A3,2
00058  0068  EB0A                      CWR     A3,A10      END OF DUMP ?
00059  006A  5100    006A              RF(1)   DMHA                                                DMH  048
00060  006C  842C                      LDR*    A4,A3       A4=NEXT WORD
00061  006E  EC1C                      CWR     A4,A7       IS IT THE SAME THAN FIRST WORD
00062  0070  580E                      RB(0)   DMH1        YES,LOOP
00063                          *                                                                   DMH
00064  0072  ED20                      CWK     A5,14       NO  ARE WE STILL ON FIRST LINE
       0074  000E
00065  0076  5100    006A              RF(1)   DMHA         NO  GO  TO PRINT  BLANKS                DMH  053
00066  0078  0400                      LDK     A4,0        YES ,PREPARE  THE LINE                  DMH  056
00067  007A  F7A1              DMH2    CF      A15,BH      CONVERT AND STORE  THE FIRST WORD   &4M8
       007C  0000 R  0058
00068  007E  F7A1                      CF      A15,STOINT  STORE INTEPRATION
       0080  0000 R  007E
00069  0082  1402                      ADK     A4,2                                                DMH  060
00070  0084  ED10                      CWR     A5,A4                                               DMH  061
00071  0086  590E                      RB(1)   DMH2
00072                          *                                                                   DMH  063
00073  0088  872C              DMH3    LDR*    A7,A3
00074  008A  1302                      ADK     A3,2
00075  008C  F7A1                      CF      A15,BH          CONVERT AND STORE  THE              DMH  067
       008E  0000 R  007A
00076  0090  F7A1                      CF      A15,STOINT  REMAINDER OF  THE  LINE
       0092  0000 R  007E
00077  0094  1402                      ADK     A4,2                                                DMH  069
00078  0096  EC20                      CWK     A4,16                                               DMH  070
       0098  0010
00079  009A  5A14                      RB(2)   DMH3
```

```
00080  009C  0648                        LDK     A6,72
00081  009E  F7A1                  DMH5  CF      A15,CIO       CALL OUTPUT FUNCTION
       00A0  0000 R  009E
00082  00A2  EB0A                        CWR     A3,A10        END OF DUMP ?
00083  00A4  5A58                        RB(2)   DMH0          NO , LOOP  TO  BEGIN                    DMH  077
00084  00A6  207F                        HLT                   HLT**************************************
00085                              ** THIS IS THE CASE  WHERE  ALL THE NUMBERS OF THE LINE             DMH  084
00086                              **                 ARE IDENTICAL                                    DMH  085
00087  00A8  F7A1                  DMHA  CF      A15,BH        CONVERT  AND STORE  FIRST  WORD         DMH  089
       00AA  0000 R  008C
00088  00AC  A320                        ANK.L   A3,/FFF0
       00AE  FFF0
00089  00B0  060C                        LDK     A6,12         NUMBER OF CHARACTER IN BUFCP
00090  00B2  5F16                        RB(7)   DMH5
00091                              *
00092                              *
00093                              ********************************************************************************
00094                              ********************************************************************************
00095                              *
00096                              *
00097  00B4  20BF                  CIO   INH                   PRIN OF A LINE ROUTINE
00098  00B6  B93F                        MSR     2,A15
00099  00B8  1602                        ADK     A6,2          A6=LENGTH TO OUTPUT
00100  00BA  8118                        LDR     A1,A6
00101  00BC  F904                        C1R     A1,A1
00102  00BE  A120                        ANK.L   A1,/FFF
       00C0  0FFF
00103  00C2  1101                        ADK     A1,1
00104  00C4  A920                        ORK.L   A1,/8000      1ST MULTIPLEX WORD COMPUTED
       00C6  8000
00105  00C8  8218                        LDR     A2,A6
00106  00CA  1A01                        SUK     A2,1
00107  00CC  9220                        ANK.L   A2,BUFCP-2    SECOND MULTIPLEX WORD
       00CE  0000 R  004E
00108  00D0  B941                        MS      2,MULTX       SET MULTIPLEX LOCATIONS
       00D2  0000 R  0040
00109                              MULTX EQU     *-2
00110  00D4  9041                        IM      LINE
       00D6  0000 R  0014
00111  00D8  0100                        LDK     A1,0
00112  00DA  4180                  CIOLNE CIO    A1,0,0
00113  00DC  8140                        LD      A1,MULTX
       00DE  00D2 R
00114  00E0  5400    0020               RF(4)   SSTLNE        JUMP TO SST IF MX
00115  00E2  8220                        LDK.L   A2,BUFCP-2
       00E4  0000 R  00CC
00116  00E6  010A                        LDK     A1,/A
00117  00E8  E141                        SC      A1,BUFCP-1
       00EA  0000 R  00E2
00118                              PRNT  EQU     *
00119  00EC  E128                        LCR     A1,A2
```

```
00120  00EE  4100                 OTRLNE   OTR      A1,0,0          --> TY or LP
00121  00F0  5C04                          RB(4)    *-2
00122  00F2  1201                          ADK      A2,1
00123  00F4  1E01                          SUK      A6,1
00124  00F6  5C0C                          RB(4)    PRNT            -> 0, TY or 0, LP
00125  00F8  4180                 HLTLNE   CIO      A1,0,0          -> TY or LP
00126  00FA  49C0                 SSTLNE   SST      A1,0                LOOP UNTIL LINE
00127  00FC  5C04                          RB(4)    *-2                 IS PRINTED
00128  00FE  8120                          LDK.L    A1,0=*-*
       0100  0000
00129                              LINE     EQU      *-2
00130  0102  5400     0102                 RF(4)    RETURN          -> FF
00131  0104  010C                          LDK      A1,/C               FORM FEED
00132  0106  E141                          SC       A1,BUFCP-1
       0108  0000 R   00E8
00133  010A  8120                          LDK.L    A1,-50              REINITIALIZE  LINE
       010C  FFCE
00134  010E  8141                          ST       A1,LINE             COUNT
       0110  0100 R
00135  0112  5700     0112                 RF       RTN
00136  0114  010A                 RETURN   LDK      A1,/0A          -> LF
00137  0116  E141                          SC       A1,BUFCP-1
       0118  0000 R   0106
00138  011A  B93E                 RTN      MLR      2,A15
00139  011C  F03E                          RTN      A15
00140                              ********************************************************************************
00141                              *  STORE INTEPRATION ROUTINE
00142                              * A7 CONTAINS THE CHARACTERS TO BE STORED
00143                              *
00144                              *
00145  011E  823F                 STOINT   STR      A2,A15
00146  0120  873F                          STR      A7,A15
00147  0122  0200                          LDK      A2,0
00148  0124  E09C                          ECR      A8,A7
00149  0126  27FF                 DMH2C    ANK      A7,/FF
00150  0128  EF20                          CWK      A7,/20          -> ' '
       012A  0020
00151  012C  5200     012C                 RF(2)    DMH2A
00152  012E  EF20                          CWK      A7,/60
       0130  0060
00153  0132  5200     0132                 RF(2)    DMH2B
00154  0134  0720                 DMH2A    LDK      A7,/20
00155  0136  1200                 DMH2B    ADK      A2,0
00156  0138  5100     0138                 RF(1)    DMH2D
00157  013A  E751                          SC       A7,BUFCP+57,A4
       013C  0000 R   0116
00158  013E  8702                          LDR      A7,A8
00159  0140  1201                          ADK      A2,1
00160  0142  5F1E                          RB(7)    DMH2C
00161  0144  E751                 DMH2D    SC       A7,BUFCP+56,A4
       0146  0000 R   013A
```

```
00162  0148  873E                    LDR*    A7,A15
00163  014A  823E                    LDR*    A2,A15
00164  014C  F03E                    RTN     A15
00165                          *
00166                          *
00167                          ********************************************************************************************
00168                          ********************************************************************************************
00169                          *
00170                          ********************************************************************************************
00171                          ********************************************************************************************
00172                          * BH SUBROUTINE    CONVERT THE NUMBER GIVEN IN A7                                    DMH  100
00173                          *         INTO     HEXADECIMAL  CHARACTERS , AND STORE IN BUFCP                      DMH  101
00174                          *         AFTER  THAT PUT A BLANK LOCATION IN BUFCP-1                                DMH  102
00175                          *                                                                                    DMH  103
00176                          *                                                                                    DMH  104
00177                          *         UPON  ENTRY     A7=  NUMBER (BINARY) TO  CONVERT)                          DMH  105
00178                          *                         A6=  ADDRESS OF STORING AREA                               DMH  106
00179                          *                         A1=  BLANKS                                                DMH  107
00180                          *                                                                                    DMH  108
00181                          *         UPON  EXIT      A6  IS  UPDATED                                            DMH  109
00182                          *                         A7  NOT  DESTROYED                                         DMH  110
00183                          *                                                                                    DMH  111
00184                          *                                                                                    DMH  112
00185                          ********************************************************************************DMH  113
00186                          ********************************************************************************DMH  114
00187  014E  853F              BH      STR     A5,A15                                                             DMH  115
00188  0150  843F                      STR     A4,A15                                                             DMH  116
00189  0152  0404                      LDK     A4,4                                                               DMH  118
00190  0154  050C              BH0     LDK     A5,12
00191  0156  3FE1              BH1     SRC1    A7              SHIFT OF TWELVE (RIGHT CIRCULAR)
00192  0158  1D01                      SUK     A5,1                                                               DMH  122
00193  015A  5906                      RB(1)   BH1                                                                DMH  123
00194  015C  050F                      LDK     A5,X'F'         CONVERT                                            DMH  125
00195  015E  A51C                      ANR     A5,A7                                                              DMH  126
00196  0160  1530                      ADK     A5,X'30'                                                           DMH  127
00197  0162  ED20                      CWK     A5,X'3A'                                                           DMH  128
       0164  003A
00198  0166  5200  0166                RF(2)   BH2                                                                DMH  129
00199  0168  1507                      ADK     A5,X'7'                                                            DMH  130
00200  016A  F539              BH2     SCR     A5,A6           STORE VIA  A6                                      DMH  131
00201  016C  1601                      ADK     A6,1                                                               DMH  132
00202  016E  1C01                      SUK     A4,1                                                               DMH  133
00203  0170  EC20                      CWK     A4,0            IS IT FINISHED                                     DMH  134
       0172  0000
00204  0174  5922                      RB(1)   BH0
00205  0176  8139                      STR     A1,A6           YES , STORE 2 BLANKS                               DMH  136
00206  0178  1602                      ADK     A6,2                                                               DMH  137
00207  017A  843E                      LDR*    A4,A15
00208  017C  853E                      LDR*    A5,A15
00209  017E  F03E                      RTN     A15
00210                          ********************************************************************************************
```

DMLPSA

```
00211                           *
00212                           *
00213                           *
00214  0180  0D0A                       DATA    /0D0A --> = CR and LF
00215  0182                     BUFCP    RES     36
00216                           ENDAD    EQU     *-2
00217  01CA                              RES     10
00218                           STACK    EQU     *-2
00219                           *
00220                           *
00221                                    END
ASS.ERR. 00000
```

SYMBOL	**VALUE*		**SYMBOL**	**VALUE*		**SYMBOL**	**VALUE*	
ENDAD	01C8	UNUSED	BH2	016A	R	BH1	0156	R
BH0	0154	R	DMH2D	0144	R	DMH2B	0136	R
DMH2A	0134	R	DMH2C	0126	R	RTN	011A	R
RETURN	0114	R	PRNT	00EC	R	CIO	00B4	R
DMH5	009E	R	DMH3	0088	R	STOINT	011E	R
DMH2	007A	R	DMHA	00A8	R	DMH1	0064	R
BH	014E	R	DMH0	004E	R	COMM	0044	R
MULTX	00D2	R	HLTLNE	00F8	R	OTRLNE	00EE	R
DEVMX	003A	R	SSTLNE	00FA	R	CIOLNE	00DA	R
LINE	0100	R	BUFCP	0182	R	STACK	01DC	R
A15	000F	A	A14	000D	UNUSED	A13	000B	UNUSED
A12	0009	UNUSED	A11	0007	UNUSED	A10	0005	A
A9	0003	A	A8	0001	A	A7	000E	A
A6	000C	A	A5	000A	A	A4	0008	A
A3	0006	A	A2	0004	A	A1	0002	A

```
EXIT CODE=0000
```