```
HHH          HHH  LLL              DDDDDDDDDDDD
HHH          HHH  LLL              DDDDDDDDDDDDD
HHH          HHH  LLL              DDDDDDDDDDDDD
HHH          HHH  LLL              DDD          DDD
HHH          HHH  LLL              DDD          DDD
HHH          HHH  LLL              DDD          DDD
HHH          HHH  LLL              DDD          DDD
HHH          HHH  LLL              DDD          DDD
HHH          HHH  LLL              DDD          DDD
HHHHHHHHHHHHHHHH  LLL              DDD          DDD
HHHHHHHHHHHHHHHH  LLL              DDD          DDD
HHHHHHHHHHHHHHHH  LLL              DDD          DDD
HHH          HHH  LLL              DDD          DDD
HHH          HHH  LLL              DDD          DDD
HHH          HHH  LLL              DDD          DDD
HHH          HHH  LLL              DDD          DDD
HHH          HHH  LLL              DDD          DDD
HHH          HHH  LLLLLLLLLLLLLLLL DDDDDDDDDDDD
HHH          HHH  LLL              DDD          DDD
HHH          HHH  LLLLLLLLLLLLLLLL DDDDDDDDDDDD
HHH          HHH  LLLLLLLLLLLLLLLL DDDDDDDDDDDD
HHH          HHH  LLLLLLLLLLLLLLLL DDDDDDDDDDDD
```

```
HH      HH  LL          DDDDDDDD      CCCCCCCC  5555555555  TTTTTTTTTT    AAAAAA
HH      HH  LL          DDDDDDDD      CCCCCCCC  5555555555  TTTTTTTTTT    AAAAAA
HH      HH  LL          DD      DD  CC          55              TT      AA      AA
HH      HH  LL          DD      DD  CC          55              TT      AA      AA
HH      HH  LL          DD      DD  CC          555555          TT      AA      AA
HH      HH  LL          DD      DD  CC          555555          TT      AA      AA
HHHHHHHHHH  LL          DD      DD  CC                55        TT      AA      AA
HHHHHHHHHH  LL          DD      DD  CC                55        TT      AA      AA
HH      HH  LL          DD      DD  CC                  55      TT      AAAAAAAAAA
HH      HH  LL          DD      DD  CC                  55      TT      AAAAAAAAAA
HH      HH  LL          DD      DD  CC          55      55      TT      AA      AA      ....
HH      HH  LL          DD      DD  CC          55      55      TT      AA      AA      ....
HH      HH  LLLLLLLLLL  DDDDDDDD      CCCCCCCC    555555        TT      AA      AA      ....
HH      HH  LLLLLLLLLL  DDDDDDDD      CCCCCCCC    555555        TT      AA      AA      ....

LL              IIIIII      SSSSSSSS
LL              IIIIII      SSSSSSSS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II        SSSSSS
LL                II        SSSSSS
LL                II              SS
LL                II              SS
LL                II              SS
LL                II              SS
LLLLLLLLLL      IIIIII    SSSSSSSS
LLLLLLLLLL      IIIIII    SSSSSSSS
```

```
0000     1          .TITLE  HLDC5TA - HLD RAD50 CONVERSION
0000     2          .IDENT  'V04-000'
0000     3
0000     4 ;
0000     5 ;*****************************************************************************
0000     6 ;*                                                                           *
0000     7 ;*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                  *
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0000    24 ;*                                                                           *
0000    25 ;*                                                                           *
0000    26 ;*****************************************************************************
0000    27 ;
0000    28
0000    29 ;++
0000    30 ; FACILITY: DECNET HOST LOADER (HLD)
0000    31 ;
0000    32 ; ABSTRACT:
0000    33 ;
0000    34 ;       HLD IS A COMPONENT OF DECNET/VAX-11. IT PROVIDES ACCESS TO
0000    35 ;       RSX11S TASK IMAGES STORED ON A VAX SYSTEM.
0000    36 ;
0000    37 ; ENVIRONMENT:
0000    38 ;
0000    39 ;       THE HLD IMAGE EXECUTES IN THE CONTEXT OF A PROCESS CREATED BY
0000    40 ;       NETACP. IT RUNS IN USER MODE AND REQUIRES NETWORK PRIVILEGE.
0000    41 ;
0000    42 ; AUTHOR: SCOTT G. DAVIS,       CREATION DATE: 22-MAY-79
0000    43 ;
0000    44 ; MODIFICATIONS:
0000    45 ;
0000    46 ;--
0000    47 ;
0000    48 ;       MACROS
0000    49 ;
```

```
00000000     51          .PSECT  HLD$CODE        NOSHR,EXE,RD,NOWRT
                         0000     52
                         0000     53 ;++
                         0000     54 ; FUNCTIONAL DESCRIPTION:
                         0000     55 ;
                         0000     56 ;       HLD$C5TA CONVERTS A LONGWORD OF RAD50 TASK NAME TO 6 ASCII CHARACTERS
                         0000     57 ;
                         0000     58 ; CALLING SEQUENCE:
                         0000     59 ;
                         0000     60 ;       BSBW    HLD$C5TA
                         0000     61 ;
                         0000     62 ; INPUT PARAMETERS:
                         0000     63 ;
                         0000     64 ;       R1 CONTAINS THE ADDRESS OF RAD50 VALUE OF THE TASK NAME
                         0000     65 ;
                         0000     66 ; IMPLICIT INPUTS:
                         0000     67 ;
                         0000     68 ;       NONE
                         0000     69 ;
                         0000     70 ; OUTPUT PARAMETERS:
                         0000     71 ;
                         0000     72 ;       NONE
                         0000     73 ;
                         0000     74 ; IMPLICIT OUTPUTS:
                         0000     75 ;
                         0000     76 ;       R2,R3,R4,R10,R11 DESTROYED
                         0000     77 ;       HLD$AT_TSKBUF IS FILLED WITH THE ASCII TASK NAME
                         0000     78 ;
                         0000     79 ; COMPLETION CODES:
                         0000     80 ;
                         0000     81 ;       NONE
                         0000     82 ;
                         0000     83 ; SIDE EFFECTS:
                         0000     84 ;
                         0000     85 ;       NONE
                         0000     86 ;
                         0000     87 ;--
                         0000     88
                         0000     89 HLD$C5TA::
                   5B    D4  0000     90          CLRL    R11                             ; RESET HIGH ORDER DIVIDEND
          53       FFFE'CF   9E 0002     91          MOVAB   W^HLD$AT_TSKBUF-2,R3    ; INIT TASK NAME BFR PTR
                      00     10 0007     92          BSBB    CVT                             ; CONVERT 1ST 3 CHARS
                         0009     93                                                  ; FALL THROUGH TO CONVERT 2ND 3 CHARS
                         0009     94 CVT:
                   5A    81    3C 0009     95          MOVZWL  (R1)+,R10               ; GET NEXT WORD (3 CHARS)
                   53    06    C0 000C     96          ADDL    #6,R3                   ; POINT BEYOND END OF 3 CHAR PIECE
                   54    03    D0 000F     97          MOVL    #3,R4                   ; SET UP TO LOOP
                         0012     98 10$:
52                 5A    5A    28 7B 0012     99          EDIV    #^050,R10,R10,R2        ; REMAINING ENDMOST CHARACTER TO R2
                         52    B5 0017    100          TSTW    R2                      ; BLANK?
                         10    13 0019    101          BEQL    40$                     ; IF EQL YES
                   1B    52    B1 001B    102          CMPW    R2,#^033                ; TEST MIDDLE OF RANGE
                         08    19 001E    103          BLSS    30$                     ; IF LSS ALPHA
                         03    13 0020    104          BEQL    20$                     ; IF EQL DOLLAR SIGN
                   52    09    A0 0022    105          ADDW    #^022-^011,R2           ; ADJUST
                   52    37    A2 0025    106 20$:     SUBW    #^0100-^011,R2          ;
                   52    20    A0 0028    107 30$:     ADDW    #^0100-^040,R2          ;
```

```
52   20   A0   002B   108 40$:    ADDW    #^040,R2                ;
73   52   90   002E   109         MOVB    R2,-(R3)                ; STORE CHAR IN BUFFER
  DE 54   F5   0031   110         SOBGTR  R4,10$                  ; LOOP
          05   0034   111         RSB                             ; RETURN
               0035   112
               0035   113         .END
```

```
CVT             00000009 R     01
HLD$AT_TSKBUF   ********   X   01
HLD$C5TA        00000000 RG    01
```

Psect synopsis

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
HLD$CODE	00000035 (53.)	01 (1.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	48	00:00:00.11	00:00:01.27
Command processing	153	00:00:00.70	00:00:05.10
Pass 1	75	00:00:00.40	00:00:01.47
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	35	00:00:00.31	00:00:01.00
Symbol table output	2	00:00:00.01	00:00:00.14
Psect synopsis output	1	00:00:00.01	00:00:00.23
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	317	00:00:01.56	00:00:09.31

```
The working set limit was 900 pages.
1415 bytes (3 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 3 non-local and 4 local symbols.
113 source lines were read in Pass 1, producing 11 object records in Pass 2.
0 pages of virtual memory were used to define 0 macros.
```

Macro library statistics

Macro library name	Macros defined
_255DUA28:[HLD.OBJ]HLD.MLB;1	0
_255DUA28:[SYSLIB]STARLET.MLB;2	0
TOTALS (all libraries)	0

```
0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS$:HLDC5TA/OBJ=OBJ$:HLDC5TA MSRC$:HLDC5TA/UPDATE=(ENH$:HLDC5TA)+LIB$:HLD/LIB
```

HELP

FORWRITDF
LIS

VMSHELP
MAP

HLD
MDL

FORWRITDU
LIS

FORVECTOR
LIS

FORWRITIL
LIS

FORWRITSF
LIS

HLD

HLDMACROS
MAR

FORVM
LIS

FORWRITSN
LIS

HLD
MAP

FORWRITSU
LIS

RSXDEFS
MAR

FORUNLOCK
LIS

FORWRITDO
LIS

HELP
LIS

FORWRITIF
LIS

FORWRITIO
LIS

HLDCSTA
LIS

FORUDFWU
LIS

FORUNDERF
LIS

FORWRITSL
LIS

FORWRITSO
LIS

0186 AH-BT13A-SE
VAX/VMS V4.0

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INIT

HLDPRINT
LIS

IMGDMPDEF
SDL

INIT
MAP

HLDDATA
LIS

INIBAD
LIS

INIDEF
B32

HLDMAIN
LIS

ANALIMDMP
LIS

IMGDMP

ANALIMDMP
MAP

IMGDMP
MAP

HLDIO
LIS

DISPIMDMP
LIS

HLDFILE
LIS

HLDTASK
LIS

IMGDMP
LIS

INIALL
LIS