


```

SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  FFFFFFFFFF  000000  11
SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  FFFFFFFFFF  000000  11
SS        AA      AA      TT        TT        FF        00      00      1111
SS        AA      AA      TT        TT        FF        00      00      1111
SS        AA      AA      TT        TT        FF        00      0000    11
SS        AA      AA      TT        TT        FF        00      0000    11
SSSSSSS   AA      AA      TT        TT        FFFFFFFF  00  00  00    11
SSSSSSS   AA      AA      TT        TT        FFFFFFFF  00  00  00    11
          SS  AAAAAAAAAA  TT        TT        FF        0000    00    11
          SS  AAAAAAAAAA  TT        TT        FF        0000    00    11
          SS  AA      AA      TT        TT        FF        00      00    11
          SS  AA      AA      TT        TT        FF        00      00    11
          SS  AA      AA      TT        TT        FF        00      00    11
SSSSSSSS  AA      AA      TT        TT        FF        000000  111111  ....
SSSSSSSS  AA      AA      TT        TT        FF        000000  111111  ....

```

```

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

```

(1)	54	DECLARATIONS
(1)	76	OWN STORAGE
(1)	123	R/W PSECT
(1)	214	SATSSF01
(1)	268	DACEFC TESTS
(1)	303	DLCEFC TESTS
(1)	336	ASCEFC TESTS
(1)	429	SETEXV TESTS
(1)	469	REG_SAVE
(1)	490	REG_CHECK
(1)	533	PRINT_FAIL
(1)	569	MOD_MSG_PRINT
(1)	582	CHMRTN

```
0000 1 .TITLE SATSSF01 - SATS SYSTEM SERVICE TESTS (FAILING S.C.)
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 :*****
0000 6 :*
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0000 24 :*
0000 25 :*
0000 26 :*****
0000 27 :
0000 28 :
0000 29 :++
0000 30 : FACILITY: SATS SYSTEM SERVICE TESTS
0000 31 :
0000 32 : ABSTRACT: The SATSSF01 module tests the execution of the following
0000 33 : VMS system services, invoked in such a way as to expect failing
0000 34 : status codes:
0000 35 : $DACEFC
0000 36 : $DLCEFC
0000 37 : $ASCEFC
0000 38 : $SETEXV
0000 39 :
0000 40 :
0000 41 : ENVIRONMENT: User mode image; needs CMKRNL privilege,
0000 42 : dynamically acquires other privileges, as needed.
0000 43 :
0000 44 : AUTHOR: THOMAS L. CAFARELLA, CREATION DATE: AUG, 1978
0000 45 : PAUL D. FAY (DISPSERV & TESTSERV MACROS)
0000 46 :
0000 47 : MODIFIED BY:
0000 48 :
0000 49 : V03-001 LDJ0001 Larry D. Jones 17-Sep-1980
0000 50 : Modified to conform to new build command procedures.
0000 51 :**
0000 52 :--
```

```
0000 54 .SBTTL DECLARATIONS
0000 55 :
0000 56 : MACRO LIBRARY CALLS
0000 57 :
0000 58 $PRVDEF ; privilege definitions
0000 59 $UETPDEF ; UETP message definitions
0000 60 $SHR MESSAGES UETP,116,<<TEXT,INFO>> ; UETPS TEXT definition
0000 61 $PHDDEF ; process header definitions
0000 62 $PCBDEF ; PCB definitions
0000 63 $SSDEF ; SS definitions
0000 64 $STSDEF ; STS definitions
0000 65 :
0000 66 : Equated symbols
0000 67 :
00000000 0000 68 WARNING = 0 ; warning severity value for msgs
00000001 0000 69 SUCCESS = 1 ; success
00000002 0000 70 ERROR = 2 ; error
00000003 0000 71 INFO = 3 ; information
00000004 0000 72 SEVERE = 4 ; fatal
00000001 0000 73 PRVHND_SXV40 = 1 ; page 0 address for SETEXV
0000 74
```

	0000	76	.SBTTL	OWN STORAGE	
	0000	77	.PSECT	RODATA, RD, NOWRT, NOEXE, LONG	
	0000	78	:		
31 30 46 53 53 54 41 53 00'	0000	79	TEST_MOD_NAME:		
08	0000	80	.ASCIC	/SATSSF01/	; needed for SATSMS message
	0009	81	TEST_MOD_NAME_D:		
46 53 53 54 41 53 00000011'010E0000'	0009	82	.ASCID	/SATSSF01/	; module name
31 30	0017				
	0019	83	TEST_MOD_BEGIN:		
6E 75 67 65 62 00'	0019	84	.ASCIC	/begun/	
05	0019				
	001F	85	TEST_MOD_SUCC:		
6C 75 66 73 73 65 63 63 75 73 00'	001F	86	.ASCIC	/successful/	
0A	001F				
	002A	87	TEST_MOD_FAIL:		
64 65 6C 69 61 66 00'	002A	88	.ASCIC	/failed/	
06	002A				
	0031	89	DACEFC:		
43 46 45 43 41 44 00'	0031	90	.ASCIC	/DACEFC/	
06	0031				
	0038	91	DLCEFC:		
43 46 45 43 4C 44 00'	0038	92	.ASCIC	/DLCEFC/	
06	0038				
	003F	93	ASCEFC:		
43 46 45 43 53 41 00'	003F	94	.ASCIC	/ASCEFC/	
06	003F				
	0046	95	SETEXV:		
56 58 45 54 45 53 00'	0046	96	.ASCIC	/SETEXV/	
06	0046				
	004D	97	INADR:		
00000000'00000000'	004D	98	.LONG	NOACCESS, NOACCESS	; page address of noaccess psect
	0055	99	PROT:		
00000000'	0055	100	.LONG	PRT\$C_NA	; protection code for no access psect
	0059	101	NAME_DLC:		
43 4C 44 46 53 00000061'010E0000'	0059	102	.ASCID	/SF DLC/	; legal name string
	0066	103	NAME_DLC0:		
0000006E'010E0000'	0066	104	.ASCID	//	; zero length string
	006E	105	NAME_DLC15:		
54 20 45 52 4F 4D 00000076'010E0000'	006E	106	.ASCID	/MORE THAN 15 CHARACTERS/	; illegal string length test string
41 52 41 48 43 20 35 31 20 4E 41 48	007C				
53 52 45 54 43	0088				
	008D	107	VECTOR_SXV:		
00000000	008D	108	.LONG	0	; vector parameter for SETEXV
	0091	109	ACMODE_SXV:		
00000001	0091	110	.LONG	1	; access mode param. for SETEXV
	0095	111	PRVHND_SXV41:		
00000000	0095	112	.LONG	0	; readonly access for SETEXV
	0099	113	CS1:		
21 20 74 73 65 54 000000A1'010E0000'	0099	114	.ASCID	\Test !AC service name !AC step !UL failed.\	
6E 20 65 63 69 76 72 65 73 20 43 41	00A7				
70 65 74 73 20 43 41 21 20 65 6D 61	00B3				
2E 64 65 6C 69 61 66 20 4C 55 21 20	00BF				
	00CB	115	CS2:		
74 63 65 70 78 45 000000D3'010E0000'	00CB	116	.ASCID	\Expected !AS = !XL received !AS = !XL\	
4C 58 21 20 3D 20 53 41 21 20 64 65	00D9				
41 21 20 64 65 76 69 65 63 65 72 20	00E5				


```

0139 122 ;
0139 123 ; .SBTTL R/W PSECT
00000000 124 ; .PSECT RWDATA, RD, WRT, NOEXE, LONG
0000 125 ;
0000 126 IPID: ;
00000000 0000 127 .LONG 0 ; PID for this process
00000000 0004 128 CURRENT_TC: ;
00000000 0004 129 .LONG 0 ; ptr to current test case
00000044 0008 130 .ALIGN LONG
00000044 0008 131 REG_SAVE_AREA: ;
00000044 0044 132 .BLKL 15 ; register save area
007480D9 0044 133 MOD_MSG_CODE: ;
00000000 0048 134 .LONG UETPS_SATSMS ; test module message code for putmsg
00000000 0048 135 TMN_ADDR: ;
00000019 004C 136 .ADDRESS TEST_MOD_NAME
00000019 004C 137 TMD_ADDR: ;
00000019 004C 138 .ADDRESS TEST_MOD_BEGIN
0050 139 PRVPRT: ;
00 0050 140 .BYTE 0 ; protection return byte for SETPRT
00000000 0051 141 PRIVMASK: ;
00000000 0051 142 .QUAD 0 ; priv. mask
00000000 0059 143 CHM_CONT: ;
00000000 0059 144 .LONG 0 ; change mode continue address
00000065 005D 145 RETADR: ;
00000065 005D 146 .BLKL 2 ; returned address's from SETPRT
0065 147 DAC: ;
0065 148 $DACEFC 0 ; DACEFC parameter list
006D 149 DLC: ;
006D 150 $DLCEFC NAME_DLCO ; DLCEFC parameter list
C075 151 ASC: ;
0075 152 $ASCEFC 0,0,0,1 ; ASCEFC parameter list
0089 153 SET: ;
0089 154 $SETEXV VECTOR_SXV,0,ACMODE_SXV,PRVHND_SXV40 ; SETEXV parameter list
009D 155 REG: ;
74 73 69 67 65 72 000000A5 010E0000 009D 156 .ASCID \register R\
52 20 72 65 00AB
00AF 157 REGNUM: ;
00000000 00AF 158 .LONG 0 ; register number
00B3 159 MSGL: ;
00000050 00B3 160 .LONG 80 ; buffer desc.
000000BB 00B7 161 .ADDRESS BUF
0000010B 00BB 162 BUF: ;
0000010B 00BB 163 .BLKB 80
00000000 010B 164 MESSAGEL: ;
000000BB 010F 165 .LONG 0 ; message desc.
00000000 010F 166 .ADDRESS BUF
0113 167 SERV_NAME: ;
00000000 0113 168 .LONG 0 ; service name pointer

```



```

00000000 170 .PSECT SATS ACCVIO_1,RD,WRT,NOEXE,PAGE
00000200 0000 171 EMPTY: .BLKB 512 ; reserve a page of space
0200 172 :
0200 173 : +
0200 174 : *****
0200 175 : *
0200 176 : * THE ORDER OF STATEMENTS IN THIS PSECT IS CRITICAL. *
0200 177 : * DO NOT RE-ARRANGE THE VARIABLES. CONSULT SATS *
0200 178 : * FUNCTIONAL SPECIFICATION FOR A DESCRIPTION OF THE USE *
0200 179 : * OF THE EMPTY PSECT (AND ITS COMPANION PSECT, NOACCESS). *
0200 180 : *
0200 181 : *****
0200 182 : -
0200 183 :
000001FF 0200 184 PRVHND_SXV42 = . - 1 ; prvhd arg for SETEXV (last byte in the page)
000001F3 0200 185 = . - 13 ; allow room for string descriptor
01F3 186 ; type AAAAA_SSSX5 go here:
00000006 01F3 187 .LONG 6 ; string length (will cross psect boundary)
000001FB 01F7 188 .ADDRESS .+4 ; string address
01FB 189 ; type AAAAA_SSSX3 go here:
000001FC 01FB 190 .BLKB 1 ; low-order byte of string length
01FC 191 ; type AAAAA_SSSX2 go here:
00000200 01FC 192 .BLKL 1 ; string length
0200 193 :
0200 194 :
0200 195 :
0200 196 :
00000000 197 .PSECT SATS ACCVIO_2,RD,WRT,NOEXE,PAGE
00000200 0000 198 NOACCESS: .BLKB 512 ; reserve a page of space
00000000 0200 199 = . - 512 ; return loc ctr to beginning of psect
00000000 0000 200 .ADDRESS EMPTY ; address of accessible string
00000000 0004 201 .ADDRESS EMPTY/^X100 ; address of accessible string
0008 202 : +
0008 203 : *** NOTE -- DO NOT CHANGE LOCATION OR SEQUENCE OF ABOVE STATEMENTS!
0008 204 : *** THIS PSECT (NOACCESS) MUST APPEAR IN MEMORY IMMEDIATELY
0008 205 : *** FOLLOWING THE EMPTY PSECT. PSECT NAMES AND OPTIONS WILL BE
0008 206 : *** CHOSEN TO FORCE THE DESIRED PSECT ORDERING.
0008 207 : -
0008 208 :
0008 209 :
0008 210 :
0008 211 :

```

```

00000000 213      .PSECT  SATSSF01,RD,WRT,EXE,LONG
0000      214      .SBTTL  SATSSF01
0000      215      :++
0000      216      : FUNCTIONAL DESCRIPTION:
0000      217      :
0000      218      :     After performing some initial housekeeping, such as
0000      219      :     printing the module begin message and acquiring needed privileges,
0000      220      :     the system services are tested in each of their failure conditions.
0000      221      :     Detected failures are identified and an error message is printed
0000      222      :     on the terminal. Upon completion of the test a success or fail
0000      223      :     message is printed on the terminal.
0000      224      :
0000      225      : CALLING SEQUENCE:
0000      226      :
0000      227      :     $ RUN SATSSF01 ... (DCL COMMAND)
0000      228      :
0000      229      : INPUT PARAMETERS:
0000      230      :
0000      231      :     none
0000      232      :
0000      233      : IMPLICIT INPUTS:
0000      234      :
0000      235      :     none
0000      236      :
0000      237      : OUTPUT PARAMETERS:
0000      238      :
0000      239      :     none
0000      240      :
0000      241      : IMPLICIT OUTPUTS:
0000      242      :
0000      243      :     Messages to SYSS$OUTPUT are the only output from SATSSF01.
0000      244      :     They are of the form:
0000      245      :
0000      246      :     %UETP-S-SATSMS, TEST MODULE SATSSF01 BEGUN ... (BEGIN MSG)
0000      247      :     %UETP-S-SATSMS, TEST MODULE SATSSF01 SUCCESSFUL ... (END MSG)
0000      248      :     %UETP-E-SATSMS, TEST MODULE SATSSF01 FAILED ... (END MSG)
0000      249      :     %UETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
0000      250      :
0000      251      : COMPLETION CODES:
0000      252      :
0000      253      :     The SATSSF01 routine terminates with a $EXIT to the
0000      254      :     operating system with a status code defined by UETP$_SATSMS.
0000      255      :
0000      256      : SIDE EFFECTS:
0000      257      :
0000      258      :     none
0000      259      :
0000      260      :--
0000      261      :
0000      262      :
0000      263      :
0000      264      : TEST_START SATSSF01           ; let the test begin

```

```

0000 0000
0004'CF 00 DD 0002
0000'CF 02 DF 0006
00000000'GF 00 FB 0008
00000000'GF 00 FB 000C
0009'CF 01 FB 0013
00000000'GF 01 FB 001A
004C'CF 00 05AD 30 001E
0044'CF 03 00 01 FO 0028
04DC'CF 01 00 DD 002F
0113'CF 0031'CF 01 FB 0036
000000EC 8F DD 0038
04E6'CF 01 FB 003D
000000EC 8F DD 003D
04E6'CF 01 FB 0056
000000EC 8F DD 0056
04E6'CF 01 FB 0066
000000EC 8F DD 0066
04E6'CF 01 FB 006C
000000EC 8F DD 0071
04E6'CF 01 FB 007A
000000EC 8F DD 007A
04E6'CF 01 FB 0080
0004'CF 01 DO 0085
04DC'CF 01 FB 0085
0069'CF 3F DO 008A
000000EC 8F DD 008C
04E6'CF 01 FB 008C
000000EC 8F DD 0091
04E6'CF 01 FB 0091
000000EC 8F DD 0096
04E6'CF 01 FB 0096
000000EC 8F DD 009F
04E6'CF 01 FB 009F
000000EC 8F DD 00A5
04E6'CF 01 FB 00A5
000000EC 8F DD 00AA
04E6'CF 01 FB 00AA
000000EC 8F DD 00B3
04E6'CF 01 FB 00B3
00BE 00BE
00BE 00BE
00BE 00BE

```

```

.ENTRY SATSSF01,0
CLRL W^CURRENT_TC
PUSHL #0
PUSHAL W^TPID
CALLS #2,G^SYSS$WAKE
CALLS #0,G^SYSS$HIBER
PUSHAQ W^TEST_MOD_NAME_D
CALLS #1,G^SYSS$SETPRN
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:
$SETPRT_S INADR=W^INADR, RETADR=W^RETADR, -
PROT=W^PROT, PRVPRT=W^PRVPRT ; set noaccess psect
; ... for no user access

.SBTTL DACEFC TESTS
;+
0056 268
0056 269
0056 270
0056 271 : $DACEFC tests
0056 272 : test for an EFN of 0
0056 273
0056 274 :-
0056 275 MOVAL W^DACEFC,W^SERV_NAME ; set service name
005D 276 $DACEFC G W^DAC
0066 277 FAIL_CHECK SSS_ILLEFC ; check for correct failure
PUSHL #SS$ ILLEFC
CALLS #1,W^REG_CHECK
0071 278 $DACEFC S #0 ; check S form
007A 279 FAIL_CHECK SSS_ILLEFC ; check for correct failure
PUSHL #SS$ ILLEFC
CALLS #1,W^REG_CHECK
280 :+
281 :
282 : test for a non-zero but less than 64 EFN
283 :
284 :-
285 NEXT_TEST

STP1:
MOVL #1,W^CURRENT_TC
PUSHL #0
CALLS #1,W^REG_SAVE
286 MOVL #63,W^DAC+DACEFC$EFN ; set EFN
287 $DACEFC G W^DAC
288 FAIL_CHECK SSS_ILLEFC ; check for correct failure
PUSHL #SS$ ILLEFC
CALLS #1,W^REG_CHECK
289 $DACEFC S #63 ; check the S form
290 FAIL_CHECK SSS_ILLEFC ; check for correct failure
PUSHL #SS$ ILLEFC
CALLS #1,W^REG_CHECK
291 :+
292 :
293 : test for a non-zero but greater than 127

```

```
00BE 294 :
00BE 295 :-
00BE 296
00BE
00BE
00BE STP2:
0004'CF 02 DO 00BE
00BE
04DC'CF 01 DD 00C3
0069'CF 00000080 8F FB 00C5
00CA 297
00L3 298
00DC 299
000000EC 8F DD 00DC
04E6'CF 01 FB 00E2
00E7 300
00F4 301
000000EC 8F DD 00F4
04E6'CF 01 FB 00FA

NEXT_TEST
MOVL #2,W^CURRENT_TC
PUSHL #0
CALLS #1,W^REG_SAVE
MOVL #128,W^DAC+DACEFC$EFN ; set EFN
SDACEFC G W^DAC
FAIL_CHECK SSS_ILLEFC ; check for correct failure
PUSHL #SS$ ILLEFC
CALLS #1,W^REG_CHECK
SDACEFC S #128 ; check S form
FAIL_CHECK SSS_ILLEFC ; check for correct failure
PUSHL #SS$ ILLEFC
CALLS #1,W^REG_CHECK
```

```

00FF 303 .SBTTL DLCEFC TESTS
00FF 304 :+
00FF 305 :
00FF 306 : $DLCEFC tests
00FF 307 : test for a zero length cluster name
00FF 308 :
00FF 309 :-
00FF 310 NEXT_TEST
00FF
00FF STP3:
0004'CF 03 DO 00FF MOVL #3,W^CURRENT_TC
00FF DD 0104 PUSHL #0
04DC'CF 01 FB 0106 CALLS #1,W^REG_SAVE
0113'CF 0038'CF DE 010B 311 MOVAL W^DLCEFC,W^SERV_NAME ; set service name
0112 312 $DLCEFC G W^DLC
011B 313 FAIL_CHECK SSS_IVLOGNAM ; check for correct failure
00000154 8F DD 011B PUSHL #SS$ IVLOGNAM
04E6'CF 01 FB 0121 CALLS #1,W^REG_CHECK
0126 314 $DLCEFC S W^NAME DLC0 ; check the _S form
0131 315 FAIL_CHECK SSS_IVLOGNAM ; check for correct failure
00000154 8F DD 0131 PUSHL #SS$ IVLOGNAM
04E6'CF 01 FB 0137 CALLS #1,W^REG_CHECK
013C 316 :+
013C 317 :
013C 318 : test for a non-zero but greater than 15 length cluster name
013C 319 :
013C 320 :-
013C 321 NEXT_TEST
013C
013C STP4:
0004'CF 04 DO 013C MOVL #4,W^CURRENT_TC
00FF DD 0141 PUSHL #0
04DC'CF 01 FB 0143 CALLS #1,W^REG_SAVE
0071'CF 006E'CF DE 0148 322 MOVAL W^NAME DLC15,W^DEC+DLCEFC$_NAME ; set name address parameter
014F 323 $DLCEFC G W^DLC
0158 324 FAIL_CHECK SSS_IVLOGNAM ; check for correct failure
00000154 8F DD 0158 PUSHL #SS$ IVLOGNAM
04E6'CF 01 FB 015E CALLS #1,W^REG_CHECK
0163 325 $DLCEFC S W^NAME DLC15 ; check the _S form
016E 326 FAIL_CHECK SSS_IVLOGNAM ; check for correct failure
00000154 8F DD 016E PUSHL #SS$ IVLOGNAM
04E6'CF 01 FB 0174 CALLS #1,W^REG_CHECK
0179 327 :+
0179 328 :
0179 329 : a test for the requirement of PRMCEB privilege is not needed
0179 330 : because a process, with the same UIC as the owner UIC of a
0179 331 : created common EFC, can delete it without having the PRMCEB
0179 332 : privilege.
0179 333 :
0179 334 :-

```

```

0179 336 .SBTTL ASCEFC TESTS
0179 337 :+
0179 338 :
0179 339 : $ASCEFC tests
0179 340 : test for zero EFN
0179 341 :
0179 342 :-
0179 343 : NEXT_TEST
0179
0179 STP5:
0004'CF 05 DO 0179 MOVL #5,W^CURRENT_TC
0000 00 DD 017E PUSHL #0
04DC'CF 01 FB 0180 CALLS #1,W^REG_SAVE
0113'CF 003F'CF DE 0185 344 MOVAL W^ASCEFC,W^SERV_NAME ; set service name
018C 345 $ASCEFC G W^ASC
0195 346 FAIL_CHECK SSS_ILLEFC ; check for correct failure
000000EC 8F DD 0195 PUSHL #SS$ ILLEFC
04E6'CF 01 FB 019B CALLS #1,W^REG_CHECK
01A0 347 $ASCEFC S #0,W^NAME_DLC ; check S form
01B1 348 FAIL_CHECK SSS_ILLEFC ; check for correct failure
000000EC 8F DD 01B1 PUSHL #SS$ ILLEFC
04E6'CF 01 FB 01B7 CALLS #1,W^REG_CHECK
01BC 349 :+
01BC 350 :
01BC 351 : test for non-zero but less than 64 EFN
01BC 352 :
01BC 353 :-
01BC 354 : NEXT_TEST
01BC
01BC STP6:
0004'CF 06 DO 01BC MOVL #6,W^CURRENT_TC
0000 00 DD 01C1 PUSHL #0
04DC'CF 01 FB 01C3 CALLS #1,W^REG_SAVE
0079'CF 3F DO 01C8 355 MOVL #63,W^ASC+ASCEFC$_EFN ; set the EFN to 63
01CD 356 $ASCEFC G W^ASC
01D6 357 FAIL_CHECK SSS_ILLEFC ; check for correct failure
000000EC 8F DD 01D6 PUSHL #SS$ ILLEFC
04E6'CF 01 FB 01DC CALLS #1,W^REG_CHECK
01E1 358 $ASCEFC S #63,W^NAME_DLC ; check S form
01F2 359 FAIL_CHECK SSS_ILLEFC ; check for correct failure
000000EC 8F DD 01F2 PUSHL #SS$ ILLEFC
04E6'CF 01 FB 01F8 CALLS #1,W^REG_CHECK
01FD 360 :+
01FD 361 :
01FD 362 : test for a non-zero but greater than 127 EFN
01FD 363 :
01FD 364 :-
01FD 365 : NEXT_TEST
01FD
01FD STP7:
0004'CF 07 DO 01FD MOVL #7,W^CURRENT_TC
0000 00 DD 0202 PUSHL #0
04DC'CF 01 FB 0204 CALLS #1,W^REG_SAVE
0079'CF 00000080 8F DO 0209 366 MOVL #128,W^ASC+ASCEFC$_EFN ; set the EFN to 128
0212 367 $ASCEFC G W^ASC
021B 368 FAIL_CHECK SSS_ILLEFC ; check for the correct failure
000000EC 8F DD 021B PUSHL #SS$ ILLEFC

```

```
04E6'CF 01 FB (221          CALLS #1,W^REG_CHECK
              226 369          $ASCEFC S #128,W^NAME_DL0 ; check S form
              (238 370          FAIL_CHECK S$$_ILLEFC ; check for correct failure
000000EC 8F DD (238          PUSHL #SS$_ILLEFC
04E6'CF 01 FB (241          CALLS #1,W^REG_CHECK
              0246 371 :+
              0246 372 :
              0246 373 : test for a legal EFN but not addressable name string
              0246 374 :
              0246 375 :-
              0246 376          NEXT_TEST
              0246          STP8:
0004'CF 08 DO 0246          MOVL #8,W^CURRENT_TC
              00 DD 024B          PUSHL #0
04DC'CF 01 FB 024D          CALLS #1,W^REG_SAVE
0079'CF 00000040 8F DO 0252 377          MOVL #64,W^ASC+ASCEFC$_EFN ; legalize the EFN
007D'CF 0000'CF DE 025B 378          MOVAL W^NOACCESS,W^ASC+ASCEFC$_NAME ; set illegal address for name
              0262 379          $ASCEFC G W^ASC
              026B 380          FAIL_CHECK S$$_ACCVIO ; check for correct failure
04E6'CF 0C DD 026B          PUSHL #SS$_ACCVIO
01 FB 026D          CALLS #1,W^REG_CHECK
              0272 381          $ASCEFC S #64,W^NOACCESS ; check S form
              0287 382          FAIL_CHECK S$$_ACCVIO ; check for correct failure
04E6'CF 0C DD 0287          PUSHL #SS$_ACCVIO
01 FB 0289          CALLS #1,W^REG_CHECK
              028E 383 :+
              028E 384 :
              028E 385 : test for 0 length cluster name
              028E 386 :
              028E 387 :-
              028E 388          NEXT_TEST
              028E          STP9:
0004'CF 09 DO 028E          MOVL #9,W^CURRENT_TC
              00 DD 0293          PUSHL #0
04DC'CF 01 FB 0295          CALLS #1,W^REG_SAVE
007D'CF 0066'CF DE 029A 389          MOVAL W^NAME_DL0,W^ASC+ASCEFC$_NAME ; set 0 length name
              02A1 390          $ASCEFC G W^ASC
              02AA 391          FAIL_CHECK S$$_IVLOGNAM ; check for correct failure
00000154 8F DD 02AA          PUSHL #SS$_IVLOGNAM
04E6'CF 01 FB 02B0          CALLS #1,W^REG_CHECK
              02B5 392          $ASCEFC S #64,W^NAME_DL0 ; check S form
              02CA 393          FAIL_CHECK S$$_IVLOGNAM ; check for correct failure
00000154 8F DD 02CA          PUSHL #SS$_IVLOGNAM
04E6'CF 01 FB 02D0          CALLS #1,W^REG_CHECK
              02D5 394 :+
              02D5 395 :
              02D5 396 : test for greater than 15 length cluster name
              02D5 397 :
              02D5 398 :-
              02D5 399          NEXT_TEST
              02D5          STP10:
0004'CF 0A DO 02D5          MOVL #10,W^CURRENT_TC
              00 DD 02DA          PUSHL #0
04DC'CF 01 FB 02DC          CALLS #1,W^REG_SAVE
```



```

03F8 429 .SBTTL SETEXV TESTS
03F8 430 :+
03F8 431 :
03F8 432 : $SETEXV TESTS
03F8 433 : test for page 0 access
03F8 434 :
03F8 435 :-
03F8 436 NEXT_TEST
03F8
03F8 STP12:
0004'CF 0C DO 03F8 MOVL #12,W^CURRENT_TC
0000'CF 00 DD 03FD PUSHL #0
04DC'CF 01 FB 03FF CALLS #1,W^REG_SAVE
0113'CF 0046'CF DE 0404 437 MOVAL W^SETEXV,W^SERV_NAME ; set service name
040B 438 $SETEXV G W^SET
0414 439 FAIL_CHECK SSS_ACCVIO ; check for correct failure
0414 OC DD 0414 PUSHL #SS$ ACCVIO
04E6'CF 01 FB 0416 CALLS #1,W^REG_CHECK
041B 440 $SETEXV_S W^VECTOR_SXV,0,-
041B 441 W^ACMODE_SXV,W^PRVHND_SXV40 ; check_S form
0430 442 FAIL_CHECK SSS_ACCVIO ; check for correct failure
0430 OC DD 0430 PUSHL #SS$ ACCVIO
04E6'CF 01 FB 0432 CALLS #1,W^REG_CHECK
0437 443 :+
0437 444 :
0437 445 : test for read-only psect access
0437 446 :
0437 447 :-
0437 448 NEXT_TEST
0437
0437 STP13:
0004'CF 0D DO 0437 MOVL #13,W^CURRENT_TC
0000'CF 00 DD 043C PUSHL #0
04DC'CF 01 FB 043E CALLS #1,W^REG_SAVE
0099'CF 0095'CF DE 0443 449 MOVAL W^PRVHND_SXV41,W^SET+SETEXV$_PRVHND
044A 450 $SETEXV G W^SET
0453 451 FAIL_CHECK SSS_ACCVIO ; check for correct failure
0453 OC DD 0453 PUSHL #SS$ ACCVIO
04E6'CF 01 FB 0455 CALLS #1,W^REG_CHECK
045A 452 $SETEXV_S W^VECTOR_SXV,0,-
045A 453 W^ACMODE_SXV,W^PRVHND_SXV41 ; check_S form
046F 454 FAIL_CHECK SSS_ACCVIO ; check for correct failure
046F OC DD 046F PUSHL #SS$ ACCVIO
04E6'CF 01 FB 0471 CALLS #1,W^REG_CHECK
0475 455 :+
0476 456 :
0476 457 : test for noaccess psect protection
0476 458 :
0476 459 :-
0476 460 NEXT_TEST
0476
0476 STP14:
0004'CF 0E DO 0476 MOVL #14,W^CURRENT_TC
0000'CF 00 DD 047B PUSHL #0
04DC'CF 01 FB 047D CALLS #1,W^REG_SAVE
0099'CF 01FF'CF DE 0482 461 MOVAL W^PRVHND_SXV42,W^SET+SETEXV$_PRVHND
0489 462 $SETEXV_G W^SET
    
```

04E6'CF	OC 01	DD FB	0492 0492 0494 0499 0499 04AE	463 464 465 466	FAIL_CHECK SSS_ACCVIO ; check for correct failure PUSHL #SS\$ ACCVIO CALLS #1,W^REG_CHECK SSETEXV_S W^VECTOR_SXV,0- W^ACMODE_SXV,W^PRVHND_SXV42 ; check_S form FAIL_CHECK SSS_ACCVIO ; check for correct failure PUSHL #SS\$ ACCVIO CALLS #1,W^REG_CHECK
04E6'CF	OC 01	DD FB	04AE 04B0 04B5	467	TEST_END ; end the test PUSHL W^TMD_ADDR PUSHL W^TMN_ADDR PUSHL #2 PUSHL W^MOD_MSG_CODE CALLS #SST1,G^LIB\$SIGNAL INSV #1,#S\$SV_INHIB_MSG,#1,W^MOD_MSG_CODE PUSHL W^MOD_MSG_CODE CALLS #1,G^SYS\$EXIT
	004C'CF 0048'CF 02	DD DD DD	04B5 04B9 04BD		
	0044'CF	DD	04BF		
0044'CF	01 1C 01	FB	04C3		
	0044'CF	DD	04D1		
00000000'GF	01	FB	04D5		

```

04DC 469 .SBTTL REG_SAVE
04DC 470 :++
04DC 471 : FUNCTIONAL DESCRIPTION:
04DC 472 : Subroutine to save R2-R11 in the register save location.
04DC 473 :
04DC 474 : CALLING SEQUENCE:
04DC 475 : PUSHL #0 ; save a dummy parameter
04DC 476 : CALLS #1,W^REG_SAVE ; save R2-R11
04DC 477 :
04DC 478 : INPUT PARAMETERS:
04DC 479 : NONE
04DC 480 :
04DC 481 : OUTPUT PARAMETERS:
04DC 482 : NONE
04DC 483 :
04DC 484 :--
04DC 485 :
04DC 486 REG_SAVE:
0008'CF 14 AD 28 OFFC 04DC 487 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
04DE 488 MOVCL3 #4*10,^X14(FP),W^REG_SAVE_AREA ; save the registers in the program
04E5 489 RET
04E6 490 .SBTTL REG_CHECK
04E6 491 :++
04E6 492 : FUNCTIONAL DESCRIPTION:
04E6 493 : Subroutine to test R0 & R2-R11 for proper content after a service
04E6 494 : execution. A snapshot is taken by the REG_SAVE routine at the
04E6 495 : beginning of each step and this routine is executed after the
04E6 496 : services have been executed.
04E6 497 :
04E6 498 : CALLING SEQUENCE:
04E6 499 : PUSHL #SS$ XXXXX ; push expected R0 contents
04E6 500 : CALLS #1,W^REG_CHECK ; execute this routine
04E6 501 :
04E6 502 : INPUT PARAMETERS:
04E6 503 : expected R0 contents on the stack
04E6 504 :
04E6 505 : OUTPUT PARAMETERS:
04E6 506 : possible error messages printed using $PUTMSG
04E6 507 :
04E6 508 :--
04E6 509 :
04E6 510 REG_CHECK:
50 04 AC OFFC 04E6 511 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
012B'CF 04 AC DD 04E8 512 CMPL 4(AP),R0 ; is this the right fail code?
052E'CF 03 FB 04EC 513 BEQL 10$ ; br if yes
04FC 514 PUSHL R0 ; push received data
04FC 515 PUSHL 4(AP) ; push expected data
04FC 516 PUSHAL W^EXP ; push the string variable
04FC 517 CALLS #3,W^PRINT_FAIL ; print the error message
0008'CF 14 AD 28 29 04FC 518 10$:
56 53 00000008'8F C3 0505 519 CMPC3 #4*10,^X14(FP),W^REG_SAVE_AREA ; check all but R0
00AF'CF 56 04 C6 050D 520 BEQL 20$ ; br if O.K.
56 53 00000008'8F C3 0505 521 SUBL3 #REG_SAVE_AREA,R3,R6 ; calculate the register number
00AF'CF 56 02 81 0510 522 DIVL2 #4,R6
00AF'CF 51 03 CA 0516 523 ADDB3 #^X2,R6,W^REGNUM ; put it in the string
00AF'CF 53 03 CA 0519 524 BICL2 #3,R1 ; backup to register boundry
00AF'CF 53 03 CA 0519 525 BICL2 #3,R3

```

```

00AF'CF DD 051C 526      PUSHL  W^REGNUM          ; push register number
        61 DD 0520 527      PUSHL  (R1)              ; push received data
        63 DD 0522 528      PUSHL  (R3)              ; push expected data
009D'CF DF 0524 529      PUSHAL W^REG            ; set string pntr param.
052E'CF 04 FB 0528 530      CALLS  #4,W^PRINT_FAIL    ; print the error message
        04 052D 531 20$:
        052D 532      RET
        052E 533      .SBTTL PRINT_FAIL
        052E 534 :++
        052E 535 : FUNCTIONAL DESCRIPTION:
        052E 536 : Subroutine to report failures using $PUTMSG
        052E 537 :
        052E 538 : CALLING SEQUENCE:
        052E 539 : Mode #1      PUSHL EXPECTED Mode #2      PUSHL REG NUMBER
        052E 540 :              PUSHL RECEIVED              PUSHL EXPECTED
        052E 541 :              PUSHAL STRING VAR           PUSHAL RECEIVED
        052E 542 :              CALLS #3,W^PRINT_FAIL       PUSHAL STRING VAR
        052E 543 :              CALLS #4,W^PRINT_FAIL       CALLS #4,W^PRINT_FAIL
        052E 544 :
        052E 545 : INPUT PARAMETERS:
        052E 546 : Listed above
        052E 547 :
        052E 548 : OUTPUT PARAMETERS:
        052E 549 : an error message is printed using $PUTMSG
        052E 550 :
        052E 551 :--
        052E 552 :
        003C 052E 553 PRINT_FAIL:
        052E 554 .WORD ^M<R2,R3,R4,R5>
        0530 555 $FAO S W^CS1,W^MESSAGEL,W^MSGL,#TEST_MOD_NAME,W^SERV_NAME,W^CURRENT_TC
        0551 556 PUTMSG <#UETPS_TEXT,#1,#MESSAGEL> ; print the message
        04 6C 91 0566 557 CMPB (AP),#4 ; is this a register message?
        21 13 0569 558 BEQL 10$ ; br if yes
        056B 559 $FAO_S W^CS2,W^MESSAGEL,W^MSGL,4(AP),8(AP),4(AP),12(AP)
        25 11 058A 560 BRB 20$ ; goto output message
        058C 561 10$:
        058C 562 $FAO_S W^CS3,W^MESSAGEL,W^MSGL,4(AP),16(AP),8(AP),4(AP),16(AP),12(AP)
        05B1 563 20$:
        05B1 564 PUTMSG <#UETPS_TEXT,#1,#MESSAGEL> ; print the message
        004C'CF 002A'CF DE 05C6 565 MOVAL W^TEST_MOD_FAIL,W^TMD_ADDR ; set failure message address
0044'CF 03 00 02 FO 05CD 566 INSV #ERROR,#0,#3,W^MOD_MSG_CODE ; set severity code
        04 05D4 567 RET

```

```

05D5 569 .SBTTL MOD_MSG_PRINT
05D5 570 MOD_MSG_PRINT:
05D5 571 :
05D5 572 : *****
05D5 573 : *
05D5 574 : * PRINTS THE TEST MODULE BEG'N/SUCCESSFUL/FAILED MESSAGES *
05D5 575 : * (USING THE PUTMSG MACRO). *
05D5 576 : *
05D5 577 : *****
05D5 578 :
05D5 579 PUTMSG <W^MOD_MSG_CODE,#2,W^TMN_ADDR,W^TMD_ADDR> ; PRINT MSG
05 05EA 580 RSB ; ... AND RETURN TO CALLER
05EB 581 :
05EB 582 .SBTTL CHMRTN
05EB 583 CHMRTN:
05EB 584 : *****
05EB 585 : *
05EB 586 : * CHANGE MODE ROUTINE. THIS ROUTINE GETS CONTROL WHENEVER *
05EB 587 : * A CMKRN, CMEXEC, OR CMSUP SYSTEM SERVICE IS ISSUED *
05EB 588 : * BY THE MODE MACRO ('TO' OPTION). IT MERELY DOES *
05EB 589 : * A JUMP INDIRECT ON A FIELD SET UP BY MODE. IT HAS *
05EB 590 : * THE EFFECT OF RETURNING TO THE END OF THE MODE *
05EB 591 : * MACRO EXPANSION. *
05EB 592 : *
05EB 593 : *****
05EB 594 :
05EB 595 .WORD 0 ; ENTRY MASK
05ED 596 JMP 3CHM_CONT ; RETURN TO MODE MACRO IN NEW MODE
05F3 597 :
05F3 598 : * RET INSTR WILL BE ISSUED IN EXPANSION OF 'MODE FROM, ....' MACRO
05F3 599 :
05F3 600 .END SATSSF01

```

0000059'FF 0000 17

SATSSF01
Symbol table

```

$$ARGS = 00000004
$$T1 = 00000004
$$T2 = 00000009
ACMODE_SXV = 00000091 R 02
ASC = 00000075 R 03
ASCEFC = 0000003F R 02
ASCEFC$_EFN = 00000004
ASCEFC$_NAME = 00000008
ASCEFC$_NARGS = 00000004
ASCEFC$_PERM = 00000010
ASCEFC$_PROT = 0000000C
BUF = 000000BB R 03
CHMRTN = 000005EB R R 06
CHM_CONT = 00000059 R R 03
CS1 = 00000099 R R 02
CS2 = 000000CB R R 02
CS3 = 000000F8 R R 02
CTL$GL_PHD ***** X 06
CURRENT_TC = 00000004 R X 03
DAC = 00000065 R R 03
DACEFC = 00000031 R R 02
DACEFC$_EFN = 00000004
DACEFC$_NARGS = 00000001
DLC = 0000006D R R 03
DLCEFC = 00000038 R R 02
DLCEFC$_NAME = 00000004
DLCEFC$_NARGS = 00000001
EMPTY = 00000000 R 04
ERROR = 00000002
EXP = 0000012B R R 02
INADR = 0000004D R R 02
INFO = 00000003
LIB$SIGNAL ***** X 06
MESSAGEL = 0000010B R X 03
MOD_MSG_CODE = 00000044 R R 03
MOD_MSG_PRINT = 000005D5 R R 06
MSGC = 000000B3 R R 03
NAME_DLC = 00000059 R R 02
NAME_DLCO = 00000066 R R 02
NAME_DLC15 = 0000006E R R 02
NOACCESS = 00000000 R 05
PHD$Q_PRIVMSK = 00000000
PRINT_FAIL = 0000052E R R 06
PRIVMSK = 00000051 R R 03
PRIV_ARGS = 00000002
PROT = 00000055 R R 02
PRT$C_NA ***** X 02
PRV$V_PRCB = 0000000A
PRVHND_SXV40 = 00000001
PRVHND_SXV41 = 00000095 R R 02
PRVHND_SXV42 = 000001FF R R 04
PRVPRT = 00000050 R R 03
REG = 0000009D R R 03
REGNUM = 000000AF R R 03
REG_CHECK = 000004E6 R R 06
REG_SAVE = 000004DC R R 06
REG_SAVE_AREA = 00000008 R R 03

```

```

RETADR = 0000005D R 03
SATSSF01 = 00000000 RG 06
SERV_NAME = 00000113 R R 03
SET = 00000089 R R 03
SETEXV = 00000046 R 02
SETEXV$_ACMODE = 0000000C
SETEXV$_ADDRESS = 00000008
SETEXV$_NARGS = 00000004
SETEXV$_PRVHND = 00000010
SETEXV$_VECTOR = 00000004
SEVERE = 00000004
SHR$K_SHRDEF = 00000001
SHR$ TEXT = 00001130
SS$_ACCVID = 0000000C
SS$_ILLEFC = 000000EC
SS$_IVLOGNAM = 00000154
SS$_NOPRIV = 00000024
STEP = 0000000E
STP0 = 0000003D R R 06
STP1 = 00000085 R R 06
STP10 = 000002D5 R R 06
STP11 = 0000031C R R 06
STP12 = 000003F8 R R 06
STP13 = 00000437 R R 06
STP14 = 00000476 R R 06
STP2 = 000000BE R R 06
STP3 = 000000FF R R 06
STP4 = 0000013C R R 06
STP5 = 00000179 R R 06
STP6 = 000001BC R R 06
STP7 = 000001FD R R 06
STP8 = 00000246 R R 06
STP9 = 0000028E R 06
ST$V_INHIB_MSG = 0000001C
SUCCESS = 00000001
SYSSASCEFC ***** GX 06
SYSSCMKRNL ***** GX 06
SYSSDACEFC ***** GX 06
SYSSDLCEFC ***** GX 06
SYSEXIT ***** GX 06
SYSSFAO ***** X 06
SYSSHIBER ***** GX 06
SYSSSETEXV ***** GX 06
SYSSSETPRN ***** GX 06
SYSSSETPRT ***** GX 06
SYSSSETPRV ***** GX 06
SYSSWAKE ***** GX 06
TEST_MOD_BEGIN = 00000019 R 02
TEST_MOD_FAIL = 0000002A R R 02
TEST_MOD_NAME = 00000000 R R 02
TEST_MOD_NAME_D = 00000009 R R 02
TEST_MOD_SUCC = 0000001F R R 02
TMD_ADDR = 0000004C R R 03
TMN_ADDR = 00000048 R R 03
TPID = 00000000 R 03
UETP$_SATSMS = 007480D9
UETP$_TEXT = 00741133

```

SATSSF01
Symbol table

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:10 VAX/VMS Macro V04-00
5-SEP-1984 04:27:16 [UETPSY.SRC]SATSSF01.MAR;1

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(1)

SA
VO

VECTOR SXV 0000008D R 02
WARNING = 00000000

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

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
RODATA	00000139 (313.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	00000117 (279.)	03 (3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
SATS_ACCVIO_1	00000200 (512.)	04 (4.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC PAGE
SATS_ACCVIO_2	0C000200 (512.)	05 (5.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC PAGE
SATSSF01	000005F3 (1523.)	06 (6.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC LONG

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.06	00:00:00.80
Command processing	113	00:00:00.67	00:00:02.19
Pass 1	392	00:00:13.04	00:00:26.28
Symbol table sort	0	00:00:01.56	00:00:02.84
Pass 2	144	00:00:02.92	00:00:05.54
Symbol table output	17	00:00:00.11	00:00:00.11
Psect synopsis output	5	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	703	00:00:18.39	00:00:37.79

The working set limit was 1350 pages.
79290 bytes (155 pages) of virtual memory were used to buffer the intermediate code.
There were 60 pages of symbol table space allocated to hold 999 non-local and 8 local symbols.
600 source lines were read in Pass 1, producing 30 object records in Pass 2.
58 pages of virtual memory were used to define 53 macros.

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

Macro library name	Macros defined
_\$255\$DUA28:[SHRLIB]UETP.MLB;1	12
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	2
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	36
TOTALS (all libraries)	50

1328 GETS were required to define 50 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSF01/OBJ=OBJ\$:SATSSF01 MSRC\$:SATSSF01/UPDATE=(ENH\$:SATSSF01)+EXECMLS/LIB+SHRLIB\$:UETP/LIB

