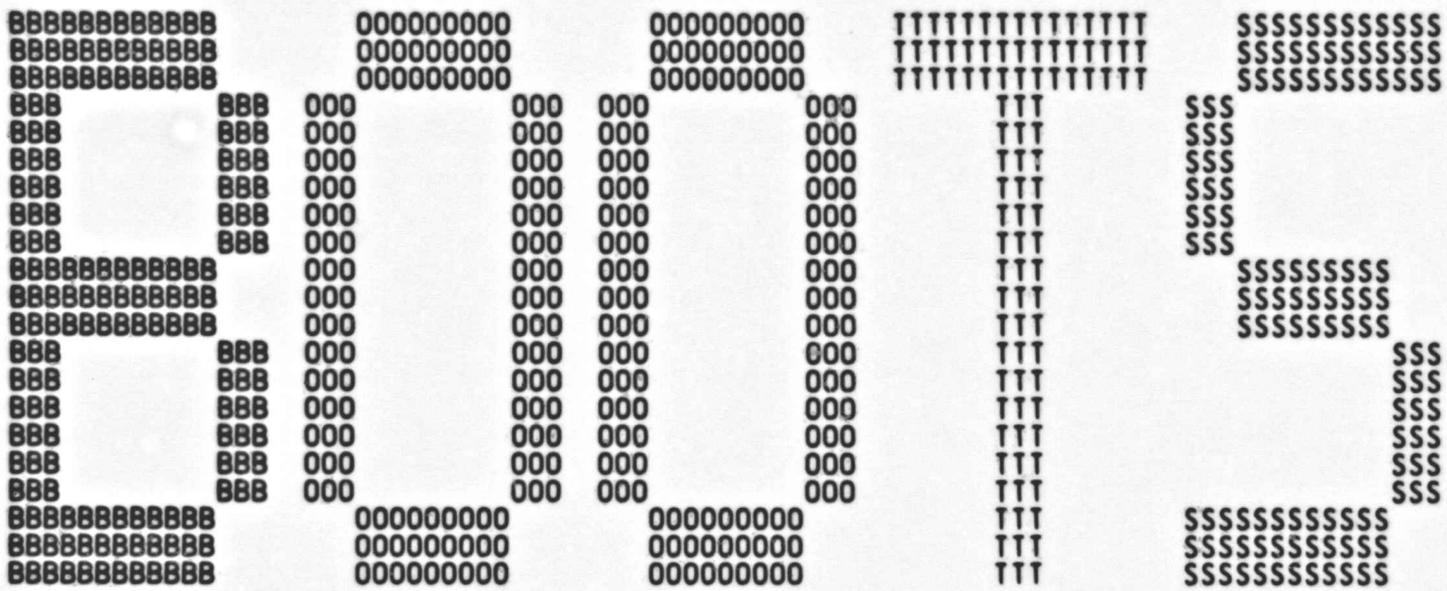
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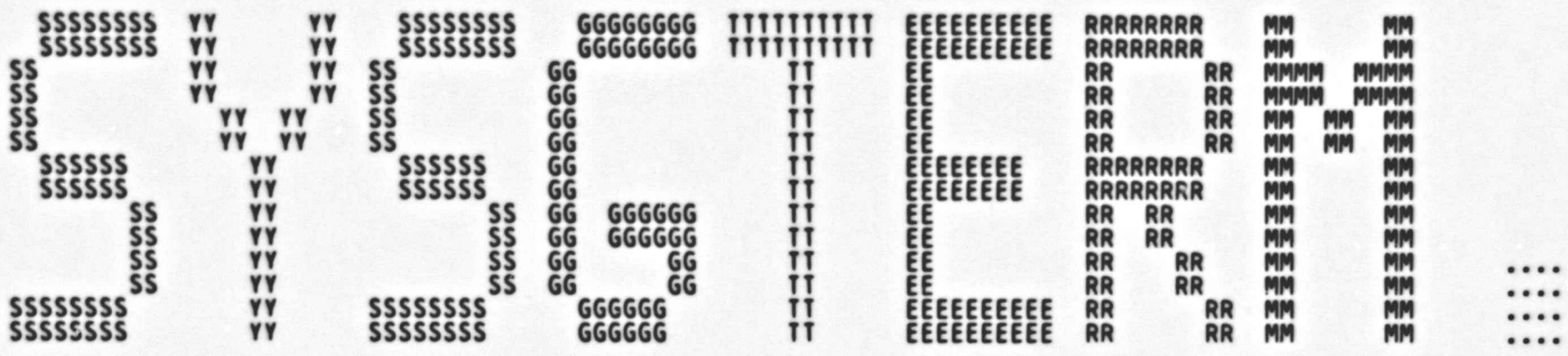
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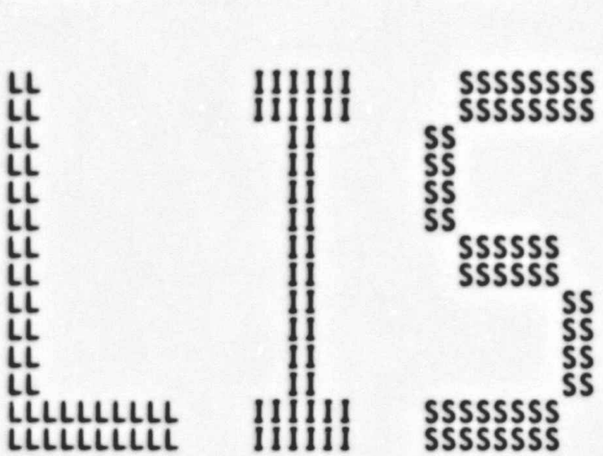
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Table of contents

(1) 58 DECLARATIONS
(2) 160 SYSG$LOAD_TT_STR - Load terminal driver echo strings

```
0000     1          .TITLE  SYSGTERM - SYSGEN TERMINAL commands
0000     2          .IDENT  'V04-000'
0000     3
0000     4  ;
0000     5  ;*****************************************************************************
0000     6  ;*                                                                           *
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0000    23  ;*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                  *
0000    24  ;*                                                                           *
0000    25  ;*                                                                           *
0000    26  ;*****************************************************************************
0000    27  ;
0000    28
0000    29  ;++
0000    30  ;
0000    31  ; FACILITY:
0000    32  ;
0000    33  ;       SYSGEN
0000    34  ;
0000    35  ; ABSTRACT:
0000    36  ;
0000    37  ;       Process terminal driver customization commands.
0000    38  ;
0000    39  ;
0000    40  ; ENVIRONMENT:
0000    41  ;
0000    42  ;       VMS, Kernel mode.  Raised IPL.
0000    43  ;
0000    44  ;--
0000    45  ;
0000    46  ; AUTHOR: Jake VanNoy, CREATION DATE: 14-Jul-1983
0000    47  ;
0000    48  ; MODIFIED BY:
0000    49  ;
0000    50  ;       V03-001 JLV0383         Jake VanNoy             23-JUL-1984
0000    51  ;               Attempt to signal string that FAO fails on.
0000    52  ;               Add support for TTY$EXIT_STRING, a logical name
0000    53  ;               that the RTL uses for it's echoing.
0000    54  ;
0000    55  ;**
0000    56
0000    57
```

```
                        0000     58          .SBTTL  DECLARATIONS
                        0000     59 ;
                        0000     60 ; INCLUDE FILES:
                        0000     61 ;
                        0000     62          $DPTDEF                         ; Driver prologue table
                        0000     63          $DYNDEF                         ; pool tags
                        0000     64          $IPLDEF                         ; interrupt levels
                        0000     65          $IRPDEF                         ; IRP offsets
                        0000     66          $LNMDEF                         ; Logical name definitions
                        0000     67          $PSLDEF                         ; PSL definitions
                        0000     68          $STSDEF                         ; status definition
                        0000     69          $TTYVECDEF                      ; terminal driver symbols
                        0000     70 ;
                        0000     71 ; MACROS:
                        0000     72 ;
                        0000     73
                        0000     74 ;
                        0000     75 ; EQUATED SYMBOLS:
                        0000     76 ;
                        0000     77
                000003E8 0000    78 BYTES_TO_ALLOCATE = 1000
                00000064 0000    79 BUFFER_LEN = 100
                        0000     80
                        0000     81 ;
                        0000     82 ; OWN STORAGE:
                        0000     83 ;
                00000000 0000    84          .PSECT  NONPAGED_DATA
                        0000     85
 0A 0D 00000008'010E0000' 0000   86 CRLF:               .ASCID  <13><10>        ; carriage return/line feed
                00000000' 000A   87 FAO_PRMLST:         .ADDRESS        CRLF    ; list of parameters for FAOL
                00000000' 000E   88                     .ADDRESS        CRLF    ;
                00000000' 0012   89                     .ADDRESS        CRLF    ;
                00000000' 0016   90                     .ADDRESS        CRLF    ;
                00000000' 001A   91                     .ADDRESS        CRLF    ;
                00000000' 001E   92                     .ADDRESS        CRLF    ;
                00000000' 0022   93                     .ADDRESS        CRLF    ;
                00000000' 0026   94                     .ADDRESS        CRLF    ;
                00000000' 002A   95                     .ADDRESS        CRLF    ;
                00000000' 002E   96                     .ADDRESS        CRLF    ;
                00000000' 0032   97                     .ADDRESS        CRLF    ;
                        0036     98
                00000000 0036    99 VEC_TABLE:          .LONG   0
                00000000 003A   100 STR_BLOCK:          .LONG   0
                000003E8 003E   101 NUM_BYTES:          .LONG   BYTES_TO_ALLOCATE
                        0042    102
                00000092 0042   103 OFFSET_TABLE:       .BLKL   20              ; Number of longword vectors
                        0092    104
                00000000 0092   105 MSGLEN:             .LONG   0
                      00 0096   106 MSG_OUTADR:         .BYTE   0               ; first byte of outadr
                0000009A 0097   107 FAO_COUNT:          .BLKB   3               ; fao_count is second byte
                        009A    108
                00000064 009A   109 STR_DESC:           .LONG   BUFFER_LEN
                00000000 009E   110                     .LONG   0               ; to be filled in
                        00A2    111
                00000064 00A2   112 BUFFER_DESC:        .LONG   BUFFER_LEN
                000000AA' 00A6  113                     .LONG   BUFFER_ADDR     ;
                0000010E 00AA   114 BUFFER_ADDR:        .BLKB   BUFFER_LEN      ; data goes here from $GETMSG
```

```
                        010E   115
                        010E   116 MSG_TABLE:      ; list of message codes
                        010E   117
00000000                010E   118                 .LONG   0                       ; Break
00000000'               0112   119                 .LONG   SYSG_TT$_CTRLY          ; standard ^Y
00000000'               0116   120                 .LONG   SYSG_TT$_CTRLC          ; standard ^C
00000000'               011A   121                 .LONG   SYSG_TT$_CTRLY_REG      ; ^Y for REGIS
00000000'               011E   122                 .LONG   SYSG_TT$_CTRLC_REG      ; ^C for REGIS
00000000'               0122   123                 .LONG   SYSG_TT$_CTRLY_DEC      ; ^Y for DEC_CRT
00000000'               0126   124                 .LONG   SYSG_TT$_CTRLC_DEC      ; ^C for DEC_CRT
00000000'               012A   125                 .LONG   SYSG_TT$_CTRLY_DECREG   ; ^Y for DEC_CRT and REGIS
00000000'               012E   126                 .LONG   SYSG_TT$_CTRLC_DECREG   ; ^C for DEC_CRT and REGIS
00000000                0132   127                 .LONG   0                       ; Break in table
                        0136   128
00000000'               0136   129                 .LONG   SYSG_TT$_CTRLZ          ; Standard ^Z
00000000'               013A   130                 .LONG   SYSG_TT$_CTRLZ_DEC      ; ^Z for DEC_CRT
00000000                013E   131                 .LONG   0                       ; Break
                        0142   132
00000000'               0142   133                 .LONG   SYSG_TT$_CTRLO          ; output off
00000000'               0146   134                 .LONG   SYSG_TT$_CTRLO_DEC      ; output off for DEC_CRT
00000000'               014A   135                 .LONG   SYSG_TT$_OUTON          ; output on
00000000'               014E   136                 .LONG   SYSG_TT$_OUTON_DEC      ; output on for DEC_CRT
00000000                0152   137                 .LONG   0                       ; Break
                        0156   138
00000000                0156   139                 .LONG   0                       ; End of table
                        015A   140
                        015A   141 LNM_ITMLST:
    0000                015A   142 LNM_CTRLZ_DEC:   .WORD   0
    0002                015C   143                 .WORD   LNM$_STRING
00000000                015E   144                 .LONG   0
00000000                0162   145                 .LONG   0
                        0166   146
    0000                0166   147 LNM_CTRLZ:      .WORD   0
    0002                0168   148                 .WORD   LNM$_STRING
00000000                016A   149                 .LONG   0
00000000                016E   150                 .LONG   0
                        0172   151
00000000                0172   152                 .LONG   0                       ; End of item list
                        0176   153
59 53 24 4D 4E 4C 0000017E'010E0000'  0176   154 LNM_SYSTEM:     .ASCID  /LNM$SYSTEM_TABLE/      ; table to create name in
      45 4C 42 41 54 5F 4D 45 54 53   0184
58 45 24 59 54 54 00000196'010E0000'  018E   155 LNM_LOGNAM:     .ASCID  /TTY$EXIT_STRING/       ; name of logical name
         47 4E 49 52 54 53 5F 54 49   019C
                                      01A5   156
                                      01A5   157
                                00000000     158         .PSECT  NONPAGED_CODE
```

```
                     0000   160          .SBTTL  SYSG$LOAD_TT_STR - Load terminal driver echo strings
                     0000   161
                     0000   162 ;++
                     0000   163 ;
                     0000   164 ; FUNCTIONAL DESCRIPTION:
                     0000   165 ;
                     0000   166 ;       Use $GETMSG to fetch message defintions, then load into non-page
                     0000   167 ;       pool so that TTDRIVER echos them correctly.
                     0000   168 ;
                     0000   169 ;
                     0000   170 ; CALLING SEQUENCE:
                     0000   171 ;
                     0000   172 ;       CALLS   #0,SYSG$LOAD_TT_STR
                     0000   173 ;
                     0000   174 ; INPUT PARAMETERS:
                     0000   175 ;       NONE
                     0000   176 ;
                     0000   177 ; IMPLICIT INPUTS:
                     0000   178 ;
                     0000   179 ;       SYSG_TT$_ message symbols
                     0000   180 ;
                     0000   181 ; OUTPUT PARAMETERS:
                     0000   182 ;       NONE
                     0000   183 ;
                     0000   184 ; IMPLICIT OUTPUTS:
                     0000   185 ;       NONE
                     0000   186 ;
                     0000   187 ; COMPLETION CODES:
                     0000   188 ;
                     0000   189 ;       SS$_NORMAL
                     0000   190 ;       error status from:
                     0000   191 ;       $GETMSG
                     0000   192 ;       LIB$GET_VM
                     0000   193 ;       exec pool allocation
                     0000   194 ;
                     0000   195 ; SIDE EFFECTS:
                     0000   196 ;
                     0000   197 ;       Non-paged pool is allocated and left with tables set up.
                     0000   198 ;       Pointer to tables is modified in TTDRIVER.
                     0000   199 ;
                     0000   200 ;--
                     0000   201
                     0000   202
                 03FC 0000   203          .ENTRY  SYSG$LOAD_TT_STR ,^M<R2,R3,R4,R5,R6,R7,R8,R9>
                     0002   204          ;
                     0002   205          ; Set tables up in P0 space first
                     0002   206          ;
    0000003A'EF   DF 0002   207          PUSHAL  STR_BLOCK                       ; Block addres (returned)
    0000003E'EF   DF 0008   208          PUSHAL  NUM_BYTES                       ; Number of bytes (input)
00000000'GF    02 FB 000E   209          CALLS   #2,G^LIB$GET_VM                 ; Fetch memory
          01 50    E8 0015   210          BLBS    R0,10$                          ; Continue if ok
                04 0018   211          RET                                     ; Return with error
                   0019   212 10$:
    00000036'EF   DF 0019   213          PUSHAL  VEC_TABLE                       ; Block addres (returned)
    0000003E'EF   DF 001F   214          PUSHAL  NUM_BYTES                       ; Number of bytes (input)
00000000'GF    02 FB 0025   215          CALLS   #2,G^LIB$GET_VM                 ; Fetch memory
          01 50    E8 002C   216          BLBS    R0,15$                          ; Continue if ok
```

```
                     04   002F    217                RET                             ; Return with error
                          0030    218 15$:
      52 0000010E'EF     9E   0030    219                MOVAB   MSG_TABLE,R2         ; Message table
      53 00000036'EF     D0   0037    220                MOVL    VEC_TABLE,R3        ; address of memory for vectors
      54 00000042'EF     9E   003E    221                MOVAB   OFFSET_TABLE,R4     ; table of indirect pointers offsets
      55 0000003A'EF     D0   0045    222                MOVL    STR_BLOCK,R5        ; where text goes
                          004C    223                ;
                          004C    224                ; Loop through MSG_TABLE, calling $GETMSG for strings
                          004C    225                ;
                          004C    226 20$:
            56   82     D0   004C    227                MOVL    (R2)+,R6            ; Get next message
                 12     12   004F    228                BNEQ    30$                 ; Zero marks break in table
                          0051    229                ;
                          0051    230                ; Save offset to table vector
                          0051    231                ;
            64   53     D0   0051    232                MOVL    R3,(R4)             ; record next pointer
      84 00000036'EF     C2   0054    233                SUBL    VEC_TABLE,(R4)+     ; minus base address
                          005B    234
            56   82     D0   005B    235                MOVL    (R2)+,R6            ; get real message
                 03     12   005E    236                BNEQ    30$                 ; If zero, then done
                00CC    31   0060    237                BRW     100$                ; exit loop
                          0063    238 30$:
            63   55     D0   0063    239                MOVL    R5,(R3)             ; set string address
      83 0000003A'EF     C2   0066    240                SUBL    STR_BLOCK,(R3)+     ; minus base address
                          006D    241
      57 000000A2'EF     9E   006D    242                MOVAB   BUFFER_DESC,R7      ; address
         67   0064 8F     3C   0074    243                MOVZWL  #BUFFER_LEN,(R7)    ; set length
   04 A7 000000AA'EF     9E   0079    244                MOVAB   BUFFER_ADDR,4(R7)   ; Set address
                          0081    245
                          0081    246                $GETMSG_S -
                          0081    247                        MSGID = R6,-        ; message ID
                          0081    248                        MSGLEN = (R7),-     ; return message length
                          0081    249                        BUFADR = (R7),-     ; return message string
                          0081    250                        FLAGS = #1,-        ; text only
                          0081    251                        OUTADR = MSG_OUTADR ; output counts
                09 50     E9   0096    252                BLBC    R0,35$              ; check for error
      50 00000000'8F     D1   0099    253                CMPL    #SS$_MSGNOTFND,R0   ; continue if OK
                   03     12   00A0    254                BNEQ    40$                 ; must be normal, exit if MSGNOTFND
                0089     31   00A2    255 35$:           BRW     90$
                          00A5    256 40$:
00000092'EF    67     3C   00A5    257                MOVZWL  (R7),MSGLEN         ; set length
      51 00000097'EF     9A   00AC    258                MOVZBL  FAO_COUNT,R1        ; fao count for CRLF
                   38     13   00B3    259                BEQL    50$                 ; Branch if none
                          00B5    260                ;
                          00B5    261                ; Set up FAO to insert <CR><LF> pairs
                          00B5    262                ;
      58 0000009A'EF     9E   00B5    263                MOVAB   STR_DESC,R8         ; descriptor
         68   0064 8F     3C   00BC    264                MOVZWL  #BUFFER_LEN,(R8)    ; length
            04 A8   01 A5     9E   00C1    265                MOVAB   1(R5),4(R8)         ; address
                          00C6    266
                          00C6    267                $FAOL_S CTRSTR = (R7),-     ; control string
                          00C6    268                        OUTLEN = MSGLEN,-   ; length of output
                          00C6    269                        OUTBUF = (R8),-     ; descriptor
                          00C6    270                        PRMLST = FAO_PRMLST ; list of CR LF's
                   0D 50     E8   00DD    271                BLBS    R0,50$              ; branch if ok
                      56     DD   00E0    272                PUSHL   R6                  ; message that went bad
                      50     DD   00E2    273                PUSHL   R0                  ; error from FAO
```

```
00000000'GF   02   FB  00E4   274          CALLS   #2,G^LIB$SIGNAL                 ; signal
              39   11  00EB   275          BRB     80$
                   00ED   276
51   00000092'EF   9A  00ED   277  50$:    MOVZBL  MSGLEN,R1                       ; Get message length
        65   51   90  00F4   278          MOVB    R1,(R5)                         ; set length
             55   D6  00F7   279          INCL    R5                              ; add to address
        59   55   D0  00F9   280          MOVL    R5,R9                           ; save address
        55   51   C0  00FC   281          ADDL2   R1,R5                           ; add to address
                   00FF   282          ;
                   00FF   283          ; Build ^Z strings for TTY$EXIT_STRING logical name (for RTL use)
                   00FF   284          ;
50   0000015A'EF   9E  00FF   285          MOVAB   LNM_CTRLZ_DEC,R0                ; assume DEC crt
00000000'8F   56   D1  0106   286          CMPL    R6,#SYSG_TT$_CTRLZ_DEC          ; ^Z for DEC_CRT
              10   13  010D   287          BEQL    60$                             ; br if equal
50   00000166'EF   9E  010F   288          MOVAB   LNM_CTRLZ,R0                    ; set regular
00000000'8F   56   D1  0116   289          CMPL    R6,#SYSG_TT$_CTRLZ              ; Standard ^Z
              07   12  011D   290          BNEQ    80$                             ; br if not
                   011F   291  60$:
        60   51   B0  011F   292          MOVW    R1,(R0)                         ; set length
     04 A0   59   D0  0122   293          MOVL    R9,4(R0)                        ; set address
                   0126   294
           FF23   31  0126   295  80$:    BRW     20$                             ; Loop
                   0129   296          ;
                   0129   297          ; Error - exit
                   0129   298          ;
                   0129   299  85$:
              04   F0  0129   300          INSV    #STS$K_SEVERE,-
              00       012B   301                  #STS$V_SEVERITY,-
        50    03       012C   302                  #STS$S_SEVERITY,R0              ; make it fatal
                   04  012E   303  90$:    RET                                     ; return
                   012F   304          ;
                   012F   305          ; Table is complete, define logical name and set up in pool
                   012F   306          ;
                   012F   307  100$:
                   012F   308          $CRELNM_S -
                   012F   309                  TABNAM = LNM_SYSTEM,-
                   012F   310                  LOGNAM = LNM_LOGNAM,-
                   012F   311                  ACMODE = #PSL$C_EXEC,-
                   012F   312                  ITMLST = LNM_ITMLST
           0F 50   E9  014D   313          BLBC    R0,110$
                   0150   314
                   0150   315          $CMKRNL_S LOAD_TT_SYMS                  ; Do the loading in kernel mode
                04 015F   316  110$:    RET                                     ; Return with status
                   0160   317
              0000 0160   318  LOAD_TT_SYMS:   .WORD   0
                   0162   319
56   53   00000036'EF   C3  0162   320          SUBL3   VEC_TABLE,R3,R6         ; length of VECTOR table
57   55   0000003A'EF   C3  016A   321          SUBL3   STR_BLOCK,R5,R7         ; length of text
        51   57   56   C1  0172   322          ADDL3   R6,R7,R1                ; length of both
                   0176   323
        51   0C   C0  0176   324          ADDL    #12,R1                          ; pool overhead
                   0179   325
                   0179   326          SETIPL  #IPL$_ASTDEL                    ; Prevent deletion
     00000000'GF   16  017C   327          JSB     G^EXE$ALONONPAGED               ; Fetch Pool
           6C 50   E9  0182   328          BLBC    R0,190$                         ; Branch on error
                   0185   329
     62   20595454 8F   D0  0185   330          MOVL    #^A/TTY /,(R2)          ; flag pool with text
```

```
                04 A2    54584554 8F    D0   018C   331          MOVL    #^A/TEXT/,4(R2)          ; just for grins
                   08 A2       51  B0    0194   332          MOVW    R1,IRP$W_SIZE(R2)        ; size (IRP offset is as good as any)
                         80 8F     9B    0198   333          MOVZBW  #DYN$C_SPECIAL,-
                            0A A2        019B   334                  IRP$B_TYPE(R2)           ; Set type ?
                                         019D   335          ;
                                         019D   336          ; Relocate offsets to these addresses
                                         019D   337          ;
                               52    DD  019D   338          PUSHL   R2                       ; Save structure address
                         58    0C A2    9E   019F   339          MOVAB   12(R2),R8                ; Base of vectors
            68   00000036'FF    56    28   01A3   340          MOVC3   R6,@VEC_TABLE,(R8)       ; copy data
                                         01AB   341          ;
                                         01AB   342          ; R3 is now where the string block will start
                                         01AB   343          ; Vector offsets just loaded must be relocated relative to this
                                         01AB   344          ;
                         88    53    C0  01AB   345 30$:     ADDL2   R3,(R8)+                 ; add address to offset
                         58    53    D1  01AE   346          CMPL    R3,R8                    ; addresses the same?
                               F8    12  01B1   347          BNEQU   30$                      ; no, loop
                                         01B3   348          ;
                                         01B3   349          ; Now copy strings into block
                                         01B3   350          ;
            63   0000003A'FF    57    28   01B3   351          MOVC3   R7,@STR_BLOCK,(R3)       ; copy strings
                               52  8ED0  01BB   352          POPL    R2                       ; Restore structure address
                                         01BE   353          ;
                                         01BE   354          ; Block is now set-up, fix up pointers in TTDRIVER
                                         01BE   355          ;
                  50   00000000'GF    D0   01BE   356          MOVL    G^TTY$GL_DPT,R0          ; Fetch TTDRIVER address
                         51    1E A0    3C   01C5   357          MOVZWL  DPT$W_VECTOR(R0),R1      ; offset to table
                            51    50    C0  01C9   358          ADDL2   R0,R1                    ; base + offset
                         50    24 A1    D0  01CC   359          MOVL    CLASS_TABLES(R1),R0      ; address of vectors
                  54   00000042'EF    9E   01D0   360          MOVAB   OFFSET_TABLE,R4          ; address of new vectors
                                         01D7   361
                                         01D7   362          SETIPL  #IPL$_POWER              ; block out interrupts
                                         01DA   363
                      58    0C A2    9E   01DA   364          MOVAB   12(R2),R8                ; base address
                   80    84    58    C1   01DE   365          ADDL3   R8,(R4)+,(R0)+           ; new interrupt echos
                   80    84    58    C1   01E2   366          ADDL3   R8,(R4)+,(R0)+           ; new exit echos
                   80    84    58    C1   01E6   367          ADDL3   R8,(R4)+,(R0)+           ; new ctrl O echos
                                         01EA   368
               50   00000000'8F    D0   01EA   369          MOVL    #SS$_NORMAL,R0           ; Set status
                                         01F1   370 190$:
                                         01F1   371          SETIPL  #0
                                   04    01F4   372          RET
                                         01F5   373
                                         01F5   374          .END
```

```
BUFFER_ADDR                     000000AA R      02      TTY$GL_DPT                      ********   X   03
BUFFER_DESC                     000000A2 R      02      VEC_TABLE                       00000036 R      02
BUFFER_LEN                  =   00000064
BYTES_TO_ALLOCATE           =   000003E8
CLASS_TABLES                =   00000024
CRLF                            00000000 R      02
DPT$W_VECTOR                =   0000001E
DYN$C_SPECIAL               =   00000080
EXE$ALONONPAGED                 ********   X   03
FAO_COUNT                       00000097 R      02
FAO_PRMLST                      0000000A R      02
IPL$_ASTDEL                 =   00000002
IPL$_POWER                  =   0000001F
IRP$B_TYPE                  =   0000000A
IRP$W_SIZE                  =   00000008
LIB$GET_VM                      ********   X   03
LIB$SIGNAL                      ********   X   03
LNM$_STRING                 =   00000002
LNM_CTRLZ                       00000166 R      02
LNM_CTRLZ_DEC                   0000015A R      02
LNM_ITMLST                      0000015A R      02
LNM_LOGNAM                      0000018E R      02
LNM_SYSTEM                      00000176 R      02
LOAD_TT_SYMS                    00000160 R      03
MSGLEN                          00000092 R      02
MSG_OUTADR                      00000096 R      02
MSG_TABLE                       0000010E R      02
NUM_BYTES                       0000003E R      02
OFFSET_TABLE                    00000042 R      02
PR$_IPL                         ********   X   03
PSL$C_EXEC                  =   00000001
SS$_MSGNOTFND                   ********   X   03
SS$_NORMAL                      ********   X   03
STR_BLOCK                       0000003A R      02
STR_DESC                        0000009A R      02
STS$K_SEVERE                =   00000004
STS$S_SEVERITY              =   00000003
STS$V_SEVERITY              =   00000000
SYS$CMKRNL                      ********  GX   03
SYS$CRELNM                      ********  GX   03
SYS$FAOL                        ********  GX   03
SYS$GETMSG                      ********  GX   03
SYSG$LOAD_TT_STR                00000000 RG     03
SYSG_TT$_CTRLC                  ********   X   02
SYSG_TT$_CTRLC_DEC              ********   X   02
SYSG_TT$_CTRLC_DECREG           ********   X   02
SYSG_TT$_CTRLC_REG              ********   X   02
SYSG_TT$_CTRLO                  ********   X   02
SYSG_TT$_CTRLO_DEC              ********   X   02
SYSG_TT$_CTRLY                  ********   X   02
SYSG_TT$_CTRLY_DEC              ********   X   02
SYSG_TT$_CTRLY_DECREG           ********   X   02
SYSG_TT$_CTRLY_REG              ********   X   02
SYSG_TT$_CTRLZ                  ********   X   02
SYSG_TT$_CTRLZ_DEC              ********   X   02
SYSG_TT$_OUTON                  ********   X   02
SYSG_TT$_OUTON_DEC              ********   X   02
```

Psect synopsis

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
ABS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
NONPAGED_DATA	000001A5 (421.)	02 (2.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE
NONPAGED_CODE	000001F5 (501.)	03 (3.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.07	00:00:00.43
Command processing	110	00:00:00.68	00:00:03.04
Pass 1	224	00:00:05.81	00:00:12.37
Symbol table sort	0	00:00:00.71	00:00:01.03
Pass 2	79	00:00:01.38	00:00:02.72
Symbol table output	7	00:00:00.07	00:00:00.27
Psect synopsis output	2	00:00:00.02	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	454	00:00:08.75	00:00:19.89

The working set limit was 1350 pages.
31137 bytes (61 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 513 non-local and 15 local symbols.
374 source lines were read in Pass 1, producing 21 object records in Pass 2.
21 pages of virtual memory were used to define 20 macros.

Macro library statistics

Macro library name	Macros defined
_255DUA28:[BOOTS.OBJ]BOOTS.MLB;1	0
_255DUA28:[SYS.OBJ]LIB.MLB;1	6
_255DUA28:[SYSLIB]STARLET.MLB;2	11
TOTALS (all libraries)	17

599 GETS were required to define 17 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS$:SYSGTERM/OBJ=OBJ$:SYSGTERM MSRC$:SYSGTERM/UPDATE=(ENH$:SYSGTERM)+EXECML$/LIB+LIB$:BOOTS.MLB/LIB

SYSGENMN
LIS

VMB
LIS

SYSGEN
LIS

SYSGTTSTR
LIS

SYSGENCMD
LIS

SYSGTERM
LIS

TS8BOOTIO
LIS