

UUU	UUU	EEEEEEEEEEEEEEEE	TTTTTTTTTTTTTTTT	PPPPPPPPPPPP	
UUU	UUU	EEEEEEEEEEEEEEEE	TTTTTTTTTTTTTTTT	PPPPPPPPPPPP	
UUU	UUU	EEEEEEEEEEEEEEEE	TTTTTTTTTTTTTTTT	PPPPPPPPPPPP	
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEEEEEEEEEEEEEEE	TTT	PPPPPPPPPPPP	
UUU	UUU	EEEEEEEEEEEEEEEE	TTT	PPPPPPPPPPPP	
UUU	UUU	EEEEEEEEEEEEEEEE	TTT	PPPPPPPPPPPP	
UUU	UUU	EEE	TTT	PPP	
UUU	UUU	EEE	TTT	PPP	
UUU	UUU	EEE	TTT	PPP	
UUU	UUU	EEE	TTT	PPP	
UUU	UUU	EEE	TTT	PPP	
UUU	UUU	EEE	TTT	PPP	
UUUUUUUUUUUUUUUU	UUUUUUUUUUUUUUUU	EEEEEEEEEEEEEEEE	TTT	PPP	
UUUUUUUUUUUUUUUU	UUUUUUUUUUUUUUUU	EEEEEEEEEEEEEEEE	TTT	PPP	
UUUUUUUUUUUUUUUU	UUUUUUUUUUUUUUUU	EEEEEEEEEEEEEEEE	TTT	PPP	

_s
 Va
 --
 000
 000
 000
 7F1
 7F1
 7F1
 7F1
 7F1
 7F1
 7F1
 7F1

```

UU      UU      EEEEEEEEE  TTTTTTTTT  TTTTTTTTT  TTTTTTTTT  YY      YY      SSSSSSSS  000000  000000
UU      UU      EEEEEEEEE  TTTTTTTTT  TTTTTTTTT  TTTTTTTTT  YY      YY      SSSSSSSS  000000  000000
UU      UU      EE          TT          TT          TT          YY      YY      SS          00          00
UU      UU      EE          TT          TT          TT          YY      YY      SS          00          00
UU      UU      EE          TT          TT          TT          YY      YY      SS          00          00
UU      UU      EE          TT          TT          TT          YY      YY      SS          00          00
UU      UU      EEEEEEEEE  TT          TT          TT          YY      YY      SSSSSS      00          00
UU      UU      EEEEEEEEE  TT          TT          TT          YY      YY      SSSSSS      00          00
UU      UU      EE          TT          TT          TT          YY      YY      SS          0000        00
UU      UU      EE          TT          TT          TT          YY      YY      SS          0000        00
UU      UU      EE          TT          TT          TT          YY      YY      SS          0000        00
UU      UU      EE          TT          TT          TT          YY      YY      SS          0000        00
UUUUUUUUUU  EEEEEEEEE  TT          TT          TT          YY      YY      SSSSSSSS  000000  000000
UUUUUUUUUU  EEEEEEEEE  TT          TT          TT          YY      YY      SSSSSSSS  000000  000000

```

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

```

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

```

(2)	106	Declarations
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31
26

6D

71
42

5B

3E
6C

```

0000 1 .TITLE UETTYS00 VAX/VMS UETP DEVICE TEST FOR TERMINALS
0000 2 .IDENT 'V04-000'
0000 3 .ENABLE SUPPRESSION
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:
0000 31 : This module will be distributed with VAX/VMS under the [SYSTEST]
0000 32 : account.
0000 33 :
0000 34 : ABSTRACT:
0000 35 : This program tests terminal devices etc.
0000 36 :
0000 37 : ENVIRONMENT:
0000 38 : This program will run in user access mode, with interrupts enabled
0000 39 : at all times. This program requires the following privileges and
0000 40 : quotas:
0000 41 :
0000 42 :--
0000 43 :
0000 44 : AUTHOR: Larry D. Jones, CREATION DATE: January, 1981
0000 45 :
0000 46 : MODIFIED BY:
0000 47 :
0000 48 : V03-009 RNH0008 Richard N. Holstein, 01-May-1984
0000 49 : Fix so that CTRL/C really stops the test when run in loop mode.
0000 50 : Fix to preserve R3 across MOVCL. Fix to prevent RMS invalid
0000 51 : RAB when run in loop mode.
0000 52 :
0000 53 : V03-008 RNH0007 Richard N. Holstein, 15-Feb-1984
0000 54 : Take advantage of new UETP message codes. Fix SSERROR
0000 55 : interaction with RMS_ERROR.
0000 56 :
0000 57 : V03-007 RNH0006 Richard N. Holstein, 19-Dec-1983

```

```

0000 58 : Give correct sentinels to Test Controller.
0000 59 :
0000 60 : V03-006 RNH0005 Richard N. Holstein, 11-Nov-1983
0000 61 : Use decimal conversion routine for unit numbers.
0000 62 :
0000 63 : V03-005 RNH0004 Richard N. Holstein, 11-Mar-1983
0000 64 : Don't signal ending message in EXIT_HANDLER.
0000 65 :
0000 66 : V03-004 RNH0003 Richard N. Holstein, 28-Feb-1983
0000 67 : Allow for longer device names.
0000 68 :
0000 69 : V03-003 LDJ0004 Larry D. Jones, 26-Feb-1983
0000 70 : Added generic support for ANSI standard terminals.
0000 71 :
0000 72 : V03-002 RNH0002 Richard N. Holstein, 15-Oct-1982
0000 73 : Miscellaneous fixes listed in the V3B UETP Workplan.
0000 74 :
0000 75 : V03-001 LDJ0003 Larry D. Jones, 17-Jun-1982
0000 76 : Fixed VT100 on line 5 exceeded quota bug.
0000 77 :
0000 78 : V02-006 RNP0003 Robert N. Perron, 22-Jan-1982
0000 79 : Added watchdog timer to prevent test from hanging if we
0000 80 : get a hung device.
0000 81 :
0000 82 : V02-005 RNP0002 Robert N. Perron, 31-Dec-1981
0000 83 : Fixed problem with terminals that have network logical
0000 84 : links.
0000 85 :
0000 86 : V02-004 RNP0001 Robert N. Perron, 23-Dec-1981
0000 87 : Added two second pause after each page of output to give
0000 88 : other device tests a chance to run.
0000 89 :
0000 90 : V02-003 RNH0001 Richard N. Holstein, 09-Oct-1981
0000 91 : Use secondary device characteristics to get around problems
0000 92 : when a device is spooled. Don't test spooled devices.
0000 93 :
0000 94 : V02-002 LDJ0002 Larry D. Jones, 29-Sep-1981
0000 95 : Added support for LA34, LA38, VT101, VT102 and VT131. Fixed
0000 96 : problem with disabling all lines on one unsupported terminal.
0000 97 : Fixed problem with VT100 one shot mode leaving terminal char.
0000 98 : set wrong.
0000 99 :
0000 100 : V02-001 LDJ0001 Larry D. Jones, 22-Sep-1981
0000 101 : Fixed possible hang problem when running UETP from other than
0000 102 : the console.
0000 103 :
0000 104 : **

```

```

0000 106      .SBTTL Declarations
0000 107      :
0000 108      : INCLUDE FILES:
0000 109      :
0000 110      :     SYS$LIBRARY:LIB.MLB      for general definitions
0000 111      :     SHRLIB$:UETP.MLB        for UETP definitions
0000 112      :
0000 113      :
0000 114      : MACROS:
0000 115      :
0000 116      :     $CHFDEF                      : Condition handler frame definitions
0000 117      :     $DCDEF                      : Device characteristics definitions
0000 118      :     $DEVDEF                      : Device definitions
0000 119      :     $DIBDEF                     : Device Information Block
0000 120      :     $DVIDEF                     : $GETDVI ITMLST item codes
0000 121      :     $SECDEF                     : Section definitions
0000 122      :     $SHRDEF                     : Shared messages
0000 123      :     $SSDEF                      : System Service status codes
0000 124      :     $STSDEF                     : Status return
0000 125      :     $TTDEF                      : Terminal definitions
0000 126      :     $TT2DEF                    : Extended terminal definitions
0000 127      :     $UETUNTDEF                 : UETP unit block offset definitions
0000 128      :     $UETPDEF                   : UETP
0000 129      :
0000 130      :
0000 131      :     .MACRO TERMINAL,TERM_NAME,CLASS,TYPE,PREAMBLE,TERM_DATA,HEAD_LEN
0000 132      :     . =PC1...                  : PC of terminal type table
0000 133      :     .BYTE CLASS,TYPE,HEAD_LEN ; TERM_NAME
0000 134      :     .ADDRESS PC2...           : ASCII name address
0000 135      :     .ADDRESS PREAMBLE        : ASCII preamble address
0000 136      :     .ADDRESS TERM_DATA       : ASCII terminal specific data address
0000 137      :     PC1...=PC1...+15         : bump to the next address
0000 138      :     . =PC2...                 : point to the next ASCII msg
0000 139      :     : make it's label and function ID
0000 140      :     TERM_NAME:
0000 141      :     .ASCII /TERM_NAME/
0000 142      :     PC2...=.                  : update the string PC
0000 143      :     .ENDM TERMINAL
0000 144      :
0000 145      : EQUATED SYMBOLS:
0000 146      :
0000 147      : Facility number definitions:
00000001 0000 148      :     RMS$_FACILITY = 1
0000 149      :
0000 150      : SHR message definitions:
000740000 0000 151      :     UETP = UETP$_FACILITY@STSSV FAC_NO ; Define the UETP facility code
0007410E0 0000 152      :     UETP$_ABENDD = UETP!SHR$_ABENDD ; Define the UETP message codes
000741038 0000 153      :     UETP$_BEGIND = UETP!SHR$_BEGIND
000741080 0000 154      :     UETP$_ENDEDD = UETP!SHR$_ENDEDD
000741098 0000 155      :     UETP$_OPENIN = UETP!SHR$_OPENIN
000741130 0000 156      :     UETP$_TEXT = UETP!SHR$_TEXT
0000 157      :
0000 158      : Internal flag bits...:
000000001 0000 159      :     TEST_OVERV = 1           : Set when test is over
000000002 0000 160      :     SAFE_TO_UPDV = 2        : Set if it's safe to update UETINIDEV
000000003 0000 161      :     SELF_TESTV = 3         : Set when only user terminal is tested
000000004 0000 162      :     BEGIN_MSGV = 4         : Set if 'BEGIN' msg has been printed

```

```

00000005 0000 163          SCROL_CLRV  = 5          ; Set when a scroll area is defined
00000006 0000 164          TIMEOUT_ERRV = 6          ; Set if watch dog timer goes off
00000007 0000 165          CTRLC_SEENV  = 7          ; Set if test gets CTRL/C AST
          0000 166
          0000 167 :
00000002 0000 168 : ...and corresponding masks:
00000004 0000 169          TEST_OVERM = 1@TEST_OVERV
00000008 0000 170          SAFE_TO_UPDM = 1@SAFE_TO_UPDV
00000010 0000 171          SELF_TESTM  = 1@SELF_TESTV
00000020 0000 172          BEGIN_MSGM  = 1@BEGIN_MSGV
00000040 0000 173          SCROL_CLRM  = 1@SCROL_CLRV
00000080 0000 174          TIMEOUT_ERRM = 1@TIMEOUT_ERRV
          0000 175
          0000 176 :
00000020 0000 177          LC_BITM    = ^X20          ; Mask to convert lower case to upper
00000028 0000 178          REC_SIZE   = 40           ; UETINIDEV.DAT record size
00000084 0000 179          TEXT_BUFFER = 132          ; Internal text buffer size
00000004 0000 180          EFN2       = 4           ; EFN used for three minute timer
00000003 0000 181          SS_SYNCH_EFN = 3           ; Synch miscellaneous system services
0000000A 0000 182          MAX_DEV_DESIG = 10          ; Longest possible controller name
00000005 0000 183          MAX_UNIT_DESIG = 5           ; Maximum unit number length
0000000D 0000 184          CR        = ^XD          ; Carriage return
0000000A 0000 185          LF        = ^XA          ; Line feed
0000001B 0000 186          ESC       = 27          ; Escape
0000000C 0000 187          FF        = 12          ; Form feed
00000013 0000 188          TERM_TYPE_CNT = 19          ; Number of terminal types known now
00000007 0000 189          MAX_NAME_SIZE = 7           ; Maximum terminal name size
0000000F 0000 190          MAX_PROC_NAME = 15          ; Maximum process name size
00000100 0000 191          HDR_OUT_SIZE = 256          ; Maximum header output size
00000007 0000 192          SPL_UNITV   = 7           ; UETUNT$B_FLAG bit if unit is spooled
00000080 0000 193          SPL_UNITM   = 1@SPL_UNITV
          0000 194
          0000 195 : The following definitions are set depending on the device under test.
          0000 196 : Their names should not change because they are used in size calculations
          0000 197 : in the executable code. TSD_SIZE should be made at least as large as the
          0000 198 : largest terminal specific data size for any terminal in the test.
          0000 199 :
          0000 200
00000101 0000 201          WRITE_SIZE = 257          ; Size of device write buffer
00000600 0000 202          TSD_SIZE  = 1536          ; Size of device header buffer(3 pages)
          0000 203 :
          0000 204 :
          000001A4 0000 205          UETUNT$B_LINE = UETUNT$C_DEVDEP ; Current line number
          000001A5 0000 206          UETUNT$B_HD_LEN  = UETUNT$B_LINE+1 ; Header length in lines
          000001A6 0000 207          UETUNT$B_LENGTH = UETUNT$B_HD_LEN+1 ; Page length
          000001A7 0000 208          UETUNT$W_WIDTH  = UETUNT$B_LENGTH+1 ; Page width
          000001A8 0000 209          UETUNT$L_CURHDR  = UETUNT$W_WIDTH+4 ; Current position in the TSD
          000001AF 0000 210          UETUNT$K_CCTBL  = UETUNT$L_CURHDR+4 ; Carriage control size table addr
          000001B7 0000 211          UETUNT$K_WRITE  = UETUNT$K_CCTBL+8 ; Terminal write buffer
          000002B8 0000 212          UETUNT$K_HEADER = UETUNT$K_WRITE+257 ; Header buffer
          00000002 0000 213          UETUNT$V_2PL   = 2           ; 2 page limit flag
          00000004 0000 214          UETUNT$M_2PL   = 1@UETUNT$V_2PL
          0000 215
00000013 0000 216          DEVDEP_SIZE = <UETUNT$K_WRITE--
          0000 217          UETUNT$C_INDSIZ> ; Size of device dependent part of UETUNT
          0000 218
          0000 219          PAGES = <<UETUNT$C_INDSIZ+- ; Add together all of the pieces...

```

UETTY500
V04-000

VAX/VMS UETP DEVICE TEST FOR TERMINALS
Declarations

D 3

16-SEP-1984 01:36:06
5-SEP-1984 04:26:40

VAX/VMS Macro V04-00
[UETP.SRC]UETTY500.MAR;1

Page 5
(2)

UE
VO

00000005 0000 220
0000 221
0000 222
0000 223
0000 224

DEVDEP SIZE+-
WRITE SIZE+-
TSD SIZE+-
5115/512>

; ...which make up a UETP unit block...
; ...to give to the \$EXPREG service below


```

0000 226 .SBTTL Read-Only Data
00000000 227 .PSECT R0DATA,NOEXE,NOVRT,PAGE
0000 228
0000 229 ACNT_NAME: ; Process name on exit
53 45 54 53 59 53 00000008'010E0000' 0000 230 .ASCID /SYSTEST/
54 000E
000F 231
000F 232 TEST_NAME: ; This test name
59 54 54 54 45 55 00000017'010E0000' 000F 233 .ASCID /UETTTYS00/
30 30 53 001D
0020 234
0020 235 SUPDEV_GBLSEC: ; How we access UETSUPDEV.DAT
50 55 53 54 45 55 00000028'010E0000' 0020 236 .ASCID /UETSUPDEV/
56 45 44 002E
0031 237
0031 238 CONTROLLER: ; Logical name of controller
41 4E 4C 52 54 43 00000039'010E0000' 0031 239 .ASCID /CTRLNAME/
45 4D 003F
0041 240
0041 241 MODE: ; Run mode logical name
45 44 4F 4D 00000049'010E0000' 0041 242 .ASCID /MODE/
004D 243
004D 244 NO_RMS_AST_TABLE: ; List of errors for which...
00C00000' 004D 245 .LONG RMSS_BLN ; ..RMS cannot deliver an AST...
00000000' 0051 246 .LONG RMSS_BUSY ; ...even if one has an ERR= arg
00000000' 0055 247 .LONG RMSS_CDA ; Note that we can search table...
00000000' 0059 248 .LONG RMSS_FAB ; ...via MATCHC since <31:16>...
00000000' 005D 249 .LONG RMSS_RAB ; ...pattern can't be in <15:0>
00000014 0061 250 NRAT_LENGTH = -NO_RMS_AST_TABLE
0061 251
0061 252 SYSSINPUT: ; Name of device from which...
4E 49 24 53 59 53 00000069'010E0000' 0061 253 .ASCID /SYSSINPUT/
54 55 50 006F
0072 254
0072 255 INPUT_ITMLST: ; $GETDVI arg list for SYSSINPUT
0020 0040 0072 256 .WORD 64,DVIS_DEVNAM ; We need the equivalence name
0000000C'00000014' 0076 257 .LONG BUFFER,BUFFER_PTR
00000000 007E 258 .LONG 0 ; Terminate the list
0082 259
0082 260 TERM_ITMLST: ; $GETDVI arg list for terminal
001C 0004 0082 261 .WORD 4,DVIS_DEVDEPEND2 ; We need the extended term. char.
00000000 00000251' 0086 262 .LONG XTERM_CHAR,0
00000000 008E 263 .LONG 0 ; Terminate the list
0092 264
0092 265 CS1: ; Device class and type control string
21 20 42 58 32 21 0000009A'010E0000' 0092 266 .ASCID /!2XB !2XB /
20 42 58 32 00A0
00A4 267
00A4 268 CS3: ; Device class-only control string
2A 20 42 58 32 21 000000AC'010E0000' 00A4 269 .ASCID /!2XB **/
2A 00B2
00B3 270
00B3 271 CNTRLCMSG:
65 74 72 6F 62 41 000000BB'010E0000' 00B3 272 .ASCID \Aborted via a user CTRL/C\
72 65 73 75 20 61 20 61 69 76 20 64 00C1
43 2F 4C 52 54 43 20 00CD
00D4 273

```

6E 6F 63 20 6F 4E 000000DC'010E0000'
63 65 70 73 20 72 65 6C 6C 6F 72 74
2E 64 65 69 66 69

00D4
00D4
00E2
00EE
00F4
00F4

274 NO_CTRLNAME:
275 .ASCID /No controller specified./

20 74 27 6E 61 43 000000FC'010E0000'
6C 6F 72 74 6E 6F 63 20 74 73 65 74
72 61 6D 20 2C 53 41 21 20 72 65 6C
61 73 75 6E 75 20 73 61 20 64 65 6B
4E 49 54 45 55 20 6E 69 20 65 6C 62
2E 54 41 44 2E 56 45 44 49

00F4
00F4
0102
010E
011A
0126
0132
013B

276
277 DEAD_CTRLNAME:
278 .ASCID /Can't test controller !AS, marked as unusable in UETINIDEV.DAT./

69 6E 75 20 6F 4E 00000143'010E0000'
20 64 65 74 63 65 6C 65 73 20 73 74
2E 67 6E 69 74 73 65 74 20 72 6F 66

013B
013B
0149
0155

279
280 NOUNIT_SELECTED:
281 .ASCID /No units selected for testing./

61 67 65 6C 6C 49 00000169'010E0000'
72 6F 66 20 64 72 6F 63 65 72 20 6C
20 65 6C 69 66 20 6E 69 20 74 61 6D
41 44 2E 56 45 44 49 4E 49 54 45 55
21 54

0161
0161
016F
017B
0187
0193

282
283 ILLEGAL_REC:
284 .ASCID /Illegal record format in file UETINIDEV.DAT!/
285

66 6F 20 64 6E 45 0000019D'010E0000'
69 77 20 4C 55 21 20 73 73 61 70 20
61 72 65 74 69 20 4C 55 21 20 68 74
44 25 21 20 74 61 20 73 6E 6F 69 74
2E

0195
0195
01A3
01AF
01BB
01C7

286 PASS_MSG:
287 .ASCID /End of pass !UL with !UL iterations at !%D./

58 41 56 43 41 21 000001D0'010E0000'
65 74 20 50 54 45 55 20 53 4D 56 2F
20 74 73 65 74 20 6C 61 6E 69 6D 72
6F 66 20 30 30 53 59 54 54 54 45 55
74 61 20 43 41 21 20 65 68 74 20 72
2F 21 53 41 21 20

01C8
01C8
01D6
01E2
01EE
01FA
0206

288
289 HEAD_CTRSTR:
290 .ASCID \!ACVAX/VMS UETP terminal test UETTTYS00 for the !AC at !AS!/\

65 63 69 76 65 44 00000214'010E0000'
72 6F 20 65 6E 69 6C 20 66 66 6F 20
6C 62 61 74 73 65 74 20 74 6F 6E 20
2E 65

020C
020C
021A
0226
0232

291
292 TIME_OUT_MSG:
293 .ASCID \Device off line or not testable.\

6F 2D 65 6D 69 54 0000023C'010E0000'
20 6E 6F 20 72 6F 72 72 65 20 74 75
2E 53 41 21 20 65 63 69 76 65 64

0234
0234
0242
024E

294
295 TIMEOUT_ERR MSG:
296 .ASCID /Time-out error on device !AS./

64 20 72 65 6C 6C 6F 72 74 6E 6F 43
3A 3F 6E 6F 69 74 61 6E 67 69 73 65
20
00000019

0259
0259
0265
0271

297
298 PROMPT:
299 .ASCII /Controller designation?: /

300 PMTSIZ = .-PROMPT
301

```

0272 302 INIDEV_UPDERR: ; Error during exit handler
54 20 72 6F 72 72 45 0000027A'010E0000' 0272 303 .ASCID /Error updating UETINIDEV.DAT./
54 45 55 20 67 6E 69 74 61 64 70 75 0280
2E 54 41 44 2E 56 45 44 49 4E 49 028C
0297 304
0297 305 THREEMIN: ; 3 minute delta time
0297 306 .LONG -10*1000*1000*180,-1
029F 307
029F 308 TWOMIN: ; 2 minute delta time
029F 309 .LONG -10*1000*1000*120,-1
02A7 310
02A7 311 FIVESEC: ; 5 second delta time
02A7 312 .LONG -10*1000*1000*5,-1
02AF 313
02AF 314 TWCSEC: ; 2 seconds delta time
02AF 315 .LONG -10*1000*1000*2,-1
02B7 316
02B7 317 UNIT_DESC: ; Descriptor used to convert unit #
00000005 02B7 318 .LONG 5
0000001A' 02BB 319 .ADDRESS BUFFER+6
02BF 320
02BF 321 CONT_DESC: ; Descriptor used to convert controller...
0000 0028 02BF 322 .WORD REC_SIZE,0 ; ...from lowercase to uppercase
00000014' 02C3 323 .ADDRESS BUFFER
02C7 324
02C7 325 FILE: ; Fills in RMS_ERR_STRING
65 6C 69 66 000002CF'010E0000' 02C7 326 .ASCID /file/
02D3 327
02D3 328 RECORD: ; Fills in RMS_ERR_STRING
64 72 6F 63 65 72 000002DB'010E0000' 02D3 329 .ASCID /record/
02E1 330
02E1 331 RMS_ERR_STRING: ; Announces an RMS error
41 21 20 53 4D 52 000002E9'010E0000' 02E1 332 .ASCID /RMS !AS error in file !AD/
66 20 6E 69 20 72 6F 72 72 65 20 53 02EF
44 41 21 20 65 6C 69 02FB
0302 333
0302 334 HUNG_TERMINAL:
20 73 69 20 74 73 65 74 20 30 30 53 0310 335 .ASCID /UETTTYS00 test is hung!/
21 67 6E 75 68 031C
0321 336
0321 337 NOSPOOLED: ; We found a spooled device
65 6C 62 61 6E 55 00000329'010E0000' 0321 338 .ASCID /Unable to test !AS because it is spooled./
53 41 21 20 74 73 65 74 20 6F 74 20 032F
20 74 69 20 65 73 75 61 63 65 62 20 033B
2E 64 65 6C 6F 6F 70 73 20 73 69 0347
0352 339
0352 340 SIZE_TBL: ; table of output record sizes
0000 0352 341 .WORD 0 ; line size added in later
0000 0354 342 .WORD 0
0002 0356 343 .WORD 2
0001 0358 344 .WORD 1
00000008 035A 345 SIZE_TBL_LEN=-SIZE_TBL
035A 346
035A 347 DATA_BUF: ; 256 bytes of all printable characters
00000021 035A 348 A=^A!!/
035A 349 .REPT 94

```

	035A	350	.BYTE A
	035A	351	A=A+1
21	035A	352	.ENDR
00000021	03B8	353	A=^A/./
	03B8	354	.REPT 94
	03B8	355	.BYTE A
	03B8	356	A=A+1
21	03B8	357	.ENDR
00000021	0416	358	A=^A/!/

```

045A 366
045A 367 : Carriage control longword format.
045A 368
045A 369
045A 370 : -----+-----+-----+-----+
045A 371 : postfix  prefix  ! data Type! Fortran !
045A 372 : -----+-----+-----+-----+
045A 373
045A 374 CC_TBL:
00 01 01 00 045A 375 .BYTE 0,1,1,0 ; Prefix newline PosDfix null
01 01 01 00 045E 376 .BYTE 0,1,1,1 ; Prefix-Postfix newline
00 00 02 00 0462 377 .BYTE 0,2,0,0 ; Prefix-Postfix null
01 00 01 00 0466 378 .BYTE 0,1,0,1 ; Prefix null Postfix newline
00 8D 02 00 046A 379 .BYTE 0,2,^X8D,0 ; Prefix 7 bit Postfix null
00 CD 02 00 046E 380 .BYTE 0,2,^XCD,0 ; Prefix 8 bit Postfix null
01 8D 01 00 0472 381 .BYTE 0,1,^X8D,1 ; Prefix 7 bit postfix newline
01 CD 01 00 0476 382 .BYTE 0,1,^XCD,1 ; Prefix 8 bit Postfix newline
8D 00 01 00 047A 383 .BYTE 0,1,0,^X8D ; Prefix null Postfix 7 bit
8D 01 03 00 047E 384 .BYTE 0,3,1,^X8D ; Prefix newline Postfix 7 bit
8D 8D 03 00 0482 385 .BYTE 0,3,^X8D,^X8D ; Prefix 7 bit Postfix 7 bit
8D CD 03 00 0486 386 .BYTE 0,3,^XCD,^X8D ; Prefix 8 bit Postfix 7 bit
CD 00 01 00 048A 387 .BYTE 0,1,0,^XCD ; Prefix null Postfix 8 bit
CD 01 03 00 048E 388 .BYTE 0,3,1,^XCD ; Prefix newline Postfix 8 bit
CD 8D 03 00 0492 389 .BYTE 0,3,^X8D,^XCD ; Prefix 7 bit Postfix 8 bit
CD CD 02 00 0496 390 .BYTE 0,2,^XCD,^XCD ; Prefix 8 bit Postfix 8 bit
00 00 01 00 049A 391 .BYTE 0,1,0,0 ; Prefix-Postfix null
00000011 049E 392 CC_TBL_SIZE = <.-CC_TBL>/4
049E 393
049E 394 : The following table contains the device class and type of all devices supported
049E 395 : by this test. Any new devices must be added to this table or the device will
049E 396 : be tested as a DTS_TTYUNKN. The only other information that has to be supplied
049E 397 : to this program to test a new device is any device specific data. (See below)
049E 398 : The table contains a byte for the device class, a byte for the device type, and
049E 399 : an address of a device descriptor for the device specific data or zero if none
049E 400 : exists.
049E 401
049E 402
049E 403 TERM_NAMES:
00000523 049E 404 .BLKB TERM_TYPE_CNT*MAX_NAME_SIZE ; number of terminal macros * max by
0523 405
00000523 0523 406 PC1... =
0000049E 0523 407 PC2... = TERM_NAMES
0523 408 TESDEV_TBL:
00000640 0523 409 .BLKB 15*TERM_TYPE_CNT ; Allocate space for each macro
00000640 0640 410 SAVE PC... =
0640 411 TERMINAL VT100,DCS_TERM,DTS_VT100,VT100_PREAMBLE,VT100_DATA,0
04A4 412 TERMINAL VT101,DCS_TERM,DTS_VT101,VT100_PREAMBLE,VT100_DATA,0
04AA 413 TERMINAL VT102,DCS_TERM,DTS_VT102,VT100_PREAMBLE,VT100_DATA,0
04B0 414 TERMINAL VT125,DCS_TERM,DTS_VT125,VT100_PREAMBLE,VT100_DATA,0
04B6 415 TERMINAL VT131,DCS_TERM,DTS_VT131,VT100_PREAMBLE,VT100_DATA,0
04BC 416 TERMINAL VT132,DCS_TERM,DTS_VT132,VT100_PREAMBLE,VT100_DATA,0
04C2 417 TERMINAL VT52,DCS_TERM,DTS_VT52,VT52_PREAMBLE,VT52_DATA,4
04C7 418 TERMINAL LA120,DCS_TERM,DTS_LA120,FORM_FEED,LA120_DATA,2
04CD 419 TERMINAL LA34,DCS_TERM,DTS_LA34,FORM_FEED,LA36_DATA,2
04D2 420 TERMINAL LA36,DCS_TERM,DTS_LA36,FORM_FEED,LA36_DATA,2
04D7 421 TERMINAL LA38,DCS_TERM,DTS_LA38,FORM_FEED,LA36_DATA,2
04DC 422 TERMINAL VT55,DCS_TERM,DTS_VT55,VT52_PREAMBLE,VT52_DATA,2

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000005F5 04E1 423     TERMINAL VT5X,DC$ TERM,DT$ VT5X,VT52_PREAMBLE,VT52_DATA,2
          04E6 424     TERMINAL VT05,DC$_TERM,DT$_VT05,VT05_PREAMBLE,VT05_DATA,2
          04EB 425     .=PC1...
          05F5 426     UNKNOWN1:
          05F5 427     TERMINAL UNKNOWN,DC$ TERM,DT$ TTYUNKN,FORM_FEED,UNKN_DATA,2
          04F3 428     TERMINAL LA180,DC$ LP,DT$ LA180,FORM_FEED,LA180_DATA,2
          04F9 429     TERMINAL LA11,DC$_CP,DT$_CA11,FORM_FEED,LA11_DATA,2
          04FE 430     TERMINAL LP11,DC$_LP,DT$_LP11,FORM_FEED,LP11_DATA,2
00000640 0503 431     TERMINAL LAX,DC$_CP,DT$_LAX,FORM_FEED,LAX_DATA,2
00000640 0507 432     .=SAVE PC...
          0640 433     TESDEV_TBL_END = .
          0640 434
          0640 435     .ALIGN LONG
          0640 436
          0640 437 : The following is device specific data. To add data of this type do the following:
          0640 438 :
          0640 439 :     1. Create an ASCII string for the terminal data to be printed before
          0640 440 :         the header (PREAMBLE).
          0640 441 :
          0640 442 :     2. Create a string descriptor for the data.
          0640 443 :
          0640 444 :     3. Enter the terminal data and update the TSD_SIZE constant if the
          0640 445 :         new terminal specific data size is larger than the current value
          0640 446 :         for TSD_SIZE.
          0640 447 :
          0640 448 :     4. Enter the terminal information in the above table
          0640 449 :
          0640 450 : Terminal specific data for the VT100 terminal
          0640 451 :
          0640 452
          000003E1' 0640 453 VT100_DATA:
00000657' 0640 454     .LONG VT100L
          0644 455     .ADDRESS VT100_OUT_DATA
          0648 456
          0648 457 VT100_PREAMBLE:
          0648 458 :
          0648 459 : Set-up and header line
          0648 460 :
          0648 461     .BYTE VT100_PRE_LEN
          37 1B 0649 462     .ASCII <ESC>77/ ; Save attributes
          3C 1B 0648 463     .ASCII <ESC>/</ ; Enter ANSI mode
          4A 32 5B 1B 064D 464     .ASCII <ESC>/[2J/ ; Clear the screen
          48 31 3B 31 5B 1B 0651 465     .ASCII <ESC>/[1;1H/ ; Go home
          0000000E 0657 466     VT100_PRE_LEN = .-VT100_PREAMBLE-1
          0657 467 VT100_OUT_DATA:
          71 31 3B 30 5B 1B 0657 468     .ASCII <ESC>/[O;1q/ ; LED 1
          6D 31 3B 30 5B 1B 065D 469     .ASCII <ESC>/[O;1m/ ; Set bold
          0663 470 :
          0663 471 : Set-up double height and double width line modes
          0663 472 :
          0663 473     .REPT 3
          0663 474     .ASCII <ESC>/#3/ ; Double height top
          0663 475     .ASCII <ESC>/E/ ; Next line
          0663 476     .ASCII <ESC>/#4/ ; Double height bottom
          0663 477     .ASCII <ESC>/E/ ; Next line
          33 23 1B 0663 478     .ENDR
          0681 479     .REPT 3

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                                0681 480      .ASCII <ESC>/#6/      ; Double width
                                0681 481      .ASCII <ESC>/E/      ; Next line
                                36 23 1B 0681 482      .ENDR
                                0690 483      :
                                0690 484      : Write double height lines
                                0690 485      :
                                0690 486      .ASCII <ESC>/[2;1f/      ; Goto line 2, col 1
4C 4B 4A 49 48 47 46 45 44 43 42 41 0696 487      .ASCII 'ABCDEFGHJKLMNOPQRSTUVWXYZ-+/\[]01234567'<ESC>'E'
58 57 56 55 54 53 52 51 50 4F 4E 4D 06A2
33 32 31 30 5D 5B 5C 2F 2B 2D 5A 59 06AE
                                45 1B 37 36 35 34 06BA
4C 4B 4A 49 48 47 46 45 44 43 42 41 06C0 488      .ASCII 'ABCDEFGHJKLMNOPQRSTUVWXYZ-+/\[]01234567'<ESC>'E'
58 57 56 55 54 53 52 51 50 4F 4E 4D 06CC
33 32 31 30 5D 5B 5C 2F 2B 2D 5A 59 06D8
                                45 1B 37 36 35 34 06E4
                                71 32 3B 30 5B 1B 06EA 489      .ASCII <ESC>/[0;2q/      ; LED 2
                                6D 34 3B 30 5B 1B 06F0 490      .ASCII <ESC>/[0;4m/      ; Set underscore
6C 6B 6A 69 68 67 66 65 64 63 62 61 06F6 491      .ASCII /abcdefghijklmnopqrstuvwyz_!'"{}<ESC>/E/
78 77 76 75 74 73 72 71 70 6F 6E 6D 0702
                                45 1B 7D 7B 7E 60 7C 5F 7A 79 070E
6C 6B 6A 69 68 67 66 65 64 63 62 61 0718 492      .ASCII /abcdefghijklmnopqrstuvwyz_!'"{}<ESC>/E/
78 77 76 75 74 73 72 71 70 6F 6E 6D 0724
                                45 1B 7D 7B 7E 60 7C 5F 7A 79 0730
                                71 32 3B 31 3B 30 5B 1B 073A 493      .ASCII <ESC>/[0;1;2q/      ; LED 1 and 2
                                6D 34 3B 31 3B 30 5B 1B 0742 494      .ASCII <ESC>/[0;1;4m/      ; Bold and underscore
                                30 28 1B 074A 495      .ASCII <ESC>/[O/      ; Special graphics and line drawing set
6C 6B 6A 69 68 67 66 65 64 63 62 61 074D 496      .ASCII /abcdefghijklmnopqrstuvwyz_!'"{}<ESC>/E/
78 77 76 75 74 73 72 71 70 6F 6E 6D 0759
                                45 1B 7D 7B 7E 60 7C 5F 7A 79 0765
6C 6B 6A 69 68 67 66 65 64 63 62 61 076F 497      .ASCII /abcdefghijklmnopqrstuvwyz_!'"{}<ESC>/E/
78 77 76 75 74 73 72 71 70 6F 6E 6D 077B
                                45 1B 7D 7B 7E 60 7C 5F 7A 79 0787
                                0791 498      :
                                0791 499      : Write double width lines
                                0791 500      :
                                71 33 3B 30 5B 1B 0791 501      .ASCII <ESC>/[0;3q/      ; LED 3
                                6D 35 3B 30 5B 1B 0797 502      .ASCII <ESC>/[0;5m/      ; Blink
                                42 2B 1B 079D 503      .ASCII <ESC>/[B/      ; USASCII
4C 4B 4A 49 48 47 46 45 44 43 42 41 07A0 504      .ASCII 'ABCDEFGHJKLMNOPQRSTUVWXYZ-+/\[]01234567'<ESC>'E'
58 57 56 55 54 53 52 51 50 4F 4E 4D 07AC
33 32 31 30 5D 5B 5C 2F 2B 2D 5A 59 07B8
                                45 1B 37 36 35 34 07C4
                                71 33 3B 31 3B 30 5B 1B 07CA 505      .ASCII <ESC>/[0;1;3q/      ; LED 1 and 3
                                6D 35 3B 31 3B 30 5B 1B 07D2 506      .ASCII <ESC>/[0;1;5m/      ; Bold and blink
6C 6B 6A 69 68 67 66 65 64 63 62 61 07DA 507      .ASCII /abcdefghijklmnopqrstuvwyz_!'"{}<ESC>/E/
78 77 76 75 74 73 72 71 70 6F 6E 6D 07E6
                                45 1B 7D 7B 7E 60 7C 5F 7A 79 07F2
                                71 33 3B 32 3B 30 5B 1B 07FC 508      .ASCII <ESC>/[0;2;3q/      ; LED 2 and 3
                                6D 35 3B 34 3B 30 5B 1B 0804 509      .ASCII <ESC>/[0;4;5m/      ; underscore and blink
                                30 28 1B 080C 510      .ASCII <ESC>/[O/      ; Special graphics and line drawing set
6C 6B 6A 69 68 67 66 65 64 63 62 61 080F 511      .ASCII /abcdefghijklmnopqrstuvwyz_!'"{}<ESC>/E/
78 77 76 75 74 73 72 71 70 6F 6E 6D 081B
                                45 1B 7D 7B 7E 60 7C 5F 7A 79 0827
                                0831 512      :
                                0831 513      : Write normal mode graphics line
                                0831 514      :
                                71 33 3B 32 3B 31 3B 30 5B 1B 0831 515      .ASCII <ESC>/[0;1;2;3q/      ; LED 1, 2, and 3

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6D	35	3B	34	3B	31	3B	30	5B	1B	083B	516	.ASCII	<ESC>/[O;1;4;5m/ ; Bold, underscore, and blink	
6A	69	68	67	66	65	64	63	62	61	0845	517	.ASCII	/abcdefghij/	
				71	34	3B	30	5B	1B	084F	518	.ASCII	<ESC>/[O;4q/ ; LED 4	
				6D	37	3B	30	5B	1B	0855	519	.ASCII	<ESC>/[O;7m/ ; Reverse video	
74	73	72	71	70	6F	6E	6D	6C	6B	085B	520	.ASCII	/klmnopqrst/	
			71	34	3B	31	3B	30	5B	1B	0865	521	.ASCII	<ESC>/[O;1;4q/ ; LED 1 and 4
			6D	37	3B	31	3B	30	5B	1B	086D	522	.ASCII	<ESC>/[O;1;7m/ ; Bold and reverse video
7E	60	7C	5F	7A	79	78	77	76	75	0875	523	.ASCII	/uvwxyz ! /	
			71	34	3B	32	3B	30	5B	1B	087F	524	.ASCII	<ESC>/[O;2;4q/ ; LED 2 and 4
			6D	37	3B	34	3B	30	5B	1B	0887	525	.ASCII	<ESC>/[O;4;7m/ ; Underscore and reverse
68	67	66	65	64	63	62	61	7D	7B	088F	526	.ASCII	/()abcdefgh/	
71	34	3B	32	3B	31	3B	30	5B	1B	0899	527	.ASCII	<ESC>/[O;1;2;4q/ ; LED 1, 2, and 4	
6D	37	3B	34	3B	31	3B	30	5B	1B	08A3	528	.ASCII	<ESC>/[O;1;4;7m/ ; Bold, underscore and reverse	
72	71	70	6F	6E	6D	6C	6B	6A	69	08AD	529	.ASCII	/ijklmnopgr/	
			71	34	3B	33	3B	30	5B	1B	08B7	530	.ASCII	<ESC>/[O;3;4q/ ; LED 3 and 4
			6D	37	3B	35	3B	30	5B	1B	08BF	531	.ASCII	<ESC>/[O;5;7m/ ; Blink and reverse
7C	5F	7A	79	78	77	76	75	74	73	08C7	532	.ASCII	/stuvwxyz ! /	
71	34	3B	33	3B	31	3B	30	5B	1B	08D1	533	.ASCII	<ESC>/[O;1;3;4q/ ; LED 1, 3, and 4	
6D	37	3B	35	3B	31	3B	30	5B	1B	08DB	534	.ASCII	<ESC>/[O;1;5;7m/ ; Bold, blink, and reverse	
66	65	64	63	62	61	7D	7B	7E	60	08E5	535	.ASCII	/-{}abcdef/	
71	34	3B	33	3B	32	3B	30	5B	1B	08EF	536	.ASCII	<ESC>/[O;2;3;4q/ ; LED 2, 3, and 4	
6D	37	3B	35	3B	34	3B	30	5B	1B	08F9	537	.ASCII	<ESC>/[O;4;5;7m/ ; Underscore, blink, and reverse	
70	6F	6E	6D	6C	6B	6A	69	68	67	0903	538	.ASCII	/ghijklmnop/	
										090D	539	:		
										090D	540	:	Test cursor control features	
										090D	541	:		
31	3B	30	5B	1B	4B	33	33	3B	37	5B	1B	090D		
26	6D	34	3B	31	3B	30	5B	1B	71	32	3B	0919	.ASCII <ESC>/[7;33H/<ESC>/[O;1;2q/<ESC>/[O;1;4m&*()=::?/	
				3F	3B	3A	3D	29	28	2A	0925			
				3F	41	31	5B	1B	092C	543	.ASCII	<ESC>/[1A?/		
6D	34	3B	30	5B	1B	71	32	3B	30	5B	1B	0931	544 .ASCII <ESC>/[O;2q/<ESC>/[O;4m/<ESC>/[1A^/	
				5E	41	31	5B	1B	093D	545	.ASCII	<ESC>/[1A^/		
				5E	41	31	5B	1B	0942	545	.ASCII	<ESC>/[1D%/		
				25	44	31	5B	1B	0947	546	.ASCII	<ESC>/[1D%/		
				24	44	32	5B	1B	094C	547	.ASCII	<ESC>/[2D\$/		
				23	44	32	5B	1B	0951	548	.ASCII	<ESC>/[2D\$/		
				40	44	32	5B	1B	0956	549	.ASCII	<ESC>/[2D@/		
				21	44	32	5B	1B	095B	550	.ASCII	<ESC>/[2D!/		
				39	44	32	5B	1B	0960	551	.ASCII	<ESC>/[2D9/		
				38	44	32	5B	1B	0965	552	.ASCII	<ESC>/[2D8/		
71	32	3B	31	3B	30	5B	1B	44	31	5B	1B	096A	553 .ASCII <ESC>/[1D/<ESC>/[1B8/	
42	31	5B	1B	6D	34	3B	31	3B	30	5B	1B	0973	554 .ASCII <ESC>/[1D/<ESC>/[O;1;2q/<ESC>/[O;1;4m/<ESC>/[1B&*()=::;/	
				3B	3A	3D	29	28	2A	26	098B			
5B	1B	71	32	3B	30	5B	1B	44	31	5B	1B	0992	555 .ASCII <ESC>/[1D/<ESC>/[O;2q/<ESC>/[O;4m/<ESC>/[1A%/	
			25	41	31	5B	1B	6D	34	3B	30	099E		
				24	44	32	5B	1B	09A7	556	.ASCII	<ESC>/[2D\$/		
				23	44	32	5B	1B	09AC	557	.ASCII	<ESC>/[2D\$/		
				40	44	32	5B	1B	09B1	558	.ASCII	<ESC>/[2D@/		
				21	44	32	5B	1B	09B6	559	.ASCII	<ESC>/[2D!/		
				39	44	32	5B	1B	09BB	560	.ASCII	<ESC>/[2D9/		
3B	30	5B	1B	42	35	5B	1B	43	36	5B	1B	09C0	561 .ASCII <ESC>/[6C/<ESC>/[5B/<ESC>/[O;2;3q/<ESC>/[O;4;5m?/	
6D	35	3B	34	3B	30	5B	1B	71	33	3B	32	09CC		
										3F	09D8			
						3B	44	31	5B	1B	09D9	562	.ASCII <ESC>/[1D:/	
						3A	44	32	5B	1B	09DE	563	.ASCII <ESC>/[2D:/	
						3D	44	32	5B	1B	09E3	564	.ASCII <ESC>/[2D=/	


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29 44 32 5B 1B 09E8 565 .ASCII <ESC>/[2D)/
28 44 32 5B 1B 09ED 566 .ASCII <ESC>/[2D(/
2A 44 32 5B 1B 09F2 567 .ASCII <ESC>/[2D*/
26 44 32 5B 1B 09F7 568 .ASCII <ESC>/[2D&/
3B 30 5B 1B 41 31 5B 1B 44 31 5B 1B 09FC 569 .ASCII <ESC>/[1D/<ESC>/[1A/<ESC>/[0;1;3q/<ESC>/[0;1;5m89!@#%$%^/
6D 35 3B 31 3B 30 5B 1B 71 33 3B 31 0A08
5E 25 24 23 40 21 39 38 0A14
71 30 5B 1B 0A1C 570 .ASCII <ESC>/[0g/ ; No LEDs
72 34 32 3B 32 31 5B 1B 0A20 571 .ASCII <ESC>/[12;24r/ ; Set scroll to 12 thru 24
48 31 3B 32 31 5B 1B 0A28 572 .ASCII <ESC>/[12;1H/ ; Go to scroll area
6D 30 5B 1B 0A2F 573 .ASCII <ESC>/[0m/ ; Reset attributes
42 28 1B 0A33 574 .ASCII <ESC>/(B/ ; Reset to USASCII
42 1B 0A36 575 .ASCII <ESC>/B/ ; Restore cursor and attributes
000003E1 0A38 576 VT100L = .-VT100_OUT_DATA
0A38 577
0A38 578 VT100_ORIG_SCROLL: ; Return to full screen scroll
3B 33 32 5B 1B 72 34 32 3B 30 5B 1B 0A38 579 .ASCII <ESC>/[0;24r/<ESC>/[23;1H/
48 31 0A44
0000000E 0A46 580 VOSL = .-VT100_ORIG_SCROLL
0A46 581
0A46 582 ;
0A46 583 ; Terminal specific data for the VT52 terminal
0A46 584 ;
0A46 585 VT52_DATA:
00000168' 0A46 586 .LONG VT52L
00000A53' 0A4A 587 .ADDRESS VT52_OUT_DATA
0A4E 588 VT52_PREAMBLE:
04' 0A4E 589 .BYTE VT52_PRE_LEN
48 1B 0A4F 590 .ASCII <ESC>/H/ ; Home
4A 1B 0A51 591 .ASCII <ESC>/J/ ; Clear
00000004 0A53 592 VT52_PRE_LEN = .-VT52_PREAMBLE-1
0A53 593 VT52_OUT_DATA:
46 1B 0A53 594 .ASCII <ESC>/F/ ; Enter graphics mode
74 6B 6A 69 68 67 66 65 64 63 62 61 0A55 595 .ASCII /abcdefghijklmnopqrstuvwxyz{!}~/
7E 7D 7C 7B 7A 79 78 77 76 75 0A61
7D 44 1B 44 1B 7E 35 22 59 1B 0A6B 596 .ASCII <ESC>/Y/<34><53>/~/<ESC>/D/<ESC>/D)/
44 1B 7B 44 1B 44 1B 7C 44 1B 44 1B 0A75 597 .ASCII <ESC>/D/<ESC>/D!/<ESC>/D/<ESC>/D{/<ESC>/D/<ESC>/Dz/
7A 44 1B 0A81
44 1B 78 44 1B 44 1B 79 44 1B 44 1B 0A84 598 .ASCII <ESC>/D/<ESC>/Dy/<ESC>/D/<ESC>/Dx/<ESC>/D/<ESC>/Dw/
77 44 1B 0A90
44 1B 75 44 1B 44 1B 76 44 1B 44 1B 0A93 599 .ASCII <ESC>/D/<ESC>/Dv/<ESC>/D/<ESC>/Du/<ESC>/D/<ESC>/Dt/
74 44 1B 0A9F
44 1B 6A 44 1B 44 1B 6B 44 1B 44 1B 0AA2 600 .ASCII <ESC>/D/<ESC>/Dk/<ESC>/D/<ESC>/Dj/<ESC>/D/<ESC>/Di/
69 44 1B 0AAE
44 1B 67 44 1B 44 1B 68 44 1B 44 1B 0AB1 601 .ASCII <ESC>/D/<ESC>/Dh/<ESC>/D/<ESC>/Dg/<ESC>/D/<ESC>/Df/
66 44 1B 0ABD
44 1B 64 44 1B 44 1B 65 44 1B 44 1B 0AC0 602 .ASCII <ESC>/D/<ESC>/De/<ESC>/D/<ESC>/Dd/<ESC>/D/<ESC>/Dc/
63 44 1B 0ACC
59 1B 61 44 1B 44 1B 62 44 1B 44 1B 0ACF 603 .ASCII <ESC>/D/<ESC>/Db/<ESC>/D/<ESC>/Da/<ESC>/Y/<33><54>
36 21 0ADB
1B 44 1B 6D 41 1B 73 42 1B 44 1B 6C 0ADD 604 .ASCII /L/<ESC>/D/<ESC>/Bs/<ESC>/Am/<ESC>/D/<ESC>/Br/
72 42 0AE9
1B 6F 41 1B 71 44 1B 42 1B 6E 41 1B 0AEB 605 .ASCII <ESC>/An/<ESC>/B/<ESC>/Dq/<ESC>/Ao/<ESC>/B/<ESC>/Dp/
70 44 1B 42 0AF7
1B 71 41 1B 6F 44 1B 42 1B 70 41 1B 0AFB 606 .ASCII <ESC>/Ap/<ESC>/B/<ESC>/Do/<ESC>/Aq/<ESC>/B/<ESC>/Dn/
6E 44 1B 42 0B07
1B 73 41 1B 6D 44 1B 42 1B 72 41 1B 0B0B 607 .ASCII <ESC>/Ar/<ESC>/B/<ESC>/Dm/<ESC>/As/<ESC>/B/<ESC>/Dl/

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6C 44 1B 42 0B17
1B 71 41 1B 6D 44 1B 42 1B 72 41 1B 0B1B 608 .ASCII <ESC>/Ar/<ESC>/B/<ESC>/Dm/<ESC>/Aq/<ESC>/B/<ESC>/Dn/
6E 44 1B 42 0B27
1B 6F 41 1B 6F 44 1B 42 1B 70 41 1B 0B2B 609 .ASCII <ESC>/Ap/<ESC>/B/<ESC>/Do/<ESC>/Ao/<ESC>/B/<ESC>/Dp/
70 44 1B 42 0B37
1B 6D 41 1B 71 44 1B 42 1B 6E 41 1B 0B3B 610 .ASCII <ESC>/An/<ESC>/B/<ESC>/Dq/<ESC>/Am/<ESC>/B/<ESC>/Dr/
72 44 1B 42 0B47
62 61 41 1B 73 44 1B 42 1B 6C 41 1B 0B4B 611 .ASCII <ESC>/Al/<ESC>/B/<ESC>/Ds/<ESC>/Aabcdefghijklmnopqrstuvwxyz(!)~/
76 75 74 6B 6A 69 68 67 66 65 64 63 0B57
7E 7D 7C 7B 7A 79 78 77 0B63
68 67 66 65 64 63 62 61 45 22 59 1B 0B6B 612 .ASCII <FSC>/Y/<34><69>/abcdefghijklmnopqrstuvwxyz(!)~/<ESC>/Aabcdefghijklmnopqrstuvwxyz(!)
7C 7B 7A 79 78 77 76 75 74 6B 6A 69 0B77
68 67 66 65 64 63 62 61 41 1B 7E 7D 0B83
7C 7B 7A 79 78 77 76 75 74 6B 6A 69 0B8F
7E 7D 0B9B
68 67 66 65 64 63 62 61 5B 22 59 1B 0B9D 613 .ASCII <ESC>/Y/<34><91>/abcdefghijklmnopqrstuvwxyz(!)~/
7C 7B 7A 79 78 77 76 75 74 6B 6A 69 0BA9
7E 7D 0BB5
0A 0D 47 1B 0BB7 614 .ASCII <ESC>/G/<CR><LF> ; Exit graphics mode
00000168 0BBB 615 VT52L = .-VT52_OUT_DATA
0BBB 616 ;
0BBB 617 ; Terminal specific data for the VT05 terminal
0BBB 618 ;
0BBB 619 VT05_PREAMBLE:
05' 0BBB 620 .BYTE VT05_PRE_LEN
1F 00 00 00 1D 0BBC 621 .BYTE 29,0,0,0,31
00000005 0BC1 622 VT05_PRE_LEN = .-VT05_PREAMBLE-1
0BC1 623
0BC1 624 VT05_DATA:
00000000 0BC1 625 .LONG 0 ; There is no VT05 terminal specific data
00000BC1' 0BC5 626 .ADDRESS VT05_DATA
0BC9 627 ;
0BC9 628 ; Terminal specific data for the LA120 terminal
0BC9 629 ;
00000000 0BC9 630 LA120_DATA:
00000BC9' 0BCD 631 .LONG 0 ; There is no LA120 terminal specific data
0BCD 632 .ADDRESS LA120_DATA
0BD1 633 ;
0BD1 634 ; Terminal specific data for the LA36 terminal
0BD1 635 ;
00000000 0BD1 636 LA36_DATA:
00000BD1' 0BD5 637 .LONG 0 ; There is no LA36 terminal specific data
0BD9 638 .ADDRESS LA36_DATA
0BD9 639 ;
0BD9 640 ; Terminal specific data for the LA180 terminal
0BD9 641 ;
00000000 0BD9 642 LA180_DATA:
00000BD9' 0BDD 643 .LONG 0 ; There is no LA180 terminal specific data
0BDD 644 .ADDRESS LA180_DATA
0BE1 645 ;
0BE1 646 ; Terminal specific data for the LA11 terminal
0BE1 647 ;
00000000 0BE1 648 LA11_DATA:
00000BE1' 0BE5 649 .LONG 0 ; There is no LA11 terminal specific data
0BE9 650 .ADDRESS LA11_DATA
0BE9 651 ;
0BE9 652 ; Terminal specific data for the an UNKNOWN terminal

```

```
00 OBE9 653 ;
OBE9 654 UNKN_PREAMBLE:
OBE9 655 .BYTE 0
OBEA 656
OBEA 657 UNKN_DATA:
00000000 OBEA 658 .LONG 0 ; There is no UNKNOWN terminal
00000BC9' OBE9 659 .ADDRESS LA120_DATA ; specific data
OBF2 660 ;
OBF2 661 ; Terminal specific data for the LP11 terminal
OBF2 662 ;
OBF2 663 LP11_DATA:
00000000 OBF2 664 .LONG 0 ; There is no LP11 terminal specific data
00000BF2' OBF6 665 .ADDRESS LP11_DATA
OBF6 666 ;
OBF6 667 ; Terminal specific data for the LAX terminal
OBF6 668 ;
OBF6 669 LAX_DATA:
00000000 OBF6 670 .LONG 0 ; There is no LAX terminal specific data
00000BFA' OBF6 671 .ADDRESS LAX_DATA
OC02 672 FORM_FEED:
01 OC02 673 .BYTE 1 ; form feed ASCII string
OC OC03 674 .BYTE FF
OC04 675
OC04 676 CRLF: ; Carriage return and Line feed
OA OD OC04 677 .BYTE CR,LF
OC06 678 LFCR: ; Line feed and Carriage return
OD OA OC06 679 .BYTE LF,CR
```

```

0C08 681 .SBTTL Read/Write Data
00000000 682 .PSECT RWDATA,WRT,NOEXE,PAGE
0000 683
0000 684 TTCHAN: ; Channel associated with ctrl. term.
0000 685 .WORD 0
0002 686
0002 687 FLAG: ; Miscellaneous flag bits
0000 688 .WORD 0 ; (See Equated Symbols for definitions)
0004 689
0004 690 FAO_BUF: ; FAO output string descriptor
0000 0084 0004 691 .WORD TEXT_BUFFER,0
00000014 0008 692 .ADDRESS BUFFER
000C 693
000C 694 BUFFER_PTR: ; Fake .ASCID buffer for misc. strings
0000 0084 000C 695 .WORD TEXT_BUFFER,0 ; A word for length, a word for desc.
00000014 0010 696 .ADDRESS BUFFER
0014 697
0014 698 BUFFER: ; FAO output and other misc. buffer
00000098 0014 699 .BLKB TEXT_BUFFER
0098 700
0098 701 DEV_DSC: ; Device name descriptor
0000 000A 0098 702 .WORD MAX_DEV_DESIG,0
000000B7 009C 703 .ADDRESS DEV_NAME
00A0 704
00A0 705 PROCESS_NAME: ; Process name
53 59 54 54 000000A8 010E0000 00AC 706 .ASCID /TTYS/
0000000B 00AC 707 PROCESS_NAME_FREE = MAX_PROC_NAME-<.-8-PROCESS_NAME>
000000B7 00AC 708 .BLKB PROCESS_NAME_FREE
00B7 709
00B7 710 DEV_NAME: ; Device name buffer
000000C6 00B7 711 .BLKB MAX_DEV_DESIG+MAX_UNIT_DESIG
0000000F 00C6 712 NAME_LEN = %-DEV_NAME
00C6 713
00C6 714 DATA_DSC: ; Descriptor for STR$UPCASE
00000101 00C6 715 .LONG WRITE_SIZE
00000000 00CA 716 .ADDRESS 0
00CE 717 DIB: ; Device Information Block
0000 0074 00CE 718 .WORD DIB$K_LENGTH,0
000000D6 00D2 719 .ADDRESS DIBBUF
00D6 720 DIBBUF: .BLKB DIB$K_LENGTH
0000014A 00D6 721
014A 722
014A 723 DIB_SEC: ; Device Information Block (secondary)
0000 0074 014A 724 .WORD DIB$K_LENGTH,0
00000152 014E 725 .ADDRESS DIBBUF_SEC
0152 726 DIBBUF_SEC: .BLKB DIB$K_LENGTH
000001C6 0152 727
01C6 728
01C6 729 ERROR_COUNT: ; Cumulative error count at runtime
00000000 01C6 730 .LONG 0
01CA 731
01CA 732 STATUS: ; Status value on program exit
00000000 01CA 733 .LONG 0
01CE 734
01CE 735 QUAD_STATUS: ; IO status block for misc sys. svcs.
00000000 00000000 01CE 736 .QUAD 0
01D6 737

```

```

00000000 00000000 01D6 738 INADDRESS: ; $CRMPSC address storage
01D6 739 .LONG 0,0
00000000 00000000 01DE 740 OUTADDRESS:
01DE 741 .LONG 0,0
01E6 742
01E6 743 UNIT_NUMBER: ; Current dev unit number
0000 01E6 744 .WORD 0
01E8 745
01E8 746 DEVNAM_LEN: ; Current device name length
0000 01E8 747 .WORD 0
01EA 748
01EA 749 RANDOM1: ; Random word #1
AAAAAAA 01EA 750 .LONG ^XAAAAAAA
01EE 751
01EE 752 RANDOM2: ; Random word #2
A72EA72E 01EE 753 .LONG ^XA72EA72E
01F2 754
01F2 755 ITERATION: ; # of times all tests were executed
00000000 01F2 756 .LONG 0
01F6 757
01F6 758 MSG_BLOCK: ; Auxiliary $GETMSG info
000001FA 01F6 759 .BLKB 4
01FA 760
01FA 761 PASS: ; Pass count
00000000 01FA 762 .LONG 0
01FE 763
01FE 764 EXIT_DESC: ; Exit handler descriptor
00000000 01FE 765 .LONG 0
0000E15' 0202 766 .ADDRESS EXIT_HANDLER
00000001 0206 767 .LONG 1
000001CA' 020A 768 .ADDRESS STATUS
020E 769
020E 770 ARG_COUNT: ; Argument counter used by ERROR_EXIT
00000000 020E 771 .LONG 0
0212 772
0212 773 RMSRUNDWN_BUF: ; Return buf for RMSRUNDWN close failures
0000 0016 0212 774 .WORD 22,0
0000021A' 0216 775 .ADDRESS RUNDWN_BUF
021A 776
021A 777 RUNDWN_BUF:
00000230 021A 778 .BLKB 22
0230 779
0230 780 ;
0230 781 ; Head of self-relative UETP unit block queue.
0230 782 ;
0230 783 .ALIGN QUAD
0230 784
0230 785 UNIT_LIST: ; Head of unit block circular list
00000000 00000000 0230 786 .QUAD 0
0238 787
0238 788 NEW_NODE: ; Newly aquired node address
00000000 00000000 0238 789 .QUAD 0
0240 790
0240 791 HEAD_BUF: ; Buffer descriptor for the header message
00000084 0240 792 .LONG 132
00000000' 0244 793 .ADDRESS 0
0248 794 HEAD_LENGTH: ; Length of header record

```

UETTTYS00
V04-000

VAX/VMS UETP DEVICE TEST FOR TERMINALS^{E 4}
Read/Write Data

16-SEP-1984 01:36:06 VAX/VMS Macro V04-00
5-SEP-1984 04:26:40 [UETP.SRC]UETTTYS00.MAR;1

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UE
VO

00000000	0248	795	.LONG	0	
	024C	796	SPARE:		; Spot used to store byte while rotating dat
00	024C	797	.BYTE	0	
	024D	798	CUR_UNTBLK:		; Memory storage for the current unit block
00000000	024D	799	.LONG	0	
	0251	800			
	0251	801	XTERM_CHAR:		; Extended terminal characteristics
00000000	0251	802	.LONG		

```

0255 804 .SBTTL RMS-32 Data Structures
0255 805 .ALIGN LONG
0258 806
0258 807 SYSIN_FAB: ; Allocate FAB for SYSS$INPUT
0258 808 $FAB-
0258 809 FNM = <SYSS$INPUT>
02A8 810
02A8 811 SYSIN_RAB: ; Allocate RAB for SYSS$INPUT
02A8 812 $RAB-
02A8 813 FAB = SYSIN_FAB,-
02A8 814 ROP = PMT,-
02A8 815 PBF = PROMPT,-
02A8 816 PSZ = PMTSIZ,-
02A8 817 UBF = DEV_NAME,-
02A8 818 USZ = NAME_LEN
02EC 819
02EC 820 INI_FAB: ; Allocate FAB for UETINIDDEV
02EC 821 $FAB-
02EC 822 FAC = <GET,PUT,UPD>,-
02EC 823 RAT = CR,-
02EC 824 SHR = <GET,PUT,UPI>,-
02EC 825 FNM = <UETINIDDEV.DAT>
033C 826
033C 827 INI_RAB: ; Allocate RAB for UETINIDDEV
033C 828 $RAB-
033C 829 FAB = INI_FAB,-
033C 830 RBF = BUFFER,-
033C 831 UBF = BUFFER,-
033C 832 USZ = REC_SIZE
0380 833
00000386 0380 834 DD2_RFA: ; RFA storage for INI_RAB
0380 835 .BLKB 6
0386 836
0386 837 .ALIGN LONG
0388 838 SUP_FAB: ; Allocate FAB for UETSUPDEV
0388 839 $FAB-
0388 840 FAC = GET,-
0388 841 SHR = <UP!,GET>,-
0388 842 RAT = CR,-
0388 843 FOP = UFO,-
0388 844 FNM = <UETSUPDEV.DAT>
03D8 845
03D8 846 :
03D8 847 : Dummy FAB and RAB to copy to the UETP unit blocks
03D8 848 : The following FAB and RAB must be contiguous and in this order!
03D8 849 :
03D8 850
03D8 851 DUMMY_FAB:
03D8 852 $FAB RAT = <PRN>,-
03D8 853 RFM = <VFC>,-
03D8 854 FAC = <BRO,PUT>
0428 855
0428 856 DUMMY_RAB:
0428 857 $RAB RSZ = WRITE_SIZE,-
0428 858 ROP = <ASY,BIO>,-
0428 859 RHB = 0

```

```

046C 861 .SBTTL Main Program
00000000 862 .PSECT TTYS,EXE,NOWRT,PAGE
0000 863
0000 864 .DEFAULT DISPLACEMENT,WORD
0000 865
0000 866 ;+
0000 867 :+
0000 868 :+
0000 869 :+
0000 870 :+
0000 871 :-
0000 872
0000 873 .ENTRY UETTTYS00,^M<> ; Entry mask
0002 874
6D 0COF'CF DE 0002 875 MOVAL SSERROR,(FP) ; Declare exception handler
0007 876 $SETSFM_S ENBFLG = #1 ; Enable system service failure mode
0010 877 $DCLEXH_S DESBLK = EXIT_DESC ; Declare an exit handler
001B 878
001B 879 $OPEN FAB = SYSIN FAB,- ; Open SYSS$INPUT
001B 880 ERR = RMS_ERROR
002A 881 $CONNECT RAB = SYSIN RAB,- ; Connect RAB to SYSS$INPUT
002A 882 ERR = RMS_ERROR
02 E1 0039 883 BBC S^#DEVSV TRM,- ; BR if SYSS$INPUT is NOT a terminal
3F 0298'CF 003B 884 SYSIN FAB+FAB$! DEV,10$
003F 885 $GETDVI_S DEVNAM = SYSS$INPUT,- ; Get the name of the device...
003F 886 EFN = #SS SYNCH EFN,- ; ...from which the test is run.
003F 887 ITMLST = INPOT ITM$T,- ; We have a special need here...
003F 888 IOSB = QUAD_STATUS ; ...get it now & save it in BUFFER
5C 01CE'CF E9 005B 889 BLBC QUAD STATUS,20$ ; Abort if we can't get it
0060 890 $STRNLOG_S LOGNAM = CONTROLLER,- ; Allow terminal user to specify...
0060 891 RSLLEN = DEVNAM_LEN,- ; ...a logical name...
0060 892 RSLBUF = DEV$DSC ; ...for the controller to test
01 50 D1 0079 893 CMPL RO,#SS$ NORMAL ; Was a controller specified?
56 13 007C 894 BEQL PROC_CONT_NAME ; BR if it was - go process it
007E 895 10$:
007E 896 $GET RAB = SYSIN RAB,- ; Read SYSS$INPUT...
007E 897 ERR = RMS_ERROR ; ...for the controller name
02CA'CF B0 008D 898 MOVW SYSIN RAB+RAB$W_RSZ,- ; Save the name length
01E8'CF 0091 899 DEVNAM_LEN
01CE'CF 3E 12 0094 900 BNEQ PROC_CONT_NAME ; BR if we got something
01CE'CF 14 D0 0096 901 MOVL #SS$BADPARAM,QUAD_STATUS ; Set up default if we BR below
1B 0298'CF 02 E1 0098 902 BBC S^#DEVSV TRM,- ; BR if SYSS$INPUT is NOT a terminal
0002'CF 08 88 00A1 904 BISB2 #SELF_TESTM_FLAG ; Set self test mode
000C'CF 5F 8F 3B 00A6 905 SKPC #^A/7,BUFFER_PTR,- ; Strip off leading underscores
0014'CF 00AC 906 BUFFER
01E8'CF 50 B0 00AF 907 MOVW RO,DEVNAM_LEN ; Save the device name length
00B7'CF 61 50 28 00B4 908 MOV$3 RO,(R1),DEV_NAME ; Use physical terminal name
18 11 00BA 909 BRB PROC_CONT_NAME ; Continue with testing
01CA'CF 01CE'CF B0 00BC 910 20$:
00D4'CF DF 00C3 912 MOVW QUAD_STATUS,STATUS ; Save the exit status
01 DD 00C7 913 PUSHAL NO_CTRLNAME ; Prepare for message...
00741132 8F DD 00C9 914 PUSHL #1 ; ...arg count
03 DD 00CF 915 PUSHL #UETP$TEXT!STSSK_ERROR ; ...signal name
OCC1 31 00D1 916 PUSHL #3 ; ...arg count
00D4 917 BRW ERROR_EXIT ; ...go tell of bad setup

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0098'CF 01E8'CF 3C 00D4 918 PROC_CONT NAME:
0098'CF 0098'CF DF 00DB 919 MOVZWL DEVNAM_LEN,DEVVSC ; Set the device name length
0098'CF DF 00DF 920 PUSHAL DEVVSC ; Make sure...
OCJ00000'GF 02 FB 00E3 921 PUSHAL DEVVSC ; ...that the specified controller...
52 0098'CF 01 C1 00EA 922 CALLS #2,G^STR$UPCASE ; ...is all uppercase for later comparison
00A0'CF 52 A0 00F0 923 ADDL3 #1,DEVVSC,R2 ; Estimate the eventual...
50 00AC'CF 00F6 924 ADDW2 R2,PROCESS_NAME ; ...process name length (incl. "'')
00AC'CF 0B C3 00FA 925 MOVAL PROCESS_NAME+8- ; Locate first available byte...
51 52 00FC 926 +MAX PROC_NAME- ; ...in process name handle...
00AC'CF 08 15 00FE 927 -PROCESS_NAME_FREE,R0 ; ...for device name
50 51 C2 0100 928 SUBL3 #PROCESS_NAME_FREE,- ; Will the device name fit...
00A0'CF 0F B0 0103 929 R2,R1 ; ...in the remaining space?
80 5F 8F 90 0108 930 BLEQ 10$ ; BR if it will
60 00B7'CF 0098'CF 28 010C 931 SUBL2 R1,R0 ; Overwrite handle otherwise...
0098'CF 7E D4 0114 932 MOVW #MAX_PROC_NAME,PROCESS_NAME ; ...and define the maximum length
000F'CF DF 0116 933 10$:
00741039 8F DD 011A 934 MOVB #^A/ /,(R0)+ ; Separate handle from device name
00000000'GF 04 FB 011C 935 MOVCL3 DEVVSC,DEV_NAME,(R0) ; Concatenate handle with device name
0002'CF 10 A8 0122 936 CLRL -(SP) ; Set the time stamp flag
0002'CF 02 DD 011A 937 PUSHAL TEST_NAME ; Set the test name
0002'CF 08 DD 011C 938 PUSHL #2 ; Push the argument count
0002'CF 10 FB 0122 939 PUSHL #UETP$ BEGIN!ST$K_SUCCESS ; Set the message code
0002'CF 02 A8 0129 940 CALLS #4,G^LIB$SIGNAL ; Print the startup message
0002'CF 08 A8 012E 941 BISW2 #BEGIN MSGM,FLAG ; Set flag so we don't print it again
0002'CF 10 A8 012E 942 $SETPRN_S PRCNAM = PROCESS_NAME ; Set the process name to UETTTYS00_x
0002'CF 02 E1 0139 943 BBC S^#DEV$V TRM,- ; BR if SY$INPUT is NOT a terminal
79 0298'CF 0139 944 SYSIN FAB+FAB$L DEV,20$
013B 945 $ASSIGN_S DEVNAM = BUFFER_PTR,- ; Set up for CTRL/C ASTs if we are
013F 946 CHAN = TTCHAN
013F 947 $QIOW_S CHAN = TTCHAN,- ; Enable CTRL/C AST's...
0150 948 FUNC = #IO$ SETMODE!IO$M_CTRLCAST,-
0150 949 P1 = CCASTHAND
00A0'CF DF 0171 950 PUSHAL PROCESS_NAME ; ...and tell the user...
00A0'CF 01 DD 0175 951 PUSHL #1 ; ...how to abort gracefully...
0074832B 8F DD 0177 952 PUSHL #UETP$ ABORT!ST$K_SUCCESS ; ...how to abort gracefully...
00000000'GF 03 FB 017D 953 CALLS #3,G^LIB$SIGNAL ; Skip this if not self test
2E 0002'CF 03 E1 0184 954 BBC #SELF TESTV,FLAG,20$
018A 955 $GETDEV_S DEVNAM = DEVVSC,-
018A 956 PRIBUF = DIB ; Get the device characteristics
05CF 30 019F 957 BSBW GET_NODE ; Get a unit block and init it
01A2 958
01A2 959 :: Set the device dependent parameters
01A2 960
01A2 961
00D6'CF DF 01A2 962 PUSHAL DIBBUF ; Push the device characteristics buffer
7E 0230'CF 00000230'8F C1 01A6 963 ADDL3 #UNIT_LIST,UNIT_LIST,-(SP) ; Push the unit block address
07D4'CF 02 FB 01B0 964 CALLS #2,SET_DEVDEP ; Set the device characteristics
0265 31 01B5 965 BRW ALL_SET ; Skip useless checking
01B8 966 20$:

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01B8 968 :
01B8 969 : From UETINIDEV.DAT and UETSUPDEV.DAT, get information which gives controller
01B8 970 : and unit configuration and lets us know if the setup to run this test was
01B8 971 : done correctly.
01B8 972 :
01B8 973 $OPEN FAB = INI_FAB,- ; Open file 'UETINIDEV.DAT'
01B8 974 ERR = RMS_ERROR
01C7 975 *CONNECT RAB = INI_RAB,- ; Connect the RAB and FAB
01C7 976 ERR = RMS_ERROR
01D6 977 $MGBLSC_S INADR = INADDRESS,- ; Connect to UETSUPDEV global section
01D6 978 RETADR = OUTADDRESS,-
01D6 979 GSDNAM = SUPDEV_GBLSEC,-
01D6 980 FLAGS = #SECSM_EXPREG
00000978 8F 50 D1 01F5 981 CMPL RO,#SS$_NOSUCHSEC ; Was the section already there?
37 12 01FC 982 BNEQ 30$ ; BR if it was...
01FE 983 $OPEN FAB = SUP_FAB,- ; ...else open 'UETSUPDEV.DAT'
01FE 984 ERR = RMS_ERROR
C20D 985 $CRMPSC_S CHAN = SUP_FAB+FAB$$_STV,- ; Create the global section
020D 986 INADR = INADDRESS,-
020D 987 RETADR = OUTADDRESS,-
020D 988 GSDNAM = SUPDEV_GBLSEC,-
020D 989 FLAGS = #SECSM_EXPREG!SECSM_GBL
56 01E2'CF 01DE'CF C3 0235 990 30$:
0235 991 SUBL3 OUTADDRESS,OUTADDRESS+4,R6 ; Compute global section length
023D 992
023D 993 FIND_IT:
023D 994 $GET RAB = INI_RAB,- ; Get the first record
023D 995 ERR = RMS_ERROR
02BF'CF DF 024C 996 PUSHAL CONT_DESC ; Make sure...
02BF'CF DF 0250 997 PUSHAL CONT_DESC ; ...that the controller name...
00000000'GF 02 FB 0254 998 CALLS #2,G$STR$UPCASE ; ...is all uppercase letters
0014'CF 44 8F 91 025B 999 CMPB #^A/D/,BUFFER ; Is this a DDB?
27 13 0261 1000 BEQL 10$ ; Go on if not
0014'CF 45 8F 91 0263 1001 CMPB #^A/E/,BUFFER ; Is this the end of the file?
D2 12 0269 1002 BNEQ FIND_IT ; Continue on if not
0098'CF DF 026B 1003 PUSHAL DEV$DC ; Push device not supported message
00A0'CF DF 026F 1004 PUSHAL PROCESS_NAME ; Parameters on the stack
00748333 8F DD 0273 1005 PUSHL #2
02 02 0275 1006 PUSHL #UETP$_DENOSU
00 00 027B 1007 INSV #ST$$_ERROR,- ; Set the severity code...
6E 03 027D 1008 #ST$$_SEVERITY,-
01CA'CF 6E D0 027E 1009 #ST$$_SEVERITY,(SP)
04 DD 0280 1010 MOVL (SP),STATUS ; ...and save it as the exit status
0B0B 31 0285 1011 PUSHL #4
0287 1012 BRW ERROR_EXIT ; Exit in error
028A 1013 10$:
00B7'CF 001A'CF 01E8'CF 29 028A 1014 CMPC DEVNAM_LEN,BUFFER+6,DEV_NAME ; Is this the right controller?
A7 12 0294 1015 BNEQ FIND_IT ; BR if not
0380'CF 034C'CF 06 28 0296 1016 MOV$3 #6,INI_RAB+RAB$_RFA,DDB_RFA ; Save the Record File Address
0018'CF 54 8F 91 029E 1017 CMPB #^A/T/,BUFFER+4 ; Can we test this controller?
2F 13 02A4 1018 BEQL FOUND_IT ; BR if we can...
02A6 1019 $FAO_S CTRSTR = DEAD_CTRLNAME,- ; ...and yell at user if we can't
02A6 1020 OUTLEN = BUFFER_PTR,-
02A6 1021 OUTBUF = FAO_BUF,-
02A6 1022 P1 = #DEV$DC
01CA'CF 14 D0 02BF 1023 MOVL #SS$_BADPARAM,STATUS ; Set return status
000C'CF DF 02C4 1024 PUSHAL BUFFER_PTR ; ...

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01 DD 02C8 1025      PUSHL #1 ; ...
00741132 8F DD 02CA 1026      PUSHL #UETPS_TEXT!STSSK_ERROR ; ...
03 DD 02D0 1027      PUSHL #3 ; ...
OACO 31 02D2 1028      BRW ERROR_EXIT ; We can't test what we can't test
      02D5 1029
      02D5 1030 FOUND_IT:
      02D5 1031 $GET RAB = INI_RAB,- ; Get a record
      02D5 1032      ERR = RMS_ERROR ; Make sure...
02BF'CF DF 02E4 1033      PUSHAL CONT_DESC ; ...that this line...
02BF'CF DF 02E8 1034      PUSHAL CONT_DESC ; ...is all uppercase letters
00000000'GF 02 FB 02EC 1035      CALLS #2,G*STR$UPCASE ; Is this a UCB?
0014'CF 55 8F 91 02F3 1036      CMPB #^A/U/,BUFFER ; BR if it is
      24 13 02F9 1037      BEQL 30$ ; Is this a DCB?
0014'CF 44 8F 91 02FB 1038      CMPB #^A/D/,BUFFER ; BR if yes
      19 13 0301 1039      BEQL 20$ ; Is this the end?
0014'CF 45 8F 91 0303 1040      CMPB #^A/E/,BUFFER ; BR if yes
      11 13 0309 1041      BEQL 20$
      030B 1042 10$:
0161'CF DF 030B 1043      PUSHAL ILLEGAL_REC ; Then this is an error in the record
      01 DD 030F 1044      PUSHL #1 ; Push the error message
00741132 8F DD 0311 1045      PUSHL #UETPS_TEXT!STSSK_ERROR ; Push the signal name
      03 DD 0317 1046      PUSHL #3 ; Push the temp arg count
OA79 31 0319 1047      BRW ERROR_EXIT ; Finish for good
      031C 1048 20$:
00FE 31 031C 1049      BRW ALL_SET ; Found DCB or END
      031F 1050 30$:
0018'CF 54 8F 91 031F 1051      CMPB #^A/T/,BUFFER+4 ; Is the unit testable?
      AE 12 0325 1052      BNEQ FOUND_IT ; BR if not
      01 DD 0327 1053      PUSHL #1 ; Flag to ignore blanks when converting
      02 DD 0329 1054      PUSHL #2 ; Set byte size of results
01E6'CF DF 032B 1055      PUSHAL UNIT_NUMBER ; Set address to receive word
02B7'CF DF 032F 1056      PUSHAL UNIT_DESC ; Push string address
00000000'GF 04 FB 0333 1057      CALLS #4,G*OTSS$CVT_TI_L ; Convert ASCII unit # to decimal
      CE 50 E9 033A 1058      BLBC R0,10$ ; Don't allow bogus unit to pass
      05 20 3B 033D 1059      SKPC #^A/ /, #MAX_UNIT_DESIG,- ; Find out where unit number really is
001A'CF 0340 1060      BUFFER+6
      50 D7 0343 1061      DECL R0 ; Units must all be at least one digit
61 50 30 3B 0345 1062      SKPC #^A/O/,R0,(R1) ; Skip leading zeroes on the unit
      50 D6 0349 1063      INCL R0 ; Compensate for DECL above
0098'CF 01E8'CF 50 A1 034B 1064      ADDW3 R0,DEVNAM_LEN,DEVVSC ; Calculate device unit string length
      52 01E8'CF 3C 0353 1065      MOVZWL DEVNAM_LEN,R2 ; Offset to unit number in DEVVSC
00B7'CF 61 50 28 0358 1066      MOV3 R0,(R1),DEV_NAME(R2) ; Append unit number to device
      035E 1067      $GETDEV_S DEVNAM = DEVVSC,- ; Get the device characteristics
      035E 1068      PRIBUF = DIB,-
      035E 1069      SCDBUF = DIB_SEC
      06 E1 0375 1070      BBC #DEV$V SPL,-
OE 0152'CF 0377 1071      DIB$L DEVCHAR+DIBBUF_SEC,35$ ; Check for the spool bit
      08 BB 037B 1072      PUSHR #^M<R3> ; Save pointer to end of device name
0152'CF 0074 8F 28 037D 1073      MOV3 #DIB$K_LENGTH,DIBBUF_SEC,- ; Use secondary buffer if spooled
      00D6'CF 0384 1074      DIBBUF
      08 BA 0387 1075      POPR #^M<R3> ; Restore pointer to end of device
0098'CF D6 0389 1076 35$:      INCL DEVVSC ; Don't forget the : on the end
      63 3A 90 038D 1077      MOV3 #^A/:/, (R3) ; Stick in the colon
57 00DA'CF 9A 0390 1078      MOVZBL DIBBUF+DIB$B_DEVCLASS,R7 ; Save the device class
58 00DB'CF 9A 0395 1079      MOVZBL DIBBUF+DIB$B_DEVTYPE,R8 ; Save the device type
      039A 1080      $FAO_S CTRSTR = CS1,-
      039A 1081      OUTBUF = FAO_BUF,-

```

```

01DE'DF 56 0014'CF 06 39 039A 1082 P1 = R7,-
1E 13 039A 1083 P2 = R8 ; Make it into a string
03AF 1084 MATCHC #6,BUFFER,R6,@OUTADDRESS ; Find the device class and type
03B8 1085 BEQL 40$ ; BR if it was found
03BA 1086 $FAO_S CTRSTR = CS3,- ; Try for full class support
03BA 1087 OUTBUF = FAO_BUF,-
03BA 1088 P1 = R7
01DE'DF 56 0014'CF 06 39 03CD 1089 MATCHC #6,BUFFER,R6,@OUTADDRESS ; Find the device class only
0D 12 03D6 1090 BNEQ 50$ ; BR if not found
03D8 1091 40$:
03D8 1092 MOVZBL TEST_NAME,R5 ; Get the test name length
03DD 1093 CMPC3 R5,(R3),TEST_NAME+8 ; Are we the right test?
03E3 1094 BEQL 60$ ; BR if yes
03E5 1095 50$:
0098'CF DF 03E5 1C96 PUSHAL DEVDSC ; Push device not supported message
00A0'CF DF 03E9 1097 PUSHAL PROCESS_NAME ; Parameters on the stack
02 DD 03ED 1098 PUSHL #2 ; Push the argument count
00748333 8F DD 03EF 1099 PUSHL #UETP$_DENOSU
02 FO 03F5 1100 INSV #STSSK_ERROR,-
00 03F7 1101 #STSSV_SEVERITY,-
6E 03 03F8 1102 #STSSS_SEVERITY,(SP) ; Set the severity code...
01CA'CF 6E DO 03FA 1103 MOVL (SP),STATUS ; ...and save it as the exit status
04 DD 03FF 1104 PUSHL #4 ; Push the partial arg count...
0991 31 0401 1105 BRW ERROR_EXIT ; ...and split this scene
0040 8F BB 0404 1106 60$:
0366 30 0404 1107 PUSHR #^M<R6> ; Save across GET_NODE & SET_DEVDEP
0408 1108 BSBW GET_NODE ; Get a unit block and init it
0408 1109 ;
0408 1110 ; Set the device dependent parameters
0408 1111 ;
00D6'CF DF 040B 1112 PUSHAL DIBBUF ; Push device information block adr
56 DD 040F 1113 PUSHL R6 ; Push unit block address
07D4'CF 02 FB 0411 1114 CALLS #2,SET_DEVDEP ; Set the device dependent stuff
0040 8F BA 0416 1115 POPR #^M<R6> ; Saved across GET_NODE & SET_DEVDEP
FEB8 31 041A 1116 BRW FOUND_IT ; Do the next UCB

```

```

041D 1118 :
041D 1119 : Arrive here when we have the device configuration. In normal or loop forever
041D 1120 : mode, set a timer far enough in the future such that we can do a reasonable
041D 1121 : set of tests before the timer expires, but if our device gets hung, the
041D 1122 : program won't waste too much time before noticing. Let one-shot mode be a
041D 1123 : special case.
041D 1124 :
041D 1125 ALL_SET:
0230'CF 05 041D 1126 TSTL UNIT_LIST ; Anything to test?
16 12 0421 1127 BNEQ 10$ ; BR if yes
013B'CF 01 DF 0423 1128 PUSHAL NOUNIT_SELECTED ; Else set up the error message...
01 01 DD 0427 1129 PUSHL #1 ; ...argument count...
00741132 8F DD 0429 1130 PUSHL #UETPS_TEXT!STSSK_ERROR ; ...signal name...
03 DD 042F 1131 PUSHL #3 ; ...and parameter count
01CA'CF 14 DO 0431 1132 MOVL #SS$_BADPARAM,STATUS ; Set return status
095C 31 0436 1133 BRW ERROR_EXIT ; ...and give up, complaining
0002'CF 04 AB 0439 1134 10$:
0439 1135 BISW2 #SAFE_TO_UPDM,FLAG ; OK safe to update UETINIDEV.DAT now
043E 1136 20$:
043E 1137 STRNLOG_S LOGNAM = MODE,- ; Get the run mode
043E 1138 RSLLEN = BUFFER_PTR,-
043E 1139 RSLBUF = FAO BUF
0014'CF 20 8A 0457 1140 BICB2 #LC_BITM,BUFFER ; Convert to upper case
0014'CF 4F 8F 91 045C 1141 CMPB #^A70/,BUFFER ; Is this a one shot?
08 12 0462 1142 BNEQ TIME_IT ; BR if not
0002'CF 02 AB 0464 1143 BISW2 #TEST_OVERM,FLAG ; End after one iteration
012D 31 0469 1144 BRW ONE_SHOT ; Skip the SETIMR
046C 1145 TIME_IT:
046C 1146 SSETIMR_S DAYTIM = THREEMIN,- ; Set timer AST to 3 minutes
046C 1147 ASTADR = TIME_OUT,-
046C 1148 EFN = #EFN2

```

```

56 0230'CF 0000230'8F C1 047F 1150 .SBTTL Test the Terminals
                                047F 1151
                                047F 1152 ADDL3 #UNIT_LIST,UNIT_LIST,R6 ; Set the unit block address
                                0489 1153 RESTART:
                                0489 1154 :*****
                                0489 1155 :
                                0489 1156 : Device test specific code goes here.
                                0489 1157 :
                                0489 1158 : At this point the device designation is in location DEV_NAME pointed to by
                                0489 1159 : descriptor DEV_DSC. The device is known to be supported and testable by this test.
                                0489 1160 : To leave successfully BRW SUC_EXIT, to leave in error BRW ERROR_EXIT.
                                0489 1161 :
                                0489 1162 :*****
                                0489 1163
                                01FA'CF D5 0489 1164 TSTL PASS ; Only create and connect on the first pass
                                  73 12 048D 1165 BNEQ 10$ ; else branch
                                  07 E1 048F 1166 BBC #SPL_UNITV,- ; Is this unit spooled?
                                03 0B A6 0491 1167 UETUNT$B_FLAGS(R6),3$
                                  00AE 31 0494 1168 BRW 25$ ; BR if so - try the next one
                                0497 1169 3$:
                                0497 1170 $CREATE FAB = UETUNT$K_FAB(R6) ; Create the channel
                                  4E 50 E8 04A2 1171 BLBS RO,5$ ; Did we succeed? Br if yes...
                                  01C6'CF D6 04A5 1172 INCL ERROR_COUNT ; Bump the error count
                                  50 DD 04A9 1173 PUSHL RO ; Push the error code...
                                  50 DD 04AB 1174 PUSHL RO ; ...and the error code...
                                  14 A6 9A 04AD 1175 MOVZBL UETUNT$T_FILSPC(R6),-
                                  0098'CF 04B0 1176 DEV_DSC ; ...get the name size...
                                  15 A6 DE 04B3 1177 MOVAL UETUNT$T_FILSPC+1(R6),-
                                  009C'CF 04B6 1178 DEV_DSC+4 ; ...get the name address...
                                  0098'CF DF 04B9 1179 PUSHAL DEV_DSC ; ...and push the device designation...
                                  000F'CF DF 04BD 1180 PUSHAL TEST_NAME ; ...and the test name...
                                  000F0003 8F DD 04C1 1181 PUSHL #^XF0003 ; ...and the arg count...
                                  0074819A 8F DD 04C7 1182 PUSHL #UETP$ DEUNUS!ST$K_ERROR ; ...and the signal name...
                                  01C6'CF DD 04CD 1183 PUSHL ERROR_COUNT ; ...and the error count...
                                  00A0'CF DF 04D1 1184 PUSHAL PROCESS_NAME ; ...our own name...
                                  00010002 8F DD 04D5 1185 PUSHL #^X10002 ; ...and the argument count...
                                  00748022 8F DD 04DB 1186 PUSHL #UETP$ ERBOXPROC!ST$K_ERROR ; ...and the signal name...
                                00000000'GF 0A FB 04E1 1187 CALLS #10,G^CIB$SIGNAL ; ...and print the error
                                  02 8A 04E8 1188 BICB2 #UETUNT$M_TESTABLE,-
                                  0B A6 04EA 1189 BICB2 UETUNT$B_FLAGS(R6) ; Clear the testable bit
                                  01 88 04EC 1190 BISB2 #UETUNT$M_DONE,-
                                  0B A6 04EE 1191 BISB2 UETUNT$B_FLAGS(R6) ; Set the done testing bit
                                  0052 31 04F0 1192 BRW 25$ ; Skip testing
                                04F3 1193 5$:
                                  04F3 1194 $CONNECT RAB = UETUNT$K_RAB(R6),-
                                  04F3 1195 ERR = RMS_ERROR ; Connect the RAB
                                  0502 1196 10$:
                                  02 88 0502 1197 BISB2 #UETUNT$M_TESTABLE,-
                                  0B A6 0504 1198 BISB2 UETUNT$B_FLAGS(R6) ; Set the testable bit
                                  58 09EB'CF DE 0506 1199 MOVAL SERVICE_I02,R8 ; Set the success service address
                                  57 0160 C6 DE 050B 1200 MOVAL UETUNT$K_RAB(R6),R7 ; Get the RAB address
                                  02BA C6 DE 0510 1201 MOVAL UETUNT$K_HEADER+2(R6),-
                                  28 A7 0514 1202 RAB$L_RBF(R7) ; Set RAB write address
                                  02B8 C6 B0 0516 1203 MOVW UETUNT$K_HEADER(R6),-
                                  22 A7 051A 1204 RAB$W_RSZ(R7) ; Set RAB write size
                                  0100 8F 22 A7 B1 051C 1205 CMPW RAB$W_RSZ(R7),#HDR_OUT_SIZE ; Check the size
                                  0B 15 0522 1206 BLEQ 20$ ; Br if small enough...

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22 A7 0100 8F B0 0524 1207 MOVW #HDR_OUT_SIZE,RAB$W_RSZ(R7) ; ...else make it small enough
58 09A1'CF DE 052A 1208 MOVAL SERVICE_I01,R8 ; It will take more than one bite
; 052F 1209 ; to output this header
; 052F 1210 20$:
01A5 C6 90 052F 1211 MOVB UETUNT$B_HD_LEN(R6),-
01A4 C6 0533 1212 $WRITE UETUNT$B_LINE(R6) ; Save it's length in lines
; 0536 1213 RAB = (R7),-
; 0536 1214 ERR = RMS ERROR,-
; 0536 1215 SUC = (R8) ; Write the header async
; 0545 1216 25$:
00000230'8F 56 66 C0 0545 1217 ADDL2 (R6),R6 ; Get the next unit block address
; 00000230'8F 56 D1 0548 1218 CMPL R6,#UNIT_LIST ; Is this the end?
; 00000230'8F 03 13 054F 1219 BEQL 30$ ; Br if yes...
; 00000230'8F FF35 31 0551 1220 BRW RESTART ; else do the next one...
; 00000230'8F 03 31 0554 1221 30$:
58 0230'CF 00000230'8F C1 0554 1222 ADDL3 #UNIT_LIST,UNIT_LIST,R11 ; Set the unit block list header
; 00000230'8F 02 93 055E 1223 40$:
; 00000230'8F 0B AB 055E 1224 BITB #UETUNT$M_TESTABLE,-
; 00000230'8F 22 12 0560 1225 UETUNT$B_FLAGS(R11) ; Is this unit testable?
; 00000230'8F 5B 6B C0 0562 1226 BNEQ 50$ ; BR if yes
; 00000230'8F 5B D1 0564 1227 ADDL2 (R11),R11 ; Next unit block
; 00000230'8F EE 12 0567 1228 CMPL R11,#UNIT_LIST ; Are we full circle in the list?
; 00000230'8F 013B'CF DF 056E 1229 BNEQ 40$ ; BR if not
; 00000230'8F 01 DD 0570 1230 PUSHAL NOUNIT_SELECTED ; Else set up the error message...
; 00000230'8F 0741132 8F DD 0574 1231 PUSHL #1 ; ...argument count...
; 00000230'8F 03 DD 0576 1232 PUSHL #UETPS_TEXT!STSSK_ERROR ; ...signal name...
; 00000230'8F 01CA'CF 14 DD 057C 1233 PUSHL #3 ; ...and parameter count
; 00000230'8F 080F 31 057E 1234 MOVL #SS$ BADPARAM,STATUS ; Set return status
; 00000230'8F 0158 31 0583 1235 BRW ERROR_EXIT ; ...and give up, complaining
; 00000230'8F 0158 31 0586 1236 50$:
; 00000230'8F 0158 31 0586 1237 $HIBER S ; Service I/O AST's
; 00000230'8F 0158 31 058D 1238 $SCANTIM_S ; Forget the watchdog timer
; 00000230'8F 0158 31 0596 1239 BRW -SUC_EXIT ; Loop until the test is over
; 00000230'8F 0158 31 0599 1240
; 00000230'8F 0158 31 0599 1241 ONE_SHOT:
56 0230'CF 00000230'8F C1 0599 1242 ADDL3 #UNIT_LIST,UNIT_LIST,R6 ; Get the list address
; 00000230'8F 07 E1 05A3 1243 ONE_SHOT_LOOP:
; 00000230'8F 03 0B A6 05A3 1244 BBC #SPL_UNITV,- ; Is this unit spooled?
; 00000230'8F 00BE 31 05A5 1245 UETUNT$B_FLAGS(R6),5$
; 00000230'8F 024D'CF 56 D0 05A8 1246 BRW NEXT_ITTY ; BR if it is - try the next
; 00000230'8F 024D'CF 56 D0 05A9 1247 5$:
; 00000230'8F 024D'CF 56 D0 05AB 1248 MOVL R6,CUR_UNTBLK ; Save a copy of the adr in perm mem
; 00000230'8F 024D'CF 56 D0 05B0 1249 $SETIMR_S DAYTIM = FIVESEC,-
; 00000230'8F 024D'CF 56 D0 05B0 1250 ASTADR = TIMED_OUT,-
; 00000230'8F 024D'CF 56 D0 05B0 1251 EFN = #EFN2 ; Set a 5 second watch dog timer
; 00000230'8F 024D'CF 56 D0 05C3 1252 MOVZBL UETUNT$T_FILSPC(R6),-
; 00000230'8F 024D'CF 56 D0 05C6 1253 DEVASC ; Get the name size
; 00000230'8F 024D'CF 56 D0 05C9 1254 MOVAL UETUNT$T_FILSPC+1(R6),-
; 00000230'8F 024D'CF 56 D0 05CC 1255 DEVASC+4 ; Get the name address
; 00000230'8F 024D'CF 56 D0 05CF 1256 $SETSFM_S ENBFLG = #0 ; Don't bail out on this error
; 00000230'8F 024D'CF 56 D0 05D8 1257 $ASSIGN_S DEVNAM = DEVASC,-
; 00000230'8F 024D'CF 56 D0 05D8 1258 CHAN = UETUNT$W_CHAN(R6) ; Assign the channel
; 00000230'8F 024D'CF 56 D0 05E8 1259 MOVL R0,STATUS ; Save the status
; 00000230'8F 024D'CF 56 D0 05ED 1260 BLBS STATUS,10$ ; If OK then go on...
; 00000230'8F 024D'CF 56 D0 05F2 1261 BRW ONESHOT_ERROR ; ...else take care of failure.
; 00000230'8F 024D'CF 56 D0 05F5 1262 10$:
01CA'CF 50 D0 05E8 1259 MOVL R0,STATUS ; Save the status
; 01CA'CF 03 01CA'CF E8 05ED 1260 BLBS STATUS,10$ ; If OK then go on...
; 01CA'CF 0083 31 05F2 1261 BRW ONESHOT_ERROR ; ...else take care of failure.
; 01CA'CF 0083 31 05F5 1262 10$:
57 02B8 C6 3C 05F5 1263 MOVZWL UETUNT$K_HEADER(R6),R7 ; Get the header size

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02BA C6 57 0C04'CF 02 39 05FA 1264 MATCHC #2,CRLF,R7 -
                                0603 1265 UETUNT$K_HEADER+2(R6) ; Find the CR/LF. There has to be one
                                02BA C6 DE 0603 1266 MOVAL UETUNT$K_HEADER+2(R6),-
                                59 0607 1267 R8 ; Get the header start address
58 53 58 C3 0608 1268 SUBL3 R8,R3,R8 ; Get the byte count to the start of...
024D'CF 56 D0 060C 1269 MOVL R6,CUR_UNTBLK ; Save the unit block address
                                0611 1270 $QIOW_S FUNC = #IOS$ WRITEVBLK,-
                                0611 1271 CHAN = UETUNT$W_CHAN(R6),-
                                0611 1272 IOSB = UETUNT$K_RAB+RAB$L_STS(R6),-
                                0611 1273 P1 = UETUNT$K_HEADER+2(R6),-
                                0611 1274 P2 = R8 ; Output the header
                                01CA'CF 0B 50 E8 0633 1275 BLBS R0,20$ ; BR if no error...
                                50 D0 0636 1276 MOVL R0,STATUS ; Save the status
                                59 50 D0 063B 1277 MOVL R0,R9
                                0037 31 063E 1278 BRW ONESHOT_ERROR ; ...else take care of failure.
                                0641 1279 20$:
                                0641 1280 $SCANTIM_S ; Forget the watch dog timer
                                064A 1281 $SETSFM_S ENBFLG = #1 ; Turn on SS failure mode
59 0168 C6 3C 0653 1282 MOVZWL UETUNT$K_RAB+RAB$L_STS(R6),R9 ; Get the IOSB value
                                0A 59 E8 0658 1283 BLBS R9,30$ ; If the IOSB has no error we are OK
01CA'CF 59 D0 065B 1284 MOVL R9,STATUS ; Save the error code
                                0015 31 0660 1285 BRW ONESHOT_ERROR ; Report the failure
                                04 11 0663 1286 BRB NEXT_TTY ; ...and look at the rest of the lines
                                0665 1287 30$:
                                02 88 0665 1288 BISB2 #UETUNT$M_TESTABLE,-
                                0B A6 0667 1289 UETUNT$B_FLAGS(R6) ; We have a good line here. Say so.
                                0669 1290 NEXT_TTY:
56 56 66 C0 0669 1291 ADDL2 (R6),R6 ; Get the next unit block
00000230'8F D1 066C 1292 CMPL #UNIT_LIST,R6 ; Are we all done?
                                7C 13 0673 1293 BEQL SUC_EXIT ; Br if yes
                                FF2B 31 0675 1294 BRW ONE_SHOT_LOOP ; Else test the next line
                                0678 1295 ONESHOT_ERROR:
                                0678 1296 $SCANTIM_S ; Forget the watchdog timer
                                01C6'CF D6 0681 1297 INCL ERROR_COUNT ; Bump the error count
                                01CA'CF DD 0685 1298 PUSHL STATUS ; Push the error code...
                                01CA'CF DD 0689 1299 PUSHL STATUS ; ...and the error code...
                                0098'CF DF 068D 1300 PUSHAL DEVDSC ; ...and the device designation...
                                000F'CF DF 0691 1301 PUSHAL TEST_NAME ; ...and the test name...
                                000F0003 8F DD 0695 1302 PUSHL #^XF0003 ; ...and the arg count...
                                0074819A 8F DD 069B 1303 PUSHL #UETP$ DEUNUS!STSSK_ERROR ; ...and the signal name...
                                01C6'CF DD 06A1 1304 PUSHL ERROR_COUNT ; ...and the error count...
                                00A0'CF DF 06A5 1305 PUSHAL PROCESS_NAME ; ...our own name...
                                00010002 8F DD 06A9 1306 PUSHL #^X10002 ; ...and the argument count...
                                00748022 8F DD 06AF 1307 PUSHL #UETP$ ERBOXPROC!STSSK_ERROR ; ...and the signal name...
00000000'GF 0A FB 06B5 1308 CALLS #10,G^CIB$SIGNAL ; ...and print the error
                                0830 8F 05 B1 06BC 1309 CMPW R9,#SS$_CANCEL ; Did a timeout occur?
                                05 13 06C1 1310 BEQL 10$ ; BR if it was
                                2C 59 B1 06C3 1311 CMPW R9,#SS$_ABORT ; Did a timeout occur?
                                13 12 06C6 1312 BNEQ 20$ ; BR if not
                                06C8 1313 10$:
                                020C'CF DF 06C8 1314 PUSHAL TIME_OUT_MSG ; Print the timeout error message
                                01 DD 06CC 1315 PUSHL #1
                                00741132 8F DD 06CE 1316 PUSHL #UETP$ TEXT!STSSK_ERROR
00000000'GF 03 FB 06D4 1317 CALLS #3,G^LIB$SIGNAL
                                06DB 1318 20$:
                                FF8B 31 06DB 1319 BRW NEXT_TTY ; Go do the next unit
                                06DE 1320 TIMED_OUT:

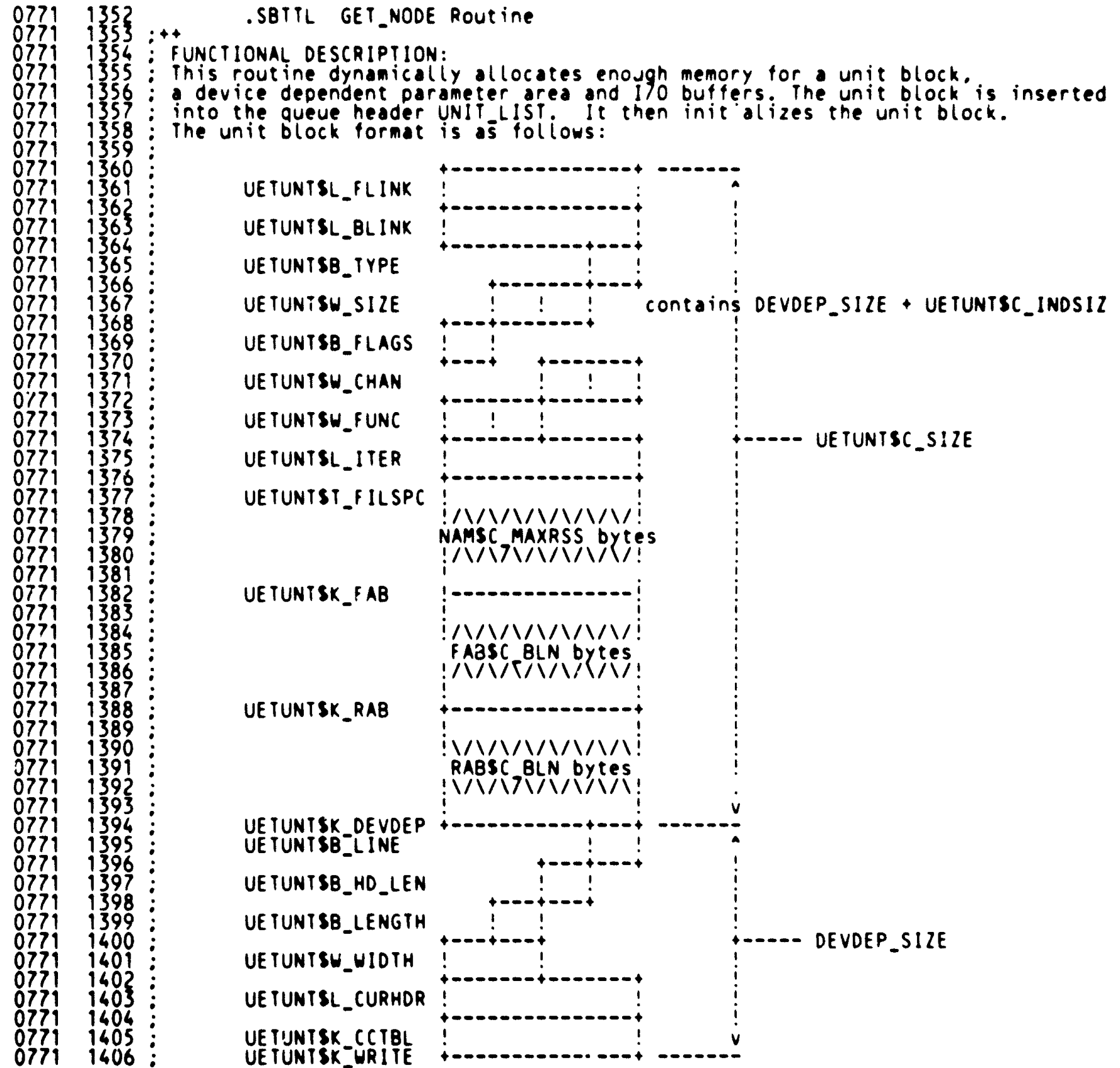
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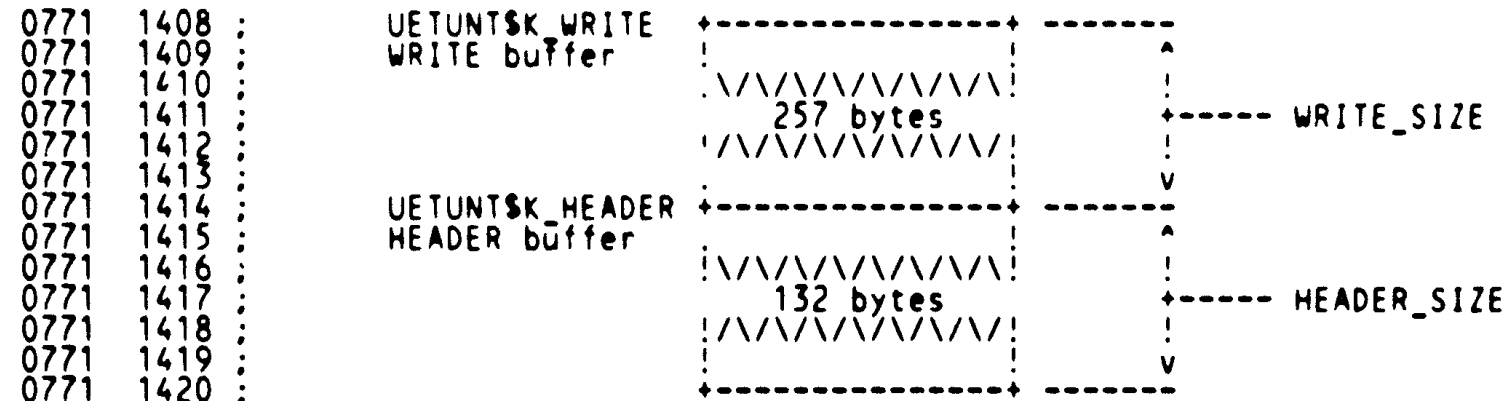


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0000 06DE 1321 .WORD 0 ; Go here with watchdog timer timeout
56 024D'CF D0 06E0 1322 MOVL CUR UNTBLK,R6 ; Get the unit block address
06E5 1323 $CANCEL_S CRAN = UETUNT$W_CHAN(R6) ; This is one IO that will never complete
04 06F0 1324 RET
06F1 1325
66 0002'CF 07 E0 06F1 1326 SUC_EXIT:
06F1 1327 BBS #CTRLC SEENV,FLAG,10$ ; Exit now if user typed CTRL/C
06F7 1328 STRNLOG_S LOGNAM = MODE,-
06F7 1329 RSLLEN = BUFFER_PTR,-
06F7 1330 RSLBUF = FAO BUF ; Get the run mode
0014'CF 20 8A 0710 1331 BICB2 #LC_BITM,BUFFER ; Convert to upper case
0014'CF 4C 8F 91 0715 1332 CMPB #A7L/,BUFFER ; Is this a loop for ever?
40 12 0718 1333 BNEQ 10$ ; BR if not
0002'CF 02 AA 071D 1334 BICW2 #TEST_OVERM,FLAG ; Reset the termination flag
01FA'CF D6 0722 1335 INCL PASS ; Bump the pass count
0726 1336 $FAO_S CTRSTR = PASS_MSG,-
0726 1337 OUTLEN = BUFFER_PTR,-
0726 1338 OUTBUF = FAO BUF,-
0726 1339 P1 = PASS,-
0726 1340 P2 = ITERATION,-
0726 1341 P3 = #0 ; Make the end of pass message
000C'CF DF 0743 1342 PUSHAL BUFFER_PTR ; Push the string desc.
01 DD 0747 1343 PUSHL #1 ; Push arg count
00741133 8F DD 0749 1344 PUSHL #UETPS_TEXT!STSSK_INFO ; Push the signal name
00000000'GF 03 FB 074F 1345 CALLS #3,G^LIB$SIGNAL ; Print the end of pass message
01F2'CF D4 0756 1346 CLRL ITERATION ; Reset the iteration count
FDOF 31 075A 1347 BRW TIME_IT ; Do the next pass
075D 1348 10$:
01CA'CF 1000001 8F D0 075D 1349 MOVL #SS$ NORMAL!STSSM_INHIB_MSG,STATUS ; Set successful exit status
0766 1350 $EXIT_S STATUS ; Exit with the status

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0771 1422 : CALLING SEQUENCE:
0771 1423 : BSBW GET_NODE
0771 1424 :
0771 1425 : INPUT PARAMETERS:
0771 1426 : NONE
0771 1427 :
0771 1428 : IMPLICIT INPUTS:
0771 1429 : UNIT_LIST contains head of doubly linked circular list of unit blocks
0771 1430 :
0771 1431 : OUTPUT PARAMETERS:
0771 1432 : R6 = address of new node
0771 1433 :
0771 1434 : IMPLICIT OUTPUTS:
0771 1435 : New inited unit block is inserted into UNIT_LIST
0771 1436 :
0771 1437 : COMPLETION CODES:
0771 1438 : NONE
0771 1439 :
0771 1440 : SIDE EFFECTS:
0771 1441 : NONE
0771 1442 :
0771 1443 : --

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0771 1444 :
0771 1445 : GET_NODE:
0771 1446 :
0771 1447 : $EXPREG_S PAGCNT = #PAGES,-
0771 1448 : RETADR = NEW_NODE ; Get a new node of demand zero memory
0230'CF 0238'DF 5D 0782 1449 : INSQTI @NEW_NODE,UNIT_LIST ; Put the new node in the unit list
56 0238'CF D0 0789 1450 : MOVL NEW_NODE,R6 ; Save a copy of its address
08 A6 01 90 078E 1451 : MOVB #1,DETUNT$B_TYPE(R6) ; Set the structure type
01B7 8F B0 0792 1452 : MOVW #UETUNT$C_INDSIZ+DEVDEP_SIZE,- ; Set the structure size
09 A6 0796 1453 : UETUNT$W_SIZE(R6) ; Set the structure size
14 A6 0098'CF 90 0798 1454 : MOVB DEVASC,UETUNT$T_FILSPC(R6) ; Set the device name size
009C'DF 0098'CF 28 079E 1455 : MOVCS DEVASC,@DEVASC+4,-
15 A6 07A5 1456 : UETUNT$T_FILSPC+1(R6) ; Save the device name
0094 8F 28 07A7 1457 : MOVCS #FAB$C_BCN+RAB$C_BLN,-
0110 C6 03D8'CF 07AB 1458 : DUMMY FAB,UETUNT$C_FAB(R6) ; Save a FAB and a RAB away
57 0110 C6 DE 07B1 1459 : MOVAL UETUNT$K_FAB(R6),R7 ; Save the FAB address
58 0160 C6 DE 07B6 1460 : MOVAL UETUNT$K_RAB(R6),R8 ; Save the RAB address
3C A8 57 D0 07BB 1461 : MOVL R7,RAB$K_FAB(R8) ; Set the FAB address in the RAB
14 A6 90 07BF 1462 : MOVB UETUNT$T_FILSPC(R6),-
34 A7 07C2 1463 : FAB$B_FNS(R7) ; Set the FNS field in the FAB
15 A6 DE 07C4 1464 : MOVAL UETUNT$T_FILSPC+1(R6),-

```

18	2C	A7	DE	07C7	1465		FAB\$L_FNA(R7)	; Set the FNA field in the FAB
	A8	66	DE	07C9	1466	MOVAL	(R6),RAB\$L_CTX(R8)	; Set the UETUNT address in the RAB
	02BA	C6	DE	07CD	1467	MOVAL	UETUNT\$K_HEADER+2(R6),-	
	28	A8		07D1	1468		RAB\$L_RBF(R8)	; Set the buffer address
			05	07D3	1469	RSB		

```

07D4 1471 .SBTTL SET_DEVDEP Routine
07D4 1472 :++
07D4 1473 : FUNCTIONAL DESCRIPTION:
07D4 1474 : This routine initializes the device dependent parameters in the unit
07D4 1475 : block specified.
07D4 1476 :
07D4 1477 : CALLING SEQUENCE:
07D4 1478 : PUSHAL DIB ; Push the device information block adr
07D4 1479 : PUSHAL UNIT_BLOCK ; Push the unit block address
07D4 1480 : CALLS #2,SET_DEVDEP ; Set the device characteristics
07D4 1481 :
07D4 1482 : INPUT PARAMETERS:
07D4 1483 : 4(AP) address of the unit block
07D4 1484 : 8(AP) address of the device information block
07D4 1485 :
07D4 1486 : IMPLICIT INPUTS:
07D4 1487 : NONE
07D4 1488 :
07D4 1489 : OUTPUT PARAMETERS:
07D4 1490 : NONE
07D4 1491 :
07D4 1492 : IMPLICIT OUTPUTS:
07D4 1493 : Device characteristics are inited in the unit block
07D4 1494 :
07D4 1495 : COMPLETION CODES:
07D4 1496 : NONE
07D4 1497 :
07D4 1498 : SIDE EFFECTS:
07D4 1499 : NONE
07D4 1500 :
07D4 1501 :--
07D4 1502 :
07D4 1503 SET_DEVDEP:
OFFC 07D4 1504 .WORD *M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; Entry mask
07D6 1505
56 04 AC D0 07D6 1506 MOVL 4(AP),R6 ; Get the unit block address
59 08 AC D0 07DA 1507 MOVL 8(AP),R9 ; Get the DIB address
SA 0523'CF DE 07DE 1508 MOVAL TESDEV_TBL,R10 ; Set the table address
05 A9 21 91 07E3 1509 CMPB #DTS_LA120,DIB$B_DEVTYPE(R9) ; Should only 2 pages be printed?
0B A6 04 12 07E7 1510 BNEQ 10$ ; Br if not...
07E9 1511 BISB2 #UETUNT$M_2PL,UETUNT$B_FLAGS(R6) ; ...else set the flag
07ED 1512 10$:
04 A9 43 8F 91 07ED 1513 CMPB #DCS_LP,DIB$B_DEVCLASS(R9) ; Should only 2 pages be printed?
0B A6 04 12 07F2 1514 BNEQ 20$ ; Br if not ...
07F4 1515 BISB2 #UETUNT$M_2PL,UETUNT$B_FLAGS(R6) ; ...else set the flag
07F8 1516 20$:
04 A9 6A B1 07F8 1517 CMPW (R10),DIB$B_DEVCLASS(R9) ; Is this the right table entry?
FFF2 5A 0F 0640'8F 13 07FC 1518 BEQL 30$ ; Br if yes
0806 1520 ACBW #TESDEV_TBL_END,#15,R10,20$ ; Do it for the whole table
0806 1521 $GETDVI_S DEVNAM = DEV$C,- ; Get the name of the device...
0806 1522 EFN = #SS_SYNCH_EFN,- ; ...from which the test is run.
0806 1523 ITMLST = TERM_ITMLST,- ; We have a special need here...
0822 1524 IOSB = QUAD_STATUS ; ...get it now & save it in BUFFER
0251'CF 12 01CE'CF E9 0822 1524 BLBC QUAD STATUS,25$ ; Abort if we can't get it
01000000 8F D3 0827 1525 BITL #IT2$M_ANSICRT,XTERM_CHAR ; Is this an ANSI terminal?
0830 1526 BEQL 27$ ; BR if not...
SA 0523'CF DE 0832 1527 MOVAL TESDEV_TBL,R10 ; ...otherwise set up as a VT100...

```

	1D	11	0837	1528	BRB	30\$; ...and carry on
			0839	1529				
01CA'CF	01CE'CF	B0	0839	1530	MOVW	QUAD STATUS,STATUS		; Save the exit status
	00D4'CF	DF	0840	1531	PUSHAL	NO_CTRLNAME		; Prepare for message...
	01	DD	0844	1532	PUSHL	#1-		; ...arg count
	00741132	8F	0846	1533	PUSHL	#UETP\$TEXT!STSSK_ERROR		; ...signal name
	03	DD	084C	1534	PUSHL	#3		; ...arg count
	0544	31	084E	1535	BRW	ERROR_EXIT		; ...go tell of bad setup
			0851	1536				
SA	05F5'CF	DE	0851	1537	MOVAL	UNKNOWN1,R10		; Assume the lowest level of test
			0856	1538				
	02BA C6	DE	0856	1539	MOVAL	UETUNT\$K_HEADER+2(R6),-		
	0244'CF		085A	1540		HEAD_BUF+4		; Set the output address
01A5 C6	02 AA	90	085D	1541	MOVB	2(R10),UETUNT\$B_HD_LEN(R6)		; Save the header length in lines
00000648'8F	07 AA	D1	0863	1542	CMPL	7(R10),#VT100_PREAMBLE		; Is this a scroll region device?
	04	12	086B	1543	BNEQ	35\$; BR if not
	0B A6	20	086D	1544	BISB2	#SCROL_CLRM,UETUNT\$B_FLAGS(R6)		; else set the scrol clear flag
			0871	1545				
			0871	1546				
			0871	1547				
			0871	1548				
			0871	1549				
			0871	1550				
			0871	1551				
	0248'CF	B0	0890	1552	MOVW	HEAD_LENGTH,-		; Form the header + preamble
	02B8 C6		0894	1553		UETUNT\$K_HEADER(R6)		; Save the header/preamble length
58	02BA C6	DE	0897	1554	MOVAL	UETUNT\$K_HEADER+2(R6),R8		; Get the header start address
	0100 C8	DE	089C	1555	MOVAL	HDR_OUT_SIZE(R8),-		
	01AB C6		08A0	1556		UETUNT\$C_CURHDR(R6)		; Set the current header address
57	0248'CF	3C	08A3	1557	MOVZWL	HEAD_LENGTH,R7		; Get the header length
	58 57	C0	08A8	1558	ADDL2	R7,R8		; Make the start address for the TSD
	57 0B AA	D0	08AB	1559	MOVL	11(R10),R7		; Get the TSD desc address
68	04 B7	28	08AF	1560	MOVCL3	(R7),@4(R7),(R8)		; Copy the TSD into the unit block
	02B8 C6	A0	08B4	1561	ADDW2	(R7),UETUNT\$K_HEADER(R6)		; update the total header length
			08B9	1562				
	0B A9	90	08B9	1563	MOVB	DIB\$L_DEVDEPEND+3(R9),-		
	01A6 C6		08BC	1564		UETUNT\$B_LENGTH(R6)		; Set the page length
	06 A9	3C	08BF	1565	MOVZWL	DIB\$W_DEVBUFSIZ(R9),-		
			08C2	1566		R7		; Get the line size
	01A7 C6	57	08C3	1567	MOVW	R7,UETUNT\$W_WIDTH(R6)		; Save the line size
	57 08	A0	08C8	1568	ADDW2	#SIZE_TBL_LEN,R7		; Add in the CCTBL table length
01AF C6	0352'CF	57	08CB	1569	MOVCL3	R7,SIZE_TBL,UETUNT\$K_CCTBL(R6)		; Init the CC tbl and write buffer
	57 08	C2	08D3	1570	SUBL2	#SIZE_TBL_LEN,R7		; Take size table back out
	01AF C6	57	08D6	1571	ADDW2	R7,UETUNT\$K_CCTBL(R6)		; Set the record lengths
	01B1 C6	57	08DE	1572	ADDW2	R7,UETUNT\$K_CCTBL+2(R6)		
	01B3 C6	57	08E0	1573	ADDW2	R7,UETUNT\$K_CCTBL+4(R6)		
	01B5 C6	57	08E5	1574	ADDW2	R7,UETUNT\$K_CCTBL+6(R6)		
57	000001B7	8F	08EA	1575	ADDL2	#UETUNT\$K_WRITE,R7		; Calculate the byte offset into the block
	57 56	C0	08F1	1576	ADDL2	R6,R7		; Calculate the address
	67 0C06'CF	B0	08F4	1577	MOVW	LF(R,R7)		; Set up the termination characters
0B A9	00000080	8F	08F9	1578	BITL	#TTSM_LOWER,DIB\$L_DEVDEPEND(R9)		; Is this a lower case terminal?
	1F	12	0901	1579	BNEQ	50\$; Br if yes
00C6'CF	00000101	8F	0903	1580	MOVL	#WRITE_SIZE,DATA_DSC		; Init the string descriptor
	01B7 C6	DE	090C	1581	MOVAL	UETUNT\$K_WRITE(R6),-		
	00CA'CF		C910	1582		DATA_DSC+4		
	00C6'CF	DF	0913	1583	PUSHAL	DATA_DSC		; Set up STR\$UPCASE destination
	00C6'CF	DF	0917	1584	PUSHAL	DATA_DSC		; Set up source

00000000'GF	02	FB	091B	1585	CALLS	#2,G^STR\$UPCASE	; Convert data buffer to upper case
			0922	1586			
	10	A6	D6	0922	INCL	UETUNT\$L_ITER(R6)	; Set to page 1
		06	E1	0925	BBC	#DEV\$V SPL,-	
	4D	69		0927	DIB\$L_DEVCHAR(R9),60\$; Check for the spool bit
	81	8F	88	0929	#SPL_ONITM!UETUNT\$M_DONE,-		; We can't test spooled devices
	0B	A6		092C	UETUNT\$B_FLAGS(R6)		
				092E	\$FAO_S	CTRSTR =_NOSPOOLED,-	; Let the user know about it
				092E		OUTLEN = BUFFER_PTR,-	
				092E		OUTBUF = FAO BUF,-	
				092E		P1 = #DEV\$DSC	
	C1C6'	CF	D6	0947	INCL	ERROR_COUNT	
	000C'	CF	DF	094B	PUSHAL	BUFFER_PTR	
	000F0001	8F	DD	094F	PUSHL	#^XF0001	
	00741130	8F	DD	0955	PUSHL	#UETP\$ TEXT!ST\$K_WARNING	
	01C6'	CF	DD	095B	PJSHL	ERROR_COUNT	
	00A0'	CF	DF	095F	PUSHAL	PROCESS_NAME	
	00010002	8F	DD	0963	PUSHL	#^X10002	
	00748020	8F	DD	0969	PUSHL	#UETP\$ ERBOXPROC!ST\$K_WARNING	
00000000'GF	07	FB	096F	1604	CALLS	#7,G^LIB\$SIGNAL	
				0976			
			04	0976	RET		

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0977 1608 .SBTTL SERVICE_IO
0977 1609 :++
0977 1610 : FUNCTIONAL DESCRIPTION:
0977 1611 : This routine services all asynchronous I/O completions for all unit
0977 1612 : numbers under test. After the proper number of iterations or elapsed
0977 1613 : time have been completed the unit number is disabled for testing.
0977 1614 : This routine does the data checking as well as the next I/O initiation.
0977 1615 :
0977 1616 : CALLING SEQUENCE:
0977 1617 : Entered via an AST from the RMS
0977 1618 :
0977 1619 : INPUT PARAMETERS:
0977 1620 : 4(AP) = address of RAB of unit completing I/O
0977 1621 :
0977 1622 : OUTPUT PARAMETERS:
0977 1623 : None
0977 1624 :--
0977 1625 :
0977 1626 SERVICE_IO:
OFFC 0977 1627 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
0979 1628
    5B 04 AC DO 0979 1629 MOVL 4(AP),R11 ; Get the RAB address
097D 1630 NEW_PAGE:
097D 1631 $DISCONNECT RAB = (R11),-
097D 1632 ERR = RMS_ERROR ; Disconnect to set IO mode
04 AB 00000800 8F C8 098A 1633 BISL2 #RAB$M BIO,RAB$R_OP(R11) ; Set to block IO for the header
0992 1634 $CONNECT RAB = (R11),=
0992 1635 ERR = RMS_ERROR ; OK now hook it back up
    02' 11 099F 1636 BRB SERVICE_IO1+2 ; This is first time only for the
09A1 1637 :
09A1 1638 : This entry point is to service header AST's.
09A1 1639 :
09A1 1640 :
09A1 1641 SERVICE_IO1:
OFFC 09A1 1642 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
    5B 04 AC DO 09A3 1643 MOVL 4(AP),R11 ; Get the RAB address
    5A 18 AB DO 09A7 1644 MOVL RAB$R_CTX(R11),R10 ; Save the unit block address
    58 F3 AF DE 09AB 1645 MOVAL SERVICE_IO1,R8 ; Set the AST service routine address
    28 AB 01AB CA DO 09AF 1646 MOVL UETUNT$CURHDR(R10),RAB$R_RBF(R11) ; Set the transfer address
    57 02B8 CA 3C 09B5 1647 MOVZWL UETUNT$K_HEADER(R10),R7 ; Get the header size
    59 02BA CA DE 09BA 1648 MOVAL UETUNT$K_HEADER+2(R10),R9 ; Get the header start address
    00000100 8F 59 C0 09BF 1649 ADDL2 R7,R9 ; Calculate the end address
    000D 01AB CA 09C9 1651 ACBL R9,#HDR OUT SIZE,- ; Output header in chunks
    59 28 AB C2 09CE 1652 SUBL2 RAB$R_RBF(R11),R9 ; If not enough header left for 256.
    22 AB 59 B0 09D2 1653 MOVW R9,RAB$R_RSZ(R11) ; ...then set size to whats left...
    58 09EB'CF DE 09D6 1654 MOVAL SERVICE_IO2,R8 ; ...and setup AST adr for data
09DB 1655 10$:
09DB 1656 $WRITE RAB = (R11),-
09DB 1657 SUC = (R8),-
09DB 1658 ERR = RMS_ERROR ; Start the next header write
    04 09EA 1659 RET
09EB 1660 :
09EB 1661 : This entry point is to set up for non-header data transfers.
09EB 1662 :
09EB 1663 :
09EB 1664 SERVICE_IO2:
    
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04 AB 00000800 8F CA 09EB 1665 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
      09ED 1666 MOVL 4(AP),R11 ; Get the RAB address
      09F1 1667 $DISCONNECT RAB = (R11),-
      09F1 1668 ERR = RMS_ERROR ; Disconnect to set IO mode
04 AB 00000800 8F CA 09FE 1669 BICL2 #RAB$M_BIO,RAB$ROP(R11) ; Set to record IO for the data
      0A06 1670 $CONNECT RAB = (R11),-
      0A06 1671 ERR = RMS_ERROR ; OK now hook it back up
      0A13 1672 BRB SERVICE_IO3+2 ; This is first time only for the
      0A15 1673
      0A15 1674 ; This entry point is to service normal data transfers.
      0A15 1675
      0A15 1676
      0A15 1677
      0A15 1678 SERVICE_IO3.
      0A15 1679 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
      5B 04 AC DO 0A17 1680 MOVL 4(AP),R11 ; Get the RAB address
      5A 18 AB DO 0A1B 1681 MOVL RAB$L_CTX(R11),R10 ; Save the unit block address
      58 7C 0A1F 1682 CLRQ R8 ; Clear the area
      58 01A5 CA 83 0A21 1683 UETUNT$B_HD_LEN(R10),-
      0A25 1684 UETUNT$B_LINE(R10),R8 ; Leave the non-header line cnt
      0A29 1685 ; in R8
      58 58 58 11 7B 0A29 1686 EDIV #CC_TBL_SIZE,R8,R8,R8 ; Leave the CC_TBL index in R8
      57 045B'CF48 DO 0A2E 1687 MOVL CC_TBL+T[R8],R7 ; Get the size table index
      57 57 9A 0A34 1688 MOVZBL R7,R7 ; Clean off the garbage
      28 AB 01B7 CA DE 0A37 1689 MOVAL UETUNT$K_WRITE(R10),RAB$L_RBF(R11) ; Set the new transfer adr
      22 AB 01AF CA47 B0 0A3D 1690 MOVW UETUNT$K_CCTBL(R10)[R7],-
      0A44 1691 RAB$W_RSZ(R11) ; Set the transfer size
      2C AB 045C'CF48 DE 0A44 1692 MOVAL CC_TBL[+2[R8],RAB$L_RHB(R11) ; Set the carriage control char's
      59 01A7 CA DO 0A4B 1693 MOVL UETUNT$W_WIDTH(R10),R9 ; Get the line length
      59 D7 0A50 1694 DECL R9 ; Move it over one byte
024C'CF 01B7 CA49 90 0A52 1695 MOVB UETUNT$K_WRITE(R10)[R9],SPARE ; Rotate the data pattern...
      01B7 CA 59 28 0A5A 1696 MOV3 R9,UETUNT$K_WRITE(R10),-
      0A5F 1697 UETUNT$K_WRITE+1(R10) ; ...
      01B7 CA 024C'CF 90 0A62 1698 MOVB SPARE,UETUNT$K_WRITE(R10) ;
      01A4 CA 96 0A69 1699 INCB UETUNT$B_LINE(R10) ; One more line done
      01A4 CA 91 0A6D 1700 CMPB UETUNT$B_LINE(R10),-
      01A6 CA 0A71 1701 UETUNT$B_LENGTH(R10) ; Is the page full?
      03 13 0A74 1702 BEQL 10$ ; BR if yes
      00B2 31 0A76 1703 BRW 80$ ; Br if not
      0A79 1704 10$:
      02BA CA DE 0A79 1705 MOVAL UETUNT$K_HEADER+2(R10),-
      01AB CA 0A7D 1706 UETUNT$L_CURHDR(R10) ; Reset header address
      26 0B AA 05 E1 0A80 1707 BBC #SCROL_C(RV,UETUNT$B_FLAGS(R10)),20$ ; BR if no scroll to clear
      28 AB 0A38'CF DE 0A85 1708 MOVAL VT100_ORIG_SCROLL,RAB$L_RBF(R11) ; Set the reset scroll address
      22 AB 0E B0 0A8B 1709 MOVW #VOSL,RAB$W_RSZ(R11) ; Set the reset scroll length
      0A8F 1710 $PUT RAB = (R11),-
      0A8F 1711 ERR = RMS_ERROR ; Reset the scroll region
      28 AB 01B7 CA DE 0A9C 1712 $WAIT RAB = (R11) ; Wait for the I/O to finish
      0AA5 1713 MOVAL UETUNT$K_WRITE(R10),RAB$L_RBF(R11) ; Reset the write address
      0AAB 1714 20$:
      0AAB 1715 $SETIMR_S DAYTIM = TWOSEC,- ; Pause in testing to give other
      0AAB 1716 EFN = #12 ; tests a chance to run
      0ABA 1717 $WAITFR_S EFN = #12
      2C 0002'CF 01 E1 0AC3 1718 BBC #IEST_OVERV_FLAG,50$ ; BR if we are done
      0B AA 01 88 0AC9 1719 BISB2 #UETUNT$M_DONE,UETUNT$B_FLAGS(R10) ; ...else set our done flag
      0ACD 1720 30$:
      56 0230'CF 00000230'8F C1 0ACD 1721 ADDL3 #UNIT_LIST,UNIT_LIST,R6 ; Get the list header

```

62 OB A6 00	E1	OAD7	1722	40\$:	BBC	#UETUNT\$V_DONE, UETUNT\$B_FLAGS(R6), 90\$; BR if any unit is not done
56 66 56	C1	OADC	1723		ADDL3	R6, (R6) R8 ; Get the next unit block adr
00000230'8F 56	D1	OAE0	1724		CMPL	R6, #UNIF_LIST ; All done checking?
EE	12	OAE7	1725		BNEQ	40\$; BR if yes
		OAE9	1726		\$WAKE_S	; Else its all over with
	04	OAF4	1727		RET	; Tha-a-Tha-a-Thats all folks
		OAF5	1728	50\$:		
		OAF5	1729		INCL	UETUNT\$L_ITER(R10) ; Bump iteration counter
10 AA D6	D6	OAF5	1730		INCL	ITERATION ; and test wide iteration count
01F2'CF D6	D6	OAF8	1731		BBC	#UETUNT\$V_2PL, UETUNT\$B_FLAGS(R10), 60\$; Br if no 2 page limit
0C OB AA 02	E1	OAF8	1732		CMPL	#3, UETUNT\$L_ITER(R10) ; See if 2 pages are out
10 AA 03	D1	OB01	1733		BNEQ	60\$; Br if not yet
	12	OB05	1734		BISB2	#UETUNT\$M_DONE, UETUNT\$B_FLAGS(R10) ; Set the done flag
OB AA 01	88	OB07	1735		BRB	30\$; Stop testing
	CO	OB08	1736			
		OB0D	1737	60\$:		
		OB0D	1738		MOVB	UETUNT\$B_HD_LEN(R10), -
01A5 CA 90		OB11	1739			UETUNT\$B_LINE(R10) ; Init line count
01A4 CA		OB14	1740		MOVW	UETUNT\$K_HEADER(R10), -
02B8 CA B0		OB18	1741			RAB\$W_RSZ(R11) ; Set RAB write size
		OB1A	1742		CMPW	RAB\$W_RSZ(R11), #HDR_OUT_SIZE ; Check the size
0100 8F 22 AB B1		OB20	1743		BLEQ	70\$; Br if small enough...
		OB22	1744		MOVW	#HDR_OUT_SIZE, RAB\$W_RSZ(R11) ; ...else make it small enough
22 AB 0100 8F B0		OB28	1745	70\$:		
		OB28	1746		BRW	NEW_PAGE ; Start a fresh page
		OB2B	1747	80\$:		
		OB2B	1748		\$PUT	RAB = UETUNT\$K_RAB(R10), -
		OB2B	1749			ERR = RMS_ERROR, -
		OB2B	1750			SUC = SERVICE_IO3 ; Kick off the next I/O operation
		OB3E	1751	90\$:		
	04	OB3E	1752		RET	

```

OB3F 1754 .SBTTL Timer Expiration Routine
OB3F 1755 :++
OB3F 1756 : FUNCTIONAL DESCRIPTION:
OB3F 1757 : This routine will be called when the three minute pass timer expires.
OB3F 1758 : The number of pages output by each unit is checked. If less than two
OB3F 1759 : pages were completed the device must be very slow or hung. To force
OB3F 1760 : completion of the slow units the line count is set to one less than
OB3F 1761 : the total page size. A two minute watchdog timer is then set - all
OB3F 1762 : units should finish unless they are hung. If the watchdog timer goes
OB3F 1763 : off an error message is output for all the units that did not finish.
OB3F 1764 :
OB3F 1765 : CALLING SEQUENCE:
OB3F 1766 : Called via AST at $SETIMR expiration.
OB3F 1767 :
OB3F 1768 : INPUT PARAMETERS:
OB3F 1769 : NONE
OB3F 1770 :
OB3F 1771 : IMPLICIT INPUTS:
OB3F 1772 : NONE
OB3F 1773 :
OB3F 1774 : OUTPUT PARAMETERS:
OB3F 1775 : NONE
OB3F 1776 :
OB3F 1777 : IMPLICIT OUTPUTS:
OB3F 1778 : NONE
OB3F 1779 :
OB3F 1780 : COMPLETION CODES:
OB3F 1781 : NONE
OB3F 1782 :
OB3F 1783 : SIDE EFFECTS:
OB3F 1784 : Sets a flag to indicate timer expiration.
OB3F 1785 :
OB3F 1786 :--
OB3F 1787 :
OB3F 1788 TIME_OUT:
OFFC OB3F 1789 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; Entry mask
OB41 1790
56 0230'CF 0002'CF 02 A8 OB41 1791 BISW2 #TEST_OVERM,FLAG ; Set the test over flag
00000230'8F C1 OB46 1792 ADDL3 #UNIT_LIST,UNIT_LIST,R6 ; Get the list header
OB50 1793 10$: BBC #UETUNT$V TESTABLE,- ; Br if unit is not testable
OE OB A6 01 E1 OB52 1795 UETUNT$B FLAGS(R6),20$
10 A6 03 D1 OB55 1796 CMPL #3,UETUNT$L_ITER(R6) ; 2 pages done? (starts with 1)
OB59 1797 BLEQ 20$ ; BR if more than 2 pages are out
OB5B 1798 ; ... must be a fast terminal
01A6 C6 01 83 OB5B 1799 SUBB3 #1,UETUNT$B LENGTH(R6),- ; Set line count equal to page
01A4 C6 OB60 1800 UETUNT$B_LINE(R6) ; ...length minus one
OB63 1801 20$:
00000230'8F 56 66 C0 OB63 1802 ADDL2 (R6),R6 ; Get the next unit block adr
E1 12 D1 OB66 1803 CMPL R6,#UNIT_LIST ; All done checking?
OB6D 1804 BNEQ 10$ ; BR if no
OB6F 1805 $SETIMR_S DAYTIM = TWOMIN,- ; Every unit should be done
OB6F 1806 ASTADR = WATCHDOG_TIMER ; within 2 minutes
04 OB82 1807 RET
OB83 1808
OB83 1809 WATCHDOG_TIMER: ; We should never get here unless there is a hung device.
OB83 1810

```

UET
Syn
\$\$
\$\$
\$\$
\$\$
\$\$
\$\$
\$\$
A
ACM
ALL
ARC
BEC
BEC
BUF
BUF
CCA
CC
CC
CHF
CHF
CHF
CHF
CNT
COM
COM
COM
CR
CRL
CSI
CSI
CTF
CTF
CUF
DA
DA
DCI
DCI
DDE
DEA
DEV
DEV
DEV
DEV
DIE
DIE
DIE
DIE
DIE
DIE
DIE
DIE

```

OFFC 0B83 1811 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; Entry mask
      0B85 1812
56 0230'CF 0000230'8F C1 0B85 1813 ADDL3 #UNIT_LIST,UNIT_LIST,R6 ; Get the list header
      0B8F 1814 10$:
      01 E1 0B8F 1815 BBC #UETUNT$V TESTABLE,- ; Br if unit is not testable
      63 OB A6 0B91 1816 UETUNT$B FLAGS(R6),20$
      5E OB A6 00 E0 0B94 1817 BBS #UETUNT$V DONE,UETUNT$B FLAGS(R6),20$ ; BR if this unit is done
0098'CF 14 A6 9B 0B99 1818 MOVZBW UETUNT$T FILSPC(R6),DEV$DSC ; Setup device name length
15 A6 0098'CF 28 0B9F 1819 MOV$3 DEV$DSC,UETUNT$T_FILSPC+1(R6),- ; Get device name
      00B7'CF 0BA5 1820 DEV NAME
      0BA8 1821 $FAO_S CTRSTR = TIMOUT_ERR_MSG,- ; Prepare error message
      0BA8 1822 OUTLEN = BUFFER_PTR,-
      0BA8 1823 OUTBUF = FAO_BUF,-
      0BA8 1824 P1 = #DEV$DSC
      01C6'CF D6 0BC1 1825 INCL ERROR_COUNT ; Bump the error count
      000C'CF DF 0BC5 1826 PUSHAL BUFFER_PTR ; push error message
      000F0001'8F DD 0BC9 1827 PUSHL #^XF0001 ; push arg count
      00741132'8F DD 0BCF 1828 PUSHL #UETP$TEXT!ST$K_ERROR ; push the signal name
      01C6'CF DD 0BD5 1829 PUSHL ERROR_COUNT ; ...and the error count...
      00A0'CF DF 0BD9 1830 PUSHAL PROCESS_NAME ; ...our own name...
      00010002'8F DD 0BDD 1831 PUSHL #^X10002 ; ...and the argument count...
      00748022'8F DD 0BE3 1832 PUSHL #UETP$ERBOXPROC!ST$K_ERROR ; ...and the signal name...
00000000'GF 07 FB 0BE9 1833 CALLS #7,G^LIB$SIGNAL ; report the error
0002'CF 0040 8F A8 0BF0 1834 B$W2 #TIMOUT_ERRM,FLAG ; Set time out error flag
      0BF7 1835 20$:
      56 66 C0 0BF7 1836 ADDL2 (R6),R6 ; Get the next unit block adr
0000230'8F 56 D1 0BFA 1837 CMPL R6,#UNIT_LIST ; All done checking?
      8C 12 0C01 1838 BNEQ 10$ ; BR if no
      0C03 1839 $WAKE_S
      04 0C0E 1840 RET
      0C0F 1841

```

UET
Sym
FIL
FIP
FIV
FLV
FOF
FOU
GET
HDF
HEA
HEA
HEA
HUP
ILL
IN/
IN/
IN/
IN/
INF
IOS
IOS
IOS
ITE
LA/
LA/
LA/
LA/
LA/
LA/
LA/
LA/
LA/
LA/
LC/
LF/
LF/
LIE
LPI
LPI
MA/
MA/
MA/
MA/
MA/
MA/
MS/
NA/
NE/
NE/
NO/
NO/
NO/
NR/
ON

```

OCOF 1843      .SBTTL System Service Exception Handler
OCOF 1844      :++
OCOF 1845      : FUNCTIONAL DESCRIPTION:
OCOF 1846      :   This routine is executed if a software or hardware exception occurs or
OCOF 1847      :   if a LIB$SIGNAL system service is used to output a message.
OCOF 1848      :
OCOF 1849      : CALLING SEQUENCE:
OCOF 1850      :   Entered via an exception from the system
OCOF 1851      :
OCOF 1852      : INPUT PARAMETERS:
OCOF 1853      :   ERROR_COUNT = previous cumulative error count
OCOF 1854      :
OCOF 1855      :   AP ---->
OCOF 1856      :
OCOF 1857      :
OCOF 1858      :
OCOF 1859      :
OCOF 1860      :
OCOF 1861      :
OCOF 1862      :
OCOF 1863      :
OCOF 1864      :
OCOF 1865      :
OCOF 1866      :
OCOF 1867      :
OCOF 1868      :
OCOF 1869      :
OCOF 1870      :
OCOF 1871      :
OCOF 1872      :
OCOF 1873      :
OCOF 1874      :
OCOF 1875      :
OCOF 1876      :
OCOF 1877      :
OCOF 1878      :
OCOF 1879      :
OCOF 1880      :
OCOF 1881      :
OCOF 1882      : IMPLICIT INPUTS:
OCOF 1883      :   NONE
OCOF 1884      :
OCOF 1885      : OUTPUT PARAMETERS:
OCOF 1886      :   NONE
OCOF 1887      :
OCOF 1888      : IMPLICIT OUTPUTS:
OCOF 1889      :   NONE
OCOF 1890      :
OCOF 1891      : COMPLETION CODES:
OCOF 1892      :   $$$_NORMAL if it's a UETP condition or RMS error.
OCOF 1893      :   Error status from exception, otherwise.
OCOF 1894      :
OCOF 1895      : SIDE EFFECTS:
OCOF 1896      :   May branch to ERROR_EXIT.
OCOF 1897      :   May print a message.
OCOF 1898      : --
OCOF 1899

```

2	
SIGNAL ARY PNT	
MECH ARY PNT	
4	
ESTABLISH FP	
DEPTH	Mechanism Array
R0	
R1	
N	
CONDITION NAME	
N-3 ADDITIONAL LONG WORD ARGS	Signal Array
PC	
PSL	

UE
SY
SE
SE
SE
SE
SE
SE
SH
SH
SH
SH
SH
SH
SI
SI
SP
SP
SP
SS
SS
SS
SS
SS
SS
SS
SS
ST
ST
ST
ST
ST
ST
ST
ST
SU
SU
SU
SY
SY
SY
SY
SY
SY
SY
SY
SY
SY


```

00741130 8F DD OCCA 1957 PUSHL #UETPS TEXT ; ...why the System Service failed
          00 5A FO OCDO 1958 INSV R10,#STSSV SEVERITY,- ; Give the message...
          6E 03 OCDS 1959 ; #STSSV_SEVERITY,(SP) ; ...the correct severity code
          58 03 DO OCDS 1960 MOVL #3,R8 ; Count the number of args we pushed
          05 11 OCDB 1961 BRB 70$
          SA DD OCDA 1962 60$: PUSHL R10 ; Save SS failure code
          58 01 DO OCDA 1963 MOVL #1,R8 ; Count the number of args we pushed
          OCDF 1965 70$:
57 66 04 C5 OCDF 1966 MULL3 #4,CHF$SIG_ARGS(R6),R7 ; Convert longwords to bytes
          5E 57 C2 OCE3 1967 SUBL2 R7,SP ; Save the current signal array...
6E 04 A6 57 28 OCE6 1968 MOVCL R7,CHF$SIG_NAME(R6),(SP) ; ...on the stack
          7E 66 58 C1 OCEB 1969 ADDL3 R8,CHF$SIG_ARGS(R6),-(SP) ; Push the current arg count
          00A3 31 OCEB 1970 BRW ERROR_EXIT

```

UE
Ps

PS
--
SA
RO
RW
SR
TT

Ph
--
In
Co
Pa
Sy
Pa
Sy
Ps
Cr
As

Th
17
Th
22
71

Ma
--
--
--
--
TO
21
Th
MA

```

OCF2 1972      .SBTTL RMS Error Handler
OCF2 1973      :++
OCF2 1974      : FUNCTIONAL DESCRIPTION:
OCF2 1975      :   This routine handles error returns from RMS calls.
OCF2 1976      :
OCF2 1977      : CALLING SEQUENCE:
OCF2 1978      :   Called by RMS when a file processing error is found.
OCF2 1979      :
OCF2 1980      : INPUT PARAMETERS:
OCF2 1981      :   The FAB or RAB associated with the RMS call.
OCF2 1982      :
OCF2 1983      : IMPLICIT INPUTS:
OCF2 1984      :   NONE
OCF2 1985      :
OCF2 1986      : OUTPUT PARAMETERS:
OCF2 1987      :   NONE
OCF2 1988      :
OCF2 1989      : IMPLICIT OUTPUTS:
OCF2 1990      :   Error message
OCF2 1991      :
OCF2 1992      : COMPLETION CODES:
OCF2 1993      :   NONE
OCF2 1994      :
OCF2 1995      : SIDE EFFECTS:
OCF2 1996      :   Program may exit, depending on severity of the error.
OCF2 1997      :
OCF2 1998      :--
OCF2 1999
OCF2 2000 RMS_ERROR:
OFFC OCF2 2001      .WORD      ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; Entry mask
OCF4 2002
56   04 AC   DO OCF4 2003      MOVL      4(AP),R6           ; See whether we're dealing with...
66   03 91 OCF8 2004      CMPB      #FAB$_BID,FAB$_BID(R6) ; ...a FAB or a RAB
57   16 12 OCFB 2005      BNEQ      10$           ; BR if it's a RAB
57   02C7'CF DE OCFD 2006      MOVAL     FILE,R7           ; FAB-specific code: text string...
58   56 DO ODO2 2007      MOVL      R6,R8           ; ...address of FAB...
OC   A5 DD ODO5 2008      PUSHL     FAB$_STV(R6)       ; ...STV field for error...
OC   A6 DD ODO8 2009      PUSHL     FAB$_STS(R6)       ; ...STS field for error...
01CA'CF 08 A6 DO ODOB 2010     MOVL      FAB$_STS(R6),STATUS ; ...and save the error code
OC   15 11 OD11 2011     BRB      COMMON          ; FAB and RAB share other code
57   02D3'CF DE OD13 2012     10$: MOVAL     RECORD,R7           ; RAB-specific code: text string...
58   3C A6 DO OD18 2014     MOVL      RAB$_FAB(R6),R8       ; ...address of associated FAB...
OC   A6 DD OD1C 2015     PUSHL     RAB$_STV(R6)       ; ...STV field for error...
OC   A6 DD OD1F 2016     PUSHL     RAB$_STS(R6)       ; ...STS field for error...
01CA'CF 08 A6 DO OD22 2017     MOVL      RAB$_STS(R6),STATUS ; ...and save the error code
OC   28 2018     COMMON:
5A   34 A8 9A OD28 2019     MOVZBL   FAB$_FNS(R8),R10      ; Get the file name size
OC   2C 2020     $FAO_S CTRSTR = RMS_ERR_STRING,- ; Common code, prepare error message...
OC   2C 2021     OUTLEN = BUFFER_PTR,-
OC   2C 2022     OUTBUF = FAO_BUF,-
OC   2C 2023     P1 = R7,-
OC   2C 2024     P2 = R10,-
OC   2C 2025     P3 = FAB$_FNA(R8)
OC   00C'CF DF OD46 2026     PUSHAL   BUFFER_PTR         ; ...and arguments for ERROR_EXIT...
OC   01 DD OD4A 2027     PUSHL     #1                 ; ...
00741130 8F DD OD4C 2028     PUSHL     #UETP$_TEXT       ; ...
  
```


59	00	EF	0D52	2029	EXTZV	#STSSV_SEVERITY,-	
	03		0D54	2030		#STSSS_SEVERITY,-	
	01CA'CF		0D55	2031		STATUS-R9	
	6E 59	88	0D59	2032	BISB2	R9,(SP)	; ...get the severity code...
	05	DD	0D5C	2033	PUSHL	#5	; ...and add it into the signal name
	0034	31	0D5E	2034	BRW	ERROR_EXIT	; Current arg count

```

OD61 2036 .SBTTL CTRL/C Handler
OD61 2037 :++
OD61 2038 : FUNCTIONAL DESCRIPTION:
OD61 2039 : This routine handles CTRL/C AST's
OD61 2040 :
OD61 2041 : CALLING SEQUENCE:
OD61 2042 : Called via AST
OD61 2043 :
OD61 2044 : INPUT PARAMETERS:
OD61 2045 : NONE
OD61 2046 :
OD61 2047 : IMPLICIT INPUTS:
OD61 2048 : NONE
OD61 2049 :
OD61 2050 : OUTPUT PARAMETERS:
OD61 2051 : NONE
OD61 2052 :
OD61 2053 : IMPLICIT OUTPUTS:
OD61 2054 : NONE
OD61 2055 :
OD61 2056 : COMPLETION CODES:
OD61 2057 : NONE
OD61 2058 :
OD61 2059 : SIDE EFFECTS:
OD61 2060 : NONE
OD61 2061 :
OD61 2062 :--
OD61 2063 :
OD61 2064 CCASTHAND:
OFFC OD61 2065 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; Entry mask
OD63 2066
00B3'CF DF OD63 2067 PUSHAL CNTRLCMSG ; Set message pointer
01 DD OD67 2068 PUSHL #1 ; Set arg count
00741130 8F DD OD69 2069 PUSHL #UETP$TEXT!STSSK_WARNING ; Set signal name
00 DD OD6F 2070 PUSHL #0 ; Indicate an abnormal termination
00A0'CF DF OD71 2071 PUSHAL PROCESS_NAME ; ...
02 DD OD75 2072 PUSHL #2 ; ...
007410E0 8F DD OD77 2073 PUSHL #UETP$ABENDD!STSSK_WARNING ; ...
00000000'GF 07 FB OD7D 2074 CALLS #7,G^LIBSSIGNAL ; Output the message
OD84 2075 MOVL #<STSSM INHIB_MSG!- ; Set the exit status
OD85 2076 SS$ CONTROLC==
OD85 2077 STSSK_SUCCESS+STSSK_WARNING>,-
01CA'CF 10000650 8F OD85 2078 STATUS
0002'CF 0082 8F A8 OD8D 2079 BISW2 #TEST_OVERM!CTRLC_SEENM,FLAG ; Set termination flags
04 OD94 2080 RET

```

```

OD95 2082 .SBTTL Error Exit
OD95 2083 :++
OD95 2084 : FUNCTIONAL DESCRIPTION:
OD95 2085 : This routine prints an error message and exits.
OD95 2086 :
OD95 2087 : CALLING SEQUENCE:
OD95 2088 : MOVx error status value,STATUS
OD95 2089 : PUSHx error specific information on the stack
OD95 2090 : PUSHl current argument count
OD95 2091 : BRW ERROR_EXIT
OD95 2092 :
OD95 2093 : INPUT PARAMETERS:
OD95 2094 : Arguments to LIB$SIGNAL, as above
OD95 2095 :
OD95 2096 : IMPLICIT INPUTS:
OD95 2097 : NONE
OD95 2098 :
OD95 2099 : OUTPUT PARAMETERS:
OD95 2100 : Message to SYS$OUTPUT and SYS$ERROR
OD95 2101 :
OD95 2102 : IMPLICIT OUTPUTS:
OD95 2103 : Program exit
OD95 2104 :
OD95 2105 : COMPLETION CODES:
OD95 2106 : NONE
OD95 2107 :
OD95 2108 : SIDE EFFECTS:
OD95 2109 : NONE
OD95 2110 :
OD95 2111 :--
OD95 2112 :
OD95 2113 ERROR_EXIT:
OD95 2114
OD95 2115 $SETAST_S ENBFLG = #0 ; Disable AST's
15 0002'CF 04 E0 OD9E 2116 EBS #BEGIN_MSGV,FLAG,10$ ; BR if "begin" msg already printed
7E D4 ODA4 2117 CLRL -(SP) ; Set the time stamp flag
000F'CF DF ODA6 2118 PUSHAL TEST_NAME ; Set the test name
02 DD ODA8 2119 PUSHL #2 ; Push the argument count
00741039 8F DD ODAC 2120 PUSHL #UETPS_BEGIND!STSSK_SUCCESS ; Set the message code
00000000'GF 04 FB ODB2 2121 CALLS #4,G^LIB$SIGNAL ; Print the startup message
OD95 2122 10$:
020E'CF 08 8E C1 ODB9 2123 ADDL3 (SP)+,#8,ARG_COUNT ; Get total # args, pop partial count
01C6'CF D6 ODBF 2124 INCL ERROR_COUNT ; Keep running error count
00 DD ODC3 2125 PUSHL #0 ; Push the time parameter
00A0'CF DF ODC5 2126 PUSHAL PROCESS_NAME ; Push test name...
000F0002 8F DD ODC9 2127 PUSHL #^XF0002 ; ...arg count...
007410E2 8F DD ODCF 2128 PUSHL #UETPS_ABENDD!STSSK_ERROR ; ...and signal name
01C6'CF DD ODD5 2129 PUSHL ERROR_COUNT ; finish off arg list...
00A0'CF DF ODD9 2130 PUSHAL PROCESS_NAME ; ...
00010002 8F DD ODDD 2131 PUSHL #^X10002 ; ...
00748022 8F DD ODE3 2132 PUSHL #UETPS_ERBOXPROC!STSSK_ERROR ; ...for error box message
00000000'GF 020E'CF FB ODE9 2133 CALLS ARG_COUNT,G^LIB$SIGNAL ; Truly bitch
OD95 2134 ODF2 2134
01CA'CF D5 ODF2 2135 TSTL STATUS ; Did we exit with an error code?
09 12 ODF6 2136 BNEQ 20$ ; BR if we did
007410E2 8F D0 ODF8 2137 MOVL #UETPS_ABENDD!STSSK_ERROR,- ; Supply a generic one otherwise
01CA'CF ODFE 2138 STATUS

```

UETTTYS00
V04-000

VAX/VMS UETP DEVICE TEST FOR TERMINALS
Error Exit

16-SEP-1984 01:36:06 VAX/VMS Macro V04-00
5-SEP-1984 04:26:40 [UETP.SRC]UETTTYS00.MAR;1

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(19)

UET
V04

01CA'CF 10000000 BF C8 OE01 2139 20\$:
OE01 2140
OE0A 2141

BISL #STSSM_INHIB_MSG,STATUS ; Don't print messages twice
\$EXIT_S STATUS ; Exit in error

```

OE15 2143 .SBTTL Exit Handler
OE15 2144 :++
OE15 2145 : FUNCTIONAL DESCRIPTION:
OE15 2146 : This routine handles cleanup at exit. If the MODE logical name is
OE15 2147 : equated to 'ONE', the routine will update the test flag in the
OE15 2148 : UETINIDEV.DAT file depending on the UETUNTSM_TESTABLE flag state in the
OE15 2149 : UETUNT$B_FLAGS field of the unit block for each unit for the device
OE15 2150 : under test.
OE15 2151 :
OE15 2152 : CALLING SEQUENCE:
OE15 2153 : Invoked automatically by $EXIT System Service.
OE15 2154 :
OE15 2155 : INPUT PARAMETERS:
OE15 2156 : STATUS contains the exit status.
OE15 2157 : FLAG has synchronizing bits.
OE15 2158 : DDB_RFA contains the RFA of the DDB record for this device in UETINIDEV.
OE15 2159 :
OE15 2160 : IMPLICIT INPUTS:
OE15 2161 : UNIT_LIST points to the head of a doubly linked circular list of unit
OE15 2162 : blocks for the device under test.
OE15 2163 :
OE15 2164 : OUTPUT PARAMETERS:
OE15 2165 : NONE
OE15 2166 :
OE15 2167 : IMPLICIT OUTPUTS:
OE15 2168 : Various files are de-accessed, the process name is reset, and any
OE15 2169 : necessary synchronization with UETPDEV01 is carried out.
OE15 2170 : If the MODE logical name is equated to 'ONE', the routine will update
OE15 2171 : the test flag in the UETINIDEV.DAT file depending on the
OE15 2172 : UETUNTSM_TESTABLE flag state in the UETUNT$B_FLAGS field of the unit
OE15 2173 : block for each unit for the device under test.
OE15 2174 :
OE15 2175 : COMPLETION CODES:
OE15 2176 : NONE
OE15 2177 :
OE15 2178 : SIDE EFFECTS:
OE15 2179 : NONE
OE15 2180 :
OE15 2181 :--
OE15 2182 :
OE15 2183 EXIT_HANDLER:
OFFC OE15 2184 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; Entry mask
OE17 2185
OE17 2186 $SETSFM_S ENBFLG = #0 ; Turn off System Service failure mode
OE20 2187 $SETAST_S ENBFLG = #0 ; Disable AST's
OE29 2188 $STRNLOG_S LOGNAM = MODE,- ; Get the run mode
OE29 2189 RSLLEN = BUFFER_PTR,-
OE29 2190 RSLBUF = FAO_BUF
0014'CF 20 8A OE42 2191 BICB2 #LC_BITM,BUFFER ; Convert to upper case
0014'CF 4F 8F 91 OE47 2192 CMPB #^A70/,BUFFER ; Is this a one shot?
03 03 13 OE4D 2193 BEQL 10$ ; BR if yes...
00C1 31 OE4F 2194 BRW END_UPDATE ; ...else don't update UETINIDEV.DAT
03 0002'CF 02 E0 OE52 2195 10$: BBS #SAFE_TO_UPDV,FLAG,20$ ; Only update if it's safe
00B8 31 OE52 2196 BRW END_UPDATE ; Else forget it
03 0002'CF 03 E1 OE5B 2197 20$: BBC #SELF_TESTV,FLAG,30$ ; Is this a self test?
OE5B 2198
OE5B 2199

```

```

00AF 31 OE61 2200 BRW END_UPDATE ; BR if so - we don't access UETINIDEV
      OE64 2201 30$:
10 AA 5A 033C'CF DE OE64 2202 MOVAL INI RAB,R10 ; Set the RAB address
      1E AA 02 90 OE69 2203 MOVB #RAB$C_RFA,RAB$B_RAC(R10) ; Set RFA mode
      0380'CF 06 28 OE6D 2204 MOVBC #6,DDB_RFA,RAB$W_RFA(R10) ; Set RFA to DDB Line
      75 50 E9 OE74 2205 $GET RAB = (R10) ; Go back to the DDB record
      1E AA 00 90 OE7D 2206 BLBC RO,UPDATE_FAILED ; If failure then forget it
5B 0230'CF 00000230'8F C1 OE80 2207 MOVB #RAB$C_SEQ,RAB$B_RAC(R10) ; Set back to sequential mode
      59 D4 OE84 2208 ADDL3 #UNIT_LIST,UNIT_LIST,R11 ; Set the unit block list header
      OE8E 2209 CLRL R9 ; Init a counter
      OE90 2210 UNIT_LOOP:
      OE90 2211 BBC #UETUNT$V_TESTABLE,- ; BR if this unit is not testable
      02 0B AB OE92 2212 UETUNT$B_FLAGS(R11),10$
      59 D6 OE95 2213 INCL R9 ; Count testable units
      OE97 2214 10$:
00000230'8F 5B 6B C0 OE97 2215 ADDL2 (R11),R11 ; Next unit block
      5B D1 OE9A 2216 CMPL R11,#UNIT_LIST ; Are we full circle in the list?
      ED 12 OEA1 2217 BNEQ UNIT_LOOP ; BR if not
      59 D5 OEA3 2218 TSTL R9 ; Any testable units?
      12 12 OEA5 2219 BNEQ 20$ ; BR if yes...
      0018'CF 4E 8F 90 OEA7 2220 MOVB #^A/N/,BUFFER+4 ; ...else disable the DDB record...
      OEAD 2221 $UPDATE RAB = (R10) ; ...here
      3C 50 E9 OEB6 2222 BLBC RO,UPDATE_FAILED ; If error then forget it
      OE89 2223 20$:
00000230'8F 5B 6B C0 OEB9 2224 ADDL2 (R11),R11 ; Next unit block
      5B D1 OEBE 2225 CMPL R11,#UNIT_LIST ; Are we full circle in the list?
      4E 13 OEC3 2226 BEQL END_UPDATE ; BR if yes
      OECE 2227 $GET RAB = (R10) ; Get a record
      24 50 E9 OECE 2228 BLBC RO,UPDATE_FAILED ; If error then forget it
      0014'CF 20 8A OED1 2229 BICB2 #LC_BITM,BUFFER ; Convert to uppercase
      0014'CF 55 8F 91 OED6 2230 CMPB #^A7U/,BUFFER ; Is it a UCB record?
      35 12 OEDC 2231 BNEQ END_UPDATE ; BR if not
      01 E0 OEDE 2232 BBS #UETUNT$V_TESTABLE,- ; BR if this unit is testable...
      0018'CF D6 0B AB OEEO 2233 UETUNT$B_FLAGS(R11),20$
      4E 8F 90 OEE3 2234 MOVB #^A/N/,BUFFER+4 ; ...else disable the UCB record...
      OEEO 2235 $UPDATE RAB = (R10) ; ...here
      C4 50 E8 OEF2 2236 BLBS RO,20$ ; Look at the next record if no error
      0C AA DD OEF5 2237 UPDATE_FAILED:
      50 DD OEF8 2238 PUSHL RAB$L_STV(R10) ; Do a simple message...
      0272'CF DF OEFA 2239 PUSHL RO ; ...to tell of the failure
      01 DD OEFE 2240 PUSHAL INIDEV_UPDERR
      00 EF OF00 2241 PUSHL #1
      7E 50 03 OF02 2242 EXTZV #ST$V_SEVERITY,- ; Copy the severity from RMS status...
      6E 00741130 8F C8 OF05 2243 #ST$S_SEVERITY,RO,-(SP)
      00000000'GF 05 FB OF0C 2244 BISL2 #UETP$TEXT,(SP) ; ...to our message
      OF13 2245 CALLS #5,G^LIB$SIGNAL
      OF13 2246 END_UPDATE:
      00 DD OF13 2247 PUSHL #0 ; Set the time flag
      000F'CF DF OF15 2248 PUSHAL TEST_NAME ; Push the test name
      02 DD OF19 2249 PUSHL #2 ; Push arg count
      00 EF OF1B 2250 EXTZV #ST$V_SEVERITY,- ; Push the proper exit severity...
      03 OF1D 2251 #ST$S_SEVERITY,-
      7E 01CA'CF OF1E 2252 STATUS,-(SP)
      6E 00741080 8F C8 OF22 2253 BISL2 #UETP$ENDEDD,(SP) ; ...and use it in our message code
      04 DD OF29 2254 PUSHL #4
      51 5E D0 OF2B 2255 MOVL SP,R1
      OF2E 2256 $PUTMSG_S MSGVEC = (R1) ; Output the message

```

```

OD 0002'CF 06
                00
                0212'CF
00000000'GF 02
E1
DD
DF
FB
04

```

```

OF3D 2257
OF48 2258
OF53 2259
OF5E 2260
OF64 2261
OF66 2262
OF6A 2263
OF71 2264 10$:
OF71 2265
OF72 2266
OF72 2267

```

```

$DISCONNECT RAB = INI_RAB
$CLOSE      FAB = INI_FAB
$SETPRN_S  PRCNAM = ACNT_NAME
BBC        #TIMOUT_ERRV,FLAG,10$
PUSHL     #0
PUSHAL    RMSRUNDWN BUF
CALLS     #2,G^SYSSRMSRUNDWN
RET
.END      UETTYS00

```

```

; Disconnect the RAB from the FAB
; Close the file
; Reset the process name
; BR if no units hung
; We have a hung unit - cancel all
; image and indirect I/O so we can
; exit without hanging
; That's all folks!

```

53
41
50
41
49
4E
54
21
2A
20
54

UETTTYS00
Symbol table

VAX/VMS UETP DEVICE TEST FOR TERMINALS

M 6

16-SEP-1984 01:36:06 VAX/VMS Macro V04-00
5-SEP-1984 04:26:40 [UETP.SRC]UETTTYS00.MAR;1

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UET
V04

SS.TAB	= 00000428	R	03	DTS_LA11	= 00000002			
SS.TABEND	= 0000046C	R	03	DTS_LA120	= 00000021			
SS.TMP	= 00000801			DTS_LA180	= 00000003			
SS.TMP1	= 00000001			DTS_LA34	= 00000022			
SS.TMP2	= 000000CF			DTS_LA36	= 00000020			
SS.TMPX	= 00000016	R	04	DTS_LA38	= 00000023			
SS.TMPX1	= 0000000D			DTS_LAX	= 00000020			
SST1	= 00000000			DTS_LP11	= 00000001			64
SST2	= 00000006			DTS_TTYUNKN	= 00000000			69
A	= 00000065			DTS_VT05	= 00000001			61
ACNT_NAME	= 00000000	R	02	DTS_VT100	= 00000060			4E
ALL_SET	= 0000041D	R	05	DTS_VT101	= 00000061			65
ARG_COUNT	= 0000020E	R	03	DTS_VT102	= 00000062			
BEGIN_MSGM	= 00000010			DTS_VT125	= 00000064			65
BEGIN_MSGV	= 00000004			DTS_VT131	= 00000065			73
BUFFER	= 00000014	R	03	DTS_VT132	= 00000066			20
BUFFER_PTR	= 0000000C	R	03	DTS_VT52	= 00000040			32
CCASTHAND	= 00000D61	R	05	DTS_VT55	= 00000041			42
CC_TBL	= 0000045A	R	02	DTS_VT5X	= 00000040			
CC_TBL_SIZE	= 00000011			DUMMY_FAB	= 000003D8	R	03	
CHFSL_SIGARGLST	= 00000004			DUMMY_RAB	= 00000428	R	03	
CHFSL_SIG_ARG1	= 00000008			DVIS_DEVDEPEND2	= 0000001C			61
CHFSL_SIG_ARGS	= 00000000			DVIS_DEVNAM	= 00000020			65
CHFSL_SIG_NAME	= 00000004			EFN2	= 00000004			21
CNTRLMSG	= 000000B3	R	02	END_UPDATE	= 00000F13	R	05	58
COMMON	= 00000D28	R	05	ERROR_COUNT	= 000001C6	R	03	2E
CONTROLLER	= 00000031	R	02	ERROR_EXIT	= 00000D95	R	05	
CONT_DESC	= 000002BF	R	02	ESC	= 0000001B			
CR	= 0000000D			EXIT_DESC	= 000001FE	R	03	
CRLF	= 00000C04	R	02	EXIT_HANDLER	= 00000E15	R	05	65
CS1	= 00000092	R	02	FABSB_BID	= 00000000			73
CS3	= 000000A4	R	02	FABSB_FNS	= 00000034			32
CTRLC_SEENM	= 00000080			FABSC_BID	= 00000003			42
CTRLC_SEENV	= 00000007			FABSC_BLN	= 00000050			21
CUR_UNTBLK	= 0000024D	R	03	FABSC_SEQ	= 00000000			
DATA_BUF	= 0000035A	R	02	FABSC_VAR	= 00000002			
DATA_DSC	= 000000C6	R	03	FABSC_VFC	= 00000003			
DCS_CP	= 00000043			FABSL_ALQ	= 00000010			65
DCS_TERM	= 00000042			FABSL_DEV	= 00000040			74
DDB_RFA	= 00000380	R	03	FABSL_FNA	= 0000002C			65
DEAD_CTRLNAME	= 000000F4	R	02	FABSL_FOP	= 00000004			
DEVSV_SPL	= 00000006			FABSL_STS	= 00000008			
DEVSV_TRM	= 00000002			FABSL_STV	= 0000000C			
DEVDEP_SIZE	= 00000013			FABSV_BRO	= 00000006			67
DEVVSC	= 00000098	R	03	FABSV_CHAN_MODE	= 00000002			69
DEVNAM_LEN	= 000001E8	R	03	FABSV_CR	= 00000001			6F
DEV_NAME	= 000000B7	R	03	FABSV_FILE_MODE	= 00000004			67
DIB	= 000000CE	R	03	FABSV_GET	= 00000001			65
DIBSB_DEVCLASS	= 00000004			FABSV_LNM_MODE	= 00000000			
DIBSB_DEVTYPE	= 00000005			FABSV_PRN	= 00000002			
DIBSK_LENGTH	= 00000074			FABSV_PUT	= 00000000			
DIBSL_DEVCHAR	= 00000000			FABSV_UFO	= 00000011			65
DIBSL_DEVDEPEND	= 00000008			FABSV_UPD	= 00000003			74
DIBSW_DEVBUFSIZ	= 00000006			FABSV_UPI	= 00000006			21
DIBBUF	= 000000D6	R	03	FABSW_GBC	= 00000004			
DIBBUF_SEC	= 00000152	R	03	FAO_BUF	= 00000004	R	03	
DIB_SEC	= 0000014A	R	03	FF	= 0000000C			

UETTTYS00
Symbol table

VAX/VMS UETP DEVICE TEST FOR TERMINALS

N 6

16-SEP-1984 01:36:06
5-SEP-1984 04:26:40

VAX/VMS Macro V04-00
[UETP.SRC]UETTTYS00.MAR;1

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UE1
V04

FILE	000002C7	R	02	ONE_SHOT_LOOP	000005A3	R	05		6F
FIND_IT	0000023D	R	05	OTSSCVT_TI_L	*****	X	05		74
FIVESEC	000002A7	R	02	OUTADDRESS-	000001DE	R	03		6D
FLAG	00000002	R	03	PAGES	= 00000005				
FORM_FEED	00000C02	R	02	PASS	000001FA	R	03		
FOUND_IT	000002D5	R	05	PASS_MSG	00000195	R	02		
GET_NODE	00000771	R	05	PC1...	= 00000640	R	02		
HDR_OUT_SIZE	= 00000100			PC2...	= 00000507	R	02		
HEAD_BUF	00000240	R	03	PMTSIZ	= 00000019				
HEAD_CTRSTR	000001C8	R	02	PROCESS_NAME	000000A0	R	03		
HEAD_LENGTH	00000248	R	03	PROCESS_NAME FREE	= 0000000B				65
HUNG_TERMINAL	00000302	R	02	PROC_CONT_NAME	000000D4	R	05		72
ILLEGAL_REC	00000161	R	02	PROMPT	00000259	R	02		
INADDRESS	000001D6	R	03	QUAD STATUS	000001CE	R	03		
INIDEV_UPDERR	00000272	R	02	RAB\$B_P SZ	= 00000034				
INI_FAB	000002EC	R	03	RAB\$B_RAC	= 0000001E				6E
INI_RAB	0000033C	R	03	RAB\$C_BID	= 00000001				63
INPUT_ITMLST	00000072	R	02	RAB\$C_BLN	= 00000044				
IOSM_CTRLCAST	*****	X	05	RAB\$C_RFA	= 00000002				
IOS_SETMODE	*****	X	05	RAB\$C_SEQ	= 00000000				
IOS_WRITEVBLK	*****	X	05	RAB\$C_CTX	= 00000018				20
ITERATION	000001F2	R	03	RAB\$C_FAB	= 0000003C				6C
LA11	000004F9	R	02	RAB\$C_PBF	= 00000030				72
LA11_DATA	00000BE1	R	02	RAB\$C_RBF	= 00000028				61
LA120	000004C7	R	02	RAB\$C_RHB	= 0000002C				4E
LA120_DATA	00000BC9	R	02	RAB\$C_ROP	= 00000004				
LA180	000004F3	R	02	RAB\$C_STS	= 00000008				
LA180_DATA	00000BD9	R	02	RAB\$C_STV	= 0000000C				
LA34	000004CD	R	02	RAB\$M_BIO	= 00000800				69
LA36	000004D2	R	02	RAB\$V_ASY	= 00000000				20
LA36_DATA	00000BD1	R	02	RAB\$V_BIO	= 0000000B				2E
LA38	000004D7	R	02	RAB\$V_PMT	= 0000001E				
LAX	00000503	R	02	RAB\$W_RFA	= 00000010				
LAX_DATA	00000BFA	R	02	RAB\$W_RSZ	= 00000022				4E
LC_BITM	= 00000020			RANDOM1	000001EA	R	03		62
LF	= 0000000A			RANDOM2	000001EE	R	03		6E
LFCR	00000C06	R	02	RECORD	000002D3	R	02		
LIB\$SIGNAL	*****	X	05	REC_SIZE	= 00000028				
LP11	000004FE	R	02	RESTART	00000489	R	05		
LP11_DATA	00000BF2	R	02	RMS\$BLN	*****	X	02		4E
MAX_DEV_DESIG	= 0000000A			RMS\$BUSY	*****	X	02		75
MAX_NAME_SIZE	= 00000007			RMS\$CDA	*****	X	02		20
MAX_PROC_NAME	= 0000000F			RMS\$FAB	*****	X	02		
MAX_UNIT_DESIG	= 00000005			RMS\$FACILITY	= 00000001				
MODE	00000041	R	02	RMS\$RAB	*****	X	02		
MSG_BLOCK	000001F6	R	03	RMSRNDWN_BUF	00000212	R	03		61
NAME_LEN	= 0000000F			RMS_ERROR	00000CF2	R	05		72
NEW_NODE	00000238	R	03	RMS_ERR_STRING	000002E1	R	02		20
NEW_PAGE	0000097D	R	05	RUNDWN_BUF	0000021A	R	03		41
NEXT_TTY	00000669	R	05	SAFE_TO_UPDM	= 00000004				
NOSPooled	00000321	R	02	SAFE_TO_UPDV	= 00000002				
NOUNIT_SELECTED	0000013B	R	02	SAVE_PC...	= 00000640	R	02		
NO_CTRLNAME	000000D4	R	02	SCROF_CLRM	= 00000020				68
NO_RMS_AST_TABLE	0000004D	R	02	SCROL_CLRV	= 00000005				74
NRAT_LENGTH	= 00000014			SECSM_EXPREG	= 00020000				
ONESHOT_ERROR	00000678	R	05	SECSM_GBL	= 00000001				
ONE_SHOT	00000599	R	05	SELF_TESTM	= 00000008				

UETTTYS00
Symbol table

SELF_TESTV	=	00000003			SYSS\$INPUT	00000061	R	02		
SERVICE_IO		00000977	R	05	SYSS\$MGBLSC	*****	GX	05		6C
SERVICE-IO1		000009A1	R	05	SYSS\$OPEN	*****	GX	05		75
SERVICE-IO2		000009EB	R	05	SYSS\$PUT	*****	GX	05		
SERVICE-IO3		00000A15	R	05	SYSS\$PUTMSG	*****	GX	05		
SET_DEVDEP		000007D4	R	05	SYSS\$QIOW	*****	GX	05		6D
SHR\$_ABENDD	=	000010E0			SYSS\$RMSRUNDN	*****	X	05		74
SHR\$_BEGIN	=	00001038			SYSS\$SETAST	*****	GX	05		6F
SHR\$_ENDEDD	=	00001080			SYSS\$SETIMR	*****	GX	05		
SHR\$_OPENIN	=	00001098			SYSS\$SETPRN	*****	GX	05		
SHR\$_TEXT	=	00001130			SYSS\$SETSFM	*****	GX	05		
SIZE_TBL		00000352	R	02	SYSS\$TRNLOG	*****	GX	05		6D
SIZE_TBL_LEN	=	00000008			SYSS\$UPDATE	*****	GX	05		6E
SPARE		0000024C	R	03	SYSS\$WAIT	*****	GX	05		
SPL_UNITM	=	00000080			SYSS\$WAITFR	*****	GX	05		
SPL_UNITY	=	00000007			SYSS\$WAKE	*****	GX	05		
SS\$_ABORT	=	0000002C			SYSS\$WRITE	*****	GX	05		6D
SS\$_BADPARAM	=	00000014			SYSIN_FAB	00000258	R	03		63
SS\$_CANCEL	=	00000830			SYSIN_RAB	000002A8	R	03		20
SS\$_CONTROL	=	00000651			TERM_ITMLST	00000082	R	02		65
SS\$_NORMAL	=	00000001			TERM_NAMES	0000049E	R	02		
SS\$_NOSUCHSEC	=	00000978			TERM_TYPE_CNT	=	00000013			
SS\$_SSFAIL	=	0000045C			TESDEV_TBC	=	00000523	R	02	
SS\$_WASSET	=	00000009			TESDEV_TBL_END	=	00000640	R	02	6D
SSERROR		00000C0F	R	05	TEST_NAME	=	0000000F	R	02	63
SS_SYNCH_EFN	=	00000003			TEST_OVERM	=	00000002			20
STATUS		000001CA	R	03	TEST_OVERV	=	00000001			
STRSUPCASE		*****	X	05	TEXT_BUFFER	=	00000084			
STSSK_ERROR	=	00000002			THREEMIN	00000297	R	02		
STSSK_INFO	=	00000003			TIMED_OUT	000006DE	R	05		6D
STSSK_SUCCESS	=	00000001			TIME_IT	0000046C	R	05		63
STSSK_WARNING	=	00000000			TIME_OUT	00000B3F	R	05		20
STSSM_INHIB_MSG	=	10000000			TIME_OUT_MSG	0000020C	R	02		6D
STSSS_FAC_NO	=	0000000C			TIMOUT_ERRM	=	00000040			
STSSS_SEVERITY	=	00000003			TIMOUT_ERRV	=	00000006			
STSSV_FAC_NO	=	00000010			TIMOUT_ERR_MSG	=	00000234	R	02	
STSSV_SEVERITY	=	00000000			TSD_SIZE	=	00000600			6E
SUC_EXIT		000006F1	R	05	TTSM_LOWER	=	00000080			20
SUPDEV_GBLSEC		00000020	R	02	TT2SM_ANSICRT	=	01000000			65
SUP_FAB		00000388	R	03	TTCHAN	00000000	R	03		
SYSS\$ASSIGN		*****	GX	05	TWOMIN	0000029F	R	02		
SYSS\$CANCEL		*****	GX	05	TWOSEC	000002AF	R	02		
SYSS\$CANTIM		*****	GX	05	UETP	=	00740000			77
SYSS\$CLOSE		*****	GX	05	UETPS_ABENDD	=	007410E0			20
SYSS\$CONNECT		*****	GX	05	UETPS_ABORTC	=	0074832B			20
SYSS\$CREATE		*****	GX	05	UETPS_BEGIN	=	00741038			72
SYSS\$CRMPSC		*****	GX	05	UETPS_DENOSU	=	00748333			61
SYSS\$DCLEXH		*****	GX	05	UETPS_DEUNUS	=	0074819A			
SYSS\$DISCONNECT		*****	GX	05	UETPS_ENDEDD	=	00741080			
SYSS\$EXIT		*****	GX	05	UETPS_ERBOXPROC	=	00748020			
SYSS\$EXPREG		*****	GX	05	UETPS_FACILITY	=	00000074			6D
SYSS\$FAO		*****	X	05	UETPS_OPENIN	=	00741098			2E
SYSS\$GET		*****	GX	05	UETPS_TEXT	=	00741130			
SYSS\$GETDEV		*****	GX	05	UETTTYS00	=	00000000	RG	05	
SYSS\$GETDVI		*****	GX	05	UETUNTSB_FLAGS	=	00000008			63
SYSS\$GETMSG		*****	GX	05	UETUNTSB_HD_LEN	=	000001A5			65
SYSS\$HIBER		*****	GX	05	UETUNTSB_LENGTH	=	000001A6			

UETUNTSB_LINE	=	000001A4		
UETUNTSB_TYPE	=	00000008		
UETUNTSB_DEVDEP	=	000001A4		
UETUNTSB_FAB	=	00000110		
UETUNTSB_INDSIZ	=	000001A4		
UETUNTSK_CCTBL	=	000001AF		
UETUNTSK_FAB	=	00000110		
UETUNTSK_HEADER	=	000002B8		
UETUNTSK_RAB	=	00000160		
UETUNTSK_WRITE	=	000001B7		
UETUNSL_CURHDR	=	000001AB		
UETUNSL_ITER	=	00000010		
UETUNSM_2PL	=	00000004		
UETUNSM_DONE	=	00000001		
UETUNSM_TESTABLE	=	00000002		
UETUNST_FILSPC	=	00000014		
UETUNSV_2PL	=	00000002		
UETUNSV_DONE	=	00000000		
UETUNSV_TESTABLE	=	00000001		
UETUNSW_CHAN	=	0000000C		
UETUNSW_SIZE	=	00000009		
UETUNSW_WIDTH	=	000001A7		
UNIT_DESC		000002B7	R	02
UNIT_LIST		00000230	R	03
UNIT_LOOP		00000E90	R	05
UNIT_NUMBER		000001E6	R	03
UNKNOWN		000004EB	R	02
UNKNOWN1		000005F5	R	02
UNKN_DATA		00000BEA	R	02
UNKN_PREAMBLE		000009E9	R	02
UPDATE_FAILED		00000EF5	R	05
VOSL	=	0000000E		
VT05		000004E6	R	02
VT05_DATA		00000BC1	R	02
VT05_PREAMBLE		00000BBB	R	02
VT05_PRE_LEN	=	00000005		
VT100		0000049E	R	02
VT100L	=	000003E1		
VT100_DATA		00000640	R	02
VT100_ORIG_SCROLL		00000A38	R	02
VT100_OUT_DATA		00000657	R	02
VT100_PREAMBLE		00000643	R	02
VT100_PRE_LEN	=	0000000E		
VT101		000004A4	R	02
VT102		000004AA	R	02
VT125		00000480	R	02
VT131		000004B6	R	02
VT132		000004BC	R	02
VT52		000004C2	R	02
VT52L	=	00000168		
VT52_DATA		00000A46	R	02
VT52_OUT_DATA		00000A53	R	02
VT52_PREAMBLE		00000A4E	R	02
VT52_PRE_LEN	=	00000004		
VT55		000004DC	R	02
VT5X		000004E1	R	02
WATCHDOG_TIMER		000008B3	R	05

WRITE_SIZE = 00000101
XTERM_CHAR = 00000251 R 03

55
69
65
65
6E
66
6E
60
61

65
74
66
65
65

72
61
65
72

74
20
65
64
20

65
69
54
65

74
2C
2C
55
55

70
20
4C
61

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$AB\$\$	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
RODATA	00000C08 (3080.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC PAGE
RWDATA	0000046C (1132.)	03 (3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC PAGE
\$RMSNAM	00000023 (35.)	04 (4.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE
TTYS	00000F72 (3954.)	05 (5.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC PAGE

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	28	00:00:00.09	00:00:01.15
Command processing	108	00:00:00.74	00:00:06.80
Pass 1	714	00:00:30.01	00:01:05.94
Symbol table sort	1	00:00:02.79	00:00:05.85
Pass 2	982	00:00:08.33	00:00:18.56
Symbol table output	53	00:00:00.36	00:00:00.53
Psect synopsis output	6	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	1894	00:00:42.36	00:01:38.90

The working set limit was 900 pages.
 172877 bytes (338 pages) of virtual memory were used to buffer the intermediate code.
 There were 100 pages of symbol table space allocated to hold 1868 non-local and 69 local symbols.
 2267 source lines were read in Pass 1, producing 47 object records in Pass 2.
 71 pages of virtual memory were used to define 63 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name	Macros defined
_\$255\$DUA28:[UETP.OBJ]UETP.MLB;1	2
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	57
TOTALS (all libraries)	59

2145 GETS were required to define 59 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:UETTTYS00/OBJ=OBJ\$:UETTTYS00 MSRC\$:UETTTYS00/UPDATE=(ENH\$:UETTTYS00)+EXECML\$/LIB+LIB\$:UETP/LIB

