



```

UU      UU  EEEEEEEEE  TTTTTTTTT  SSSSSSSS  SSSSSSSS  MM      MM  MM      MM      000000  000000
UU      UU  EEEEEEEEE  TTTTTTTTT  SSSSSSSS  SSSSSSSS  MM      MM  MM      MM      000000  000000
UU      UU  EE          TT          SS          SS          MMMM  MMMM  MMMM  MMMM  00      00  00      00
UU      UU  EE          TT          SS          SS          MMMM  MMMM  MMMM  MMMM  00      00  00      00
UU      UU  EE          TT          SS          SS          MM  MM  MM  MM  MM  MM  00      0000  00      0000
UU      UU  EE          TT          SS          SS          MM  MM  MM  MM  MM  MM  00      0000  00      0000
UU      UU  EEEEEEEEE  TT          SSSSSS    SSSSSS    MM      MM  MM      MM      00      00  00      00
UU      UU  EEEEEEEEE  TT          SSSSSS    SSSSSS    MM      MM  MM      MM      00      00  00      00
UU      UU  EE          TT          SS          SS          MM      MM  MM      MM      0000  00  0000  00
UU      UU  EE          TT          SS          SS          MM      MM  MM      MM      0000  00  0000  00
UU      UU  EE          TT          SS          SS          MM      MM  MM      MM      00      00  00      00
UU      UU  EE          TT          SS          SS          MM      MM  MM      MM      00      00  00      00
UUUUUUUUUU  EEEEEEEEE  TT          SSSSSSSS  SSSSSSSS  MM      MM  MM      MM      000000  000000
UUUUUUUUUU  EEEEEEEEE  TT          SSSSSSSS  SSSSSSSS  MM      MM  MM      MM      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
LLLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLLL  IIIIII  SSSSSSSS

```

(2)	64	Declarations
(2)	101	RO PSECT
(2)	208	R/W PSECT
(3)	356	RMS PSECT
(3)	398	UETSSMM00
(3)	449	CRMPSC TESTS
(4)	1577	MGBLSC TESTS
(5)	1843	UPDSEC TESTS
(6)	2043	DGBLSC TESTS
(7)	2064	REG_SAVE
(8)	2086	REG_CHECK
(9)	2134	PRINT_FAIL
(9)	2200	MODE_ID
(10)	2226	DATA_CHECK
(11)	2309	NONSOB_SSE
(12)	2342	RMS Error Handler
(13)	2409	Exit Handler

```

0000 1 .TITLE UETSSMM00 VAX/VMS UETP SYSTEM SERVICE TEST
0000 2 .IDENT 'V04-000'
0000 3 .DEFAULT DISPLACEMENT,WORD
0000 4 .ENABLE SUPPRESSION
0000 5
0000 6 *****
0000 7 *
0000 8 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0000 9 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0000 10 * ALL RIGHTS RESERVED.
0000 11 *
0000 12 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0000 13 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0000 14 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0000 15 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0000 16 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0000 17 * TRANSFERRED.
0000 18 *
0000 19 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0000 20 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0000 21 * CORPORATION.
0000 22 *
0000 23 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 24 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 25 *
0000 26 *
0000 27 *****
0000 28
0000 29
0000 30 +-
0000 31 : FACILITY: SATS SYSTEM SERVICE TESTS
0000 32
0000 33 : ABSTRACT: The UETSSMM00 module tests the execution of the following
0000 34 : VMS system services:
0000 35 :
0000 36 : $CRMPSC
0000 37 : $DGBLSC
0000 38 : $MGBLSC
0000 39 : $UPDSEC
0000 40 :
0000 41 :
0000 42 : ENVIRONMENT: User, Supervisor and Executive mode image.
0000 43 : Needs SETPRV privilege and dynamically acquires other
0000 44 : privileges, as needed. Privileges used are:
0000 45 :
0000 46 : SYSGBL SHMEM SYSNAM PSWAPM
0000 47 : PRMGBL PFNMAP CMEXEC
0000 48 :
0000 49 :--
0000 50 :
0000 51 : AUTHOR: Larry D. Jones, CREATION DATE: August, 1981
0000 52 :
0000 53 : MODIFIED BY:
0000 54 :
0000 55 : V03-004 LDJ0001 Larry D. Jones, 22-Feb-1984
0000 56 : Extended the GSDNAM length limit to 44 from 15 for the
0000 57 : the change put in $CRMPSC.

```

0000 58 :  
0000 59 :  
0000 60 :  
0000 61 :  
0000 62 : \*\*

V03-003 KDM0002 Kathleen D. Morse  
Added \$\$\$DEF and \$VADFF.

28-Jun-1982

```
0000 64 .SBTTL Declarations
0000 65 :
0000 66 : INCLUDE FILES:
0000 67 :
0000 68 :     SYSSLIBRARY:LIB.MLB     for general definitions
0000 69 :     SHRLIBS:UETP.MLB      for UETP definitions
0000 70 :
0000 71 :
0000 72 : MACROS:
0000 73 :
0000 74 :     $CHFDEF                  : Condition handler frame definitions
0000 75 :     $PHDDEF                 : Process header definitions
0000 76 :     $PSLDEF                 : PSL definitions
0000 77 :     $PRTDEF                 : Protection definitions
0000 78 :     $PRVDEF                 : Privilege bit definitions
0000 79 :     $PTEDEF                 : Page Table Entry definitions
0000 80 :     $$SECDEF                : Section definitions
0000 81 :     $$SHRDEF                : Shared messages
0000 82 :     $$SSDEF                 : System status codes
0000 83 :     $$STSDEF                : Status return
0000 84 :     $UETPDEF                : UETP
0000 85 :     $VADEF                  : Virtual address fields
0000 86 :
0000 87 : Equated symbols
0000 88 :
00741130 0000 89 :     UETPS_TEXT = <<116@16>!SHRS_TEXT>
0000 90 :
00000002 0000 91 :     EF2                     = 2
00000100 0000 92 :     TEXT_BUFFER             = 256
00000001 0000 93 :     SUCCESS                  = 1
00000002 0000 94 :     ERROR                    = 2
00000001 0000 95 :     EFN1                     = 1
0000 96 :
0000 97 : MACROS
0000 98 :
0000 99 :
```

```

0000 101 .SBTTL RO PSECT
00000000 102 .PSECT RODATA, RD, NOWRT, NOEXE, LONG
0000 103 ;
0000 104 ;
0000 105 TEST_MOD_NAME:
30 30 4D 4D 53 53 54 45 55 00' 0000 106 .ASCIC /UETSSMM00/ ; Needed for SATSMS message
09 0000
000A 107
000A 108 TEST_MOD_NAME_D:
4D 53 53 54 45 55 00000012'010E0000' 000A 109 .ASCID /UETSSMM00/ ; Module name
30 30 4D 0018
001B 110
001B 111 TEST_MOD_BEGIN:
6E 75 67 65 62 00' 001B 112 .ASCIC /begun/ ; Begin message
05 001B
0021 113
0021 114 TEST_MOD_SUCC:
6C 75 66 73 73 65 63 63 75 73 00' 0021 115 .ASCIC /successful/ ; Success message
0A 0021
002C 116
002C 117 TEST_MOD_FAIL:
64 65 6C 69 61 66 00' 002C 118 .ASCIC /failed/ ; Failure message
06 002C
0033 119
0033 120 CRMPSC:
43 53 50 4D 52 43 00' 0033 121 .ASCIC /CRMPSC/ ; System service names
06 0033
003A 122
003A 123 DGBLSC:
43 53 4C 42 47 44 00' 003A 124 .ASCIC /DGBLSC/
06 003A
0041 125
0041 126 MGBLSC:
43 53 4C 42 47 4D 00' 0041 127 .ASCIC /MGBLSC/
06 0041
0048 128
0048 129 UPDSEC:
43 45 53 44 50 55 00' 0048 130 .ASCIC /UPDSEC/
06 0048
004F 131
004F 132 RMS_ERR_MSG:
72 65 20 53 4D 52 00000057'010E0000' 004F 133 .ASCID /RMS error in file !AD/ ; Announces an RMS error
20 65 6C 69 66 20 6E 69 20 72 6F 72 005D
44 41 21 0069
006C 134 ; Failure messages
006C 135 UPDSEC_FAILED:
45 53 44 50 55 24 00000074'010E0000' 006C 136 .ASCID /$UPDSEC failed to modify the section file./
20 6F 74 20 64 65 6C 69 61 66 20 43 007A
73 20 65 68 74 20 79 66 69 64 6F 6D 0086
2E 65 6C 69 66 20 6E 6F 69 74 63 65 0092
009E 137
009E 138 BAD_PFN:
46 50 20 64 61 42 000000A6'010E0000' 009E 139 .ASCID /Bad PFN returned by the exec. No PFNMAP testing done./
62 20 64 65 6E 72 75 74 65 72 20 4E 00AC
20 2E 63 65 78 65 20 65 68 74 20 79 00B8
65 74 20 50 41 4D 4E 46 50 20 6F 4E 00C4
2E 65 6E 6F 64 20 67 6E 69 74 73 00D0

```





```

41 41 41 41 41 41 41 41 41 41 41 41 0238
41 41 41 41 41 41 41 41 41 41 41 41 0244
41 41 41 41 41 41 41 41 41 41 41 41 0250
                                41 41 025C
                                025E 179
                                025E 180 TTNAM:
54 54 00000266'010E0000' 025E 181 .ASCID /TT/
                                0268 182
74 73 69 67 65 72 00000270'010E0000' 0268 183 REG:
                                52 20 72 65 0268 184 .ASCID \register R\
                                0276 185
                                027A 186 ADR:
73 65 64 64 61 00000282'010E0000' 027A 187 .ASCID \address\
                                73 0288
                                0289 188
                                61 74 61 64 00000291'010E0000' 0289 189 DATA:
                                0289 190 .ASCID \data\
                                0295 191
73 75 74 61 74 73 0000029D'010E0000' 0295 192 STATUS:
                                0295 193 .ASCID \status\
                                02A3 194
                                65 64 6F 6D 000002AB'010E0000' 02A3 195 MS:
                                02A3 196 .ASCID \mode\
                                02AF 197
                                02AF 198 MSGVEC:
                                00000003 02AF 199 .LONG 3 ; PUTMSG message vector
                                00741130 02B3 200 .LONG UETPS_TEXT
                                00000001 02B7 201 .LONG 1
                                00000122' 02BB 202 .ADDRESS MESSAGEL
                                02BF 203
                                00000000 00000003 02BF 204 AN_ILLEGAL_IDENT:
                                02BF 205 .QOAD <SEC$K_MATLEQ+1>

```

```

179
180 TTNAM:
181 .ASCID /TT/
182
183 REG:
184 .ASCID \register R\ ; Output message variables
185
186 ADR:
187 .ASCID \address\
188
189 DATA:
190 .ASCID \data\
191
192 STATUS:
193 .ASCID \status\
194
195 MS:
196 .ASCID \mode\
197
198 MSGVEC:
199 .LONG 3 ; PUTMSG message vector
200 .LONG UETPS_TEXT
201 .LONG 1
202 .ADDRESS MESSAGEL
203
204 AN_ILLEGAL_IDENT:
205 .QOAD <SEC$K_MATLEQ+1>

```

```

02C7 207 ;
02C7 208 ; .SBTTL R/W PSECT
00000000 209 ; .PSECT RWDATA, RD, WRT, NOEXE, LONG
0000 210 ;
0000 211 ;
00000000 0000 212 TPID: ;
0004 213 ; .LONG 0 ; PID for this process
0000 214 ;
0000 215 TTCHAN: ;
0004 216 ; .WORD 0
0006 217 ;
00000000 0006 218 CURRENT_TC: ;
000A 219 ; .LONG 0 ; Ptr to current test case
000A 220 ;
000A 221 MODE: ;
000E 222 ; .LONG 0 ; Current mode string pointer
000E 223 ;
00000000 000E 224 REGNUM: ;
0012 225 ; .LONG 0 ; Register number
0012 226 ;
00000000 0012 227 STATUS_CODE: ;
0016 228 ; .LONG 0 ; Failure status code
0016 229 ;
00000000 0016 230 ARG_COUNT: ;
001A 231 ; .LONG 0 ; Storage for argument counts
001A 232 ;
00000100 001A 233 MSGL: ;
00000022' 001E 234 ; .LONG TEXT_BUFFER ; Buffer desc.
0022 235 ; .ADDRESS BUF
0022 236 ;
00000122 0022 237 BUF: ;
0122 238 ; .BLKB TEXT_BUFFER
0122 239 ;
00000000 0122 240 MESSAGEL: ;
00000022' 0126 241 ; .LONG 0 ; Message length
012A 242 ; .ADDRESS BUF
012A 243 ;
00000100 012A 244 MSG1L: ;
00000132' 012E 245 ; .LONG TEXT_BUFFER ; Buffer #1 desc.
0132 246 ; .ADDRESS BUFT
0132 247 ;
00000232 0132 248 BUF1: ;
0232 249 ; .BLKB TEXT_BUFFER
0232 250 ;
00000000 0232 251 MESSAGE1L: ;
00000132' 0236 252 ; .LONG 0 ; Message length
023A 253 ; .ADDRESS BUF1
023A 254 ;
00000000 023A 255 SERV_NAME: ;
023E 256 ; .LONG 0 ; Service name pointer
023E 257 ;
0000027A 023E 258 REG_SAVE_AREA: ;
027A 259 ; .BLKL 15 ; Register save area
027A 260 ;
007480D9 027A 261 MOD_MSG_CODE: ;
027E 262 ; .LONG UETPS_SATSMS ; Test module message code for putmsg
027E 263 ;

```

```

00000000' 027E 264 TMN_ADDR:
027E 265 .ADDRESS TEST_MOD_NAME
0282 266
0282 267 TMD_ADDR:
0000001B' 0282 268 .ADDRESS TEST_MOD_BEGIN
0286 269
0286 270 START_ADDRESS: ; Storage for buffer start address
00000000 0286 271 .LONG 0
028A 272
028A 273 WORK: ; Scratch long word
00000000 028A 274 .LONG 0
028E 275
028E 276 MSGVEC1: ; PUTMSG message vector
00000003 028E 277 .LONG 3
00741130 0292 278 .LONG UETPS_TEXT
00000001 0296 279 .LONG 1
00000000 029A 280 .LONG 0
029E 281
029E 282 EXIT_DESC: ; Exit handler descriptor
00000000 029E 283 .LONG 0
00001FBF' 02A2 284 .ADDRESS EXIT_HANDLER
00000001 02A6 285 .LONG 1
00000012' 02AA 286 .ADDRESS STATUS_CODE
02AE 287
00000000 00000000 02AE 288 UPD_IOSB: ; IOSB for the $UPDSEC
02AE 289 .QUAD 0
02B6 290
02B6 291 CRMPSCG: ; Allocate space for _G parameters
02B6 292 $CRMPSC
02EA 293
02EA 294 MGBLSCG:
02EA 295 $MGBLSC
030A 296
030A 297 DGBLSCG:
030A 298 $DGBLSC
031A 299
031A 300 UPDSECG:
031A 301 $UPDSEC
033E 302
00000000 00000000 033E 303 AN_IDENT: ; A section identifier
033E 304 .QUAD 0
0346 305
45 53 4D 4D 53 53 0000034E'010E0000' 0346 306 GSDNAM: ; Global section name
43 0346 307 .ASCID /SSMMSEC/
0354 308
0355 309 PRIV_MASK: ; Privilege mask
00000000 00000000 0355 310 .QUAD 0
035D 311
035D 312 VBN: ; Storage for Virtual Block Number
00000000 035D 313 .LONG 0
0361 314
00000600' 0361 315 OUTADDRESS: ; Address descriptors for sections
00000600' 0361 316 .ADDRESS READ_BUF
0365 317 .ADDRESS READ_BUF
0369 318
0369 319 INADDRESS:

```

```

00000600' 0369 320 .ADDRESS READ_BUF
00000600' 036D 321 .ADDRESS READ_BUF
0371 322
0371 323 FAO_BUF: ; FAO output string descriptor
0000 0100 0371 324 .WORD TEXT_BUFFER,0
00000381' 0375 325 .ADDRESS BUFFER
0379 326
0379 327 BUFFER_PTR: ; Fake .ASCID buffer for misc. strings
0000 0100 0379 328 .WORD TEXT_BUFFER,0 ; A word for length, a word for desc.
00000381' 037D 329 .ADDRESS BUFFER
0381 330
0381 331 BUFFER: ; FAO output and other misc. buffer
00000481 0381 332 .BLKB TEXT_BUFFER
0481 333
0481 334 ; The following two user defined symbols must remain contiguous.
0481 335
0481 336 LOGICAL_NAME:
00000009 0481 337 .LONG 9 ; Logical name descriptors
00000489' 0485 338 .ADDRESS .+4
45 4D 41 4E 24 4C 42 47 0489 339 .ASCII /GBL$NAME/
0491 340 NAME_INC1:
42 0491 341 .BYTE ^A/B/
0492 342
0492 343 ; The following two user defined symbols must remain contiguous.
0492 344
0492 345 EQUIV_NAME:
00000005 0492 346 .LONG 5
0000049A' 0496 347 .ADDRESS .+4
45 4D 41 4E 049A 348 .ASCII /NAME/
049E 349 NAME_INC2:
41 049E 350 .BYTE ^A/A/
049F 351
049F 352 GSD_LOGNAM:
4C 45 4D 41 4E 000004A7'010E0000' 049F 353 .ASCID /NAME1/
04AC 354

```

```

04AC 356 .SBTTL RMS PSECT
00000000 357 .PSECT RMS,PAGE
0000 358
FFFFFFFF 0000 359 WRITE_BUF: ; 3 Page buffer on page boundary
0000 360 A = -1
0000 361 .REPT <512*3>/4
0000 362 .LONG A
FFFFFFFF 0000 363 A = A-1
0000 364 .ENDR
0600 365
0600 366 .ALIGN PAGE
0600 367
00000C00 0600 368 READ_BUF:
00000E00 0C00 369 .BLKB 512*3 ; End buffer bumper
0E00 370 .BLKB 512
0E00 371
0E00 372 .ALIGN PAGE
0E00 373
00001400 0E00 374 READ_BUF1:
00001600 1400 375 .BLKB 512*3 ; End buffer bumper
1600 376 .BLKB 512
1600 377
1600 378 .ALIGN LONG
1600 379
1600 380 SECFAB: ; Section file FAB
1600 381 $FAB FNM=<UETPSECT.DAT>,-
1600 382 FAC=<GET>,-
1600 383 RAT=CR,-
1600 384 FOP=UFO
1650 385
1650 386 FILEFAB: ; Section file creation FAB
1650 387 $FAB FNM = <UETPSECT.DAT>,-
1650 388 FAC = <PUT,BIO>
16A0 389
16A0 390 FILERAB: ; Section file RAB
16A0 391 $RAB FAB = FILEFAB,-
16A0 392 UBF = READ_BUF,-
16A0 393 USZ = 512,-
16A0 394 RBF = WRITE_BUF,-
16A0 395 RSZ = 512
16E4 396

```

```

16E4 398 .SBTTL UETSSMM00
00000000 399 .PSECT UETSSMM00, RD, WRT, EXE, LONG
0000 400 :++
0000 401 : FUNCTIONAL DESCRIPTION:
0000 402 :
0000 403 : After performing some initial housekeeping, such as
0000 404 : printing the module begin message and acquiring needed privileges,
0000 405 : the system services are tested in each of their normal and failure
0000 406 : conditions. Detected failures are identified and an error message
0000 407 : is printed on the terminal. Upon completion of the test a success
0000 408 : or fail message is printed on the terminal.
0000 409 :
0000 410 : CALLING SEQUENCE:
0000 411 :
0000 412 : $ RUN UETSSMM00 ... (DCL COMMAND)
0000 413 :
0000 414 : INPUT PARAMETERS:
0000 415 :
0000 416 : none
0000 417 :
0000 418 : IMPLICIT INPUTS:
0000 419 :
0000 420 : none
0000 421 :
0000 422 : OUTPUT PARAMETERS:
0000 423 :
0000 424 : none
0000 425 :
0000 426 : IMPLICIT OUTPUTS:
0000 427 :
0000 428 : Messages to SYSS$OUTPUT are the only output from UETSSMM00.
0000 429 : They are of the form:
0000 430 :
0000 431 : %UETP-S-SATSMS, TEST MODULE UETSSMM00 BEGUN ... (BEGIN MSG)
0000 432 : %UETP-S-SATSMS, TEST MODULE UETSSMM00 SUCCESSFUL ... (END MSG)
0000 433 : %UETP-E-SATSMS, TEST MODULE UETSSMM00 FAILED ... (END MSG)
0000 434 : %UETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
0000 435 :
0000 436 : COMPLETION CODES:
0000 437 :
0000 438 : The UETSSMM00 routine terminates with a $EXIT to the
0000 439 : operating system with a status code defined by UETP$_SATSMS.
0000 440 :
0000 441 : SIDE EFFECTS:
0000 442 :
0000 443 : none
0000 444 :
0000 445 : --
0000 446 :
0000 447 : TEST_START UETSSMM00 ; let the test begin

```

```

0000 0000
0006'CF 00 D4 0002
00 DD 0006
0000'CF 00 DF 0008
00000000'GF 02 FB 000C
00000000'GF 00 FB 0013
000A'CF 7F 001A
00000000'GF 01 FB 001E
1FB1 30 0025
0282'CF 0021'CF DE 0028
027A'CF 03 00 01 FO 002F
00 DD 0036
1D2C'CF 01 FB 0038
003D
003D
003D
003D
003D
003D
003D
003D
003D
003D
00000000 003D
003D
003D
003D
0006'CF 01 DO 003D
00 DD 0042
1D2C'CF 01 FB 0044
0049
0049
000A'CF 01DC'CF DE 0054
023A'CF 0033'CF DE 005B
0062
007C
1D36'CF 0C DD 007C
01 FB 007E
0083
0083
0083
0083
0083
0083
0083
0083
0083
0083
0006'CF 02 DO 0083
00 DD 0088
1D2C'CF 01 FB 008A
008F
008F
00AB
1D36'CF 0C DD 00AB
01 FB 00AD

```

```

.ENTRY UETSSMM00_0
CLRL W^CURRENT_TC
PUSHL #0
PUSHAL W^TPID
CALLS #2,G^SYSSWAKE
CALLS #0,G^SYSSHIBER
PUSHAQ W^TEST_MOD_NAME_D
CALLS #1,G^SYSSSETPRN
BSBW W^MOD_MSG_PRINT
MOVAL W^TEST_MOD_SUCC,W^TMD_ADDR
INSV #SUCCESS,#0,#3,W^MOD_MSG_CODE
PUSHL #0
CALLS #1,W^REG_SAVE

STP0:
448
449 .SBTTL CRMPSC TESTS
450 :+
451 :
452 : $CRMPSC tests
453 :
454 : Test simplest case
455 :
456 :-
457
00000000 003D 458 STEP=0
003D 459 NEXT_TEST

STP1:
MOVL #1,W^CURRENT_TC
PUSHL #0
CALLS #1,W^REG_SAVE
460
461 $DCLEXH_S DESBLK = EXIT_DESC ; Declare an exit handler
462 MOVAL UM,MODE ; Set the mode
463 MOVAL CRMPSC,SERV_NAME ; Set the service name
464 $CRMPSC S ; No inadr on non global section
465 FAIL_CHECK SSS_ACCVIO
PUSHL #SSS_ACCVIO
CALLS #1,W^REG_CHECK
466 :+
467 :
468 : Test no inadr on non-permanent global section
469 :
470 :-
471
472 NEXT_TEST

STP2:
MOVL #2,W^CURRENT_TC
PUSHL #0
CALLS #1,W^REG_SAVE
473
474 $CRMPSC S FLAGS = #SECSM_GBL
475 FAIL_CHECK SSS_ACCVIO
PUSHL #SSS_ACCVIO
CALLS #1,W^REG_CHECK

```

```

00B2 476 :+
00B2 477 :
00B2 478 : Test No read access on inadr
00B2 479 :
00B2 480 :-
00B2 481 :
00B2 482 :
                                NEXT_TEST
00B2
00B2 STP3:
0006'CF 03 DO 00B2          MOVL    #3,W^CURRENT_TC
                                PUSHL   #0
1D2C'CF 00 DD 00B7          CALLS   #1,W^REG_SAVE
                                FB 00B9
00BE 483
00BE 484 $CREATE FAB = FILEFAB,-
00BE 485     ERR = RMS_ERROR ; Create the data file
00CD 486 $CONNECT RAB = FICERAB,-
00CD 487     ERR = RMS_ERROR ; Connect to the RAB
00DC 488 $WRITE RAB = FILERAB,-
00DC 489     ERR = RMS_ERROR ; Write 3 pages of long word
00EB 490 ; unique data to the file
00EB 491
00EB 492 $CLOSE FAB = FILEFAB,-
00FA 493     ERR = RMS_ERROR ; Close the file
00FA 494 $OPEN FAB = SECFAB,-
0109 495     ERR = RMS_ERROR ; Open the file to get a channel
0109 495 $SETPRT_S INADR = INADDRESS,-
0109 496     PROT = #PRTSC_NA ; Set buffer protection
                                E8 011C 497 BLBS   RO,10$ ; Skip error report if OK
07 50 DD 011F 498 PUSHL  RO ; Save error code
1F15'CF 01 FB 0121 499 CALLS  #1,NONSUB_SSE ; Print the failure
0126 500 10$:
0126 501 $CRMPSC_S INADR = READ_BUF,-
0126 502     CHAN = SECFAB+FABSL_STV ; Try for accvio
0144 503 FAIL_CHECK SSS_ACCVIO
                                DD 0144
1D36'CF 01 FB 0146          PUSHL  #SS$_ACCVIO
                                FB 0146          CALLS  #1,W^REG_CHECK
014B 504 $SETPRT_S INADR = INADDRESS,-
014B 505     PROT = #PRTSC_UW ; Reset buffer protection
                                E8 015E 506 BLBS   RO,20$ ; Skip error report if OK
07 50 DD 0161 507 PUSHL  RO ; Save error code
1F15'CF 01 FB 0163 508 CALLS  #1,NONSUB_SSE ; Print the failure
0168 509 20$:
0168 510 :+
0168 511 :
0168 512 : Test inadr of system space address
0168 513 :
0168 514 :-
0168 515 :
0168 516 :
                                NEXT_TEST
0168
0168 STP4:
0006'CF 04 DO 0168          MOVL    #4,W^CURRENT_TC
                                DD 016D          PUSHL   #0
1D2C'CF 01 FB 016F          CALLS   #1,W^REG_SAVE
0174 517
0369'CF 80000000'EF DE 0174 518 MOVAL  ^X80000000,INADDRESS ; Set a system space address
036D'CF 80000000'EF DE 017D 519 MOVAL  ^X80000000,INADDRESS+4
0186 520 $CRMPSC_S INADR = INADDRESS,-

```



```

0186 521          CHAN = SECFAB+FAB$$_STV
01A4 522          FAIL_CHECK $$$_NOPRIV
1D36'CF 24 DD 01A4          PUSHL  #$$$_NOPRIV
FB 01A6          CALLS   #1,W*REG_CHECK
01AB 523 :+
01AB 524 :
01AB 525 : Test virtual address space full
01AB 526 :-
01AB 527 :-
01AB 528
01AB 529          NEXT_TEST
01AB
01AB          STP5:
0006'CF 05 DD 01AB          MOVL   #5,W^CURRENT_TC
00          DD 01B0          PUSHL  #0
1D2C'CF 01 FB 01B2          CALLS  #1,W^REG_SAVE
01B7 530
0369'CF 70000000'EF DE 01B7          MOVAL  ^X70000000,INADDRESS      ; Set a P1 space address
036D'CF 70000000'EF DE 01C0          MOVAL  ^X70000000,INADDRESS+4
01C9 532          $CRMPSC_S INADR = INADDRESS,-
01C9 533          CHAN = SECFAB+FAB$$_STV
01F7 534          FAIL_CHECK $$$_VASFULL
01E7 535          PUSHL  #$$$_VASFULL
1D36'CF 01 FB 01ED          CALLS  #1,W*REG_CHECK
0369'CF 0600'CF DE 01F2          MOVAL  READ_BUF,INADDRESS      ; Reset to P0 space address
036D'CF 07FF'CF DE 01F9          MOVAL  READ_BUF+^X1FF,INADDRESS+4
0200 538 :+
0200 539 :
0200 540 : Test illegal address in retadr
0200 541 :-
0200 542 :-
0200 543
0200 544          NEXT_TEST
0200
0006'CF 06 DD 0200          STP6:
00          DD 0205          MOVL   #6,W^CURRENT_TC
1D2C'CF 01 FB 0207          PUSHL  #0
020C 545          CALLS  #1,W^REG_SAVE
020C 546          $CRMPSC_S INADR = INADDRESS,-
020C 547          CHAN = SECFAB+FAB$$_STV,-
020C 548          RETADR= 1
022E 549          FAIL_CHECK $$$_ACCVIO
1D36'CF 0C DD 022E          PUSHL  #$$$_ACCVIO
01          FB 0230          CALLS  #1,W*REG_CHECK
0235 550 :+
0235 551 :
0235 552 : Test no write access for retadr
0235 553 :-
0235 554 :-
0235 555
0235 556          NEXT_TEST
0235
0006'CF 07 DD 0235          STP7:
00          DD 023A          MOVL   #7,W^CURRENT_TC
1D2C'CF 01 FB 023C          PUSHL  #0
023C          CALLS  #1,W^REG_SAVE

```

```

0241 557
0241 558
0241 559
07 50 EB 0254 560
50 DD 0257 561
1F15'CF 01 FB 0259 562
025E 563 10$:
025E 564
025E 565
025E 566
027E 567
0C DD 027E
1D36'CF 01 FB 0280
0285 568
0285 569
07 50 EB 0298 570
50 DD 029B 571
1F15'CF 01 FB 029D 572
02A2 573 20$:
02A2 574 :+
02A2 575 :
02A2 576 : Test no channel and no PFNMAP flag bit set
02A2 577 :
02A2 578 :-
02A2 579
02A2 580
NEXT_TEST
02A2
02A2 STP8:
0006'CF 08 DO 02A2
00 DD 02A7
1D2C'CF 01 FB 02A9
02AE 581
02AE 582
02CA 583
0000016C 8F DD 02CA
1D36'CF 01 FB 02D0
02D5 584 :+
02D5 585 :
02D5 586 : Test chan and PFNMAP
02D5 587 :
02D5 588 :-
02D5 589
02D5 590
NEXT_TEST
02D5
02D5 STP9:
0006'CF 09 DO 02D5
00 DD 02DA
1D2C'CF 01 FB 02DC
02E1 591
02E1 592
02E1 593
02E1 594
0305 595
0000016C 8F DD 0305
1D36'CF 01 FB 030B
0310 596 :+
0310 597 :

```

```

$SETPRT_S INADR = OUTADDRESS,-
PROT = #PRTSC_NA ; Set retadr protection
BLBS RO,10$ ; Skip error report if OK
PUSHL RO ; Save error code
CALLS #1,NONSUB_SSE ; Print the failure

```

```

$CRMPSC_S INADR = INADDRESS,-
CHAN = SECFAB+FAB$$_STV,-
RETADR= READ_BUF
FAIL_CHECK SSS_ACCVIO
PUSHL #SS$_ACCVIO
CALLS #1,W^REG_CHECK

```

```

$SETPRT_S INADR = OUTADDRESS,-
PROT = #PRTSC_UW ; Reset retadr protection
BLBS RO,20$ ; Skip error report if OK
PUSHL RO ; Save error code
CALLS #1,NONSUB_SSE ; Print the failure

```

NEXT\_TEST

STP8:

```

MOVL #8,W^CURRENT_TC
PUSHL #0
CALLS #1,W^REG_SAVE

```

```

$CRMPSC_S INADR = INADDRESS
FAIL_CHECK SSS_IVSECFLG
PUSHL #SS$_IVSECFLG
CALLS #1,W^REG_CHECK

```

Test chan and PFNMAP

NEXT\_TEST

STP9:

```

MOVL #9,W^CURRENT_TC
PUSHL #0
CALLS #1,W^REG_SAVE

```

```

$CRMPSC_S INADR = INADDRESS,-
FLAGS = #SECSM_PFNMAP,-
CHAN = SECFAB+FAB$$_STV
FAIL_CHECK SSS_IVSECFLG
PUSHL #SS$_IVSECFLG
CALLS #1,W^REG_CHECK

```

```

0310 598 : Test illegal channel
0310 599 :-
0310 600 :-
0310 601 :-
0310 602 NEXT_TEST
0310
0310 STP10:
0006'CF 0A DO 0310 MOVL #10,W^CURRENT_TC
00 00 DD 0315 PUSHL #0
1D2C'CF 01 FB 0317 CALLS #1,W^REG_SAVE
031C 603
031C 604 $CRMPSC_S INADR = INADDRESS,-
031C 605 CHAN = #1
0338 606 FAIL_CHECK $$$_IVCHAN
0000013C 8F DD 0338 PUSHL #$$$_IVCHAN
1D36'CF 01 FB 033E CALLS #1,W^REG_CHECK
0343 607 :+
0343 608 :-
0343 609 : Test non-file channel device
0343 610 :-
0343 611 :-
0343 612
0343 613 NEXT_TEST
0343
0343 STP11:
0006'CF 0B DO 0343 MOVL #11,W^CURRENT_TC
00 00 DD 0348 PUSHL #0
1D2C'CF 01 FB 034A CALLS #1,W^REG_SAVE
034F 614
034F 615 $CREMBX_S CHAN = TTCHAN ; Make a no RND, FOD, DIR channel
07 50 EB 0362 BLBS RO,10$ ; Skip error report if OK
50 DD 0365 PUSHL RO ; Save error code
1F15'CF 01 FB 0367 CALLS #1,NONSUB_SSE ; Print the failure
036C 619 10$:
036C 620 $CRMPSC_S INADR = INADDRESS,- ; Try it
036C 621 CHAN = TTCHAN
038A 622 FAIL_CHECK $$$_NOTFILEDEV
000001CC 8F DD 038A PUSHL #$$$_NOTFILEDEV
1D36'CF 01 FB 0390 CALLS #1,W^REG_CHECK
0395 623 $DASSGN_S CHAN = TTCHAN ; Get rid of the mail box
07 50 EB 03A1 BLBS RO,20$ ; Skip error report if OK
50 DD 03A4 PUSHL RO ; Save error code
1F15'CF 01 FB 03A6 CALLS #1,NONSUB_SSE ; Print the failure
03AB 627 20$:
0204 8F 00 0600'CF 00 2C 03AB MOVCS #0,READ_BUF,#0,#512+4,READ_BUF ; Clear the buffer and it's bumper
0600'CF 03B4
03B7 629 :+
03B7 630 :-
03B7 631 : Create the simplest section. One page, user, temporary, P0, private, local memory,
03B7 632 : read only section.
03B7 633 :-
03B7 634 :-
03B7 635
03B7 636 NEXT_TEST
03B7
0006'CF 0C DO 03B7 STP12:
MOVL #12,W^CURRENT_TC

```



```

1D2C'CF 00 DD 048C          PUSHL #0
01 FB 048E          CALLS #1,W^REG_SAVE
          0493 680
          0493 681 $CRMPSC_S CHAN = SECFAB+FAB$L_STV,-
          0493 682         FLAGS = #SECSM_WRT,-
          0493 683         INADR = INADDRESS
          04B3 684 FAIL_CHECK SSS_NOWRT
000003FC 8F DD 0483          PUSHL #SS$ NOWRT
1D36'CF 01 FB 0489          CALLS #1,W^REG_CHECK
          04BE 685 $DELTVAS INADR = OUTADDRESS
          07 50 EB 04CD 686 BLBS RO,10$
          50 DD 04D0 687 PUSHL RO
1F15'CF 01 FB 04D2 688 CALLS #1,NONSUB_SSE
          04D7 689 10$:
          04D7 690 $DASSGN_S CHAN = SECFAB+FAB$L_STV
          07 50 EB 04E3 691 BLBS RO,20$
          50 DD 04E6 692 PUSHL RO
1F15'CF 01 FB 04E8 693 CALLS #1,NONSUB_SSE
          04ED 694 20$:
1616'CF 01 88 04ED 695 BISB2 #FAB$M_PUT,SECFAB+FAB$B_FAC
          04F2 696 $OPEN FAB = SECFAB,-
          04F2 697 ERR = RMS_ERROR
          0501 698 :+
          0501 699 :-
          0501 700 : Create a one page user temporary P1 private local memory read/write section.
          0501 701 :-
          0501 702 :-
          0501 703 :-
          0501 704
          NEXT_TEST
          0501
0006'CF 0F DD 0501          STP15:
00 DD 0506          MOVL #15,W^CURRENT_TC
1D2C'CF 01 FB 0508          PUSHL #0
          050D 705 CALLS #1,W^REG_SAVE
          050D 706 $CRMPSC_S CHAN = SECFAB+FAB$L_STV,-
          050D 707         FLAGS = #SECSM_EXPREG!SECSM_WRT,-
          050D 708         INADR = INADDRESS,-
          050D 709         RETADR = OUTADDRESS
          0533 710 FAIL_CHECK SSS_CREATED
          00000619 8F DD 0533          PUSHL #SS$ CREATED
1D36'CF 01 FB 0539          CALLS #1,W^REG_CHECK
          0361'CF DF 053E 711 PUSHAL OUTADDRESS
          FFFFFFFF 8F DD 0542 712 PUSHL #-1
1E89'CF 02 FB 0548 713 CALLS #2,DATA_CHECK
          054D 714 $DELTVAS INADR = OUTADDRESS
          07 50 EB 055C 715 BLBS RO,10$
          50 DD 055F 716 PUSHL RO
1F15'CF 01 FB 0561 717 CALLS #1,NONSUB_SSE
          0566 718 10$:
          0566 719 :+
          0566 720 :-
          0566 721 : Create a one page user temporary P0 private local memory read/write section.
          0566 722 :-
          0566 723 :-
          0566 724 :-
          0566 725
          NEXT_TEST

```



```

036D'CF 0600'CF DE 0668 770 MOVAL READ BUF,INADDRESS+4
066F 771 $CRMPSC_S CHAN = SECFAB+FAB$$_STV,-
066F 772 FLAGS = #SECSM WRT,-
066F 773 INADR = INADDRESS,-
066F 774 RETADR = OUTADDRESS
0691 775 FAIL_CHECK $$$_CREATED
00000619 8F DD 0691 PUSHL $$$_CREATED
1D36'CF 01 FB 0697 CALLS #1,W^REG_CHECK
0361'CF DF 069C 776 PUSHAL OUTADDRESS ; Push address quad word
FFFFFFFF 8F DD 06A0 777 PUSHL #-1 ; Push start data value
1E89'CF 02 FB 06A6 778 CALLS #2,DATA_CHECK ; Check section data
06AB 779 $DELTVA_S INADR= OUTADDRESS ; Clean up
07 50 E8 06BA 780 BLBS RO,10$ ; Skip error report if OK
50 DD 06BD 781 PUSHL RO ; Save error code
1F15'CF 01 FB 06BF 782 CALLS #1,NONSUB_SSE ; Print the failure
06C4 783 10$:
06C4 784
06C4 785 :+
06C4 786 :
06C4 787 : Create a three page user temporary P1 private local memory read/write section.
06C4 788 :
06C4 789 :-
06C4 790
06C4 791 NEXT_TEST
06C4
0006'CF 12 DO 06C4 STP18:
00 00 DD 06C9 MOVL #18,W^CURRENT_TC
1D2C'CF 01 FB 06CB PUSHL #0
06D0 792 CALLS #1,W^REG_SAVE
0369'CF 7F000000'EF DE 06D0 793 MOVAL ^X7F000000,INADDRESS ; Set P1 address up
036D'CF 7F000000'EF DE 06D9 794 MOVAL ^X7F000000,INADDRESS+4
06E2 795 $CRMPSC_S CHAN = SECFAB+FAB$$_STV,-
06E2 796 FLAGS = #SECSM WRT!SECSM_EXPREG,-
06E2 797 INADR = INADDRESS,-
06E2 798 RETADR = OUTADDRESS
0708 799 FAIL_CHECK $$$_CREATED
00000619 8F DD 0708 PUSHL $$$_CREATED
1D36'CF 01 FB 070E CALLS #1,W^REG_CHECK
0361'CF DF 0713 800 PUSHAL OUTADDRESS ; Push address quad word
FFFFFFFF 8F DD 0717 801 PUSHL #-1 ; Push start data value
1E89'CF 02 FB 071D 802 CALLS #2,DATA_CHECK ; Check section data
07 50 E8 0722 803 $DELTVA_S INADR= OUTADDRESS ; Clean up
50 DD 0734 804 BLBS RO,10$ ; Skip error report if OK
1F15'CF 01 FB 0736 805 PUSHL RO ; Save error code
073B 806 CALLS #1,NONSUB_SSE ; Print the failure
073B 807 10$:
073B 808
073B 809 :+
073B 810 :
073B 811 : Create a two page user temporary P0 private local DZRO read/write section.
073B 812 : INADR is specified in reverse order.
073B 813 :
073B 814 :-
073B 815
073B 816 NEXT_TEST
073B

```

```

0006'CF 13 DO 073B
0000'CF 00 DD 0740
1D2C'CF 01 FB 0742
036D'CF 0600'CF DE 0747 817
0369'CF 09FF'CF DE 074E 818
0755 819
0755 820
0755 821
0755 822
0755 823
0755 824
0779 825
00000619 8F DD 0779
1D36'CF 01 FB 077F
0361'CF DF 0784 826
0000'CF 0400 8F 28 0788 827
1E89'CF 02 FB 078A 828
0365'DF 0000'CF 07 50 EB 078F 829
07 50 DD 0799 830
1F15'CF 01 FB 07A8 831
07 50 DD 07AB 832
01 FB 07AD 833
07B2 834
07B2 835
07B2 836
07B2 837
07B2 838
07B2 839
07B2 840
07B2 841
07B2 842
0006'CF 14 DO 07B2
1D2C'CF 00 DD 07B7
01 FB 07B9
0369'CF 70000000'EF DE 07BE 843
036D'CF 70000000'EF DE 07C7 844
07D0 845
07D0 846
07D0 847
07D0 848
07D0 849
07F6 850
00000619 8F DD 07F6
1D36'CF 01 FB 07FC
0361'CF DF 0801 851
0000'CF 0600 8F 28 0805 852
1E89'CF 02 FB 0807 853
0361'DF 0000'CF 07 50 EB 080C 854
07 50 DD 0816 855
1F15'CF 01 FB 0825 856
07 50 DD 0828 857
01 FB 082A 858
082F 859
082F 860

```

STP19:

```

MOVL #19,W^CURRENT_TC
PUSHL #0
CALLS #1,W^REG_SAVE

MOVAL READ_BUF,INADDRESS+4
MOVAL READ_BUF+<<512*2>-1>,INADDRESS
$CRMPSC_S CHAN = SEC$FAB+FAB$SL_STV,-
        FLAGS = #SEC$M_WRT!SEC$M_DZRO,-
        INADR = INADDRESS,-
        PAGCNT = #2,-
        RETADR = OUTADDRESS
FAIL_CHECK SSS_CREATED
PUSHL #SS$ CREATED
CALLS #1,W^REG_CHECK

PUSHAL OUTADDRESS ; Push address quad word
PUSHL #0 ; Push start data value
CALLS #2,DATA CHECK ; Check section data
MOVCS #<2*512>,WRITE_BUF,@<OUTADDRESS+4> ; Fix 2 DZRO pages
$DELTVA_S INADR = OUTADDRESS ; Clean up
BLBS RO,10$ ; Skip error report if OK
PUSHL RO ; Save error code
CALLS #1,NONSUB_SSE ; Print the failure

```

10\$:

:+  
:  
:  
:-

Create a three page user temporary P1 private local DZRO read/write section.

NEXT\_TEST

STP20:

```

MOVL #20,W^CURRENT_TC
PUSHL #0
CALLS #1,W^REG_SAVE

MOVAL ^X70000000,INADDRESS
MOVAL ^X70000000,INADDRESS+4
$CRMPSC_S CHAN = SEC$FAB+FAB$SL_STV,-
        FLAGS = #SEC$M_WRT!SEC$M_DZRO!SEC$M_EXPREG,-
        INADR = INADDRESS,-
        RETADR = OUTADDRESS
FAIL_CHECK SSS_CREATED
PUSHL #SS$ CREATED
CALLS #1,W^REG_CHECK

PUSHAL OUTADDRESS ; Push address quad word
PUSHL #0 ; Push start data value
CALLS #2,DATA CHECK ; Check section data
MOVCS #<3*512>,WRITE_BUF,@OUTADDRESS ; Fix 3 DZRO pages
$DELTVA_S INADR = OUTADDRESS ; Clean up
BLBS RO,10$ ; Skip error report if OK
PUSHL RO ; Save error code
CALLS #1,NONSUB_SSE ; Print the failure

```

10\$:



```

082F 861 :+
082F 862 :-
082F 863 : Create a three page user temporary P1 private local CRF read/write section.
082F 864 :-
082F 865 :-
082F 866 :-
082F 867
NEXT_TEST
082F
082F STP21:
0006'CF 15 DO 082F MOVL #21,W^CURRENT_TC
1D2C'CF 00 DD 0834 PUSHL #0
01 FB 0836 CALLS #1,W^REG_SAVE
083B 868
083B 869 $CRMPSC_S CHAN = SECFAB+FAB$L STV,-
083B 870 FLAGS = #SECSM WRT!SECSM_CRF!SECSM_EXPREG,-
083B 871 INADR = INADDRESS,-
083B 872 RETADR = OUTADDRESS
0861 873 FAIL_CHECK SSS_CREATED
00000619 8F DD 0861 PUSHL #SS$ CREATED
1D36'CF 01 FB 0867 CALLS #1,W^REG_CHECK
0361'CF DF 086C 874 PUSHAL OUTADDRESS ; Push address quad word
FFFFFFF 8F DD 0870 875 PUSHL #-1 ; Push start data value
1E89'CF 02 FB 0876 876 CALLS #2,DATA_CHECK ; Check section data
07 50 E8 087B 877 $DELTVAS INADR = OUTADDRESS ; Clean up
50 DD 088A 878 BLBS RO,10$ ; Skip error report if OK
1F15'CF 01 FB 088D 879 PUSHL RO ; Save error code
088F 880 CALLS #1,NONSUB_SSE ; Print the failure
0894 881 10$:
0894 882
0894 883 :+
0894 884 :-
0894 885 : Create a two page user temporary P0 private local CRF read/write section.
0894 886 :-
0894 887 :-
0894 888
NEXT_TEST
0894
0894 STP22:
0006'CF 16 DO 0894 MOVL #22,W^CURRENT_TC
1D2C'CF 00 DD 0899 PUSHL #0
01 FB 089B CALLS #1,W^REG_SAVE
08A0 890
0369'CF 0600'CF DE 08A0 891 MOVAL READ_BUF,INADDRESS
036D'CF 0A00'CF DE 08A7 892 MOVAL READ_BUF+<512*2>,INADDRESS+4
08AE 893 $CRMPSC_S CHAN = SECFAB+FAB$L STV,-
08AE 894 FLAGS = #SECSM WRT!SECSM_CRF,-
08AE 895 INADR = INADDRESS,-
08AE 896 PAGCNT = #2,-
08AE 897 RETADR = OUTADDRESS
08D2 898 FAIL_CHECK SSS_CREATED
00000619 8F DD 08D2 PUSHL #SS$ CREATED
1D36'CF 01 FB 08D8 CALLS #1,W^REG_CHECK
0361'CF DF 08DD 899 PUSHAL OUTADDRESS ; Push address quad word
FFFFFFF 8F DD 08E1 900 PUSHL #-1 ; Push start data value
1E89'CF 02 FB 08E7 901 CALLS #2,DATA_CHECK ; Check section data
07 50 E8 08EC 902 $DELTVAS INADR = OUTADDRESS ; Clean up
08FB 903 BLBS RO,10$ ; Skip error report if OK

```

```

1F15'CF 50 DD 08FE 904          PUSHL  R0          ; Save error code
01      FB 0900 905          CALLS  #1,NONSUB_SSE ; Print the failure
          0905 906 10$:
          0905 907
          0905 908 ;+
          0905 909
          0905 910 ; Create a one page (by PAGCNT) user temporary P0 private local CRF
          0905 911 ; read/write section.
          0905 912
          0905 913 :-
          0905 914
          0905 915          NEXT_TEST
          0905
0006'CF 17 DD 0905          STP23:
00      DD 090A          MOVL   #23,W^CURRENT_TC
01      FB 090C          PUSHL  #0
          0911 916          CALLS  #1,W^REG_SAVE
          0911 917          $CRMPSC_S_CHAN = SECFAB+FAB$L_STV,-
          0911 918          - FLAGS = #SECSM_WRT!SECSM_CRF,-
          0911 919          INADR = INADDRESS,-
          0911 920          RETADR = OUTADDRESS,
          0911 921          PAGCNT = #1
          0935 922          FAIL_CHECK SSS_CREATED
          0935 923          PUSHL  #SSS_CREATED
          0938 924          CALLS  #1,W^REG_CHECK
          0940 925          PUSHAL OUTADDRESS          ; Push address quad word
          0944 926          PUSHL  #-1          ; Push start data value
          0944 927          CALLS  #2,DATA_CHECK      ; Check section data
          094F 928          $DELTA_S INADR = OUTADDRESS ; Clean up
          07 50  EB 095E 929          BLBS  R0,10$          ; Skip error report if OK
          50      DD 0961 928          PUSHL  R0          ; Save error code
1F15'CF 01      FB 0963 929          CALLS  #1,NONSUB_SSE ; Print the failure
          0968 930 10$:
          0968 931
          0968 932 ;+
          0968 933
          0968 934 ; Create a three page (by PAGCNT) user temporary P1 private local DZRO
          0968 935 ; read/write section.
          0968 936
          0968 937 :-
          0968 938
          0968 939          NEXT_TEST
          0968
0006'CF 18 DD 0968          STP24:
00      DD 096D          MOVL   #24,W^CURRENT_TC
01      FB 096E          PUSHL  #0
          0974 940          CALLS  #1,W^REG_SAVE
          0974 941          MOVAL  ^X70000000,INADDRESS
          097D 942          MOVAL  ^X70000000,INADDRESS+4
          0986 943          $CRMPSC_S_CHAN = SECFAB+FAB$L_STV,-
          0986 944          - FLAGS = #SECSM_EXPREG!SECSM_WRT!SECSM_DZRO,-
          0986 945          INADR = INADDRESS,-
          0986 946          RETADR = OUTADDRESS,-
          0986 947          PAGCNT = #3
0369'CF 70000000'EF DE 0974 941          MOVAL  ^X70000000,INADDRESS
036D'CF 70000000'EF DE 097D 942          MOVAL  ^X70000000,INADDRESS+4
          0986 943          $CRMPSC_S_CHAN = SECFAB+FAB$L_STV,-
          0986 944          - FLAGS = #SECSM_EXPREG!SECSM_WRT!SECSM_DZRO,-
          0986 945          INADR = INADDRESS,-
          0986 946          RETADR = OUTADDRESS,-
          0986 947          PAGCNT = #3
          09AE 948          FAIL_CHECK SSS_CREATED

```



```

00000619 8F DD 0A68 992 $CRMPSC_S CHAN = SECFAB+FAB$L STV,-
1D36'CF 01 FB 0A68 993 - FLAGS = #SECSM EXPREG,-
0361'CF DF 0A68 994 INADR = INADDRESS,-
FFFFFFFF 8F DD 0A68 995 RETADR = OUTADDRESS,-
1E89'CF 02 FB 0A68 996 PAGCNT = #1,-
07 50 EB 0A68 997 VBN = #1
50 DD 0A90 998 FAIL_CHECK $$$_CREATED
1F15'CF 01 FB 0A90 999 PUSHL #$$$_CREATED
0361'CF DF 0A96 1000 CALLS #1,W^REG_CHECK
FFFFFFFF 8F DD 0A9B 999 PUSHAL OUTADDRESS ; Push address quad word
1E89'CF 02 FB 0A9F 1000 PUSHL #-1 ; Push start data value
07 50 EB 0AA5 1001 CALLS #2,DATA_CHECK ; Check section data
50 DD 0AAA 1002 $DELTVA_S INADR = OUTADDRESS ; Clean up
1F15'CF 01 FB 0AB9 1003 BLBS R0,10$ ; Skip error report if OK
0361'CF DF 0ABC 1004 PUSHL R0 ; Save error code
FFFFFFFF 8F DD 0ABE 1005 CALLS #1,NONSUB_SSE ; Print the failure
1E89'CF 02 FB 0AC3 1006 10$:
07 50 EB 0AC3 1007
50 DD 0AC3 1008 :+
1F15'CF 01 FB 0AC3 1009 : Create a two page VBN 2 user temporary P1 private local read only section.
0361'CF DF 0AC3 1010
FFFFFFFF 8F DD 0AC3 1011 :-
1E89'CF 02 FB 0AC3 1012
07 50 EB 0AC3 1013
50 DD 0AC3 1014
1F15'CF 01 FB 0AC3 1015
0361'CF DF 0AC3 1016
FFFFFFFF 8F DD 0AC8 1017
1E89'CF 02 FB 0ACA 1018
07 50 EB 0ACF 1015 STP27:
50 DD 0ACF 1016 MOVL #27,W^CURRENT_TC
1F15'CF 01 FB 0ACA 1017 PUSHL #0
0361'CF DF 0ACF 1015 CALLS #1,W^REG_SAVE
FFFFFFFF 8F DD 0ACF 1016 MOVAL ^X70000000,INADDRESS
1E89'CF 02 FB 0AD8 1017 MOVAL ^X70000000,INADDRESS+4
07 50 EB 0AE1 1018 $CRMPSC_S CHAN = SECFAB+FAB$L STV,-
50 DD 0AE1 1019 - FLAGS = #SECSM EXPREG,-
1F15'CF 01 FB 0AE1 1020 INADR = INADDRESS,-
0361'CF DF 0AE1 1021 RETADR = OUTADDRESS,-
FFFFFFFF 8F DD 0AE1 1022 PAGCNT = #2,-
1E89'CF 02 FB 0AE1 1023 VBN = #2
07 50 EB 0B09 1024 FAIL_CHECK $$$_CREATED
50 DD 0B09 1025 PUSHL #$$$_CREATED
1F15'CF 01 FB 0B0F 1026 CALLS #1,W^REG_CHECK
0361'CF DF 0B14 1025 PUSHAL OUTADDRESS ; Push address quad word
FFFFFFFF 8F DD 0B18 1026 PUSHL #<-1-128> ; Push start data value
1E89'CF 02 FB 0B1E 1027 CALLS #2,DATA_CHECK ; Check section data
07 50 EB 0B23 1028 $DELTVA_S INADR = OUTADDRESS ; Clean up
50 DD 0B32 1029 BLBS R0,10$ ; Skip error report if OK
1F15'CF 01 FB 0B35 1030 PUSHL R0 ; Save error code
0361'CF DF 0B37 1031 CALLS #1,NONSUB_SSE ; Print the failure
FFFFFFFF 8F DD 0B3C 1032 10$:
1E89'CF 02 FB 0B3C 1033
07 50 EB 0B3C 1034 :+
50 DD 0B3C 1035 : Create a three page VBN 3 user temporary P0 private local read only section.
1F15'CF 01 FB 0B3C 1036
0361'CF DF 0B3C 1037 :-
FFFFFFFF 8F DD 0B3C 1038
1E89'CF 02 FB 0B3C 1039

```



```

0006'CF 1E DO OBF0 STP30:
00 DD OBF0 MOVL #30,W^CURRENT_TC
1D2C'CF 01 FB OBF5 PUSHL #0
OBF7 CALLS #1,W^REG_SAVE
OBF7
000A'CF 01E8'CF DE OBF8 1083
OBF8 1084 MOVAL SM,MODE ; Set the mode ID address
OC03 1085
OC03 1086 :+
OC03 1087 : Create a Executive section
OC03 1088 :
OC03 1089 :-
OC03 1090
OC03 1091
OC03 1092 NEXT_TEST
OC03
OC03 STP31:
0006'CF 1F DO OC03 MOVL #31,W^CURRENT_TC
00 DD OC08 PUSHL #0
1D2C'CF 01 FB OCOA CALLS #1,W^REG_SAVE
OC0F 1093
000A'CF 01F5'CF DE OCOF 1094 MOVAL EM,MODE ; Set the mode ID address
OC16 1095
OC16 1096 :+
OC16 1097 : Create a Kernal section
OC16 1098 :
OC16 1099 :-
OC16 1100
OC16 1101
OC16 1102 NEXT_TEST
OC16
OC16 STP32:
0006'CF 20 DO OC16 MOVL #32,W^CURRENT_TC
00 DD OC1B PUSHL #0
1D2C'CF 01 FB OC1D CALLS #1,W^REG_SAVE
OC22 1103
000A'CF 0206'CF DE OC22 1104 MOVAL KM,MODE ; Set the mode ID address
000A'CF 01DC'CF DE OC29 1105 MOVAL UM,MODE ; Set the mode ID address
OC30 1106
OC30 1107 :+
OC30 1108 : Global section tests
OC30 1109 :
OC30 1110 : 0 length GSDNAM
OC30 1111 :
OC30 1112 :-
OC30 1113
OC30 1114 NEXT_TEST
OC30
OC30 STP33:
0006'CF 21 DO OC30 MOVL #33,W^CURRENT_TC
00 DD OC35 PUSHL #0
1D2C'CF 01 FB OC37 CALLS #1,W^REG_SAVE
OC3C 1115
OC3C 1116 $CRMPSC_S GSDNAM = ZEROSTRING,-
OC3C 1117 INADR = INADDRESS,-
OC3C 1118 CHAN = SECFAB+FAB$$_STV,-
OC3C 1119 FLAGS = #SECSM_GBL

```

```
00000154 8F DD OC5E 1120 FAIL_CHECK SSS_IVLOGNAM
1D36'CF 01 FB OC5E PUSHL #SS$ IVLOGNAM
OC64 CALLS #1,W^REG_CHECK
OC69 1121 :+
OC69 1122 :
OC69 1123 : GSDNAM too long (16 characters)
OC69 1124 :
OC69 1125 :-
OC69 1126
OC69 1127 NEXT_TEST
OC69
OC69 STP34:
0006'CF 22 DO OC69 MOVL #34,W^CURRENT_TC
00 DD OC6E PUSHL #0
1D2C'CF 01 FB OC70 CALLS #1,W^REG_SAVE
OC75 1128
OC75 1129 $CRMPSC_S GSDNAM = TOOLONGSTRING,-
OC75 1130 INADR = INADDRESS,-
OC75 1131 CHAN = SECFAB+FAB$$_STV,-
OC75 1132 FLAGS = #SECSM_GBL
OC97 1133 FAIL_CHECK SSS_IVLOGNAM
00000154 8F DD OC97 PUSHL #SS$ IVLOGNAM
1D36'CF 01 FB OC9D CALLS #1,W^REG_CHECK
OCA2 1134 :+
OCA2 1135 :
OCA2 1136 : GSDNAM address unaccessible
OCA2 1137 :
OCA2 1138 :-
OCA2 1139
OCA2 1140 NEXT_TEST
OCA2
OCA2 STP35:
0006'CF 23 DO OCA2 MOVL #35,W^CURRENT_TC
00 DD OCA7 PUSHL #0
1D2C'CF 01 FB OCA9 CALLS #1,W^REG_SAVE
OCAE 1141
OCAE 1142 $CRMPSC_S GSDNAM = 0,-
OCAE 1143 INADR = INADDRESS,-
OCAE 1144 CHAN = SECFAB+FAB$$_STV,-
OCAE 1145 FLAGS = #SECSM_GBL
OCCE 1146 FAIL_CHECK SSS_ACCVIO
1D36'CF 0C DD OCCE PUSHL #SS$ ACCVIO
01 FB OCD0 CALLS #1,W^REG_CHECK
OCDS 1147 :+
OCDS 1148 :
OCDS 1149 : Test no read access on GSDNAM
OCDS 1150 :
OCDS 1151 :-
OCDS 1152
OCDS 1153 NEXT_TEST
OCDS
OCDS STP36:
0006'CF 24 DO OCDS MOVL #36,W^CURRENT_TC
00 DD OCDA PUSHL #0
1D2C'CF 01 FB OCDC CALLS #1,W^REG_SAVE
OCE1 1154
OCE1 1155 $CRMPSC_S GSDNAM = READ_BUF,-
```

```

OCE1 1156          INADR = INADDRESS,-
OCE1 1157          CHAN = SECFAB+FAB$L_STV,-
OCE1 1158          FLAGS = #SECSM_GBL          ; Try for accvio
OD03 1159          FAIL_CHECK SSS_ACCVIO
OC  DD  OD03
01  FB  OD05          PUSHL #SS$ ACCVIO
1D36'CF          CALLS #1,W^REG_CHECK
OD0A 1160          :+
OD0A 1161          : Test no read access on IDENT
OD0A 1162          :-
OD0A 1163          :-
OD0A 1164          :-
OD0A 1165          :-
OD0A 1166          NEXT_TEST
OD0A
OD0A          STP37:
OD0A          MOVL #37,W^CURRENT_TC
0006'CF 25 DD OD0A
00  DD OD0F          PUSHL #0
1D2C'CF 01 FB OD11          CALLS #1,W^REG_SAVE
OD16 1167
OD16 1168          $CRMPSC_S INADR = OUTADDRESS,-
OD16 1169          CHAN = SECFAB+FAB$L_STV,-
OD16 1170          FLAGS = #SECSM_GBL,-
OD16 1171          GSDNAM = GSDNAM,-
OD16 1172          IDENT = READ_BUF
OD3A 1173          FAIL_CHECK SSS_ACCVIO
OC  DD  OD3A
01  FB  OD3C          PUSHL #SS$ ACCVIO
1D36'CF          CALLS #1,W^REG_CHECK
OD41 1174          :+
OD41 1175          : Test 11 levels of logical name translation error
OD41 1176          :-
OD41 1177          :-
OD41 1178          :-
OD41 1179          :-
OD41 1180          NEXT_TEST
OD41
OD41          STP38:
0006'CF 26 DD OD41          MOVL #38,W^CURRENT_TC
00  DD OD46          PUSHL #0
1D2C'CF 01 FB OD48          CALLS #1,W^REG_SAVE
OD4D 1181
OD4D 1182          PUSHR #^M<R2>          ; Save it's contents
04  BB OD4D          CLRL R2          ; Set index variable
52  D4 OD4F 1183
OD51 1184          10$:
OD51 1185          $CRELOG_S LOGNAM = LOGICAL_NAME,-
OD51 1186          TBLFLG = #2,-
OD51 1187          EQLNAM = EQUIV_NAME          ; Create a level of logical name
07 50 EB OD64 1188          BLBS RO,20$          ; Skip error report if OK
50  DD OD67 1189          PUSHL RO          ; Save error code
1F15'CF 01 FB OD69 1190          CALLS #1,NONSUB_SSE          ; Print the failure
OD6E 1191          20$:
OD6E 1192          INCB NAME_INC1          ; Bump the logical name by one
OD72 1193          INCB NAME_INC2          ; Bump the equiv name by one
D7 52 OB F2 OD76 1194          AOBLS #11,R2,10$          ; Make 11 levels
04  BA OD7A 1195          POPR #^M<R2>          ; Restore it
OD7C 1196          $CRMPSC_S FLAGS = #SECSM_GBL,-
OD7C 1197          INADR = INADDRESS,-
OD7C 1198          CHAN = SECFAB+FAB$L_STV,-

```





```

00000619 8F DD OE61 1242 FAIL_CHECK SSS_CREATED
1D36'CF 01 FB OE61 PUSHL #SS$ CREATED
0369'CF 01 DF OE67 CALLS #1,W^REG_CHECK
FFFFFFFF 8F DD OE6C 1243 PUSHAL INADDRESS
1E89'CF 02 FB OE70 1244 PUSHL #-1
07 50 E8 OE76 1245 CALLS #2,DATA_CHECK ; Check the section data
50 DD OE7B 1246 $DELTVAS INADR = INADDRESS ; Clean up the mess
1F15'CF 01 FB OE7E 1247 BLBS RO,10$ ; Skip error report if OK
OE8A 1248 PUSHL RO ; Save error code
OE8D 1249 CALLS #1,NONSUB_SSE ; Print the failure
OE8F 1249
OE94 1250 10$:
OE94 1251 :+
OE94 1252 :
OE94 1253 : Map to a one page user PRM GBL P0 local memory read only section.
OE94 1254 :
OE94 1255 :-
OE94 1256
OE94 1257 NEXT_TEST
OE94
OE94 STP41:
0006'CF 29 DO OE94 MOVL #41,W^CURRENT_TC
00 00 DD OE99 PUSHL #0
1D2C'CF 01 FB OE9B CALLS #1,W^REG_SAVE
OE9B
0369'CF 00000200 8F CO OEAO 1258 ADDL2 #512,INADDRESS ; Set the P0 address up to
036D'CF 00000200 8F CO OEA9 1259 ADDL2 #512,INADDRESS+4 ; the next buffer page
OEAB 1260 $CRMPSC_S INADR = INADDRESS,-
OEAC 1261 CHAN = SECFAB+FAB$SL_STV,-
OEB2 1262 GSDNAM= GSDNAM,-
OEB2 1263 FLAGS = #SECSM_GBL
OEB2 1264 FAIL_CHECK SSS_NORMAL
OED4 1265 PUSHL #SS$ NORMAL
OED4 1265 CALLS #1,W^REG_CHECK
OED6
1D36'CF 01 DF OEDB 1266 PUSHAL INADDRESS
0369'CF 01 DF OEDB 1267 PUSHL #-1
FFFFFFFF 8F DD JEDF 1267 CALLS #2,DATA_CHECK ; Check the section data
1E89'CF 02 FB OEE5 1268 $DELTVAS INADR = INADDRESS ; Clean up the mess
07 50 E8 OEEA 1269 BLBS RO,10$ ; Skip error report if OK
50 DD OEF9 1270 PUSHL RO ; Save error code
1F15'CF 01 FB OEFE 1271 CALLS #1,NONSUB_SSE ; Print the failure
OF03 1272
OF03 1273 10$:
OF03 1274 $DGBLSC_S GSDNAM = GSDNAM
07 50 E8 OF12 1275 BLBS RO,20$ ; Skip error report if OK
50 DD OF15 1276 PUSHL RO ; Save error code
1F15'CF 01 FB OF17 1277 CALLS #1,NONSUB_SSE ; Print the failure
OF1C 1278 20$:
OF1C 1279
OF1C 1280 :+
OF1C 1281 :
OF1C 1282 : Test negative RELPAG
OF1C 1283 :
OF1C 1284 :-
OF1C 1285
OF1C 1286 NEXT_TEST
OF1C
0006'CF 2A DO OF1C STP42:
OF1C MOVL #42,W^CURRENT_TC

```

```

1D2C'CF 00 DD OF21          PUSHL #0
01 FB OF23          CALLS #1,W^REG_SAVE
          OF28 1287
          OF28 1288      $CRMPSC_S INADR = INADDRESS,-
          OF28 1289      FLAGS = #SEC$M_GBL!SEC$M_EXPREG,-
          OF28 1290      CHAN = SEC$FAB+FB$SL_STV,-
          OF28 1291      GSDNAM = GSD_LOGNAM,-
          OF28 1292      RELPAG = #-1
          OF28 1293      FAIL_CHECK $$$_ENDOFFILE
00000870 8F DD OF52          PUSHL #$$$_ENDOFFILE
1D36'CF 01 FB OF58          CALLS #1,W^REG_CHECK
          OF5D 1294 :+
          OF5D 1295 :+
          OF5D 1296 :+ Test RELPAG too large
          OF5D 1297 :+
          OF5D 1298 :-
          OF5D 1299 :-
          OF5D 1300      NEXT_TEST
          OF5D          STP43:
0006'CF 2B DO OF5D          MOVL #43,W^CURRENT_TC
00 DD OF62          PUSHL #0
1D2C'CF 01 FB OF64          CALLS #1,W^REG_SAVE
          OF69 1301      $CRMPSC_S INADR = INADDRESS,-
          OF69 1302      FLAGS = #SEC$M_GBL!SEC$M_EXPREG,-
          OF69 1303      CHAN = SEC$FAB+FB$SL_STV,-
          OF69 1304      GSDNAM = GSD_LOGNAM,-
          OF69 1305      RELPAG = #5 ; Only a three page section specifie
          OF8F 1306      FAIL_CHECK $$$_ENDOFFILE
00000870 8F DD OF8F          PUSHL #$$$_ENDOFFILE
1D36'CF 01 FB OF95          CALLS #1,W^REG_CHECK
          OF9A 1307 :+
          OF9A 1308 :+
          OF9A 1309 :+ Test the offset definitions and the _G format of the system service.
          OF9A 1310 :+
          OF9A 1311 :-
          OF9A 1312 :-
          OF9A 1313      NEXT_TEST
          OF9A          STP44:
0006'CF 2C DO OF9A          MOVL #44,W^CURRENT_TC
00 DD OF9F          PUSHL #0
1D2C'CF 01 FB OFA1          CALLS #1,W^REG_SAVE
          0040 8F BB OFA6 1314  PUSHR #^M<R6> ; Save the register contents
04 A6 02B6'CF DE OFAA 1315  MOVAL CRMPSCG,R6 ; Save the parameter list address
08 A6 0369'CF DE OFAF 1316  MOVAL INADDRESS,CRMPSC$ INADR(R6) ; Set the parameters up
          0C A6 03  DO OFB3 1318  MOVL #PSL$C_USER,CRMPSC$ ACMODE(R6)
          00020001 8F DO OFBF 1319  MOVL #SEC$M_EXPREG!SEC$M_GBL,-
          10 A6 OFC5 1320  CRMPSC$ FLAGS(R6)
14 A6 0346'CF DE OFC7 1321  MOVAL GSDNAM,CRMPSC$_GSDNAM(R6)
          033E'CF 7C OFCD 1322  CLRQ AN_IDENT
18 A6 033E'CF DE OFD1 1323  MOVAL AN_IDENT,CRMPSC$ IDENT(R6)
          1C A6 01 DO OFD7 1324  MOVL #1,CRMPSC$ RELPAG(R6)
20 A6 160C'CF DO OFDB 1325  MOVL SEC$FAB+FB$SL_STV,CRMPSC$_CHAN(R6)
          24 A6 02 DO OFE1 1326  MOVL #2,CRMPSC$_PAGECNT(R6)
          28 A6 01 DO OFE5 1327  MOVL #1,CRMPSC$_VBN(R6)

```

```

2C A6 00 DO OFE9 1328 MOVL #0,CRMPSC$_PROT(R6)
30 A6 02 DO OFED 1329 MOVL #2,CRMPSC$_PFC(R6)
0040 8F BA OFF1 1330 POPR #^M<R6> ; Restore register
OFF5 1331 $CRMPSC_G CRMPSCG ; Check the status
OFFE 1332 FAIL_CHECK SSS_CREATED
00000619 8F DD OFFE 1333 PUSHL #SS$ CREATED
1D36'CF 01 FB 1004 CALLS #1,W^REG_CHECK ; Check the data
0361'CF DF 1009 1333 PUSHAL OUTADDRESS
FFFFFF7F 8F DD 100D 1334 PUSHL #-<<512/4>+1>
1E89'CF 02 FB 1013 1335 CALLS #2,DATA_CHECK
1018 1336 $DELTVA_S INADR = OUTADDRESS ; Clean up
07 50 E8 1027 1337 BLBS RO,10$ ; Skip error report if OK
50 DD 102A 1338 PUSHL RO ; Save error code
1F15'CF 01 FB 102C 1339 CALLS #1,NONSUB_SSE ; Print the failure
1031 1340 10$:
1031 1341 $DGBLSC_S GSDNAM = GSDNAM
07 50 E8 1040 1342 BLBS RO,20$ ; Skip error report if OK
50 DD 1043 1343 PUSHL RO ; Save error code
1F15'CF 01 FB 1045 1344 CALLS #1,NONSUB_SSE ; Print the failure
104A 1345 20$:
104A 1346 :+
104A 1347 :
104A 1348 : Create a one page PRM GBL read only section in P0.
104A 1349 :
104A 1350 :-
104A 1351
NEXT_TEST
STP45:
0006'CF 2D DO 104A MOVL #45,W^CURRENT_TC
00 DD 104F PUSHL #0
1D2C'CF 01 FB 1051 CALLS #1,W^REG_SAVE
1056 1352
0369'CF 0600'CF DE 1056 1353 MOVAL READ_BUF,INADDRESS ; Set buffer address
036D'CF 07FF'CF DE 105D 1354 MOVAL READ_BUF+511,INADDRESS+4
1064 1355 $CRMPSC_S INADR = INADDRESS,-
1064 1356 CHAN = SECFAB+FAB$$_STV,-
1064 1357 GSDNAM = GSDNAM,-
1064 1358 FLAGS = #SEC$M_GBL!SEC$M_PERM,-
1064 1359 PAGCNT = #2,-
1064 1360 RELPAG = #1 ; Create the section
108C 1361 FAIL_CHECK SSS_CREATED
00000619 8F DD 108C 1362 PUSHL #SS$ CREATED
1D36'CF 01 FB 1092 1363 CALLS #1,W^REG_CHECK
0369'CF DF 1097 1364 PUSHAL INADDRESS ; Push address spec
FFFFFF7F 8F DD 1098 1365 PUSHL #-<<512/4>+1> ; Push expected data pattern
1E89'CF 02 FB 10A1 1366 CALLS #2,DATA_CHECK ; Check the data
10A6 1367 $DELTVA_S INADR = INADDRESS ; Leave section but remove the mappi
07 50 E8 10B5 1368 BLBS RO,10$ ; Check the status return
50 DD 10B8 1369 PUSHL RO ; Push the error code
1F15'CF 01 FB 10BA 1370 CALLS #1,NONSUB_SSE ; Report the failure
10BF 1371 10$:
023A'CF 0041'CF DE 10BF 1370 MOVAL MGBLSC,SERV_NAME ; Set the new service name
10C6 1371 $MGBLSC_S GSDNAM = GSDNAM,-
10C6 1372 INADR = INADDRESS ; Remap to the permanent global sect
10DF 1373 FAIL_CHECK SSS_NORMAL ; Check the status
1D36'CF 01 DD 10DF PUSHL #SS$ NORMAL
01 FB 10E1 CALLS #1,W^REG_CHECK

```

```

0369'CF DF 10E6 1374 PUSHAL INADDRESS ; Push the address specifier
FFFFFFFF 8F DD 10EA 1375 PUSHL #-1 ; Push the data pattern specifier
1E89'CF 02 FB 10F0 1376 CALLS #2,DATA_CHECK ; Check the data
07 50 E8 1104 1377 $DELTVA_S INADR = INADDRESS ; Delete the mapping
50 DD 1107 1378 BLBS RO,20$ ; Check the status return
1F15'CF 01 FB 1109 1379 PUSHL RO ; Push the error code
023A'CF 003A'CF DE 110E 1380 CALLS #1,NONSUB_SSE ; Report the failure
110E 1381 20$:
110E 1382 MOVAL DGBLSC,SERV_NAME ; Set the new service name
1115 1383 $DGBLSC S GSDNAM = GSDNAM ; Delete the section
1124 1384 FAIL_CHECK SSS_NORMAL ; Check the status
1124 1385 MOVAL CRMPSC,SERV_NAME ; Set the new service name
1126 1386 :+
1126 1387 : Create a one page temp system global read only section in P1 space.
1132 1388 :-
1132 1389 :
1132 1390 :
1132 1391 :
1132 1392 NEXT_TEST
1132 1393 STP46:
1132 1394 MOVL #46,W^CURRENT_TC
1137 1395 PUSHL #0
1139 1396 CALLS #1,W^REG_SAVE
113E 1397
113E 1398 INSV #1,#PRVSV_SYSGBL,#1,PRIV_MASK ; Set SYSGBL priv. bit
1145 1399 INSV #1,#PRVSV_SYSNAM,#1,PRIV_MASK ; Set SYSNAM priv. bit
114C 1400 $SETPRV_S ENBFLG = #1,-
114C 1401 PRVADR = PRIV_MASK ; Get the SYSGBL and SYSNAM priv
115D 1402 MOVAL ^X70000000,INADDRESS ; Set a P1 space address
1166 1403 MOVL INADDRESS,INADDRESS+4
116D 1404 $CRMPSC_S INADR = INADDRESS,-
116D 1405 RETADR = OUTADDRESS,-
116D 1406 CHAN = SECFAB+FAB$L_STV,-
116D 1407 GSDNAM = GSDNAM,-
116D 1408 FLAGS = #SECSM_GBL!SECSM_SYSGBL!SECSM_EXPREG,-
116D 1409 PAGCNT = #2,-
116D 1410 RELPAG = #1 ; Create the section
1197 1411 FAIL_CHECK SSS_CREATED
1197 1412 PUSHL #SS$ CREATED
119D 1413 CALLS #1,W^REG_CHECK
11A2 1414 PUSHAL OUTADDRESS ; Push address spec
11A6 1415 PUSHL #-<<512/4>>+1> ; Push expected data pattern
11AC 1416 CALLS #2,DATA_CHECK ; Check the data
11B1 1417 $DELTVA_S INADR = OUTADDRESS ; Leave section but remove the mappi
07 50 E8 11C0 1418 BLBS RO,10$ ; Check the status return
50 DD 11C3 1419 PUSHL RO ; Push the error code
1F15'CF 01 FB 11C5 1420 CALLS #1,NONSUB_SSE ; Report the failure
11CA 1421 10$:
11CA 1422 :+
11CA 1423 : Create a one page perm system global read only section in P0.
11CA 1424 :-
11CA 1425 :
11CA 1426 :
11CA 1427 :
11CA 1428 :
11CA 1429 :
11CA 1430 NEXT_TEST
11CA 1431

```

```

0006'CF 2F DO 11CA
1D2C'CF 01 DD 11CF
0369'CF 0600'CF DE 11D6 1421
036D'CF 07FF'CF DE 11DD 1422
11E4 1423
11E4 1424
11E4 1425
11E4 1426
11E4 1427
11E4 1428
11E4 1429
120C 1430
00000619 8F DD 120C
1D36'CF 01 FB 1212
0369'CF DF 1217 1431
FFFFFF7F 8F DD 121B 1432
1E89'CF 02 FB 1221 1433
07 50 E8 1226 1434
50 DD 1235 1435
1F15'CF 01 FB 1238 1436
123A 1437
123F 1438
023A'CF 0041'CF DE 123F 1439
1246 1440
1246 1441
1246 1442
1263 1443
1D36'CF 01 DD 1263
0369'CF DF 1265
FFFFFFF 8F DD 126A 1444
1E89'CF 02 FB 1274 1446
07 50 E8 1279 1447
50 DD 1288 1448
1F15'CF 01 FB 128B 1449
128D 1450
023A'CF 003A'CF DE 1292 1451
1292 1452
1299 1453
1299 1454
12AC 1455
1D36'CF 01 DD 12AC
023A'CF 0033'CF DE 12AE
12B3 1456
12BA 1457
12BA 1458
12BA 1459
12BA 1460
12BA 1461
12BA 1462
12BA 1463
12BA 1464
0006'CF 30 DO 12BA

```

STP47:

```

MOVL #47,W^CURRENT_TC
PUSHL #0
CALLS #1,W^REG_SAVE

MOVAL READ_BUF,INADDRESS ; Set buffer address
MOVAL READ_BUF+511,INADDRESS+4
$CRMPSC_S INADR = INADDRESS,-
CHAN = SECFAB+FAB$$_STV,-
GSDNAM = GSDNAM,-
FLAGS = #SECSM_GBL!SECSM_PERM!SECSM_SYSGBL,-
PAGCNT = #2,-
RELPAQ = #1 ; Create the section
FAIL_CHECK $$$_CREATED
PUSHL #$$$_CREATED
CALLS #1,W^REG_CHECK
PUSHAL INADDRESS ; Push address spec
PUSHL #-<<512/4>>+1 ; Push expected data pattern
CALLS #2,DATA_CHECK ; Check the data
$DELTVA_S INADR = INADDRESS ; Leave section but remove the mappi
BLBS _R0,10$ ; Check the status return
PUSHL _R0 ; Push the error code
CALLS #1,NONSUB_SSE ; Report the failure

10$:
MOVAL MGBLSC,SERV_NAME ; Set the new service name
$MGBLSC_S GSDNAM = GSDNAM,-
FLAGS = #SECSM_SYSGBL,-
INADR = INADDRESS ; Remap to the permanent global sect
FAIL_CHECK $$$_NORMAL ; Check the status
PUSHL #$$$_NORMAL
CALLS #1,W^REG_CHECK
PUSHAL INADDRESS ; Push the address specifier
PUSHL #-1 ; Push the data pattern specifier
CALLS #2,DATA_CHECK ; Check the data
$DELTVA_S INADR = INADDRESS ; Delete the mapping
BLBS _R0,20$ ; Check the status return
PUSHL _R0 ; Push the error code
CALLS #1,NONSUB_SSE ; Report the failure

20$:
MOVAL DGBLSC,SERV_NAME ; Set the new service name
$DGBLSC_S GSDNAM = GSDNAM,-
FLAGS = #SECSM_SYSGBL
FAIL_CHECK $$$_NORMAL ; Delete the section
PUSHL #$$$_NORMAL ; Check the status
CALLS #1,W^REG_CHECK
MOVAL CRMPSC,SERV_NAME ; Set the new service name

```

PFNMAP tests

Create a one page temp local memory P0 PFNMAP section

NEXT\_TEST

STP48:

MOVL #48,W^CURRENT\_TC

```

1D2C'CF 00 DD 12BF
01 FB 12C1
0355'CF 01 1A 01 FO 12C6 1465
0355'CF 01 0C 01 FO 12C6 1466
0355'CF 01 01 01 FO 12CD 1467
FO 12D4 1468
12DB 1469
12DB 1470
0369'CF 0000'CF DE 12EC 1471
036D'CF 01FF'CF DE 12F3 1472
12FA 1473
1309 1474
0039 31 1316 1475
1319 1476 10$:
55 00000000'9F 003C 1319 1477
53 00C8 C5 DE 1322 1479
52 0000'CF DE 1327 1480
51 52 15 09 EF 132C 1481
50 50 00 B341 DO 1331 1482
50 50 15 00 EF 1336 1483
50 00000000'GF D1 133B 1484
05 1E 1342 1485
50 14 DO 1344 1486
08 11 1347 1487
1349 1488 12$:
035D'CF 50 DO 1349 1489
50 01 DO 134E 1490
1351 1491 14$:
04 1351 1492
1352 1493 20$:
OD 50 E8 1352 1494
009E'CF DF 1355 1495
1D9A'CF 01 FB 1359 1496
1504'CF 17 135E 1497
1362 1498 25$:
0369'CF 0600'CF DE 1362 1499
036D'CF 07FF'CF DE 1369 1500
1370 1501
1370 1502
1370 1503
1370 1504
1396 1505
00000619 8F DD 1396
1D36'CF 01 FB 139C
0369'CF DF 13A1 1506
FFFFFFF 8F DD 13A5 1507
1E89'CF 02 FB 13AB 1508
13B0 1509
07 50 E8 13BF 1510
50 DD 13C2 1511
1F15'CF 01 FB 13C4 1512
13C9 1513 30$:
13C9 1514
13C9 1515 ;+
13C9 1516
13C9 1517 ; Create a one page PERM local memory GBL P1 PFNMAP section

PUSHL #0
CALLS #1,W*REG_SAVE

INSV #1,#PRVSV_PFNMAP,#1,PRIV_MASK ; Set PFNMAP bit
INSV #1,#PRVSV_PSWAPM,#1,PRIV_MASK ; Set PSWAPM bit
INSV #1,#PRVSV_CMEEXEC,#1,PRIV_MASK ; Set CMEEXEC bit
$SETPRV_S ENBFLG = #1, - ; Get the PFNMAP, PSWAPM and
PRVADR = PRIV_MASK ; CMEEXEC privilege
MOVAL WRITE_BUF,INADDRESS ; Set up INADR
MOVAL WRITE_BUF+511,INADDRESS+4
$LOCKPAGE_S INADR = INADDRESS ; Keep the target still
$CMEEXEC_S ROUTIN = 10$ ; Get the physical address
BRW -20$

.WORD ^M<R2,R3,R4,R5>
MOVL @#CTL$GL_PHD,R5 ; Set up Process Header Address
MOVAL PHD$ _POBR(R5),R3 ; Get base register address
MOVAL WRITE_BUF,R2 ; Set up virtual address
EXTZV #VASV_VPN,#VASS_VPN,R2,R1 ; Extract the virtual page number
MOVL @(R3)[R1],R0 ; Get the page table entry
EXTZV #PTESV_PFN,#PTESS_PFN,R0,R0 ; Get the page frame number
CMLP G^MMG$GL_MAXPFN,R0 ; Can this be right?
BGEQU 12$ ; BR if it is right
MOVL #SS$_BADPARAM,R0 ; Signal a bad return from the exec
BRB 14$ ; and bail out of EXEC

MOVL R0,VBN ; Save the good PFN
MOVL #SS$_NORMAL,R0 ; Clean exit

RET

BLBS R0,25$ ; BR if the PFN was aquired OK
PUSHAL BAD_PFN ; Report error message
CALLS #1,PRINT_FAIL
JMP NO_PFN_TEST ; Skip PFN testing

MOVAL READ_BUF,INADDRESS ; Set up INADR
MOVAL READ_BUF+511,INADDRESS+4
$CRMPSC_S INADR = INADDRESS,-
FLAGS = #SEC$M_PFNMAP,-
VBN = VBN,-
PAGECNT = #1
FAIL_CHECK SS$_CREATED ; Check the status return
PUSHL #SS$_CREATED
CALLS #1,W*REG_CHECK

PUSHAL INADDRESS ; Push address of data
PUSHL #-1 ; Push data pattern indicator
CALLS #2,DATA_CHECK ; Check the data
$DELTVAS_S INADR = INADDRESS ; Delete the section
BLBS R0,30$ ; Check the status return
PUSHL R0 ; Push the error code
CALLS #1,NONSUB_SSE ; Report the failure

```

```

13C9 1518 :-
13C9 1519 :-
13C9 1520 NEXT_TEST
13C9
13C9 STP49:
0006'CF 31 DO 13C9 MOVL #49,W^CURRENT_TC
DD 13CE PUSHL #0
1D2C'CF 01 FB 13D0 CALLS #1,W^REG_SAVE
13D5 1521
0369'CF 70000000'EF DE 13D5 MOVAL ^X70000000,INADDRESS ; Set up INADR
036D'CF 70000000'EF DE 13DE MOVAL ^X70000000,INADDRESS+4
13E7 1524 $CRMPSC_S INADR = INADDRESS,-
13E7 1525 RETADR = OUTADDRESS,-
13E7 1526 FLAGS = #SEC$M_PFNMAP!SEC$M_GBL.SEC$M_EXPREG!SEC$M_PERM,-
13E7 1527 GSDNAM = GSDNAM,-
13E7 1528 VBN = VBN,-
13E7 1529 PAGCNT = #1
1411 1530 FAIL_CHECK $$$_CREATED ; Check the status return
00000619 8F DD 1411 PUSHL #$$$_CREATED
1D36'CF 01 FB 1417 CALLS #1,W^REG_CHECK
0361'CF DF 141C 1531 PUSHAL OUTADDRESS ; Push address of data
FFFFFFFF 8F DD 1420 1532 PUSHL #-1 ; Push data pattern indicator
1E89'CF 02 FB 1426 1533 CALLS #2,DATA_CHECK ; Check the data
07 50 EB 142B 1534 $DELTV_A_S INADR = OUTADDRESS ; Delete the section
50 DD 143D 1535 BLBS R0,10$ ; Check the status return
1F15'CF 01 FB 143F 1536 PUSHL R0 ; Push the error code
023A'CF 003A'CF DE 1444 1537 CALLS #1,NONSUB_SSE ; Report the failure
1444 1538 10$:
1444 1539 MOVAL DGBLSC,SERV_NAME ; Set the new service name
144B 1540 $DGBLSC_S GSDNAM = GSDNAM ; Delete the section
145A 1541 FAIL_CHECK $$$_NORMAL ; Check the status
145A DD 145A PUSHL #$$$_NORMAL
1D36'CF 01 FB 145C CALLS #1,W^REG_CHECK
023A'CF 0033'CF DE 1461 1542 MOVAL CRMPSC,SERV_NAME ; Set the new service name
1468 1543
1468 1544 :+
1468 1545 :- Create a one page PERM local memory SYSTEM P1 PFNMAP section
1468 1546 :-
1468 1547 :-
1468 1548 :-
1468 1549 NEXT_TEST
1468
1468 STP50:
0006'CF 32 DO 1468 MOVL #50,W^CURRENT_TC
DD 146D PUSHL #0
1D2C'CF 01 FB 146F CALLS #1,W^REG_SAVE
1474 1550
0369'CF 70000000'EF DE 1474 MOVAL ^X70000000,INADDRESS ; Set up INADR
036D'CF 70000000'EF DE 147D MOVAL ^X70000000,INADDRESS+4
1486 1553 $CRMPSC_S INADR = INADDRESS,-
1486 1554 RETADR = OUTADDRESS,-
1486 1555 FLAGS = #SEC$M_PFNMAP!SEC$M_SYSGBL!SEC$M_EXPREG!SEC$M_PERM SEC$M_G
1486 1556 GSDNAM = GSDNAM,-
1486 1557 VBN = VBN,-
1486 1558 PAGCNT = #1
00000619 8F DD 1480 1559 FAIL_CHECK $$$_CREATED ; Check the status return
1480 1559 PUSHL #$$$_CREATED

```



1D36'CF	01	FB	14B6		CALLS	#1,W^REG_CHECK		
	0361	CF	DF	14BB	1560	PUSHAL	OUTADDRESS	; Push address of data
FFFFFFF	8F	DD	14BF	1561	PUSHL	#-1		; Push data pattern indicator
1E89'CF	02	FB	14C5	1562	CALLS	#2,DATA_CHECK		; Check the data
			14CA	1563	\$DELTV	S INADR = OUTADDRESS		; Delete the section
	07	50	EB	14D9	1564	BLBS	RO,10\$	; Check the status return
		50	DL	14DC	1565	PUSHL	RO	; Push the error code
1F15'CF	01	FB	14DE	1566	CALLS	#1,NONSUB_SSE		; Report the failure
023A'CF	003A'CF	DE	14E3	1568	10\$:	MOVAL	DGBLSC,SERV_NAME	; Set the new service name
			14E7	1569		\$DGBLSC_S	GSDNAM = GSDNAM,-	
			14EA	1570			FLAGS = #SEC\$M_SYSGBL	; Delete the section
			14FD	1571		FAIL_CHECK	SS\$ NORMAL	; Check the status
	01	DD	14FD			PUSHL	#SS\$ NORMAL	
1D36'CF	01	FB	14FF			CALLS	#1,W^REG_CHECK	
			1504	1572				
			1504	1573	NO_PFN_TEST:			
			1504	1574				
023A'CF	0033'CF	DE	1504	1575		MOVAL	CRMPSC,SERV_NAME	; Set the new service name

```

150B 1577 .SBTTL *MGBLSC TESTS
150B 1578 :+
150B 1579 :
150B 1580 : $MGBLSC tests
150B 1581 :
150B 1582 : Few steps exist in this section because the system code to create and map
150B 1583 : a section is the same code used for $MGBLSC. Only the MGBLSC unique parts
150B 1584 : are tested.
150B 1585 :
150B 1586 : Test simplest case
150B 1587 :
150B 1588 : Create the simplest section. One page, user, temporary, P0, global, local memory,
150B 1589 : read only section. This will be used as a target section to map to by the
150B 1590 : $MGBLSC.
150B 1591 :
150B 1592 :-
150B 1593
150B 1594 NEXT_TEST

150B STP51:
0006'CF 33 DD 1508 MOVL #51,W^CURRENT_TC
1D2C'CF 00 DD 1510 PUSHL #0
1D2C'CF 01 FB 1512 CALLS #1,W^REG_SAVE
1517 1595
0369'CF 0600'CF DE 1517 1596 MOVAL READ_BUF,INADDRESS ; Set up inadr
036D'CF 0800'CF DE 151E 1597 MOVAL READ_BUF+512,INADDRESS+4
1525 1598 $CRMPSC_S INADR = INADDRESS,-
1525 1599 CHAN = SECFAB+FAB$$_STV,-
1525 1600 GSDNAM= GSDNAM,-
1525 1601 FLAGS = #SECSM_GBL ; Create a target section
1547 1602 FAIL_CHECK $$$_CREATED
1547 PUSHL #$$$_CREATED
154D CALLS #1,W^REG_CHECK
1552 1603 PUSHAL INADDRESS
1556 1604 PUSHL #-1
155C 1605 CALLS #2,DATA_CHECK ; Check the section data
000A'CF 01DC'CF DE 1561 1606 MOVAL UM,MODE ; Set the mode
023A'CF 0041'CF DE 1568 1607 MOVAL MGBLSC,SERV_NAME ; Set the service name
0800 8F 00 0E00'CF 00 2C 156F 1608 MOVCS #0,READ_BUF1,#0,#512*4,READ_BUF1 ; Init the second read buffer
0E00'CF 00
1578
1D2C'CF 01 FB 157B 1609 PUSHL #0 ; Push the argument
0369'CF 0E00'CF DE 157D 1610 CALLS #1,REG_SAVE ; Save the register contents
036D'CF 1000'CF DE 1582 1611 MOVAL READ_BUF1,INADDRESS ; Set the P0 address up
1589 1612 MOVAL READ_BUF1+512,INADDRESS+4
1590 1613 $MGBLSC_S GSDNAM = GSDNAM,-
1590 1614 INADR = INADDRESS
15A9 1615 FAIL_CHECK $$$_NORMAL
15A9 PUSHL #$$$_NORMAL
15AB CALLS #1,W^REG_CHECK
15B0 1616 PUSHAL INADDRESS
15B4 1617 PUSHL #-1
15BA 1618 CALLS #2,DATA_CHECK ; Check the section data
15BF 1619 $DELTVAS INADR = INADDRESS ; Clean up
07 50 EB 15CE 1620 BLBS -R0,10$ ; Skip error report if OK
50 DD 15D1 1621 PUSHL R0 ; Save error code
1F15'CF 01 FB 15D3 1622 CALLS #1,NONSUB_SSE ; Print the failure
15D8 1623 10$:

```

```

15D8 1624
15D8 1625 :+
15D8 1626 :
15D8 1627 : test mapping to a non-existent global section.
15D8 1628 :
15D8 1629 :-
15D8 1630
15D8 1631      NEXT_TEST
15D8
15D8      STP52:
0006'CF 34 DO 15D8      MOVL    #52,W^CURRENT_TC
          00 DD 15DD      PUSHL   #0
1D2C'CF 01 FB 15DF      CALLS   #1,W^REG_SAVE
15E4 1632
034A'DF 4C 8F 90 15E4 1633      MOVB    #^A/L/,@<GSDNAM+4>      ; futs up the name
          15EA 1634      $MGBLSC_S GSDNAM = GSDNAM,-
          15EA 1635      INADR = INADDRESS
1603 1636      FAIL_CHECK SSS_NOSUCHSEC
          1603 1603      PUSHL   #SS$NOSUCHSEC
          1609 1609      CALLS   #1,W^REG_CHECK
00000978 8F DD 160E 1637      MOVB    #^A/S/,@<GSDNAM+4>      ; Fix up the name
1D36'CF 01 FB 1609
034A'DF 53 8F 90 1614 1638
          1614 1639 :+
          1614 1640 :
          1614 1641 : Test match control > SEC$K_MATLEQ
          1614 1642 :
          1614 1643 :-
          1614 1644
          1614 1645      NEXT_TEST
1614
1614      STP53:
0006'CF 35 DO 1614      MOVL    #53,W^CURRENT_TC
          00 DD 1619      PUSHL   #0
1D2C'CF 01 FB 161B      CALLS   #1,W^REG_SAVE
1620 1646
          1620 1647      $MGBLSC_S INADR = INADDRESS,-
          1620 1648      GSDNAM = GSDNAM,-
          1620 1649      IDENT = AN_ILLÉGAL_IDENT
000002E4 8F DD 163B 1650      FAIL_CHECK SSS_IVSECTDCTL
1D36'CF 01 FB 1641      PUSHL   #SS$IVSECTDCTL
          1646 1651      CALLS   #1,W^REG_CHECK
          1646 1652 :+
          1646 1653 :
          1646 1654 : Test match control SEC$K_MATEQU
          1646 1655 :
          1646 1656 :-
          1646 1657
          1646 1658      NEXT_TEST
1646
1646      STP54:
0006'CF 36 DO 1646      MOVL    #54,W^CURRENT_TC
          00 DD 164B      PUSHL   #0
1D2C'CF 01 FB 164D      CALLS   #1,W^REG_SAVE
023A'CF 003A'CF DE 1652 1659      MOVAL   DGBLSC,SERV_NAME      ; Set the service name
          1652 1660      $DGBLSC_S GSDNAM = GSDNAM      ; Delete old global section
          1659 1661

```

```

1668 1662 FAIL_CHECK SSS_NORMAL
1668 PUSHL #SS$ NORMAL
166A CALLS #1,W*REG_CHECK
166F 1663 MOVAL READ_BUF,INADDRESS ; Set up inadr
1676 1664 MOVAL READ_BUF+512,INADDRESS+4
167D 1665 $DELTVAS INADR = INADDRESS
168C 1666 BLBS RO,10$ ; Skip error report if OK
168F 1667 PUSHL RO ; Save error code
1691 1668 CALLS #1,NONSUB_SSE ; Print the failure
1696 1669 10$:
1696 1670 MOVL #^X8080000,AN_IDENT+4 ; Set up an ident of MSB in
169F 1671 MOVAL CRMPSC,SERV_NAME ; Set the service name
16A6 1672 $CRMPSC_S INADR = INADDRESS,-
16A6 1673 CHAN = SECFAB+FAB$$_STV,-
16A6 1674 GSDNAM= GSDNAM,-
16A6 1675 IDENT = AN_IDENT,-
16A6 1676 FLAGS = #SEC$M_GBL ; Create a target section with
16CA 1677 ; an ident specified
16CA 1678 FAIL_CHECK SSS_CREATED
16CA PUSHL #SS$ CREATED
16D0 CALLS #1,W*REG_CHECK
16D5 1679 PUSHAL INADDRESS
16D9 1680 PUSHL #-1
16DF 1681 CALLS #2,DATA_CHECK ; Check the section data
16E4 1682 MOVAL MGBLSC,SERV_NAME ; Set the service name
16EB 1683 MOVAL READ_BUF1,INADDRESS ; Set the PO address up
16F2 1684 MOVAL READ_BUF1+512,INADDRESS+4
16F9 1685 MOVL #SEC$K_MATEQL,AN_IDENT ; Set the match criteria
16FE 1686 $MGBLSC_S GSDNAM = GSDNAM,-
16FE 1687 IDENT = AN_IDENT,-
16FE 1688 INADR = INADDRESS
1719 1689 FAIL_CHECK SSS_NORMAL
1719 PUSHL #SS$ NORMAL
171B CALLS #1,W*REG_CHECK
1720 1690 PUSHAL INADDRESS
1724 1691 PUSHL #-1
172A 1692 CALLS #2,DATA_CHECK ; Check the section data
172F 1693 $DELTVAS INADR = INADDRESS ; Clean up
173E 1694 BLBS RO,20$ ; Skip error report if OK
1741 1695 PUSHL RO ; Save error code
1743 1696 CALLS #1,NONSUB_SSE ; Print the failure
1748 1697 20$:
1748 1698
1748 1699 :+
1748 1700 :
1748 1701 : Test match control SEC$K_MATEQL failure to map cause of minor ident mismatch.
1748 1702 :
1748 1703 :-
1748 1704
1748 1705
NEXT_TEST
1748
1748 STP55:
1748 MOVL #55,W^CURRENT_TC
174D PUSHL #0
174F CALLS #1,W^REG_SAVE
1754 1706 MOVL #^X8040000,AN_IDENT+4 ; Set up an ident with minor mismatch
1754 1707

```

```

175D 1708 $MGBLSC_S INADR = INADDRESS,-
175D 1709 GSDNAM = GSDNAM,-
175D 1710 IDENT = AN IDENT
1778 1711 FAIL_CHECK SSS_NOSUCHSEC
00000978 8F DD 1778 PUSHL #SS$ NOSUCHSEC
1D36'CF 01 FB 177E CALLS #1,W^REG_CHECK
1783 1712
1783 1713 :+
1783 1714 :
1783 1715 : Test match control SECSK_MATEQL failure to map cause of major ident mismatch.
1783 1716 :
1783 1717 :-
1783 1718
1783 1719 NEXT_TEST
1783
1783 STP56:
0006'CF 38 DO 1783 MOVL #56,W^CURRENT_TC
1D2C'CF 00 DD 1788 PUSHL #0
1D2C'CF 01 FB 178A CALLS #1,W^REG_SAVE
0342'CF 04080000 8F DO 178F 1720 MOVL #^X4080000,AN_IDENT+4 ; Set up an ident with major
178F 1721 ; ident less
1798 1722 $MGBLSC_S INADR = INADDRESS,-
1798 1723 GSDNAM = GSDNAM,-
1798 1724 IDENT = AN IDENT
1798 1725 FAIL_CHECK SSS_NOSUCHSEC
00000978 8F DD 1783 PUSHL #SS$ NOSUCHSEC
1D36'CF 01 FB 1789 CALLS #1,W^REG_CHECK
178E 1727
178E 1728 :+
178E 1729 :
178E 1730 : Test match control SECSK_MATLEQ map with minor ident <.
178E 1731 :
178E 1732 :-
178E 1733
178E 1734 NEXT_TEST
178E
178E STP57:
0006'CF 39 DO 178E MOVL #57,W^CURRENT_TC
1D2C'CF 00 DD 17C3 PUSHL #0
1D2C'CF 01 FB 17C5 CALLS #1,W^REG_SAVE
0342'CF 033E'CF 02 DO 17CA 1735 MOVL #SECSK_MATLEQ,AN_IDENT ; Set the match criteria
0803FFFF 8F DO 17CF 1736 MOVL #^X803FFFF,AN_IDENT+4 ; Set up an ident with minor
17D8 1737 ; ident less
17D8 1738 $MGBLSC_S INADR = INADDRESS,-
17D8 1739 GSDNAM = GSDNAM,-
17D8 1740 IDENT = AN IDENT
17F3 1741 FAIL_CHECK SSS_NORMAL
1D36'CF 01 DD 17F3 PUSHL #SS$ NORMAL
0369'CF 01 FB 17F5 CALLS #1,W^REG_CHECK
FFFFFFF 8F DD 17FE 1743 PUSHAL INADDRESS
1E89'CF 02 FB 1804 1744 PUSHL #-1 ; Check the section data
07 50 E8 1809 1746 $DELTVA S INADR = INADDRESS ; Clean up
50 DD 1818 1747 BLBS -R0,10$ ; Skip error report if OK
181B 1748 PUSHL R0 ; Save error code

```

```

1F15'CF 01 FB 181D 1749          CALLS #1,NONSUB_SSE          ; Print the failure
1822 1750 10$:
1822 1751
1822 1752 :+
1822 1753 :-
1822 1754 : Test ma^ch control SEC$K_MATLEQ map with minor ident =.
1822 1755 :-
1822 1756 :-
1822 1757 :-
1822 1758          NEXT_TEST
1822
0006'CF 3A DO 1822          STP58:
00          DD 1827          MOVL #58,W^CURRENT_TC
1D2C'CF 01 FB 1829          PUSHL #0
182E 1759          CALLS #1,W^REG_SAVE
0342'CF 08040000 8F DO 182E 1760          MOVL #^X8040000,AN_IDENT+4          ; Set up an ident with minor
1837 1761          ; ident equal
1837 1762          $MGBLSC_S INADR = INADDRESS,-
1837 1763          GSDNAM = GSDNAM,-
1837 1764          IDENT = AN_IDENT
1852 1765          FAIL_CHECK SSS_NORMAL
1852          DD 1852          PUSHL #SS$ NORMAL
1D36'CF 01 FB 1854          CALLS #1,W^REG_CHECK
0369'CF 01 DF 1859 1766          PUSHAL INADDRESS
FFFFFFFF 8F DD 185D 1767          PUSHL #-1
1E89'CF 02 FB 1863 1768          CALLS #2,DATA_CHECK          ; Check the section data
07 50 E8 1868 1769          $DELTA_S INADR = INADDRESS          ; Clean up
07 50 DD 187A 1770          BLBS R0,10$          ; Skip error report if OK
1F15'CF 01 FB 187C 1772          PUSHL R0          ; Save error code
1881 1773 10$:          CALLS #1,NONSUB_SSE          ; Print the failure
1881 1774 :+
1881 1775 :-
1881 1776 : Test the offset definitions and the _G format of the system service.
1881 1777 :-
1881 1778 :-
1881 1779 :-
1881 1780          NEXT_TEST
1881
0006'CF 3B DO 1881          STP59:
00          DD 1886          MOVL #59,W^CURRENT_TC
1D2C'CF 01 FB 1888          PUSHL #0
0040 8F BB 188D 1781          CALLS #1,W^REG_SAVE
56 02EA'CF DE 1891 1782          PUSHR #^M<R6>          ; Save the register contents
04 A6 0369'CF DE 1896 1783          MOVAL MGBLSCG,R6          ; Save the parameter list address
08 A6 0361'CF DE 189C 1784          MOVAL INADDRESS,MGBLSC$ INADR(R6)          ; Set the parameters up
0C A6 03          DO 18A2 1785          MOVAL OUTADDRESS,MGBLSC$ RETADR(R6)
01          DO 18A6 1786          MOVL #PSL$C_USER,MGBLSC$_ACMODE(R6)
10 A6          DO 18A8 1787          MOVL #SEC$M_GBL,-
14 A6 0346'CF DE 18AA 1788          MGBLSC$ FLAGS(R6)
18 A6 033E'CF DE 18B0 1789          MOVAL GSDNAM,MGBLSC$ GSDNAM(R6)
1C A6 01          DO 18B6 1790          MOVAL AN_IDENT,MGBLSC$ IDENT(R6)
0040 8F BA 18BA 1791          MOVL #1,MGBLSC$_RELPAG(R6)
18BE 1792          POPR #^M<R6>          ; Restore register
18C7 1793          $MGBLSC G MGBLSCG
          FAIL_CHECK SSS_NORMAL          ; Check the status

```

```

1D36'CF 01 DD 18C7          PUSHL  #SS$ NORMAL
0369'CF 01 FB 18C9          CALLS  #1,W^REG_CHECK
FFFFFFFF7F 8F DD 18CE 1794    PUSHAL INADDRESS          ; Check the data
1E89'CF 02 FB 18D2 1795    PUSHL  #<-1-128>
07 50 E8 18D8 1796    CALLS  #2,DATA_CHECK
1F15'CF 01 FB 18DD 1797    $DELTV S INADR= INADDRESS ; Clean up
07 50 E8 18EC 1798    BLBS  _RO,10$             ; Skip error report if OK
1F15'CF 01 DD 18EF 1799    PUSHL  RO                 ; Save error code
01 FB 18F1 1800    CALLS  #1,NONSUB_SSE      ; Print the failure
18F6 1801 10$:
18F6 1802
18F6 1803 :+
18F6 1804 : Create a Supervisor section
18F6 1805 :-
18F6 1806
18F6 1807
18F6 1808
18F6 1809
NEXT_TEST
18F6
STP60:
0006'CF 3C DD 18F6          MOVL  #60,W^CURRENT_TC
1D2C'CF 00 DD 18FB          PUSHL  #0
01 FB 18FD          CALLS  #1,W^REG_SAVE
000A'CF 01E8'CF DE 1902 1810    MOVAL  SM,MODE           ; Set the mode ID address
1909 1811
1909 1812 :+
1909 1813 : Create a Executive section
1909 1814 :-
1909 1815
1909 1816
1909 1817
1909 1818
1909 1819
NEXT_TEST
1909
STP61:
0006'CF 3D DD 1909          MOVL  #61,W^CURRENT_TC
1D2C'CF 00 DD 190E          PUSHL  #0
01 FB 1910          CALLS  #1,W^REG_SAVE
000A'CF 01F5'CF DE 1915 1820    MOVAL  EM,MODE           ; Set the mode ID address
1915 1821
191C 1822 :+
191C 1823 : Create a Kernal section
191C 1824 :-
191C 1825
191C 1826
191C 1827
191C 1828
191C 1829
NEXT_TEST
191C
STP62:
0006'CF 3E DD 191C          MOVL  #62,W^CURRENT_TC
1D2C'CF 00 DD 1921          PUSHL  #0
01 FB 1923          CALLS  #1,W^REG_SAVE
000A'CF 0206'CF DE 1928 1830    MOVAL  KM,MODE           ; Set the mode ID address
023A'CF 003A'CF DE 192F 1831    MOVAL  DGBLSC,SERV_NAME ; Set the service name
1936 1832    $DGBLSC_S GSDNAM = GSDNAM ; Clean up the mess
1936 1833

```

		DD	1945	1834
		FB	1945	
		DE	1947	
1D36'CF	01	DE	194C	1835
0369'CF	0600'CF	DE	1953	1836
036D'CF	0800'CF	DE	195A	1837
	07 50	EB	1969	1838
	50	DD	196C	1839
1F15'CF	01	FB	196E	1840
			1973	1841 10\$:

```

FAIL_CHECK SSS_NORMAL
PUSHL #SS$ NORMAL
CALLS #1,W*REG CHECK
MOVAL READ_BUF,INADDRESS
MOVAL READ_BUF+512,INADDRESS+4
$DELTVAS INADR = INADDRESS
BLBS RO,10$
PUSHL RO
CALLS #1,NONSUB_SSE

```

```

; Check the status
; Set up inadr
; Skip error report if OK
; Save error code
; Print the failure

```



```

1973 1843 .SBTTL UPDSEC TESTS
1973 1844 :+
1973 1845 : $UPDSEC tests
1973 1846 :
1973 1847 :
1973 1848 : Test simplest case SSS_NOTMODIFIED
1973 1849 :
1973 1850 :-
1973 1851
1973 1852 NEXT_TEST
1973
1973 STP63:
0006'CF 3F DD 1973 MOVL #63,W^CURRENT_TC
1D2C'CF 00 DD 1978 PUSHL #0
197A FB 197A CALLS #1,W^REG_SAVE
197F 1853
000A'CF 01DC'CF DE 197F 1854 MOVAL UM,MODE ; Set the mode
023A'CF 0033'CF DE 1986 1855 MOVAL CRMPSC,SERV_NAME ; Set the service name
0369'CF 0600'CF DE 198D 1856 MOVAL READ_BUF,INADDRESS ; Set the map limits
036D'CF 0BFF'CF DE 1994 1857 MOVAL READ_BUF+<512*3>-1,INADDRESS+4
199B 1858 $CRMPSC_S CHAN = SECFAB+FAB$L_STV,-
199B 1859 FLAGS = #SECSM_WRT,-
199B 1860 INADR = INADDRESS,-
199B 1861 RETADR = OUTADDRESS,-
199B 1862 PAGCNT = #3
19BF 1863 FAIL_CHECK SSS_CREATED
00000619 8F DD 19BF 1864 PUSHL #SS$ CREATED
1D36'CF 01 FB 19C5 1865 CALLS #1,W^REG_CHECK
023A'CF 0048'CF DE 19FA 1864 MOVAL UPDSEC,SERV_NAME ; Set the service name
19D1 1865 $UPDSEC_S INADR = INADDRESS,-
19D1 1866 RETADR = OUTADDRESS,-
19D1 1867 UPDFLG = #0
19E8 1868 FAIL_CHECK SSS_NOTMODIFIED
00000659 8F DD 19E8 1868 PUSHL #SS$ NOTMODIFIED
1D36'CF 01 FB 19EE
19F3 1869 :+
19F3 1870 :
19F3 1871 : Test EFN with page modification
19F3 1872 :
19F3 1873 :-
19F3 1874
19F3 NEXT_TEST
19F3
19F3 STP64:
0006'CF 00000040 8F DD 19F3 1875 MOVL #64,W^CURRENT_TC
1D2C'CF 00 DD 19FC 1876 PUSHL #0
0800'CF 01 FB 19FE 1877 CALLS #1,W^REG_SAVE
1A03 1875 CLRL READ_BUF + 512 ; Modify a page
1A03 1876 $UPDSEC_S INADR = INADDRESS,-
1A07 1877 RETADR = OUTADDRESS,-
1A07 1878 UPDFLG = #0,-
1A07 1879 EFN = #1,-
1A07 1880 IOSB = UPD_IOSB
1A07 1881 FAIL_CHECK SSS_NORMAL
1A22 1882 PUSHL #SS$ NORMAL
1D36'CF 01 DD 1A22 1883 CALLS #1,W^REG_CHECK
2E 50 E9 1A29 1883 BLBC R0,10$ ; Skip wait if failure occurred

```

50	02AE'CF	3C	1A2C	1884	\$WAITFR_S EFN = #1	; Wait for I/O complete
			1A35	1885	MOVZWL UPD_IOSB,RO	; Get the return status code
			1A3A	1886	FAIL_CHECK SSS_NORMAL	
	01	DD	1A3A		PUSHL #SS\$ NORMAL	
1D36'CF	01	FB	1A3C		CALLS #1,W*REG_CHECK	
	07	E8	1A41	1887	\$DELIVA_S INADR = INADDRESS	; Unmap the section
	50		1A50	1888	BLBS RO,10\$	; Skip error report if OK
	50	DD	1A53	1889	PUSHL RO	; Save error code
1F15'CF	01	FB	1A55	1890	CALLS #1,NONSUB_SSE	; Print the failure
			1A5A	1891		
023A'CF	0033'CF	DE	1A5A	1892	MOVAL CRMPSC,SERV_NAME	; Set the service name
			1A61	1893	\$CRMPSC_S CHAN = SECFAB+FAB\$L_STV,-	; Remap the section
			1A61	1894	FLAGS = #SECSM WRT,-	
			1A61	1895	INADR = INADDRESS,-	
			1A61	1896	PAGCNT = #3	
			1A83	1897	FAIL_CHECK SSS_CREATED	
	00000619	8F	1A83		PUSHL #SS\$ CREATED	
1D36'CF	01	FB	1A89		CALLS #1,W*REG_CHECK	
023A'CF	0048'CF	DE	1A8E	1898	MOVAL UPDSEC,SERV_NAME	; Set the service name
	0800'CF	D5	1A95	1899	TSTL READ_BUF + 512	; Check for the modification
	09	13	1A99	1900	BEQL 20\$	
	006C'CF	DF	1A9B	1901	PUSHAL UPDSEC FAILED	; Push the failure message
1D9A'CF	01	FB	1A9F	1902	CALLS #1,PRINT_FAIL	; And print it
			1AA4	1903		
			1AA4	1904		
			1AA4	1905		
			1AA4	1906		
			1AA4	1907		
			1AA4	1908		
			1AA4	1909		
			1AA4			
			1AA4			
			1AA4			
0006'CF	00000041	8F	1AA4		MOVL #65,W^CURRENT_TC	
	00	DD	1AAD		PUSHL #0	
1D2C'CF	01	FB	1AAF		CALLS #1,W^REG_SAVE	
			1AB4	1910		
0800'CF	FFFFFF7F	8F	1AB4	1911	MOVL #<-1-128>,READ_BUF+512	; Modify a page
			1ABD	1912	\$SETAST_S ENBFLG = #0	; Disable AST's for error checking
			1AC6	1913	\$UPDSEC_S INADR = INADDRESS,-	
			1AC6	1914	RETADR = OUTADDRESS,-	
			1AC6	1915	UPDFLG = #0,-	
			1AC6	1916	EFN = #1,-	
			1AC6	1917	ASTADR = 20\$,-	
			1AC6	1918	ASTPRM = #3,-	
			1AC6	1919	IOSB = UPD_IOSB	
			1AE5	1920	FAIL_CHECK SSS_NORMAL	
	01	DD	1AE5		PUSHL #SS\$ NORMAL	
1D36'CF	01	FB	1AE7		CALLS #1,W*REG_CHECK	
			1AEC	1921	\$SETAST_S ENBFLG = #1	; OK checking done go ahead and AST
	03	E8	1AF5	1922	BLBS RO,10\$	; Skip to wait if no failure occurred
	00A2	31	1AF8	1923	BRW 50\$	; Else skip the wait
			1AFB	1924		
			1AFB	1925		
	0098	31	1B02	1926	\$HIBER_S	; Wait for AST
			1B05	1927	BRW 50\$	; Skip over AST routine
			1B05	1928		
	00	OFFC	1B05	1928	.WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>	
		DD	1B07	1929	PUSHL #0	; Push a dummy parameter

```

1D2C'CF 01 FB 1B09 1930 CALLS #1,REG_SAVE ; Save the registers
03 04 AC D1 1B0E 1931 CMPL 4(AP),#3 ; Did the parameter get here?
0E 13 1B12 1932 BEQL 30$ ; BR if yes
04 AC DD 1B14 1933 PUSHL 4(AP) ; Push received
03 DD 1B17 1934 PUSHL #3 ; Push expected
0289'CF DF 1B19 1935 PUSHAL DATA ; Push string address
1D9A'CF 03 FB 1B1D 1936 CALLS #3,PRINT_FAIL ; Report the failure
1B22 1937 30$:
50 02AE'CF 3C 1B22 1938 MOVZWL UPD_IOSB,R0 ; Get the return status code
1B27 1939 FAIL_CHECK $$$_NORMAL
01 DD 1B27 PUSHL #$$$_NORMAL
1D36'CF 01 FB 1B29 CALLS #1,W^REG_CHECK
1B2E 1940 $DELTVAS INADR = INADDRESS ; Unmap the section
07 50 E8 1B3D 1941 BLBS -R0,40$ ; Skip error report if OK
50 DD 1B40 1942 PUSHL R0 ; Save error code
1F15'CF 01 FB 1B42 1943 CALLS #1,NONSUB_SSE ; Print the failure
1B47 1944 40$:
023A'CF 0033'CF DE 1B47 1945 MOVAL CRMPSC,SERV_NAME ; Set the service name
1B4E 1946 $CRMPSC_S CHAN = SEC$FAB+FAB$L_STV,- ; Remap the section
1B4E 1947 FLAGS = #SEC$M_WRT,-
1B4E 1948 INADR = INADDRESS,-
1B4E 1949 PAGCNT = #3
1B70 1950 FAIL_CHECK $$$_CREATED
00000619 8F DD 1B70 PUSHL #$$$_CREATED
1D36'CF 01 FB 1B76 CALLS #1,W^REG_CHECK
023A'CF 0048'CF DE 1B7B 1951 MOVAL UPDSEC,SERV_NAME ; Set the service name
0369'CF DF 1B82 1952 PUSHAL INADDRESS ; Check the data
FFFFFFF 8F DD 1B86 1953 PUSHL #-1
1E89'CF 02 FB 1B8C 1954 CALLS #2,DATA_CHECK
1B91 1955 $WAKE_S ; Carry on
04 1B9C 1956 RET
1B9D 1957 50$:
1B9D 1958 :+
1B9D 1959 :
1B9D 1960 : Test the offset definitions and the _G format of the system service.
1B9D 1961 :
1B9D 1962 :-
1B9D 1963
1B9D 1964
NEXT_TEST
0006'CF 00000042 8F DO 1B9D STP66:
00 DD 1BA6 MOVL #66,W^CURRENT_TC
1D2C'CF 01 FB 1BA8 PUSHL #0
0040 8F BB 1BAD 1965 CALLS #1,W^REG_SAVE ; Save the register contents
56 031A'CF DE 1BB1 1966 MOVAL UPDSECG,R6 ; Save the parameter list address
0600'CF FFFFFFFF 8F DO 1BB6 1967 MOVL #-1,READ_BUF ; Modify a page
04 A6 0369'CF DE 1BBF 1968 MOVAL INADDRESS,UPDSEC$ INADR(R6) ; Set the parameters up
08 A6 0361'CF DE 1BC5 1969 MOVAL OUTADDRESS,UPDSEC$ RETADR(R6)
0C A6 03 DO 1BCB 1970 MOVL #PSL$C_USER,UPDSEC$ ACMODE(R6)
10 A6 01 DO 1BCF 1971 MOVL #1,UPDSEC$ UPDFLG(R6)
14 A6 01 DO 1BD3 1972 MOVL #EFN1,UPDSEC$ EFN(R6)
18 A6 02AE'CF DE 1BD7 1973 MOVAL UPD_IOSB,UPDSEC$ IOSB(R6)
1C A6 1C21'CF DE 1BDD 1974 MOVAL 20$-UPDSEC$ ASTADR(R6)
20 A6 00000064 8F DO 1BE3 1975 MOVL #100,UPDSEC$_ASTPRM(R6)
0040 8F BA 1BEB 1976 POPR #^M<R6> ; Restore register
1BEF 1977 $SETAST_S ENBFLG = #0 ; Disable AST's for fail check

```

```

1BF8 1978 $UPDSEC_G UPDSECG
1C01 1979 FAIL_CHECK SSS_NORMAL ; Check the status
1D36'CF 01 DD 1C01 PUSHL #SS$ NORMAL
01 FB 1C03 CALLS #1,W^REG_CHECK ; OK done checking go ahead and AST
03 50 E8 1C08 1980 $SETAST_S ENBFLG = #1 ; BR if service request OK...
004F 31 1C11 1981 BLBS RO,10$ ; ...else skip the I/O wait
1C14 1982 BRW 50$
1C17 1983 10$: $HIBER_S ; Wait for I/O complete
1C17 1984 BRW 50$ ; Skip the AST routine
0045 31 1C1E 1985
1C21 1986 20$: .WORD 0 ; AST entry point for $UPDSEC
0000 DD 1C23 1988 PUSHL #0 ; Push a dummy argument
1D2C'CF 01 FB 1C25 1989 CALLS #1,REG_SAVE ; Save the register contents
00000064 8F 04 AC D1 1C2A 1990 CMPL 4(AP),#100 ; Correct AST parmeter?
12 13 1C32 1991 BEQL 30$ ; BR if OK
04 AC DD 1C34 1992 PUSHL 4(AP) ; Push received
00000064 8F DD 1C37 1993 PUSHL #100 ; Push expected
0289'CF DF 1C3D 1994 PUSHAL DATA ; Push string address
1D9A'CF 03 FB 1C41 1995 CALLS #3,PRINT_FAIL ; Report the failure
1C46 1996 30$: BLBS UPD_IOSB,40$ ; Check IO status returned
OF 02AE'CF EB 1C46 1997 PUSHL UPD_IOSB ; Push received
02AE'CF DD 1C4B 1998 PUSHL #SS$ NORMAL ; Push expected
01 DD 1C4F 1999 PUSHAL STATUS ; Push string address
0295'CF DF 1C51 2000 CALLS #3,PRINT_FAIL ; Report the failure
1D9A'CF 03 FB 1C55 2001
1C5A 2002 40$: $WAKE_S ; Exit the HIBER
04 1C5A 2003 RET
1C65 2004 50$: $DELTV_A_S INADR = INADDRESS ; Delete the address space
1C66 2005 BLBS RO,60$ ; Skip error report if OK
07 50 E8 1C75 2007 PUSHL RO ; Save error code
1F15'CF 50 DD 1C78 2008 CALLS #1,NONSUB_SSE ; Print the failure
01 FB 1C7A 2009
1C7F 2010 60$:
1C7F 2011 :+
1C7F 2012 :+
1C7F 2013 :+
1C7F 2014 :+ Create a Supervisor section
1C7F 2015 :+
1C7F 2016 :-
1C7F 2017 :-
1C7F 2018
NEXT_TEST
0006'CF 00000043 8F DO 1C7F STP67:
00 DD 1C88 MOVL #67,W^CURRENT_TC
1D2C'CF 01 FB 1C8A PUSHL #0
1C8F 2019 CALLS #1,W^REG_SAVE
000A'CF 01E8'CF DE 1C8F 2020 MOVAL SM,MODE ; Set the mode ID address
1C96 2021
1C96 2022 :+
1C96 2023 :+
1C96 2024 :+ Create a Executive section
1C96 2025 :+
1C96 2026 :-
1C96 2027

```





```

1D2C 2064 .SBTTL REG_SAVE
1D2C 2065 :++
1D2C 2066 : FUNCTIONAL DESCRIPTION:
1D2C 2067 : Subroutine to save R2-R11 in the register save location.
1D2C 2068 :
1D2C 2069 : CALLING SEQUENCE:
1D2C 2070 : PUSHL #0 ; save a dummy parameter
1D2C 2071 : CALLS #1,W^REG_SAVE ; save R2-R11
1D2C 2072 :
1D2C 2073 : INPUT PARAMETERS:
1D2C 2074 : NONE
1D2C 2075 :
1D2C 2076 : OUTPUT PARAMETERS:
1D2C 2077 : NONE
1D2C 2078 :
1D2C 2079 :--
1D2C 2080
1D2C 2081 REG_SAVE:
023E'CF 14 AD 28 OFFC 1D2C 2082 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
28 1D2E 2083 MOVCL3 #4*10,^X14(FP),W^REG_SAVE_AREA ; save the registers in the program
04 1D35 2084 RET

```

U  
P  
C  
S  
P  
A  
T  
T  
M

```

1D36 2086 .SBTTL REG_CHECK
1D36 2087 :++
1D36 2088 : FUNCTIONAL DESCRIPTION:
1D36 2089 : Subroutine to test R0 & R2-R11 for proper content after a service
1D36 2090 : execution. A snapshot is taken by the REG_SAVE routine at the
1D36 2091 : beginning of each step and this routine is executed after the
1D36 2092 : services have been executed.
1D36 2093 :
1D36 2094 : CALLING SEQUENCE:
1D36 2095 : PUSHL #SS$ XXXXXX ; push expected R0 contents
1D36 2096 : CALLS #1,W^REG_CHECK ; execute this routine
1D36 2097 :
1D36 2098 : INPUT PARAMETERS:
1D36 2099 : expected R0 contents on the stack
1D36 2100 :
1D36 2101 : OUTPUT PARAMETERS:
1D36 2102 : possible error messages printed using $PUTMSG
1D36 2103 :
1D36 2104 :--
1D36 2105 :

```

```

1D36 2106 REG_CHECK:
1D36 2107 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
1D38 2108 CMPL 4(AP),R0 ; is this the right fail code?
1D3C 2109 BEQL 10$ ; br if yes
1D3E 2110 PUSHL R0 ; push received data
1D40 2111 PUSHL 4(AP) ; push expected data
1D43 2112 PUSHAL W^EXP ; push the string variable
1D47 2113 CALLS #3,W^PRINT_FAIL ; print the error message
1D4C 2114 MOVAL W^TEST_MOD_FAIL,W^TMD_ADDR ; set failure message address
1D53 2115 INSV #ERROR,#0,#3,W^MOD_MSG_CODE ; set severity code
1D5A 2116 10$:
1D5A 2117 CMPC3 #4*10,^X14(FP),W^REG_SAVE_AREA ; check all but R0
1D61 2118 BEQL 20$ ; br if O.K.
1D63 2119 SUBL3 #REG_SAVE_AREA,R3,R6 ; calculate the register number
1D6B 2120 DIVL2 #4,R6
1D6E 2121 ADDB3 #^X2,R6,W^REGNUM ; put it in the string
1D74 2122 BICL2 #3,R1 ; backup to register boundrys
1D77 2123 BICL2 #3,R3
1D7A 2124 PUSHL W^REGNUM ; push register number
1D7E 2125 PUSHL (R1) ; push received data
1D80 2126 PUSHL (R3) ; push expected data
1D82 2127 PUSHAL W^REG ; set string ptr param.
1D86 2128 CALLS #4,W^PRINT_FAIL ; print the error message
1D8B 2129 MOVAL W^TEST_MOD_FAIL,W^TMD_ADDR ; set failure message address
1D92 2130 INSV #ERROR,#0,#3,W^MOD_MSG_CODE ; set severity code
1D99 2131 20$:
1D99 2132 RET

```

```

OFFC
50 04 AC D1
1C 13
50 DD
04 AC DD
0214'CF DF
1D9A'CF 03 FB
0282'CF 002C'CF DE
027A'CF 03 00 02 FO
023E'CF 14 AD 28 29
36 13
56 53 0000023E'8F C3
56 04 C6
000E'CF 56 02 81
51 03 CA
53 03 CA
000E'CF DD
61 DD
63 DD
0268'CF DF
1D9A'CF 04 FB
0282'CF 002C'CF DE
027A'CF 03 00 02 FO
04

```



```

1D9A 2134 .SBTTL PRINT_FAIL
1D9A 2135 :++
1D9A 2136 : FUNCTIONAL DESCRIPTION:
1D9A 2137 : Subroutine to report failures using $PUTMSG
1D9A 2138 :
1D9A 2139 : CALLING SEQUENCE:
1D9A 2140 : Mode #1 PUSHL EXPECTED Mode #2 PUSHL REG NUMBER
1D9A 2141 : PUSHL RECEIVED PUSHL EXPECTED
1D9A 2142 : PUSHAL STRING VAR PUSHAL RECEIVED
1D9A 2143 : CALLS #3,W^PRINT_FAIL PUSHAL STRING VAR
1D9A 2144 : CALLS #4,W^PRINT_FAIL
1D9A 2145 : Mode #3 PUSHAL STRING VAR
1D9A 2146 : CALLS #1,W^PRINT_FAIL
1D9A 2147 :
1D9A 2148 : INPUT PARAMETERS:
1D9A 2149 : Listed above
1D9A 2150 :
1D9A 2151 : OUTPUT PARAMETERS:
1D9A 2152 : an error message is printed using $PUTMSG
1D9A 2153 :
1D9A 2154 :--
1D9A 2155
003C 1D9A 2156 PRINT_FAIL:
1D9A 2157 .WORD ^M<R2,R3,R4,R5>
1D9C 2158 $FAO_S CTRSTR = CS1,-
1D9C 2159 OUTLEN = MESSAGEL,-
1D9C 2160 OUTBUF = MSGL,-
1D9C 2161 P1 = #TEST_MOD_NAME,-
1D9C 2162 P2 = SERV_NAME,-
1D9C 2163 P3 = CURRENT_TC
1DBD 2164 $PUTMSG_S MSGVEC = MSGVEC ; print the message
04 6C 91 1DCE 2165 CMPB (AP),#4 ; is this a register message?
01 26 13 1DD1 2166 BEQL 10$ ; br if yes
01 6C 91 1DD3 2167 CMPB (AP),#1 ; is this just a message?
01 48 13 1DD6 2168 BEQL 20$ ; br if yes
1DD8 2169 $FAO_S CTRSTR = CS2,-
1DD8 2170 OUTLEN = MESSAGEL,-
1DD8 2171 OUTBUF = MSGL,-
1DD8 2172 P1 = 4(AP),-
1DD8 2173 P2 = 8(AP),-
1DD8 2174 P3 = 4(AP),-
1DD8 2175 P4 = 12(AP)
40 11 1DF7 2176 BRB 30$ ; goto output message
1DF9 2177 10$:
1DF9 2178 $FAO_S CTRSTR = CS3,-
1DF9 2179 OUTLEN = MESSAGEL,-
1DF9 2180 OUTBUF = MSGL,-
1DF9 2181 P1 = 4(AP),-
1DF9 2182 P2 = 16(AP),-
1DF9 2183 P3 = 8(AP),-
1DF9 2184 P4 = 4(AP),-
1DF9 2185 P5 = 16(AP),-
1DF9 2186 P6 = 12(AP)
19 11 1E1E 2187 BRB 30$ ; goto output message
029A'CF 04 AC D0 1E20 2188 20$:
1E20 2189 MOVL 4(AP),MSGVEC1+12 ; save string address
1E26 2190 $PUTMSG_S MSGVEC = MSGVEC1 ; print the message

```

UETSSMM00  
V04-000

VAX/VMS UETP SYSTEM SERVICE TEST L 13  
PRINT\_FAIL

16-SEP-1984 01:09:23  
5-SEP-1984 04:36:18

VAX/VMS Macro V04-00 Page 55  
[UETPSY.SRC]UETSSMM00.MAR;1 (9)

		11	11	1E37	2191		BRB	40\$		; skip the other message
				1E39	2192	30\$:				
				1E39	2193		\$PUTMSG_S	MSGVEC = MSGVEC		; print the message
				1E4A	2194	40\$:				
	1E5E'CF	00	FB	1E4A	2195		CALLS	#0,MODE_ID		; identify the mode
0282'CF	002C'CF		DE	1E4F	2196		MOVAL	TEST MOD_FAIL,TMD_ADDR		; set failure message address
027A'CF	03	00	FO	1E56	2197		INSV	#ERROR,#0,#3,MOD_MSG_CODE		; set severity code
			04	1E5D	2198		RET			

```
1E5E 2200 .SBTTL MODE_ID
1E5E 2201 :++
1E5E 2202 : FUNCTIONAL DESCRIPTION:
1E5E 2203 : Subroutine to identify the mode that an exit handler is in.
1E5E 2204 :
1E5E 2205 : CALLING SEQUENCE:
1E5E 2206 : CALLS #0,W^MODE_ID
1E5E 2207 :
1E5E 2208 : INPUT PARAMETERS:
1E5E 2209 : MODE contains an address pointing to an ascii string desc.
1E5E 2210 : of the current CPU mode.
1E5E 2211 :
1E5E 2212 : OUTPUT PARAMETERS:
1E5E 2213 : NONE
1E5E 2214 :
1E5E 2215 :--
1E5E 2216 :
003C 1E5E 2217 MODE_ID:
1E60 2218 .WORD ^M<R2,R3,R4,R5>
1E60 2219 $FAO_S CTRSTR = CS$,-
1E60 2220 OUTLEN = MESSAGEL,-
1E60 2221 OUTBUF = MSGL,-
1E60 2222 P1 = MODE ; format the error message
1E77 2223 $PUTMSG_S MSGVEC = MSGVEC ; print the mode message
04 1E88 2224 RET
```

```

1E89 2226 .SBTTL DATA_CHECK
1E89 2227 :++
1E89 2228 : FUNCTIONAL DESCRIPTION:
1E89 2229 : Routine to check the data pattern used in the sections.
1E89 2230 :
1E89 2231 : CALLING SEQUENCE:
1E89 2232 : PUSHAL INADR
1E89 2233 : PUSHL FIRST VALUE
1E89 2234 : CALLS #2,DATA_CHECK
1E89 2235 :
1E89 2236 : INPUT PARAMETERS:
1E89 2237 : 8(AP) = A quad word containing the first address and the last address
1E89 2238 : of the buffer to be checked.
1E89 2239 : 4(AP) = First value which should be stored in the buffer. If this value
1E89 2240 : is non-zero the data pattern is assumed to be a decrementing
1E89 2241 : longword count pattern. If it is zero the data is assumed to
1E89 2242 : be DZRO.
1E89 2243 :
1E89 2244 : IMPLICIT INPUTS:
1E89 2245 : NONE
1E89 2246 :
1E89 2247 : OUTPUT PARAMETERS:
1E89 2248 : NONE
1E89 2249 :
1E89 2250 : IMPLICIT OUTPUTS:
1E89 2251 : NONE
1E89 2252 :
1E89 2253 : COMPLETION CODES:
1E89 2254 : R0 = $$$ NORMAL if data was correct.
1E89 2255 : R0 = 0 if data was incorrect.
1E89 2256 :
1E89 2257 : SIDE EFFECTS:
1E89 2258 : Error message is printed if a failure occurred.
1E89 2259 :
1E89 2260 :--
1E89 2261 :
1E89 2262 DATA_CHECK:
1E89 2263 .WORD *M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; Entry mask
53 08 AC DO 1E8B 2264 MOVL 8(AP),R3 ; Get the address of the address quadword
54 04 A3 DO 1E8F 2265 MOVL 4(R3),R4 ; Get the ending address
53 53 63 DO 1E93 2266 MOVL (R3),R3 ; Get the starting address
54 53 D1 1E96 2267 CML R3,R4 ; Which order are the address in
55 09 15 1E99 2268 BLEQ 10$ ; Br if inorder or equal
53 53 DO 1E9B 2269 MOVL R3,R5 ; Otherwise swap them around
53 54 DO 1E9E 2270 MOVL R4,R3 ; To get the right end data
54 55 DO 1EA1 2271 MOVL R5,R4
1EA4 2272 10$:
0286'CF 53 DO 1EA4 2273 MOVL R3,START_ADDRESS ; Save the lower address
52 04 AC DO 1EA9 2274 MOVL 4(AP),R2 ; Get the starting data value
1B 13 1EAD 2275 BEQL 30$ ; BR if data pattern of zero
55 54 53 C3 1EAF 2276 SUBL3 R3,R4,R5 ; Calculate the byte difference
55 55 04 C6 1EB3 2277 DIVL2 #4,R5 ; Calculate the longword difference
55 52 55 C3 1EB6 2278 SUBL3 R5,R2,R5 ; Subtract the start value bias
1EBA 2279 20$:
52 83 D1 1EBA 2280 CML (R3)+,R2 ; Check the data
16 12 1EBD 2281 BNEQ 40$ ; Br if data is bad
52 D7 1EBF 2282 DECL R2 ; Do all of the longwords

```

```

55 52 D1 1EC1 2283      CMPL R2,R5      ; All done?
    F4 12 1EC4 2284      BNEQ 20$      ; BR if not
50 01 D0 1EC6 2285      MOVL #SS$_NORMAL,R0 ; Set success status if OK
    04 1EC9 2286      RET
    1ECA 2287 30$:
00 83 D1 1ECA 2288      CMPL (R3)+,#0   ; Check for zeroed data
    06 12 1ECD 2289      BNEQ 40$      ; BR if bad
54 53 D1 1ECF 2290      CMPL R3,R4     ; End of data to check?
    F6 19 1ED2 2291      BLSS 30$      ; BR if not
    04 1ED4 2292
    1ED5 2293 40$:
    FC A3 DD 1ED5 2294      PUSHL -4(R3)   ; Push bad data value
    52 DD 1ED8 2295      PUSHL R2       ; Push good data value
0289'CF DF 1EDA 2296      PUSHAL DATA   ; Push failure type name
53 FEB7 CF 03 FB 1EDE 2297      CALLS #3,PRINT FAIL ; Report the failure
53 53 0286'CF C3 1EE3 2298      SUBL3 START_ADDRESS,R3,R3 ; Get the buffer offset
    53 04 C2 1EE9 2299      SUBL2 #4,R3   ; Compensate for auto inc
    1EEC 2300      $FAO_S CTRSTR = CS4,-
    1EEC 2301      OUTLEN = MESSAGEL,-
    1EEC 2302      OUTBUF = MSGL,-
    1EEC 2303      P1 = R3 ; format the error message
    50 D4 1F01 2304      $PUTMSG,S MSGVEC = MSGVEC ; print the offset message
    04 1F12 2305      CLRL R0 ; Set failure return
    1F14 2306      RET
    1F15 2307

```

PSI  
---  
\$PI  
\$GI  
\$OI  
\$CO  
YFI  
MSI  
MSI  
MSI  
MSI

```

1F15 2309 .SBTTL NONSUB_SSE
1F15 2310 :++
1F15 2311 : FUNCTIONAL DESCRIPTION:
1F15 2312 : Subroutine to report the failure of a system service which is not the
1F15 2313 : subject system service
1F15 2314 :
1F15 2315 : CALLING SEQUENCE:
1F15 2316 : PUSHL R0 ; Save the failure status
1F15 2317 : CALLS #1,NONSUB_SSE ; Print the failure message
1F15 2318 :
1F15 2319 : INPUT PARAMETERS:
1F15 2320 : 4(AP) = Status code of failing system service
1F15 2321 :
1F15 2322 : OUTPUT PARAMETERS:
1F15 2323 : NONE
1F15 2324 :
1F15 2325 :--
1F15 2326
1F15 2327 NONSUB_SSE:
OFFC 1F15 2328 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
1F17 2329 $GETMSG_S MSGID = 4(AP),-
1F17 2330 MSGLEN = BUFFER_PTR,-
1F17 2331 BUFADR = BUFFER_PTR,-
1F17 2332 FLAGS = #1 ; Get just the text of the message
1F2D 2333 $FAO_S CTRSTR = NSSSF,-
1F2D 2334 OUTLEN = MESSAGE1L,-
1F2D 2335 OUTBUF = MSG1L,-
1F2D 2336 P1 = #BUFFER_PTR ; Format the failure message
0379'CF 0100 8F B0 1F46 2337 MOVW #TEXT_BUFFER,BUFFER_PTR ; Reset the descriptor length
0232'CF DF 1F4D 2338 PUSHAL MESSAGE1L ; Push the string address
FE44 CF 01 FB 1F51 2339 CALLS #1,PRINT_FAIL ; Print the failure
04 1F56 2340 RET

```

Sy  
--  
CK  
CK  
CK  
CK  
CK  
CK  
CK  
CK  
CK  
CK  
CL  
CL  
CL  
CL  
CL  
CL  
CL  
CL  
CL  
CL  
CL  
EX  
GE  
IM  
IM  
LI  
LI  
LI  
LI  
LI  
LI  
ST  
ST  
ST  
SY  
SY  
SY  
SY  
SY  
SY  
SY

```

1F57 2342      .SBTTL  RMS Error Handler
1F57 2343      :++
1F57 2344      : FUNCTIONAL DESCRIPTION:
1F57 2345      :   This routine handles error returns from RMS calls.
1F57 2346      :
1F57 2347      : CALLING SEQUENCE:
1F57 2348      :   Called by RMS when a file processing error is found.
1F57 2349      :
1F57 2350      : INPUT PARAMETERS:
1F57 2351      :   NONE
1F57 2352      :
1F57 2353      : IMPLICIT INPUTS:
1F57 2354      :   The FAB or RAB associated with the RMS call.
1F57 2355      :
1F57 2356      : OUTPUT PARAMETERS:
1F57 2357      :   NONE
1F57 2358      :
1F57 2359      : IMPLICIT OUTPUTS:
1F57 2360      :   Error message
1F57 2361      :
1F57 2362      : COMPLETION CODES:
1F57 2363      :   NONE
1F57 2364      :
1F57 2365      : SIDE EFFECTS:
1F57 2366      :   Program may exit, depending on severity of the error.
1F57 2367      :
1F57 2368      :--
1F57 2369
1F57 2370      RMS_ERROR:
OFFC 1F57 2371      .WORD  ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; Entry mask
1F59 2372
56   04 AC   DO 1F59 2373      MOVL  4(AP),R6 ; See whether we' e dealing with...
66   03 91 1F5D 2374      CMPB  #FAB$C_BID,FAB$B_BID(R6) ; ...a FAB or a RAB
11 12 1F60 2375      BNEQ  10$ ; BR if it's a RAB
58   56 DO 1F62 2376      MOVL  R6,R8 ; ...address of FAB...
OC A6 DD 1F65 2377      PUSHL FAB$L_STV(R6) ; ...STV field for error...
08 A6 DD 1F68 2378      PUSHL FAB$L_STS(R6) ; ...STS field for error...
0012'CF 08 A6 DO 1F6B 2379      MOVL  FAB$L_STS(R6),STATUS_CODE ; ...and save the error code
10 11 1F71 2380      BRB   COMMON ; FAB and RAB share other code
1F73 2381      10$:
58   3C A6 DO 1F73 2382      MOVL  RAB$L_FAB(R6),R8 ; ...address of associated FAB...
OC A6 DD 1F77 2383      PUSHL RAB$L_STV(R6) ; ...STV field for error...
08 A6 DD 1F7A 2384      PUSHL RAB$L_STS(R6) ; ...STS field for error...
0012'CF 08 A6 DO 1F7D 2385      MOVL  RAB$L_STS(R6),STATUS_CODE ; ...and save the error code
1F83 2386      COMMON:
5A   34 A8 9A 1F83 2387      MOVZBL FAB$B_FNS(R8),R10 ; Get the file name size
1F87 2388      $FAO_S CTRSTR = RMS_ERR_MSG,- ; Common code, prepare error message...
1F87 2389      OUTLEN = BUFFER_PTR,-
1F87 2390      OUTBUF = FAO_BUF,-
1F87 2391      P2 = R10,-
1F87 2392      P3 = FAB$L_FNA(R8)
0379'CF DF 1F9F 2393      PUSHAL BUFFER_PTR ; Push the string address
DF2 CF 01 FB 1FA3 2394      CALLS #1,PRINT_FAIL ; Print the failure
04 1FAB 2395      RET
1FA9 2396
1FA9 2397      MOD_MSG_PRINT:
1FA9 2398      ;

```





```

1FBF 2409      .SBTTL Exit Handler
1FBF 2410      :++
1FBF 2411      : FUNCTIONAL DESCRIPTION:
1FBF 2412      :   This routine handles cleanup on exits.
1FBF 2413      :
1FBF 2414      : CALLING SEQUENCE:
1FBF 2415      :   Invoked automatically by $EXIT System Service.
1FBF 2416      :
1FBF 2417      : INPUT PARAMETERS:
1FBF 2418      :   Location STATUS_CODE contains the exit status
1FBF 2419      :
1FBF 2420      : IMPLICIT INPUTS:
1FBF 2421      :   NONE
1FBF 2422      :
1FBF 2423      : OUTPUT PARAMETERS:
1FBF 2424      :   NONE
1FBF 2425      :
1FBF 2426      : IMPLICIT OUTPUTS:
1FBF 2427      :   Erase the UETPSECT.DAT file even if the test is aborted.
1FBF 2428      :
1FBF 2429      : COMPLETION CODES:
1FBF 2430      :   NONE
1FBF 2431      :
1FBF 2432      : SIDE EFFECTS:
1FBF 2433      :   NONE
1FBF 2434      :
1FBF 2435      :--
1FBF 2436      :
OFFC 1FBF 2437  EXIT_HANDLER:
1FBF 2438      .WORD  ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; Entry mask
1FC1 2439
1FC1 2440      $DASSGN_S CHAN = SECFAB+FAB$L_STV      ; Deassign the channel
1FCD 2441      $ERASE FAB = FILEFAB,-
1FCD 2442      ERR = RMS_ERROR                          ; Erase the old section file
1FDB 2443      $SETPRV_S ENBFLG = #0,-
1FDB 2444      PRVADR = PRIV_MASK                      ; Remove all temp privileges
04   1FEC 2445      RET
1FED 2446      .END UETSSMM00

```

UETSSMM00  
Symbol table

\$\$TAB	= 000016A0	R	04	EXIT_HANDLER	00001FBF	R	06
\$\$TABEND	= 000016E4	R	04	EXP	00000214	R	02
\$\$TMP	= 00000000			FAB\$B_BID	= 00000000		
\$\$TMP1	= 00000002			FAB\$B_FAC	= 00000016		
\$\$TMP2	= 000000CF			FAB\$B_FNS	= 00000034		
\$\$TMPX	= 0000000C	R	05	FAB\$C_BID	= 00000003		
\$\$TMPX1	= 0000000C			FAB\$C_BLN	= 00000050		
\$\$ARGS	= 00000008			FAB\$C_SEQ	= 00000000		
\$\$T1	= 00000004			FAB\$C_VAR	= 00000002		
\$\$T2	= 00000005			FAB\$L_ALQ	= 00000010		
A	= FFFFFFFE7F			FAB\$L_FNA	= 0000002C		
ADR	0000027A	R	02	FAB\$L_FOP	= 00000004		
AN_IDENT	0000033E	R	03	FAB\$L_STS	= 00000008		
AN_ILLEGAL_IDENT	000002BF	R	02	FAB\$L_STV	= 0000000C		
ARG_COUNT	00000016	R	03	FAB\$M_PUT	= 00000001		
BAD_PFN	0000009E	R	02	FAB\$V_BIO	= 00000005		
BUF	00000022	R	03	FAB\$V_CHAN_MODE	= 00000002		
BUF1	00000132	R	03	FAB\$V_CR	= 00000001		
BUFFER	00000381	R	03	FAB\$V_FILE_MODE	= 00000004		
BUFFER_PTR	00000379	R	03	FAB\$V_GET	= 00000001		
COMMON	00001F83	R	06	FAB\$V_LNM_MODE	= 00000000		
CRMPSC	00000033	R	02	FAB\$V_PUT	= 00000000		
CRMPSC\$_ACMODE	= 0000000C			FAB\$V_UFO	= 00000011		
CRMPSC\$_CHAN	= 00000020			FAB\$W_GBC	= 00000048		
CRMPSC\$_FLAGS	= 00000010			FAO_BUF	00000371	R	03
CRMPSC\$_GSDNAM	= 00000014			FILEFAB	00001650	R	04
CRMPSC\$_IDENT	= 00000018			FILERAB	000016A0	R	04
CRMPSC\$_INADR	= 00000004			GSDNAM	00000346	R	03
CRMPSC\$_NARGS	= 0000000C			GSD_LOGNAM	0000049F	R	03
CRMPSC\$_PAGCNT	= 00000024			INADDRESS	00000369	R	03
CRMPSC\$_PFC	= 00000030			KM	00000206	R	02
CRMPSC\$_PROT	= 0000002C			LIB\$SIGNAL	*****	X	06
CRMPSC\$_RELPAG	= 0000001C			LOGICAL_NAME	00000481	R	03
CRMPSC\$_RETADR	= 00000008			MESSAGE_TL	00000232	R	03
CRMPSC\$_VBN	= 00000028			MESSAGE_L	00000122	R	03
CRMPSCG	000002B6	R	03	MGBLSC	00000041	R	02
CS1	000000DB	R	02	MGBLSC\$_ACMODE	= 0000000C		
CS2	0000010D	R	02	MGBLSC\$_FLAGS	= 00000010		
CS3	0000013A	R	02	MGBLSC\$_GSDNAM	= 00000014		
CS4	0000016D	R	02	MGBLSC\$_IDENT	= 00000018		
CS5	0000018A	R	02	MGBLSC\$_INADR	= 00000004		
CTL\$GL_PHD	*****	X	06	MGBLSC\$_NARGS	= 00000007		
CURRENT_TC	00000006	R	03	MGBLSC\$_RELPAG	= 0000001C		
DATA	00000289	R	02	MGBLSC\$_RETADR	= 00000008		
DATA_CHECK	00001E89	R	06	MGBLSCG	000002EA	R	03
DGBLSC	0000003A	R	02	MMG\$GL_MAXPFN	*****	X	06
DGBLSC\$_FLAGS	= 00000004			MODE	0000000A	R	03
DGBLSC\$_GSDNAM	= 00000008			MODE_ID	00001E5E	R	06
DGBLSC\$_IDENT	= 0000000C			MOD_MSG_CODE	0000027A	R	03
DGBLSC\$_NARGS	= 00000003			MOD_MSG_PRINT	00001FA9	R	06
DGBLSCG	0000030A	R	03	MS	000002A3	R	02
EF2	= 00000002			MSG1L	0000012A	R	03
EFN1	= 00000001			MSG_L	0000001A	R	03
EM	000001F5	R	02	MSGVEC	000002AF	R	02
EQUIV_NAME	00000492	R	03	MSGVEC1	0000028E	R	03
ERROR	= 00000002			NAME_INC1	00000491	R	03
EXIT_DESC	0000029E	R	03	NAME_INC2	0000049E	R	03

Vi  
St  
In  
In  
In  
Nu  
Nu  
Nu  
Nu  
Us  
Nu  
In  
Ma  
Es  
  
Pe  
--  
  
Tc  
Us  
Tc  
Nu  
1C  
A  
LJ  
:5

NONSUB_SSE	00001F15	R	06
NO_PFN_TEST	00001504	R	06
NSSSF	0000019F	R	02
OUTADDRESS	00000361	R	03
PHDSL_POBR	= 000000C8		
PRINT_FAIL	00001D9A	R	06
PRIV_MASK	00000355	R	03
PRTSC_NA	= 00000000		
PRTSC_UW	= 00000004		
PRVSV_CMEXEC	= 00000001		
PRVSV_PFNMAP	= 0000001A		
PRVSV_PRMGBL	= 00000018		
PRVSV_PSWAPM	= 0000000C		
PRVSV_SYSGBL	= 00000019		
PRVSV_SYSNAM	= 00000002		
PSLSC_USER	= 00000003		
PTESV_PFN	= 00000015		
PTESV_PFN	= 00000000		
RABSB_RAC	= 0000001E		
RABSC_BID	= 00000001		
RABSC_BLN	= 00000044		
RABSC_SEQ	= 00000000		
RABSL_CTX	= 00000018		
RABSL_FAB	= 0000003C		
RABSL_ROP	= 00000004		
RABSL_STS	= 00000008		
RABSL_STV	= 0000000C		
RABSW_RSZ	= 00000022		
READ_BUF	00000600	R	04
READ_BUF1	00000E00	R	04
REG	00000268	R	02
REGNUM	0000000E	R	03
REG_CHECK	00001D36	R	06
REG_SAVE	00001D2C	R	06
REG_SAVE_AREA	0000023E	R	03
RMS_ERROR	00001F57	R	06
RMS_ERR_MSG	0000004F	R	02
SECSK_MATEQU	= 00000001		
SECSK_MATLEQ	= 00000002		
SECSM_CRF	= 00000002		
SECSM_DZRO	= 00000004		
SECSM_EXPREG	= 00020000		
SECSM_GBL	= 00000001		
SECSM_PERM	= 00004000		
SECSM_PFNMAP	= 00010000		
SECSM_SYSGBL	= 00008000		
SECSM_WRT	= 00000008		
SECFAB	00001600	R	04
SERV_NAME	0000023A	R	03
SHRS_TEXT	= 00001130		
SM	000001E8	R	02
SSS_ACCVIO	= 0000000C		
SSS_BADPARAM	= 00000014		
SSS_CREATED	= 00000619		
SSS_ENDOFFILE	= 00000870		
SSS_IVCHAN	= 0000013C		
SSS_IVLOGNAM	= 00000154		

SSS_IVSECFLG	= 0000016C		
SSS_IVSECIDCTL	= 000002E4		
SSS_NOPRIV	= 00000024		
SSS_NORMAL	= 00000001		
SSS_NOSUCHSEC	= 00000978		
SSS_NOTFILEDEV	= 000001CC		
SSS_NOTMODIFIED	= 00000659		
SSS_NOWRT	= 000003FC		
SSS_TOOMANYLNAM	= 00000374		
SSS_VASFULL	= 00000244		
START_ADDRESS	00000286	R	03
STATUS	00000295	R	02
STATUS_CODE	00000012	R	03
STEP	= 00000046		
STP0	0000003D	R	06
STP1	0000003D	R	06
STP10	00000310	R	06
STP11	00000343	R	06
STP12	000003B7	R	06
STP13	00000414	R	06
STP14	00000487	R	06
STP15	00000501	R	06
STP16	00000566	R	06
STP17	000005EF	R	06
STP18	000006C4	R	06
STP19	0000073B	R	06
STP2	00000083	R	06
STP20	000007B2	R	06
STP21	0000082F	R	06
STP22	00000894	R	06
STP23	00000905	R	06
STP24	00000968	R	06
STP25	000009E7	R	06
STP26	00000A5C	R	06
STP27	00000AC3	R	06
STP28	00000B3C	R	06
STP29	00000BB1	R	06
STP3	000000B2	R	06
STP30	00000BF0	R	06
STP31	00000C03	R	06
STP32	00000C16	R	06
STP33	00000C30	R	06
STP34	00000C69	R	06
STP35	00000CA2	R	06
STP36	00000CD5	R	06
STP37	00000D0A	R	06
STP38	00000D41	R	06
STP39	00000DD0	R	06
STP4	00000168	R	06
STP40	00000E09	R	06
STP41	00000E94	R	06
STP42	00000F1C	R	06
STP43	00000F5D	R	06
STP44	00000F9A	R	06
STP45	0000104A	R	06
STP46	00001132	R	06
STP47	000011CA	R	06

UETSSMM00  
Symbol table

VAX/VMS UETP SYSTEM SERVICE TEST I 14

16-SEP-1984 01:09:23 VAX/VMS Macro V04-00  
5-SEP-1984 04:36:18 [UETPSY.SRC]UETSSMM00.MAR;1

STP48	000012BA	R	06
STP49	000013C9	R	06
STP5	000001AB	R	06
STP50	00001468	R	06
STP51	0000150B	R	06
STP52	000015D8	R	06
STP53	00001614	R	06
STP54	00001646	R	06
STP55	00001748	R	06
STP56	00001783	R	06
STP57	000017BE	R	06
STP58	00001822	R	06
STP59	00001881	R	06
STP6	00000200	R	06
STP60	000018F6	R	06
STP61	00001909	R	06
STP62	0000191C	R	06
STP63	00001973	R	06
STP64	000019F3	R	06
STP65	00001AA4	R	06
STP66	00001B9D	R	06
STP67	00001C7F	R	06
STP68	00001C96	R	06
STP69	00001CAD	R	06
STP7	00000235	R	06
STP70	00001CC4	R	06
STP8	000002A2	R	06
STP9	000002D5	R	06
ST\$V_INHIB_MSG	= 0000001C		
SUCCESS	= 00000001		
SYSSCLOSE	*****	GX	06
SYSSCMEXEC	*****	GX	06
SYSSCONNECT	*****	GX	06
SYSSCREATE	*****	GX	06
SYSSCRELOG	*****	GX	06
SYSSCREMBX	*****	GX	06
SYSSCRMPSC	*****	GX	06
SYSSDASSGN	*****	GX	06
SYSSDCLEXH	*****	GX	06
SYSSDELLOG	*****	GX	06
SYSSDELTVA	*****	GX	06
SYSSDGBLSC	*****	GX	06
SYSSERASE	*****	GX	06
SYSSEXIT	*****	GX	06
SYSSFAO	*****	X	06
SYSSGETMSG	*****	GX	06
SYSSHIBER	*****	GX	06
SYSSLCKPAG	*****	GX	06
SYSSMGBLSC	*****	GX	06
SYSSOPEN	*****	GX	06
S;SSPUTMSG	*****	GX	06
SYSSSETAST	*****	GX	06
SYSSSETPRN	*****	GX	06
SYSSSETPRT	*****	GX	06
SYSSSETPRV	*****	GX	06
SYSSUPDSEC	*****	GX	06
SYSSWAITFR	*****	GX	06

SYSSWAKE	*****	GX	06
SYSSWRITE	*****	GX	06
TEST_MOD_BEGIN	0000001B	R	02
TEST_MOD_FAIL	0000002C	R	02
TEST_MOD_NAME	00000000	R	02
TEST_MOD_NAME_D	0000000A	R	02
TEST_MOD_SUCC-D	00000021	R	02
TEXT_BUFFER	= 00000100		
TMD_ADDR	00000282	R	03
TMN_ADDR	0000027E	R	03
TOO_LONGSTRING	0000022A	R	02
TPID	00000000	R	03
TTCHAN	00000004	R	03
TTNAM	0000025E	R	02
UETPS_SATSMS	= 007480D9		
UETPS_TEXT	= 00741130		
UETSSMM00	00000000	RG	06
UM	000001DC	R	02
UPDSEC	00000048	R	02
UPDSECS_ACMODE	= 0000000C		
UPDSECS_ASTADR	= 0000001C		
UPDSECS_ASTPRM	= 00000020		
UPDSECS_EFN	= 00000014		
UPDSECS_INADR	= 00000004		
UPDSECS_IOSB	= 00000018		
UPDSECS_NARGS	= 00000008		
UPDSECS_RETADR	= 00000008		
UPDSECS_UPDFLG	= 00000010		
UPDSECG	0000031A	R	03
UPDSEC_FAILED	0000006C	R	02
UPD_IOSB	000002AE	R	03
VASS_VPN	= 00000015		
VASV_VPN	= 00000009		
VBN	0000035D	R	03
WORK	0000028A	R	03
WRITE_BUF	00000000	R	04
ZEROSTRING	00000222	R	02

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

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABS\$	00000000 ( 0.)	01 ( 1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
RODATA	000002C7 ( 711.)	02 ( 2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	000004AC ( 1196.)	03 ( 3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
RMS	000016E4 ( 5860.)	04 ( 4.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC PAGE
\$RMSNAM	00000018 ( 24.)	05 ( 5.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE
UETSSMM00	00001FED ( 8173.)	06 ( 6.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC LONG

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	36	00:00:00.10	00:00:00.38
Command processing	135	00:00:00.63	00:00:02.52
Pass 1	781	00:00:37.14	00:01:08.36
Symbol table sort	4	00:00:02.24	00:00:02.59
Pass 2	452	00:00:10.02	00:00:13.37
Symbol table output	2	00:00:00.26	00:00:00.72
Psect synopsis output	2	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	144	00:00:50.43	00:01:27.97

The working set limit was 2000 pages.  
242043 bytes (473 pages) of virtual memory were used to buffer the intermediate code.  
There were 80 pages of symbol table space allocated to hold 1498 non-local and 78 local symbols.  
2446 source lines were read in Pass 1, producing 60 object records in Pass 2.  
85 pages of virtual memory were used to define 77 macros.

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

Macro library name	Macros defined
-\$255\$DUA28:[SHRLIB]UETP.MLB;1	8
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	2
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	63
TOTALS (all libraries)	74

1943 GETS were required to define 74 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:UETSSMM00/OBJ=OBJ\$:UETSSMM00 MSRC\$:UETSSMM00/UPDATE=(ENH\$:UETSSMM00)+EXECMLS/LIB+SHRLIB\$:UETP/LIB

