

CCCCCCCCCCCC	LLL	IIIIIIII	UUU	UUU	TTTTTTTTTTTTTTTT	LLL
CCCCCCCCCCCC	LLL	IIIIIIII	UUU	UUU	TTTTTTTTTTTTTTTT	LLL
CCCCCCCCCCCC	LLL	IIIIIIII	UUU	UUU	TTTTTTTTTTTTTTTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCCCCCCCCCCC	LLLLLLLLLLLLLLLL	IIIIIIII	UUUUUUUUUUUUUU	UUUUUUUUUUUUUU	TTTT	LLLLLLLLLLLLLLLL
CCCCCCCCCCCC	LLLLLLLLLLLLLLLL	IIIIIIII	UUUUUUUUUUUUUU	UUUUUUUUUUUUUU	TTTT	LLLLLLLLLLLLLLLL
CCCCCCCCCCCC	LLLLLLLLLLLLLLLL	IIIIIIII	UUUUUUUUUUUUUU	UUUUUUUUUUUUUU	TTTT	LLLLLLLLLLLLLLLL

```

SSSSSSSS HH HH 000000 WW WW TTTTTTTTTT EEEEEEEEE EEEEEEEEE RRRRRRRR MM MM
SSSSSSSS HH HH 000000 WW WW TTTTTTTTTT EEEEEEEEE EEEEEEEEE RRRRRRRR MM MM
SS HH HH 00 00 WW WW TT EE EEEEEEEEE RRRRRRRR RR RR MMMM MMMM
SS HH HH 00 00 WW WW TT EE EEEEEEEEE RRRRRRRR RR RR MMMM MMMM
SS HH HH 00 00 WW WW TT EE EEEEEEEEE RRRRRRRR RR RR MM MM
SSSSSS HHHHHHHHHH 00 00 WW WW TT EEEEEEEEE RRRRRRRR MM MM
SSSSSS HHHHHHHHHH 00 00 WW WW TT EEEEEEEEE RRRRRRRR MM MM
SS HH HH 00 00 WW WW TT EE EEEEEEEEE RRRRRRRR RR RR MM MM
SS HH HH 00 00 WW WW TT EE EEEEEEEEE RRRRRRRR RR RR MM MM
SS HH HH 00 00 WWW WWW TT EE EEEEEEEEE RRRRRRRR RR RR MM MM
SSSSSSSS HH HH 000000 WW WW TT EEEEEEEEE RRRRRRRR RR RR MM MM
SSSSSSSS HH HH 000000 WW WW TT EEEEEEEEE RRRRRRRR RR RR MM MM

```

```

...
...
...
...

```

```

LL LL I I I I I I SSSSSSSS
LL LL I I I I I I SSSSSSSS
LL LL I I I I I I SS
LL LL I I I I I I SS
LL LL I I I I I I SS
LL LL I I I I I I SS
LL LL I I I I I I SS
LL LL I I I I I I SS
LL LL I I I I I I SS
LLLLLLLLLLLL I I I I I I SSSSSSSS
LLLLLLLLLLLL I I I I I I SSSSSSSS

```

```
0000 1 .TITLE SHOWTERM - SHOW CHARACTERISTICS OF A TERMINAL
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 23 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
0000 24 *
0000 25 *
0000 26 *****
0000 27 *****
0000 28
0000 29 **
0000 30 FACILITY: CLI UTILITY "SHOW"
0000 31
0000 32 ABSTRACT: SHOW THE CHARACTERISTICS OF A TERMINAL
0000 33
0000 34 AUTHOR: R.HEINEN 21-NOV-1977
0000 35
0000 36 MODIFIED BY:
0000 37
0000 38 V03-017 EMB0107 Ellen M. Batbouta 11-Jul-1984
0000 39 Eliminate displaying the holdscreen characteristic since
0000 40 it is no longer supported.
0000 41
0000 42 V03-016 JRL0004 John R. Lawson, Jr. 19-Jun-1984 11:56
0000 43 Eliminate external references to SMG (shareable image) to
0000 44 speed up image initialization; link to SMG only when the
0000 45 package is required.
0000 46
0000 47 V03-015 EMD0096 Ellen M. Dusseault 02-May-1984
0000 48 Display the system password, syspwd, characteristic for
0000 49 terminals.
0000 50
0000 51 V03-014 MHB0128 Mark Bramhall 29-Mar-1984
0000 52 Display username on second line if not same as process name.
0000 53 Fix up spooled device display.
0000 54
0000 55 V03-013 MIR0350 Michael I. Rosenblum 20-Mar-1984
0000 56 If a terminal is a physical terminal connected to a VT
0000 57 show the backward translation also. Add BTS terminals
```

```

0000 58 : To the display.
0000 59 :
0000 60 : V03-012 PLL0002 Pamela Levesque 07-Mar-1984
0000 61 : If the type number is in the foreign range, search
0000 62 : termtable for a definition.
0000 63 :
0000 64 : V03-011 MHB0102 Mark Bramhall 29-Feb-1984
0000 65 : Fix up the physical terminal device name display.
0000 66 :
0000 67 : V03-010 EMD0054 Ellen M. Dusseault 28-Feb-1984
0000 68 : Display new device name, PRO_SERIES, when appropriate
0000 69 : and the status of the new terminal characteristic, DEC_CRT2.
0000 70 :
0000 71 : V03-009 MMD0233 Meg Dumont, 4-Feb-1984 14:26
0000 72 : Add a test to see if the terminal is running as an asynch
0000 73 : ddcmp line and if it is do not try to show the characteristics.
0000 74 :
0000 75 : V03-008 MIR0300 Michael I. Rosenblum 03-Feb-1984
0000 76 : Add code to show physical terminal on disconnected terminals
0000 77 : and to indicate that a terminal is disconnected.
0000 78 :
0000 79 : V03-007 MIR0071 Michael I. Rosenblum 22-Jul-1983
0000 80 : Add display for OVERSTRIKE MODE, DISMISS PARITY, AND
0000 81 : PASTHRU MODE.
0000 82 :
0000 83 : V03-006 MIR2035 Michael I. Rosenblum 13-May-1983
0000 84 : Fix word offsets.
0000 85 :
0000 86 : V03-005 MIR1035 Michael I. Rosenblum 09-Apr-1983
0000 87 : increase size of terminal table to allow VT200 to fit
0000 88 :
0000 89 : V03-004 MIR0035 Michael I. Rosenblum 27-Apr-1983
0000 90 : Add support for new device characteristics.
0000 91 : and VT200 series terminals.
0000 92 :
0000 93 : V03-003 GAS0099 Gerry Smith 7-Jan-1983
0000 94 : Modify to run under the new SHOW.
0000 95 :
0000 96 : V03-002 GAS0091 Gerry Smith 19-Oct-1982
0000 97 : Change input request for new CLD syntax.
0000 98 :
0000 99 : V03-001 MIR0093 Michael I Rosenblum 2-Jul-1982
0000 100 : Enhance show term to use the new $GETDVIW fix bug
0000 101 : that shows the device spooled to as being the terminal
0000 102 : itself rather than the appropriate disk.
0000 103 :
0000 104 : V03-011 MIR0091 Michael I Rosenblum 23-Feb-1981
0000 105 : Show term on a spooled terminal without privs would
0000 106 : cause the QIO sensemode to return a nopriv error with
0000 107 : the side affect of clearing out the SENSEMODE buffer,
0000 108 : hence giving erroneous information.
0000 109 :
0000 110 : V03-010 MIR0072 Michael I Rosenblum 14-Jan-1981
0000 111 : Change case of some of the qualifiers.
0000 112 :
0000 113 : V03-009 MIR0070 Michael I Rosenblum 21-Dec-1981
0000 114 : Replaced GETDEV with GETDVI.

```

```
0000 115 :  
0000 116 :  
0000 117 : V03-008 MIR0056 Michael I Rosenblum 9-Dec-1981  
0000 118 : Added DECCRT, EDIT and SETSPEED.  
0000 119 :  
0000 120 : V03-007 MIR0045 Michael I Rosenblum 29-Oct-1981  
0000 121 : Add support for VK100 and the SUBSET bit.  
0000 122 :  
0000 123 : V03-006 MIR0034 Michael I Rosenblum 10-Aug-1981  
0000 124 : Fix bug in support of GETDEV feature to get the second device  
0000 125 : dependent word.  
0000 126 :  
0000 127 : V03-005 MIR0032 Michael I Rosenblum 31-Aug-1981  
0000 128 : Fixed assembly error on local symbol.  
0000 129 :  
0000 130 : V03-004 MIR0017 Michael I Rosenblum 17-Aug-1981  
0000 131 : Added support for the new terminal driver features, Corrected  
0000 132 : error in split speed code  
0000 133 :  
0000 134 : V03-003 MIR0005 Michael I Rosenblum 31-July-1981  
0000 135 : Fixed blank owner name now prints "not available"  
0000 136 :  
0000 137 : V03-002 MIR0001 Michael I Rosenblum 30-July-1981  
0000 138 : Reformatting of the output, activated split speed code  
0000 139 : Added code to show username if different from process ID  
0000 140 :  
0000 141 : V03-001 SB' 3001 Steven B. Lionel, 26-June-1980  
0000 142 : Remove trailing comma from HALFDUP/FULLDUP.  
0000 142 :--
```

```

0000 144 :
0000 145 : MACRO TO EASE CREATION OF NEW TERMINAL TYPES
0000 146 :
0000 147 : .MACRO CRETTYPE TYPE,Name
0000 148 $$=.
0000 149 .if blank name
0000 150 .ASCIC /TYPE/
0000 151 .iff
0000 152 .ascic /name/
0000 153 .endc
0000 154 $$$=.
0000 155 .=TYPE_NAME+<TTS 'TYPE*4>
0000 156 .IF GE .-END_NAME
0000 157 .ERROR TTS_'TYPE ; TERMINAL TTS_'TYPE DOES NOT FIT IN TYPE_NAME
0000 158 .IFF
0000 159 .ADDRESS $$
0000 160 .ENDC
0000 161 .=$$$
0000 162 .ENDM
0000 163 :
0000 164 : MACRO TO HANDLE BIT DEFINITIONS
0000 165 : FOR THE SECOND DEVICE DEPENDENT LONGWORD
0000 166 :
0000 167 : .MACRO CREDIT2 BIT,ON_STR,OFF_STR
0000 168 SYMCRE TT2$V_'BIT,<ON_STR>,<OFF_STR>,POS2,NEG2
0000 169 .ENDM
0000 170 :
0000 171 : MACRO TO HANDLE SYMBOL DEFINITIONS
0000 172 :
0000 173 : .MACRO SYMCRE BIT,ON_STR,OFF_STR,ON_BASE_ADR,OFF_BASE_ADR
0000 174 $$_ON=.
0000 175 .ASCIC /ON_STR/
0000 176 $$_OFF=.
0000 177 .ASCIC /OFF_STR/
0000 178 $$$=.
0000 179 .=ON_BASE_ADR+<'BIT*4> ;GET TO THE RIGHT PLACE (LONG WORD TABLE
0000 180 .ADDRESS $$_ON
0000 181 .=OFF_BASE_ADR+<'BIT*4> ;AND DO THE SAME FOR THE OFF ADDRESS
0000 182 .ADDRESS $$_OFF
0000 183 .=$$$
0000 184 .ENDM
0000 185 :
0000 186 : MACRO TO CREATE DEVICE INFORMATION ITEMS
0000 187 :
0000 188 : .MACRO $GDVITM LEN,ITEM,ADR,LEN_ADR=0
0000 189 .WORD LEN
0000 190 .WORD DVIS_'ITEM
0000 191 .LONG ADR
0000 192 .LONG LEN_ADR
0000 193 .ENDM
0000 194 :
0000 195 : EXTERNAL SYMBOLS
0000 196 :
0000 197 $DEVDEF ; DEFINE DEVICE CHARACTERISTICS
0000 198 $DSCDEF ; DEFINE DESCRIPTOR DEFINITIONS
0000 199 $DVIDEF ; DEFINE DEVICE INFO BLOCK
0000 200 $JPIDEF ; DEFINE JPI VALUES

```

```

0000 201          $TTDEF                ; DEFINE TERMINAL CHARACTERISTICS
0000 202          $TT2DEF               ; DEFINE SECOND TERMINAL CHAR LONGWORD
0000 203          ;
0000 204          ; LOCAL STORAGE
0000 205          ;
0000 206          ;
00000000 207          .PSECT SHOW$RWDATA,NOEXE,LONG
0000 208          ;
0000 209          ;
0000 210          ; STORAGE
0000 211          ;
00000001 0000 212 SHOW$SL_STATUS: .LONG 1 ; INTERNAL STATUS
00000000 0004 213 CHAN: .LONG 0 ; TERMINAL CHANNEL NUMBER
00000000 0008 214 BITS: .LONG 0 ; STORAGE FOR CLI CALL BACK
00000000 000C 215 IOSB: .LONG 0,0 ; IOSB FOR TERMINAL GET CHARACTERISTICS
00000000 0014 216 UTIL_DESC: .LONG 0,0 ; UTILITY DESC
001C 217          ;
001C 218 TER_INFO:
001C 219          ;
00 001C 220 TER$B_DEVCLASS: .BYTE 0 ; THE TERMINAL CLASS
00 001D 221 TER$B_DEVTYPE: .BYTE 0 ; THE TERMINAL TYPE
0000 001E 222 TER$W_DEVBUFSIZ: .WORD 0 ; THE WIDTH
0000 0020 223 TER$SL_DEVDEP: .WORD 0 ; THE FIRST DEVICE DEPENDENT
00 0022 224          ;
00 0023 225 TER$B_LENGTH: .BYTE 0 ; TERMINAL LENGTH
00000000 0024 226 TER$SL_DEVDEP2: .LONG 0 ; THE SECOND DEVICE DEPENDENT WORD
0028 227          ;
00000000 0028 228 TER$SL_PID: .LONG 0 ; THE OWNER PID
002C 229          ;
00000000 002C 230 TER$SL_DEVCHAR: .LONG 0 ; THE DEVICE CHARACTERISTICS
00000000 0030 231 TER$SL_DEVCHAR2: .LONG 0 ; THE DEVICE CHARACTERISTICS #2
0034 232          ;
00000000 0034 233 TER$SL_PHYDEVLN: .LONG 0 ; Length of physical device name
00 0038 234 TER$B_PHYDEVCT: .BYTE 0 ; Count in byte size
00000048 0039 235 TER$ _PHYDEV: .BLKB 15 ; Maximum of 15 bytes
0048 236          ;
00000000 0048 237 TER$SL_DEVNAMLN: .LONG 0 ; THE LENGTH OF THE DEVICE NAME
00 004C 238 TER$B_DEVNAMCT: .BYTE 0 ; COUNT IN BYTE SIZE
0000005C 004D 239 TER$ _DEVNAM: .BLKB 15 ; MAXIMUM OF 15 BYTES
005C 240          ;
00000000 005C 241 TMP$SL_DEVCLASS: .LONG 0
00000000 0060 242 TMP$SL_DEVTYPE: .LONG 0
00000000 0064 243 TMP$SL_DEVBUFSIZ: .LONG 0
0068 244          ;
0068 245 TMPTRM_INFO:
00000070 0068 246 .BLKB 1 ; PLACE TO SAVE THE TERMINAL INFO
0070 247 TMPTRM$SL_DEVDEP2:
00000074 0070 248 .BLKB 1 ;...
0074 249          ;
0000007D'010E00F 0074 250 TMP_DEVNAM: .LONG <DSC$K_CLASS_S @ <DSC$B_CLASS * 8>>!-
007C 251 <DSC$K_DTYPE_T @ <DSC$B_DTYPE * 8>>!-
007C 252 15, TMP_TYPE_NAME
00 007C 253 TMP_TYPE_CT: .BYTE 0 ; COUNTED STRING FOR TERMTABLE TYPE NAME
0000008C 007D 254 TMP_TYPE_NAME: .BLKB 15
00000000 008C 255 TERM_TABLE_ADDR: .LONG 0 ; ADDRESS OF DEFINITION FROM TERMTABLE
0090 256          ;
0090 257          ;

```

```

0090 258 ; Storage for post-activation linkage to SMG (shareable image)
0090 259 ;
0090 260 ;
00000094 0090 261 SMG$INIT_TERM_TABLE_BY_TYPE: .BLKL 1 ; Addresses of routines
00000098 0094 262 SMG$DEL_TERM_TABLE: .BLKL 1
0098 263 ;
52 48 53 47 4D 53 000000A0'010E0000' 0098 264 $SMGSHR: .ASCID /SMGSHR/ ; Name of shareable image
00A6 265 ;
4E 49 24 47 4D 53 000000AE'010E0000' 00A6 266 $SMG$INIT_TERM_TABLE_BY_TYPE: .ASCID /SMG$INIT_TERM_TABLE_BY_TYPE/ ; Names of r
4C 42 41 54 5F 4D 52 45 54 5F 54 49 00B4
45 44 24 47 4D 53 000000D1'010E0000' 00C0
45 4C 42 41 54 5F 4D 52 45 54 5F 4C 00D7
00E3 268 ;
00E3 269 ;
00E3 270 ; MAIN DEVICE CHARACTERISTICS
00E3 271 ;
00EF 272 GETDVI_INFO: $GDVITM 4,DEVCHAR,TERSL_DEVCHAR
00FB 273 $GDVITM 4,DEVCHAR2,TERSC_DEVCHAR2
0107 274 $GDVITM 4,DEVCLASS,TMP$L_DEVCLASS
0113 275 $GDVITM 4,DEVTYPE,TMP$L_DEVTYPE
011F 276 $GDVITM 4,DEVBUFSIZ,TMP$L_DEVBUFSIZ
012B 277 $GDVITM 4,DEVDEPEND,TERSL_DEVDEP
0137 278 $GDVITM 4,DEVDEPEND2,TERSC_DEVDEP2
0143 279 $GDVITM 4,PID,TERSL_PID
014F 280 $GDVITM 15,TT_PHYDEVNAM,TER$_PHYDEV,TERSL_PHYDEVLN
00000000 015B 281 SPLDVI_INFO: $GDVITM 15,DEVNAM,TER$_DEVNAM,TERSL_DEVNAMLN
015F 282 .LONG 0
015F 283 ;
015F 284 ; SECONDARY COPY OF PRIMARY SPECS
015F 285 ;
016B 286 SECDVI_INFO: $GDVITM 4,DEVCHAR!DVISC_SECONDARY,TERSL_DEVCHAR
0177 287 $GDVITM 4,DEVCHAR2!DVISC_SECONDARY,TERSC_DEVCHAR2
0183 288 $GDVITM 4,DEVCLASS!DVISC_SECONDARY,TMP$L_DEVCLASS
018F 289 $GDVITM 4,DEVTYPE!DVISC_SECONDARY,TMP$L_DEVTYPE
019B 290 $GDVITM 4,DEVBUFSIZ!DVISC_SECONDARY,TMP$L_DEVBUFSIZ
01A7 291 $GDVITM 4,DEVDEPEND!DVISC_SECONDARY,TERSL_DEVDEP
01B3 292 $GDVITM 4,DEVDEPEND2!DVISC_SECONDARY,TERSC_DEVDEP2
01B3 293 $GDVITM 4,PID!DVISC_SECONDARY,TERSL_PID
01BF 294 $GDVITM 15,TT_PHYDEVNAM!DVISC_SECONDARY,TER$_PHYDEV,TERSL_PHYDEVLN
00000000 01CB 295 $GDVITM 15,DEVNAM!DVISC_SECONDARY,TER$_DEVNAM,TERSL_DEVNAMLN
01D7 296 .LONG 0
01DB 297 ;
00000004 01DB 298 NUMPERLINE==4
01DB 299 ;
01DB 300 CHAR_LIST: .REPT 100
01DB 301 .LONG NULL_STRING
0000036B' 01DB 302 .ENDR
00 036B 303 NULL_STRING: .BYTE 0
036C 304 ;
036C 305 ; CLI REQUEST DESCRIPTORS
036C 306 ;
00000000 020E0000 036C 307 TERM_DESC: .LONG <DSC$K_CLASS_D @ <DSC$B_CLASS * 8>>!--
0374 308 <DSC$K_DTYPE_T @ <DSC$B_DTYPE * 8>>!--
0374 309 0,0
45 43 49 56 45 44 0000037C'010E0000' 0374 310 TERM_RQST: .ASCID \DEVICE\
4E 41 4D 52 45 50 0000038A'010E0000' 0382 311 PERM_RQST: .ASCID \PERMANENT\

```



```

072C 345 cretype VT102
0732 346 cretype VT105
0738 347 cretype VT125
073E 348 cretype VT131
0744 349 cretype VT132
074A 350 cretype VT173
0750 351 cretype VK100
0756 352 cretype VT200_Series
0763 353 cretype PRO_Series
076E 354 cretype tg_Bts,BTS
0772 355 cretype FT1
0776 356 cretype FT2
077A 357 cretype FT3
077E 358 cretype FT4
0782 359 cretype FT5
0786 360 cretype FT6
078A 361 cretype FT7
078E 362 cretype FT8

```

```

0792 363 :
0792 364 : POSITIVE CHARACTERISTIC STRINGS
0792 365 :
0792 366 POSITIVE_NAME:
0792 367 .LONG 1$,2$,3$,4$,5$,6$,0,7$,8$,9$,0,0,10$,11$,0,13$,0,14$,15$,16$,17$,18$

```

```

00000807'000007FA'000007F2'000007EA'
0000081E'00000000 00000817'0000080E'
00000000 00000000 0000082C'0000082B'
0000083E'00000000 00C00837'00000831'
0000085D'00000854'00000847'00000000
      0000086A'00000862'
      6C 6C 61 73 73 61 50 00'
      6F 68 63 45 20 6F 4E 00'
61 65 68 61 65 70 79 54 20 6F 4E 00'
      64 0806
      0C 07FA
      65 70 61 63 73 45 00'
      63 6E 79 73 74 73 6F 48 00'
      63 6E 79 73 54 54 00'
65 73 61 63 72 65 77 6F 4C 00'
      09 081E
      62 61 54 00'
      03 0828
      70 61 72 57 00'
      04 082C
      65 70 6F 63 53 00'
      05 0831
      65 74 6F 6D 65 52 00'
      06 0837
      74 69 62 74 68 67 69 45 00'
73 61 63 64 61 6F 72 42 20 6F 4E 00'
      08 083E
      0C 0847
      63 6E 79 73 64 61 65 52 00'

```

```

07EA 368 1$: .ASCIC /Passall/
07EA 369 2$: .ASCIC /No Echo/
07F2 370 3$: .ASCIC /No Typeahead/
0806
07FA
0807 371 4$: .ASCIC /Escape/
0807
080E 372 5$: .ASCIC /Hostsync/
080E
0817 373 6$: .ASCIC /Ttsync/
0817
081E 374 7$: .ASCIC /Lowercase/
081E
0828 375 8$: .ASCIC /Tab/
0828
082C 376 9$: .ASCIC /Wrap/
082C
0831 377 10$: .ASCIC /Scope/
0831
0837 378 11$: .ASCIC /Remote/
0837
083E 379 13$: .ASCIC /Eightbit/
083E
0847 380 14$: .ASCIC /No Broadcast/
0847
0853
0847
0854 381 15$: .ASCIC /Readsync/

```



```

00000000 00000000 00000000 00000000 00000000 097B
00000000 00000000 00000000 00000000 00000000 098B
00000000 00000000 00000000 00000000 00000000 099B
00000000 00000000 00000000 00000000 00000000 09AB
00000000 00000000 00000000 00000000 00000000 09BB
00000A45 00000A3A 00000A34 00000A2B 090B
00000A66 00000A5E 00000A54 09DB
6F 68 63 65 5F 6C 61 63 6F 4C 00 09E7 413 0$: .ASCIC /Local_echo/
0A 09E7
64 75 61 62 6F 74 75 41 00 09F2 414 1$: .ascic /Autobaud/
08 09F2
70 75 67 6E 61 48 00 09FB 415 2$: .ascic /Hangup/
06 09FB
78 62 6D 74 73 63 64 72 42 00 0A02 416 4$: .ascic /Brdcstmbx/
09 0A02
4E 4F 58 00 0A0C 417 5$: .ascic /XON/
03 0A0C
41 4D 44 00 0A10 418 6$: .ascic /DMA/
03 0A10
64 68 61 65 70 79 74 6C 41 00 0A14 419 7$: .ascic /Altypeahd/
09 0A14
65 65 70 73 5F 74 65 53 20 6F 4E 00 0A1E 420 8$: .ascic /No Set_speed/
64 0A2A
0C 0A1E
0A2B 421
54 52 43 5F 49 53 4E 41 00 0A2B 422 24$: .ascic /ANSI_CRT/
08 0A2B
73 69 67 65 52 00 0A34 423 25$: .ascic /Regis/
05 0A34
65 64 6F 6D 5F 6B 63 6F 6C 42 00 0A3A 424 26$: .ascic /Block_mode/
0A 0A3A
69 76 5F 64 65 63 6E 61 76 64 41 00 0A45 425 27$: .ascic /Advanced_video/
6F 65 64 0A51
0E 0A45
65 64 6F 6D 5F 74 69 64 45 00 0A54 426 28$: .ascic /Edit_mode/
09 0A54
54 52 43 5F 43 45 44 00 0A5E 427 29$: .ascic /DEC_CRT/
07 0A5E
32 54 52 43 5F 43 45 44 00 0A66 428 30$: .ascic /DEC_CRT2/
08 0A66
0A6F 429 :
0A6F 430 : Negative of the second devdependent longword
0A6F 431 :
0A6F 432 neg2:
433 .LONG 0$,1$,2$,0,4$,0,6$,7$,8$,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,24$,25$,26$,2
00000000 00000B05 00000AF9 00000AEB 0A6F
00000B28 00000B21 00000000 00000B0F 0A7F
00000C00 00000000 00000000 00000B35 0A8F
00000000 00000000 00000000 00000000 0A9F
00000000 00000000 00000000 00000000 0AAF
00000000 00000000 00000000 00000000 0ABF
00000B62 00000B54 00000B4B 00000B3F 0ACF
00000B8C 00000B81 00000B74 0ADF
0000001E 0AEB
63 65 5F 6C 61 63 6F 4C 20 6F 4E 00 0AEB 434 NUMCHRS2=<<.-NEG2>/4>-1
6F 3B 0AF7 435 0$: .ascic /No Local_echo/
0D 0AEB
64 75 61 62 6F 74 75 41 20 6F 4E 00 0AF9 436 1$: .ascic /No Autobaud/

```

```

    70 75 57 6E 61 48 20 6F 4E 00' 0B05 437 2$: .ascic /No Hangup/
    09 0B05
    62 6D 74 73 63 64 72 42 20 6F 4E 00' 0B0F 438
    78 0B0F 439 4$: .ascic /No Brdcstmbx/
    0C 0B1B
    46 46 4F 58 00' 0B1C 440 5$: .ascic /XOFF/
    04 0B1C
    41 4D 44 20 6F 4E 00' 0B21 441 6$: .ascic /No DMA/
    06 0B21
    68 61 65 70 79 74 6C 41 20 6F 4E 00' 0B28 442 7$: .ascic /No Altypeahd/
    64 0B34
    0C 0B28
    64 65 65 70 73 5F 74 65 53 00' 0B35 443 8$: .ascic /Set_speed/
    09 0B35
    0B3F 444
    54 52 43 5F 49 53 4E 41 20 6F 4E 00' 0B3F 445 24$: .ascic /No ANSI_.RT/
    0B 0B3F
    73 69 67 65 52 20 6F 4E 00' 0B4B 446 25$: .ascic /No Regis/
    08 0B4B
    6F 6D 5F 6B 63 6F 6C 42 20 6F 4E 00' 0B54 447 26$: .ascic /No Block_mode/
    65 64 0B60
    0D 0B54
    64 65 63 6E 61 76 64 41 20 6F 4E 00' 0B62 448 27$: .ascic /No Advanced_video/
    6F 65 64 69 76 5F 0B6E
    11 0B62
    64 6F 6D 5F 74 69 64 45 20 6F 4E 00' 0B74 449 28$: .ascic /No Edit_mode/
    65 0B80
    0C 0B74
    54 52 43 5F 43 45 44 20 5F 4E 00' 0B81 450 29$: .ascic /No DEC_CRT/
    0A 0B81
    32 54 52 43 5F 43 45 44 20 6F 4E 00' 0B8C 451 30$: .ascic /No DEC_CRT2/
    0B 0B8C
    0B98 452 crebit2 editing,<Line Editing>,<No Line Editing>
    0BB5 453 crebit2 App keypad,<Application keypad>,<Numeric Keypad>
    0BD7 454 CREBIT2 FALLBACK,<Fallback>,<No Fallback>
    0BEC 455 CREBIT2 DISCONNECT,<Disconnect>,<No Disconnect>
    0C05 456 CREBIT2 DIALUP,<Dialup>,<No Dialup>
    0C16 457 CREBIT2 INSERT,<Insert editing>,<Overstrike editing>
    0C38 458 CREBIT2 PRINTER,<Printer port>,<No Printer Port>
    0C55 459 CREBIT2 SECURE,<Secure server>,<No Secure server>
    0C74 460 CREBIT2 SIXEL,<SIXEL Graphics>,<No SIXEL Graphics>
    0C95 461 CREBIT2 DRCS,<Soft Characters>,<No Soft Characters>
    0CB8 462 crebit2 PASTHRU,<Pasthru>,<No Pasthru>
    0CCB 463 CREBIT2 SYSPWD,<Syspassword>,<No Syspassword>
    0CE6 464
    6E 65 76 45 00' 0CE6 465 .noshow me
    04 0CE6 466 EPAR: .ASCIC /Even/
    64 64 4F 00' 0CEB 467 OPAR: .ASCIC /Odd/
    03 0CEB
    65 6E 6F 4E 00' 0CEF 468 NOPAR: .ASCIC /None/
    04 0CEF
    012C 0096 0086 006E 004B 0032 0000 0CF4 469 SPEED: .WORD 0,50,75,110,134,150,300,600,1200,1800,2000,2400,3600,4800,-
    0E10 0960 07D0 0708 04D0 0258 0D02
    4800 2580 1C20 12C0 0D0E 470 7200,9600,19200

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4F 43 24 53 59 53 00000D1E'010E0000' 0D16 471 SYS_COMMAND:
      44 4E 41 4D 4D 0D16 472 .ASCID /SYSS$COMMAND/
      0D24
      0D29 473 :
      0D29 474 : SPACE FOR PROCESS OWNER NAME AND GETJPI
      0D29 475 :
      00000014 0D29 476 OWNER_NAME: .LONG 20
      00000D31' 0D2D 477 .LONG 10$
      00000D45 0D31 478 10$: .BLKB 20
      00000014 0D45 479 USER_NAME: .LONG 20
      00000D4D' 0D49 480 .LONG 20$
      00000D61 0D4D 481 20$: .BLKB 20
      0014 0D61 482 JPI_ITMLST: .WORD 20
      031C 0D63 483 .WORD JPI$ PRCNAM
      00000D31' 0D65 484 .LONG OWNER_NAME+8
      00000D29' 0D69 485 .LONG OWNER_NAME
      0014 0D6D 486 .WORD 20
      0202 0D6F 487 .WORD JPI$ USERNAME
      00000D4D' 0D71 488 .LONG USER_NAME+8
      00000D45' 0D75 489 .LONG USER_NAME
      00000000 0D79 490 .LONG 0
      0D7D 491 :
      0D7D 492 : NO OWNER NAME
      0D7D 493 :
      00000008' 0D7D 494 NO_OWNER: .LONG 20$-10$
      00000D85' 0D81 495 .LONG 10$
      72 65 6E 77 4F 20 6F 4E 0D85 496 10$: .ASCII /No Owner/
      0D8D 497 20$:
      0000000D' 0D8D 498 NOT_AVAIL: .LONG 20$-10$
      00000D95' 0D91 499 .LONG 10$
      6C 62 61 6C 69 61 76 41 20 74 6F 4E 0D95 500 10$: .ASCII /Not Available/
      65 0DA1
      0DA2 501 20$:
      0000 0DA2 502 BLNK: .WORD 0
      65 74 20 6C 61 63 69 73 79 68 50 00' 0DA4 503 PHY_TERM: .ASCIC 'Physical terminal: '
      20 3A 6C 61 6E 69 6D 72 0DB0
      72 65 74 20 6C 61 75 74 72 69 56 00' 0DB8 504 VIR_TERM: .ASCIC 'Virtual terminal: '
      20 3A 6C 61 6E 69 6D 0DC4
      13 0DB8
      72 61 70 20 73 73 69 6D 73 69 44 00' 0DCB 505 DISM: .ASCIC /Dismiss parity errors/
      73 72 6F 72 72 65 20 79 74 69 0DD7
      15 0DCB
      6F 20 65 74 61 6E 69 6D 72 65 54 00' 0DE1 506 NODISM: .ASCIC /Terminate on parity errors/
      72 72 65 20 79 74 69 72 61 70 20 6E 0DED
      73 72 6F 0DF9
      1A 0DE1
      65 74 63 65 6E 6E 6F 63 73 69 44 00' 0DFC 507 DISCON: .ASCIC /Disconnected/
      64 0E08
      0C 0DFC
      3E 65 74 61 76 69 72 50 3C 00' 0E09 508 PRINAME: .ASCIC /<Private>/
      09 0E09

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```

00000000 510      .PSECT SHOW$CODE,NOWRT
0000      511      :++
0000      512      : SHOW$TERM - SHOW TERMINAL CHARACTERISTICS
0000      513      :
0000      514      : FUNCTIONAL DESCRIPTION:
0000      515      :
0000      516      : THIS ROUTINE SHOWS THE CHARACTERISTICS OF A SPECIFIED TERMINAL.
0000      517      : IT IS ENTERED AS A RESULT OF A DISPATCH FROM THE SHOW COMMAND PROCESSOR.
0000      518      :
0000      519      : INPUTS:
0000      520      :
0000      521      :     None
0000      522      :
0000      523      : OUTPUTS:
0000      524      :
0000      525      :     None.  If any error occurs, it will be signaled
0000      526      :--
0000      527      :
03FC      0000      528      .ENTRY SHOW$TERMINAL, ^M<R2,R3,R4,R5,R6,R7,R8,R9>
0002      529      :
0000036C'EF 7F 0002 530      PUSHAQ TERM_DESC           ; GET VALUE DESCRIPTOR
00000374'EF 7F 0008 531      PUSHAQ TERM_RQST          ; GET REQUEST DESCRIPTOR
00000000'GF 02 FB 000E 532      CALLS #2,G^CLI$GET_VALUE    ; REQUEST TERMINAL NAME
0000      0B 50 EB 0015 533      BLBS RO,20$              ; IF LBS, GOT A NAME
0018      534      :
0018      535      :     DEFAULT NAME IS 'SYS$COMMAND'
0018      536      :
0000036C'EF 0000D16'EF 7D 0018 537      MOVQ SYS_COMMAND, TERM_DESC ; Use 'SYS$COMMAND' as name
0023      538      :
0023      539      :     GET DEVICE INFO IN CASE THE TERMINAL IS ASSIGNED TO SOMEONE ELSE
0023      540      :
0023      541      :     THIS ALLOWS SOME INFORMATION TO BE PRINTED.
0023      542      :
00000000'EF 56 0000036C'EF 7E 0023 543 20$:  MOVAQ TERM_DESC, R6           ; GET ADDRESS OF TERMINAL DESC
00000000'EF 50 3C 002A 544      $GETDVIW S     DEVMAM=(R6),ITMLST=SECDVI INFO
0000      03 50 EB 0044 545      MOVZWL RO,SHOW$STATUS      ; COPY CODE
0000      0127 31 004B 546      BLBS RO,23$              ; BR IF ERROR - NO SUCH DEVICE
0000002C'EF 14 E1 004E 547 21$:  BRW 40$
0000      000002C'EF 14 E1 0051 548 23$:  BBC #DEVSV_MBX,TER$ DEVCHAR,25$ ; CHECK IF MAILBOX
0000      00000000'EF 50 3C 0059 549      $GETDVIW_S     DEVMAM=(R6),ITMLST=GETDVI INFO; YES THEN GET
0000      D1 50 E9 007A 550      : THE SECONDARY CHARACTERISTICS
0000      00000000'EF 50 3C 0073 551      MOVZWL RO,SHOW$STATUS      ;GET A STATUS CODE
0000      D1 50 E9 007A 552      BLBC RO,21$              ;BAD SCEAN
0000      007D 553      :
0000001C'EF 0000005C'EF F6 007D 554 25$:  CVTLB TMP$ DEVCLASS,TER$B DEVCLASS; CONVERT THE DEVICE CLASS
0000001D'EF 00000060'EF F6 0088 555      CVTLB TMP$ DEVTYPE,TER$B DEVTYPE; CONVERT THE DEVICE TYPE
0000001E'EF 00000064'EF F7 0093 556      CVTLW TMP$ DEVBUFSIZ,TER$W DEVBUFSIZ; AND THE TERMINAL WIDTH
0000004C'EF 00C00048'EF F6 009E 557      CVTLB TER$ DEVNAMLN,TER$B DEVNAMCT; MAKE A DEVICE NAME COUNTED STRING
00A9      558      :
00000000'EF 0000'8F 3C 00A9 559      MOVZWL #SS$ IVDEVNAM,SHOW$ STATUS ; Assume device not terminal
0000      94 0000002C'EF 02 E1 00B2 560      BBC #DEVSV_TRM,TER$ DEVCHAR,21$ ; Error if not a terminal
00BA      561      :
00000000'EF 0000'8F 3C 00BA 562      MOVZWL #SS$ TERMNETDEV,SHOW$ STATUS ; Assume being used by network
0000      83 0000002C'EF 0D E0 00C3 563      BBS #DEVSV_NET,TER$ DEVCHAR,21$ ; Error if network usage
00CB      564      :
00CB      565      :
00CB      566      :     TRY TO ASSIGN A CHANNEL TO THE TERMINAL - TO GET SPEED AND PARITY

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00CB 567 :
00CB 568 28$: $ASSIGN_S (R6),CHAN ; ASSIGN CHANNEL TO DEVICE
00DC 569 BLBC RO,30$ ; IF LOW CLEAR THEN PRINT WHAT'S AVAIL
00000068'EF 0000001C'EF 7D 00DF 570 MOVQ TER INFO,TMPTRM INFO: SAVE THE RECIEVED INFO INCASE OF
00000070'EF 00000024'EF D0 00EA 571 MOVL TER$ DEVDEP2,TMPTRM$ DEVDEP2;
0000001C'EF 7C 00F5 572 CLRQ TER INFO ;CLEAN THE INFO BLOCK OUT
00000024'EF D4 00FB 573 CLRL TER$ DEVDEP2 ;AND THE SECOND DEVICE DEPENDENT WORD
0101 574 $QIOW_S #1,CHAN,#IOS_SENSEMODE,IOSB,P1=TER INFO,P2=#12
012A 575 BLBS RO,30$ ;NO ERROR THEN START THE NORMAL WORK
0000001C'EF 00000068'EF 7D 012D 576 MOVQ TMPTRM INFO,TER INFO: RESTORE THE TERMINAL INFORMATION
00000024'EF 00000070'EF D0 0138 577 MOVL TMPTRM$ DEVDEP2,TER$ DEVDEP2; AND SAVE THE ERROR
00000000'EF 50 D0 0143 578 30$: MOVL RO,SHOW$C_STATUS ; SAVE ERROR CODE
00000382'EF DF 014A 579 PUSHAL PERM RQST ; SEE IF /PERMANENT WAS SET
00000000'GF 01 FB 0150 580 CALLS #1,G^CLIPRESENT
09 50 E8 0157 581 BLBS RO,35$ ; IF NOT SET, THEN
000001E9'EF 00 FB 015A 582 CALLS #0,NOT_PERM ; PROCESS REGULARLY
07 11 0161 583 BRB 37$ ; AND PROCEED
0000018C'EF 00 FB 0163 584 35$: CALLS #0,PERM ; OTHERWISE PROCESS PERM
50 00000000'EF D0 0178 585 37$: $DASSGN_S CHAN ; DEASSIGN CHANNEL
09 50 E8 017F 586 40$: MOVL SHOW$L_STATUS,RO ; RETRIEVE FINAL STATUS
00000000'GF 50 DD 0182 588 BLBS RO,45$ ; SKIP IT IF OK
01 FB 0184 589 PUSHL RO ; OTHERWISE SIGNAL IT
04 018B 590 45$: RET ; DONE
018C 591 :
018C 592 : PERMANENT QUALIFIER ROUTINE
018C 593 :
OFFC 018C 594 PERM: .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>; PROCESS PERMANENT QUALIFIER
4A 00000000'EF E9 018E 595 BLBC SHOW$L_STATUS,15$ ; BR IF CHANNEL NOT ASSIGNED
0000001C'EF 7C 0195 596 CLRQ TER INFO ;CLEAN THE INFO BLOCK OUT
00000024'EF D4 019B 597 CLRL TER$ DEVDEP2 ;FOR COMPATABILITY REASONS
01A1 598 $QIOW_S #0,CHAN,#IOS_SENSECHAR,IOSB,P1=TER INFO,P2=#12
0A 50 E9 01CA 599 BLBC RO,5$ ; BR IF NOT SUCCESS
50 0000000C'EF 3C 01CD 600 MOVZWL :OSB,RO ; GET IOSB STATUS
14 50 E8 01D4 601 BLBS RO,PRINT ; AND CONTINUE IF SUCCESS
00000000'EF 50 D0 01D7 602 5$: MOVL RO,SHOW$L_STATUS ; SAVE STATUS
04 01DE 603 RET
00000000'EF 0000'8F 3C 01DF 604 15$: MOVZWL #SS$ _NOPRIV,SHOW$L_STATUS; ASSUME NO PRIVILEGE
04 01E8 605 RET
01E9 606 :
01E9 607 : OUTPUT CHARACTERISTICS AND NON-PERMANENT QUALIFIER ROUTINE
01E9 608 :
OFFC 01E9 609 NOT PERM: .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>; NOT PERMANENT ENTRY
01EB 610 PRINT::
01EB 611 :
01EB 612 : OUTPUT NAME, TYPE, WIDTH AND PAGE AND OWNER
01EB 613 :
000001E3'EF 00000D7D'EF 7D 01EB 614 MOVQ NO_OWNER, CHAR_LIST+8 ; Use an inocuous owner if it is
00000028'EF D5 01F6 615 TSTL TER$ _PID ; Check to see if there 's an owner
61 13 01FC 616 BEQL 3$ ; No owner then leave as a default
01FE 617 $GETJPIW_S - ; Else get the owner information
01FE 618 ITMLST = JPI ITMLST, -
01FE 619 PIDADR = TER$ _PID
0D 50 E8 0219 620 BLBS RO, 2$ ; Got it
000001E3'EF 00000D8D'EF 7D 021C 621 MOVQ NOT_AVAIL, CHAR_LIST+8 ; Else say owner not available
36 11 0227 622 BRB 3$
0229 623

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000001E3'EF 00000D29'EF 7D 0229 624 2$: MOVQ OWNER_NAME, CHAR_LIST+8 ; Insert real owner name
00000D49'FF 00000D45'EF 20 3A 0234 625 LOCC #^A' ^, USER_NAME, @USER_NAME+4 ; Remove trailing blanks
00000D45'EF 50 C2 0240 626 SUBL RO, USER_NAME ; from username
20 00000D2D'FF 00000D29'EF 2D 0247 627 CMPCS OWNER_NAME, @OWNER_NAME+4, - ; Is owner process name
00000D49'FF 00000D45'EF 0253
00000D45'EF 06 12 025D 628 #^A' ^, USER_NAME, @USER_NAME+4 ; the same as username?
00000D45'EF 00000D45'EF D4 025D 629 BNEQ 5$ ; Nope, keep the username around
000001DB'EF 0000004C'EF 9E 025F 630 3$: CLRL USER_NAME ; No special username to display
50 0000001D'EF 98 0265 631 5$: MOVAB TER$B_DEVNAMCT, CHAR_LIST ; Address name
0000053D'EF 00 18 0270 632 CVTBL TER$B_DEVTYPE, RO ; Get terminal type value
00 09 18 0277 633 BGEQ 9$ ; Non-foreign (0-127)
00 00 18 0279 634 CALLS #0, GET_FOREIGN_TYPE ; Foreign (128-255), go find type
00 0C 11 0280 635 BRB 10$
000001DF'EF 000004DE'EF40 D0 0282 636 MOVL TYPE_NAME[RO], CHAR_LIST+4 ; Set address of type name
000001DB'EF DF 028E 637 9$: ASSUME END NAME-TYPE_NAME/4 EQ 128
00000393'EF 7F 028E 638 10$: PUSHAL CHAR_LIST ; Output message
00000000'GF 02 FB 0294 639 10$: PUSHAQ SHOW$ TERM_L1
029A 640 CALLS #2, G^SHOW$WRITE_LINE
02A1 641
02A1 642 :
02A1 643 : Output physical and/or virtual device name and/or username, if any
02A1 644 :
000001DB'EF 00000DA4'EF 9E 02A1 645 MOVAB PHY_TERM, CHAR_LIST ; Assume physical terminal display
000001DF'EF 00000DFC'EF 9E 02AC 646 MOVAB DISCON, CHAR_LIST+4 ; Assume disconnected terminal
50 00000030'EF 01 E0 02B7 647 BBS #DEV$V_DET, TER$ DEVCHAR2, 15$ ; Br if disconnected
00000038'EF 00000034'EF F6 02BF 648 CVTLB TER$L_PHYDEVLN, TER$B_PHYDEVCT ; Any physical device name?
00 43 13 02CA 649 BEQL 15$ ; Nope, it's disconnected
00000039'EF 00000034'EF 2D 02CC 650 CMPCS TER$L_PHYDEVLN, TER$_PHYDEV, #0, - ; Is the physical name
00000048'EF 02D8
0000004D'EF 02DD 651 TER$L_DEVNAMLN, TER$_DEVNAM ; the same as virtual name?
00 0D 13 02E2 652 BEQL 14$ ; Yes, no physical name to display
000001DF'EF 00000038'EF 9E 02E4 653 MOVAB TER$B_PHYDEVCT, CHAR_LIST+4 ; Else set the physical name
00 1E 11 02EF 654 BRB 15$
000001DB'EF 00000DA2'EF 9E 02F1 655
000001DF'EF 00000DA2'EF 9E 02FC 656 14$: MOVAB BLNK, CHAR_LIST ; Blank out the
00000D45'EF D5 0307 657 MOVAB BLNK, CHAR_LIST+4 ; physical/virtual name display
20 13 030D 658 TSTL USER_NAME ; Any username to display?
000001DB'EF DF 030F 659 BEQL 19$ ; Nope, nothing to display at all
000003CA'EF 7F 0315 660 15$: PUSHAL CHAR_LIST ; Stack list
00000D45'EF D5 031B 661 PUSHAQ SHOW$ TERM_L1A ; and FAO string
12 13 0321 662 TSTL USER_NAME ; A username to display, too?
000001E3'EF 6E 000003D8'EF 7E 0323 663 BEQL 18$ ; No
00000D45'EF 7E 032A 664 MOVAQ SHOW$ TERM_L1B, (SP) ; Yes, change the FAO string
00000000'GF 02 FB 0335 665 MOVAQ USER_NAME, CHAR_LIST+8 ; and set the username
033C 666 18$: CALLS #2, G^SHOW$WRITE_LINE ; Output message
033C 667 19$: ; Continue
033C 668 :
033C 669 : OUTPUT PRIVILEGED LINE OF INFORMATION
033C 670 :
03 00000000'EF E8 033C 671 BLBS SHOW$L_STATUS, 23$ ; IF ASSIGN FAILED THEN NO SPEED LINE
00E3 31 0343 672 BRW 30$
57 0000000F'EF 9A 0346 673 23$: MOVZBL IOSB+3, R7 ; GET THE SPEED
07 12 034D 674 BNEQ 24$ ; IF IT WERN'T ZERO THEN USE THIS SPEED
57 0000000E'EF 9A 034F 675 MOVZBL IOSB+2, R7 ; ELSE USE THE OTHER SPEED
000001DB'EF 00000CF4'EF47 3C 0356 676 24$: MOVZWL SPEED[R7], CHAR_LIST ;
000001DF'EF 00000011'EF 9A 0362 677 MOVZBL IOSB+5, CHAR_LIST+4 ; INSERT LF FILL
000001E3'EF 0000001E'EF 3C 036D 678 MOVZWL TER$W_DEVBUFSIZ, CHAR_LIST+8 ; INSERT WIDTH

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000001E7'EF 00000CEF'EF 9E 0378 679 MOVAB NOPAR,CHAR_LIST+12 ; ASSUME NO PARITY
1E 00000012'EF 06 E1 0383 680 BBC #TT$V,PARITY,IOSB+6,25$ ; PARITY?
000001E7'EF 00000CE6'EF 9E 038B 681 MOVAB EPAR,CHAR_LIST+12 ; ASSUME EVEN
0B 00000012'EF 07 E1 0396 682 BBC #TT$V,ODD,IOSB+6,25$ ; BR IF EVEN
000001E7'EF 00000CEB'EF 9E 039E 683 MOVAB OPAR,CHAR_LIST+12 ;
000001DB'EF 000001DB'EF 9F 03A9 684 25$: PUSHAB CHAR_LIST ; USE THE NORMAL CHARACTERISTIC LIST
000003F9'EF DF 03AF 685 PUSHAL SHOW$ TERM_L2 ; AND USE OUR SECOND LINE
00000000'EF 02 FB 03B5 686 CALLS #2,SHOW$WRITE_LINE ; SHOW THE MESSAGE
58 0000000E'EF 9A 03BC 687 MOVZBL IOSB+2,R8 ; SPEED OUT
000001DB'EF 00000CF4'EF48 3C 03C3 688 MOVZWL SPEED[R8],CHAR_LIST
000001DF'EF 0000001C'EF 9A 03CF 689 MOVZBL IOSB+4,CHAR_LIST+4 ; INSERT CR FILL
000001E3'EF 00000023'EF 9A 03DA 690 MOVZBL TER$B_LENGTH,CHAR_LIST+8 ; INSERT PAGE
000001E7'EF 00000DA2'EF 9E 03E5 691 MOVAB BLNK,CHAR_LIST+12 ; DON'T TELL ABOUT DISMISS IF NO PARITY
1E 00000012'EF 06 E1 03F0 692 BBC #TT$V,PARITY,IOSB+6,27$ ; PARITY?
000001E7'EF 00000DCB'EF 9E 03F8 693 MOVAB DISM,CHAR_LIST+12 ; NORMALLY DISMISS PARITY ERRORS
0B 00000C12'EF 01 E0 0403 694 BBS #1,IOSB+6,27$ ; CONTINUE IF NOT DISMISSING
000001E7'EF 00000DE1'EF 9E 040B 695 MOVAB NODISM,CHAR_LIST+12 ; AND SAY NO DISMISS
000001DB'EF 9F 0416 696 27$: PUSHAB CHAR_LIST ; OUTPUT MESSAGE
00000444'EF DF 041C 697 PUSHAL SHOW$ TERM_L3 ;
00000000'EF 02 FB 0422 698 CALLS #2,SHOW$WRITE_LINE ;
0429 699 ;
0429 700 ; OUTPUT CHARACTERISTICS DATA
0429 701 ;
54 D4 0429 702 30$: CLRL R4
56 000001DB'EF 9E 042B 703 MOVAB CHAR_LIST,R6
86 03 D0 0432 704 MOVL S^#NUMPERLINE-1,(R6)+ ; HOW MANY OF THESE ARE ON A LINE
55 01 CE 0435 705 MNEGL #1,R5 ; START R5 AS NEGITIVE 1
0438 706
66 00000792'EF44 D0 0438 707 50$: MOVL POSITIVE_NAME[R4],(R6); ASSUME POSITIVE
22 13 0440 708 BEQL 65$
55 D6 0442 709 INCL R5
04 55 91 0444 710 CMPB R5,S^#NUMPERLINE ;KEEP COUNT OF HOW MANY OF THESE WE USE
09 12 0447 711 BNEQ 55$ ; IF WE DON'T HAVE 5 THEN DON'T WORRIE
04 A6 66 D0 0449 712 MOVL (R6),4(R6) ;MOVE THE LOCATION UP 1 LONG WORD
86 03 D0 044D 713 MOVL S^#NUMPERLINE-1,(R6)+ ;MOVE UP 1 AND PUT IN THE COUNT
55 D4 0450 714 CLRL R5
08 00000020'EF 54 E0 0452 715 55$: BBS R4,TER$L_DEVDEP,60$ ; BR IF POSITIVE
66 00000870'EF44 D0 045A 716 MOVL NEGITIVE_NAME[R4],(R6); SET NEGITIVE
86 D5 0462 717 60$: TSTL (R6)+ ; MOVE TO NEXT
54 D6 0464 718 65$: INCL R4
15 54 D1 0466 719 CMPL R4,#NUMCHRS1 ; TEST IF DONE YET
CD 1B 0469 720 BLEQU 50$
046B 721
54 D4 046B 722 CLRL R4 ; START OVER WITH R4
046D 723
66 0000096B'EF44 D0 046D 724 70$: MOVL POS2[R4],(R6) ; ASSUME POSITIVE
22 13 0475 725 BEQL 80$ ; IF NOTHING THERE TO ASUME THEN DON'T
55 D6 0477 726 INCL R5
04 55 91 0479 727 CMPB R5,#NUMPERLINE ;KEEP COUNT OF HOW MANY OF THESE WE USE
09 12 047C 728 BNEQ 73$ ; IF WE DON'T HAVE 5 THEN DON'T WORRIE
04 A6 66 D0 047E 729 MOVL (R6),4(R6) ;MOVE THE LOCATION UP 1 LONG WORD
86 03 D0 0482 730 MOVL #NUMPERLINE-1,(R6)+ ;MOVE UP 1 AND PUT IN THE COUNT
55 D4 0485 731 CLRL R5
08 00000024'EF 54 E0 0487 732 73$: BBS R4,TER$L_DEVDEP2,75$ ; BR IF POSITIVE
66 00000A6F'EF44 D0 048F 733 MOVL NEG2[R4],(R6) ; SET NEGITIVE
86 D5 0497 734 75$: TSTL (R6)+ ; MOVE TO NEXT
54 D6 0499 735 80$: INCL R4

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      1E 54 D1 049B 736      CML  R4,#NUMCHRS2      ; TEST IF DONE YET
      CD 1B 049E 737      BLEQU 70$
      04A0 738
      55 02 C0 04A0 739      ADDL2 #2,R5      ;MOVE THE POINTER TO THE CORRECT SPOT
50 04 55 C5 04A3 740      MULL3 R5,#4,R0      ;GET OUR OFFSET
      56 50 C2 04A7 741      SUBL R0,R6
      66 FE A5 DE 04AA 742      MOVAL -2(R5),(R6)
      04AE 743
      7E D4 04AE 744      CLRL -(SP)      ; GET A NULL PARAMETER
      5E DD 04B0 745      PUSHL SP      ; AND POINT TO IT
      00000486'EF DF 04B2 746      PUSHAL SHOW$ TERM L4      ; GET CONTROL STRING
00000000'EF 02 FB 04B8 747      CALLS #2,SHOW$WRITE_LINE      ; PRINT IT
      8E D5 04BF 748      TSTL (SP)+      ; CLEAN UP
      04C1 749
      57 D4 04C1 750      CLRL R7      ; KEEP TRACK OF WHERE WE ARE IN R7
56 000001DB'EF DE 04C3 751      MOVAL CHAR_LIST,R6      ; GET AT HEAD OF CHARACTERISTICS LIST
      58 14 57 C5 04CA 752 81$: MULL3 R7,#20,R8      ; GET OFFSET INTO CHARACTERISTICS
      7E 56 58 C1 04CE 753      ADDL3 R8,R6,-(SP)      ; PUSH ADDRESS OF ONE LINE OF CHARS
      000004A9'EF DF 04D2 754      PUSHAL SHOW$ TERM L5      ; AND CONTROL STRING
00000000'EF 02 FB 04DB 755      CALLS #2,SHOW$WRITE_LINE      ; OUTPUT IT
      E7 57 0B F2 04DF 756      AOBLS #11,R7,81$      ; KEEP GOING
      04E3 757      ;
      04E3 758      ; Output spooled device data
      04E3 759      ;
51 0000002C'EF 06 E1 04E3 760      BBC #DEV$V_SPL, TER$L_DEVCHAR, 85$ ; Br if not spooled device
      04EB 761      $GETDVIW S - ; Get spooled device information
      04EB 762      DEVNAM = TERM_DESC, -
      04EB 763      ITMLST = SPLDVI INFO
      00000000'EF 50 D0 0509 764      MOVL R0, SHOW$L_STATUS      ; Save the status code
      29 50 E9 0510 765      BLBC R0, 85$      ; Output nothing if failure
000001DB'EF 00000048'EF D0 0513 766      MOVL TER$L_DEVNAMLN, CHAR_LIST ; Insert name size
000001DF'EF 0000004D'EF 9E 051E 767      MOVAB TER$L_DEVNAM, CHAR_LIST+4 ; and address
      000001DB'EF DF 0529 768      PUSHAL CHAR_LIST      ; Output message
      000004BF'EF 7F 052F 769      PUSHAQ SHOW$ TTLP SPL
00000000'EF 02 FB 0535 770      CALLS #2, SHOW$WRITE_LINE
      04 053C 771 85$: RET

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053D 773 :++
053D 774 : GET_FOREIGN_TYPE - Get a foreign terminal type (128 to 255)
053D 775 :
053D 776 : Implicit inputs:
053D 777 :
053D 778 :     TER$B_DEVTYPE = Foreign terminal type (128 to 255)
053D 779 :
053D 780 : Implicit outputs:
053D 781 :
053D 782 :     CHAR_LIST+4 = Address of terminal type name (.ASCII)
053D 783 :--
053D 784 :
053D 785 GET_FOREIGN_TYPE: ; Get a foreign terminal type
0000 053D 786     .WORD     ^M<>
053F 787
000001DF'EF 000006DE'EF 9E 053F 788     MOVAB     UNK, CHAR_LIST+4 ; Assume terminal is UNKNOWN
054A 789
00000060'EF 0000001D'EF 9A 054A 790     MOVZBL   TER$B_DEVTYPE, TMP$L_DEVTYPE ; Extend device type to longword
000000BF 8F 00000060'EF D1 0555 791     CMPL     TMP$L_DEVTYPE, #191 ; Type in the private range?
0560 792     BGTRU   90$ ; No (can always get system names)
00000000'8F 00000000'EF D1 0562 793     CMPL     SHOW$L_STATUS, #SS$_DEVALLOC ; Don't try to get private name for
056D 794     BNEQ    90$ ; device alloc to someone else
000001DF'EF 00000E09'EF 9E 056F 795     MOVAB    PRNAME, CHAR_LIST+4 ; Use <Private>
057A 796     BRB     100$
057C 797
057C 798 :
057C 799 : Do not link to the SMG unless you must
057C 800 :
057C 801 :
00000090'EF DF 057C 802 90$: PUSHAL   SMG$INIT_TERM_TABLE_BY_TYPE ; Link to SMG
000000A6'EF 7F 0582 803     PUSHAQ   $SMG$INIT_TERM_TABLE_BY_TYPE
00000098'EF 7F 0588 804     PUSHAQ   $SMG$SHR
00000000'GF 03 FB 058E 805     CALLS    #3, G^LIB$FIND_IMAGE_SYMBOL
00000094'EF DF 0595 806     PUSHAL   SMG$DEL_TERM_TABLE
000000C9'EF 7F 059B 807     PUSHAQ   $SMG$DEC_TERM_TABLE
00000000'GF 03 FB 05A1 808     CALLS    #3, G^LIB$FIND_IMAGE_SYMBOL
05A8 809
00000074'EF 7F 05A8 810     PUSHAQ   TMP_DEVNAM ; Check termtable for definition
0000008C'EF DF 05AE 811     PUSHAL   TERM_TABLE_ADDR
00000060'EF DF 05B4 812     PUSHAL   TMP$C_DEVTYPE
00000090'FF 03 FB 05BA 813     CALLS    #3, @SMG$INIT_TERM_TABLE_BY_TYPE
05C1 814     BLBC    RO, 100$ ; Exit if not defined
05C4 815
0000007C'EF 00000074'EF 33 05C4 816     CVTWB    TMP_DEVNAM, TMP_TYPE_CT ; Make name counted string
000001DF'EF 0000007C'EF 9E 05CF 817     MOVAB    TMP_TYPE_CT, CHAR_LIST+4
05DA 818
00000094'FF 00 FB 05DA 819     CALLS    #0, @SMG$DEL_TERM_TABLE ; Release any vm used
05E1 820
04 05E1 821 100$: RET
05E2 822
05E2 823     .END

```

SHOWTERM
Symbol table

- SHOW CHARACTERISTICS OF A TERMINAL ^{K 1}

15-SEP-1984 23:48:29 VAX/VMS Macro V04-00
4-SEP-1984 23:23:40 [CLIUTL.SRC]SHOWTERM.MAR;1

SS	= 0000078E	R	02	NUMCHRS1	= 00000015		
SS\$	= 00000CE6	R	02	NUMCHRS2	= 0000001E		
SS\$T1	= 00000001			NUMPERLINE	= 00000004	G	
SS\$OFF	= 00000CD7	R	02	OPAR	00000CEB	R	02
SS\$ON	= 00000CCB	R	02	OWNER_NAME	00000D29	R	02
SSMGSDEL_TERM_TABLE	000000C9	R	02	PERM	0000018C	R	03
SSMGSINIT_TERM_TABLE_BY_TYPE	000000A6	R	02	PERM_RQST	00000382	R	02
SSMGS\$HR	00000098	R	02	PHY_TERM	00000DA4	R	02
BITS	00000008	R	02	POS2	0000096B	R	02
BLNK	00000DA2	R	02	POSITIVE_NAME	00000792	R	02
CHAN	00000004	R	02	PRINAME	00000E09	R	02
CHAR_LIST	000001DB	R	02	PRINT	000001EB	RG	03
CLISGET_VALUE	*****	X	03	SECDVI_INFO	0000015F	R	02
CLISPRESENT	*****	X	03	SHOWSL_STATUS	00000000	R	02
DEVSV_DET	= 00000001			SHOW\$TERMINAL	00000000	RG	03
DEVSV_MBX	= 00000014			SHOW\$WRITE_LINE	*****	X	03
DEVSV_NET	= 0000000D			SHOW\$TERM_L1	00000393	R	02
DEVSV_SPL	= 00000006			SHOW\$TERM_L1A	000003CA	R	02
DEVSV_TRM	= 00000002			SHOW\$TERM_L1B	000003D8	R	02
DISCON	00000DFC	R	02	SHOW\$TERM_L2	000003F9	R	02
DISM	00000DCB	R	02	SHOW\$TERM_L3	00000444	R	02
DSC\$B_CLASS	= 00000003			SHOW\$TERM_L4	00000486	R	02
DSC\$B_DTYPE	= 00000002			SHOW\$TERM_L5	000004A9	R	02
DSC\$K_CLASS_D	= 00000002			SHOW\$TTLP_SPL	000004BF	R	02
DSC\$K_CLASS_S	= 00000001			SMGSDEL_TERM_TABLE	00000094	R	02
DSC\$K_DTYPE_T	= 0000000E			SMGSINIT_TERM_TABLE_BY_TYPE	00000090	R	02
DVISC_SECONDARY	= 00000001			SPEED	00000CF4	R	02
DVIS_DEVBUFSIZ	= 00000008			SPLDVI_INFO	0000014F	R	02
DVIS_DEVCHAR	= 00000002			SS\$DEVALLOC	*****	X	03
DVIS_DEVCHAR2	= 000000E6			SS\$IVDEVNAM	*****	X	03
DVIS_DEVCLASS	= 00000004			SS\$NOPRIV	*****	X	03
DVIS_DEVDEPEND	= 0000000A			SS\$TERMNETDEV	*****	X	03
DVIS_DEVDEPEND2	= 0000001C			SYSS\$ASSIGN	*****	GX	03
DVIS_DEVNAM	= 00000020			SYSS\$DASSGN	*****	GX	03
DVIS_DEVTYPE	= 00000006			SYSS\$GETDVIW	*****	GX	03
DVIS_PID	= 0000000E			SYSS\$GETJPIW	*****	GX	03
DVIS_TT_PHYDEVNAM	= 00000112			SYSS\$QIOW	*****	GX	03
END_NAME	000006DE	R	02	SYS_COMMAND	00000D16	R	02
EPAR	00000CE6	R	02	TER\$B_DEVCLASS	0000001C	R	02
GETDVI_INFO	000000E3	R	02	TER\$B_DEVNAMCT	0000004C	R	02
GET_FOREIGN_TYPE	0000053D	R	03	TER\$B_DEVTYPE	0000001D	R	02
IOS_SENSECHAR	*****	X	03	TER\$B_LENGTH	00000023	R	02
IOS_SENSEMODE	*****	X	03	TER\$B_PHYDEVCT	00000038	R	02
IOSB	0000000C	R	02	TER\$L_DEVCHAR	0000002C	R	02
JPI\$PRCNAM	= 0000031C			TER\$L_DEVCHAR2	00000030	R	02
JPI\$USERNAME	= 00000202			TER\$L_DEVDEP	00000020	R	02
JPI_TTMLST	00000D61	R	02	TER\$L_DEVDEP2	00000024	R	02
LIB\$FIND_IMAGE_SYMBOL	*****	X	03	TER\$L_DEVNAMLN	00000048	R	02
LIB\$SIGNAL	*****	X	03	TER\$L_PHYDEVLN	00000034	R	02
NEG2	00000A6F	R	02	TER\$L_PID	00000028	R	02
NEGATIVE_NAME	00000870	R	02	TER\$W_DEVBUFSIZ	0000001E	R	02
NODISM	00000DE1	R	02	TER\$DEVNAM	0000004D	R	02
NOPAR	00000CEF	R	02	TER\$PHYDEV	00000039	R	02
NOT_AVAIL	00000D8D	R	02	TERM_DESC	0000036C	R	02
NOT_PERM	000001E9	R	03	TERM_RQST	00000374	R	02
NO_OWNER	00000D7D	R	02	TERM_TABLE_ADDR	0000008C	R	02
NULL_STRING	0000036B	R	02	TER_INFO	0000001C	R	02

SHOWTERM
Symbol table

- SHOW CHARACTERISTICS OF A TERMINAL^{L 1}

15-SEP-1984 23:48:29 VAX/VMS Macro V04-00
4-SEP-1984 23:23:40 [CLIUTL.SRC]SHOWTERM.MAR;1

TMP\$L_DEVBUFSIZ	00000064	R	02	VIR_TERM	00000DB8	R	02
TMP\$L_DEVCLASS	0000005C	R	02				
TMP\$L_DEVTYPE	00000060	R	02				
TMPTRM\$L_DEVDEP2	00000070	R	02				
TMPTRM_INFO	00000068	R	02				
TMP_DEVNAM	00000074	R	02				
TMP_TYPE_CT	0000007C	R	02				
TMP_TYPE_NAME	0000007D	R	02				
TTSV_ODD	= 00000007						
TTSV_PARITY	= 00000006						
TTS_FT1	= 00000010						
TTS_FT2	= 00000011						
TTS_FT3	= 00000012						
TTS_FT4	= 00000013						
TTS_FT5	= 00000014						
TTS_FT6	= 00000015						
TTS_FT7	= 00000016						
TTS_FT8	= 00000017						
TTS_LA100	= 00000025						
TTS_LA12	= 00000024						
TTS_LA120	= 00000021						
TTS_LA24	= 00000025						
TTS_LA34	= 00000022						
TTS_LA36	= 00000020						
TTS_LA38	= 00000023						
TTS_LQPO2	= 00000026						
TTS_PRO_SERIES	= 0000006F						
TTS_TQ_BTS	= 00000004						
TTS_VKT00	= 00000002						
TTS_VT05	= 00000001						
TTS_VT100	= 00000060						
TTS_VT101	= 00000061						
TTS_VT102	= 00000062						
TTS_VT105	= 00000063						
TTS_VT125	= 00000064						
TTS_VT131	= 00000065						
TTS_VT132	= 00000066						
TTS_VT173	= 00000003						
TTS_VT200_SERIES	= 0000006E						
TTS_VT52	= 00000040						
TTS_VT55	= 00000041						
TT2\$V_APP_KEYPAD	= 00000017						
TT2\$V_DIALUP	= 0000000F						
TT2\$V_DISCONNECT	= 00000011						
TT2\$V_DRCS	= 00000015						
TT2\$V_EDITING	= 0000000C						
TT2\$V_FALLBACK	= 0000000E						
TT2\$V_INSEKT	= 0000000D						
TT2\$V_PASTHRU	= 00000012						
TT2\$V_PRINTER	= 00000016						
TT2\$V_SECURE	= 00000010						
TT2\$V_SIXEL	= 00000014						
TT2\$V_SYSPWD	= 00000013						
TYPE_NAME	000004DE	R	02				
UNK	000006DE	R	02				
USER_NAME	00000D45	R	02				
UTIL_DESC	00000014	R	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
\$ABSS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
SHOW\$RWDATA	00000E13 (3603.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
SHOW\$CODE	000005E2 (1506.)	03 (3.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	10	00:00:00.06	00:00:00.85
Command processing	80	00:00:00.88	00:00:04.46
Pass 1	315	00:00:11.52	00:00:38.36
Symbol table sort	0	00:00:01.21	00:00:03.69
Pass 2	180	00:00:03.25	00:00:10.38
Symbol table output	21	00:00:00.17	00:00:00.88
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	611	00:00:17.13	00:00:58.86

The working set limit was 1500 pages.
74182 bytes (145 pages) of virtual memory were used to buffer the intermediate code.
There were 50 pages of symbol table space allocated to hold 770 non-local and 108 local symbols.
823 source lines were read in Pass 1, producing 38 object records in Pass 2.
27 pages of virtual memory were used to define 26 macros.

! Macro library statistics !

Macro library name	Macros defined
-\$255\$DUA28:[CLIUTL.OBJ]CLIUTL.MLB;1	0
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	19
TOTALS (all libraries)	19

849 GETS were required to define 19 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SHOWTERM/OBJ=OBJ\$:SHOWTERM MSRC\$:SHOWTERM/UPDATE=(ENH\$:SHOWTERM)+EXECMLS/LIB+LIB\$:CLIUTL/LIB

This image displays a grid of 100 terminal window screenshots, arranged in 10 rows and 10 columns. Each window shows a different system utility or diagnostic tool. The most prominent and clearly legible windows include:

- SHOWTERM LIS**: Located in the upper right quadrant, showing terminal status information.
- SHOWMISC LIS**: Located in the middle left, showing miscellaneous system information.
- SHOWPROC LIS**: Located in the middle center, showing process status.
- SHOWSYS LIS**: Located in the middle right, showing system-wide statistics.
- SHOWMAIN LIS**: Located in the lower middle left, showing main memory usage.
- SHOWMSCP LIS**: Located in the lower middle center, showing message control process information.
- SHOWMSG LIS**: Located in the lower middle right, showing message queue details.
- SHOWQUE LIS**: Located in the lower right, showing queue information.

The remaining windows in the grid show various other system utilities, including file listings, directory structures, and system configuration details, though they are less legible due to the image's resolution and the density of the grid.

0058 AH-BT13A-SE
VAX/VMS V4.0

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SHWLSTR
LIS

SHWLUSER
LIS

The image displays a dense grid of approximately 100 small, overlapping terminal windows. Each window contains text-based data, likely representing system logs, configuration files, or diagnostic output. The text is rendered in a monospaced font, typical of early computer terminals. The overall appearance is that of a multi-processor system or a large-scale data processing environment. The text within the windows is too small to read in detail, but some headers like 'SHWLSTR LIS' and 'SHWLUSER LIS' are visible at the top of the grid.