


```

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

```

```

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

```

(1)	57	DECLARATIONS
(1)	215	SATSSF10
(1)	302	SFSNA10
(1)	324	SFSNA11
(1)	346	SFSNA12
(1)	368	SFSNA20
(1)	392	SFSNA21
(1)	415	SFSNA22
(1)	441	SFSNA23
(1)	467	SFSNA24
(1)	493	SFSNO10
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(1)	537	SFSNO12
(1)	559	SFSNO20
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(1)	632	SFSNO23
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(2)	751	SFSNS20
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(2)	798	SFSNS22
(2)	824	SFSNS23
(2)	850	SFSNS24
(2)	927	EXECUTE & CLEANUP
(2)	936	TC CONTROL
(2)	1017	SUBROUTINES

```
0000 1 .TITLE SATSSF10 - SATS SYSTEM SERVICE TESTS (FAILING S.C.)
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5
0000 6 *****
0000 7 *
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0000 25 *
0000 26 *****
0000 27
0000 28
0000 29 :++
0000 30 : FACILITY: SATS SYSTEM SERVICE TESTS
0000 31
0000 32 : ABSTRACT: THE SATSSF10 MODULE TESTS THE EXECUTION OF CERTAIN
0000 33 : VMS SYSTEM SERVICES, INVOKED IN SUCH A WAY AS TO EXPECT FAILING
0000 34 : STATUS CODES. THE SYSTEM SERVICES TESTED AND THE STATUS CODES
0000 35 : EXPECTED ARE SUMMARIZED AS ARGUMENTS TO THE TESTSERV MACROS
0000 36 : WHICH APPEAR NEAR THE END OF THIS LISTING. SUCCESSFUL STATUS
0000 37 : CODES ARE TESTED IN OTHER MODULES.
0000 38
0000 39
0000 40 : ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE,
0000 41 : DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.
0000 42
0000 43 : AUTHOR: THOMAS L. CAFARELLA, CREATION DATE: MMM, 1978
0000 44 : PAUL D. FAY (DISPSERV & TESTSERV MACROS)
0000 45
0000 46 : MODIFIED BY:
0000 47
0000 48 : V03-002 LDJ0002 Larry D. Jones, 12-Dec-1981
0000 49 : Fixed message buffer length test to conform to new PROBE in
0000 50 : system service.
0000 51
0000 52 : V03-001 LDJ0001 Larry D. Jones, 07-Aug-1981
0000 53 : Added support for larger $$NDSMB buffer size support.
0000 54 : **
0000 55 : --
```

```
0000 57 .SBTTL DECLARATIONS
0000 58 :
0000 59 : INCLUDE FILES:
0000 60 :
0000 61 $PHDDEF : PROCESS HEADER OFFSET SYMBOLS
0000 62 $PCBDEF : PROCESS CONTROL BLOCK OFFSET SYMBS
0000 63 $STSDEF : STATUS MESSAGE SYMBOLS
0000 64 $PRVDEF : SYMBOL DEFS FOR PRIVILEGES
0000 65 $UETPDEF : UETP MSG CODE DEFINITIONS
0000 66 $SHR_MESSAGES UETP,116,<<TEXT,INFO>>
0000 67 : DEFINE UETPS_TEXT
0000 68 $OPCDEF : OPERATOR MSG TYPES ($SNDOPR)
0000 69 $ACCDEF : ACCOUNTING MSG TYPES ($SNDACC)
0000 70 :
0000 71 : MACROS:
0000 72 :
0000 73 :
0000 74 : EQUATED SYMBOLS:
0000 75 :
00000000 0000 76 WARNING = 0 : WARNING SEVERITY VALUE FOR MSGS
00000001 0000 77 SUCCESS = 1 : SUCCESS SEVERITY VALUE FOR MSGS
00000002 0000 78 ERROR = 2 : ERROR SEVERITY VALUE FOR MSGS
00000003 0000 79 INFO = 3 : INFORMATIONAL SEV VALUE FOR MSGS
00000004 0000 80 SEVERE = 4 : SEVERE (FATAL) SEV VALUE FOR MSGS
00000000 0000 81 TCG_NO = 0 : INITIALIZE TEST CASE GROUP NUMBER
00000000 0000 82 GRP_TOTAL = 0 : INITIALIZE TEST CASE GROUP TOTAL
00007FFF 0000 83 RO_THRU_SP = ^M<R0,R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP,SP>
0000 84 :
0000 85 : OWN STORAGE:
0000 86 :
```

```

00000000 88 .PSECT RODATA,RD,NOVRT,NOEXE, LONG
BFFC 0000 89 REG_COMP_MASK: .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP> ! ^X8000 -
0002 90 ; REG COMPARE MASK (HIGH-ORDER ...
0002 91 ; ... BIT MUST BE ON
0002 92 ERR_MSG_FAOCTL: STRING 1,<!!AC!1ZB!1ZB: REGISTER !2UW CONTENTS ALTERED>, -
0002 93 <; BEFORE SERVICE CALL: !8XL AFTER SERVICE CALL: !8XL>
006E 94 TEST_MOD_NAME: STRING C,<SATSSF10> ; TEST MODULE NAME
0077 95 TEST_MOD_BEG: STRING C,<begun> ; DISPOSITION FIELD OF TEST MOD MSG
007D 96 TEST_MOD_SUCC: STRING C,<successful> ; DISPOSITION FIELD OF TEST MOD MSG
0088 97 TEST_MOD_FAIL: STRING C,<failed> ; DISPOSITION FIELD OF TEST MOD MSG
008F 98 TEST_MOD_NAME_D: STRING 1,<SATSSF10> ; TEST MODULE NAME DESCRIPTOR
009F 99 TTNAME: STRING 1,<TT> ; TERMINAL LOGICAL NAME
00000000'00000000' 00A9 100 INADR: .LONG NOACCESS,NOACCESS ; PAGE ADDRESS OF NOACCESS PSECT
00000000'00000000' 00B1 101 PROT: .LONG PRTSC_NA ; PROTECTION CODE FOR NOACCESS PSECT
FFFFFFFF FFFFFFFF 00B5 102 ONES: .LONG -1,-1 ; A QUADWORD OF 1-BITS
00000002 00BD 103 MSGBUF_SNA: .LONG 2 ; MSGBUF ARGUMENT FOR SNDACC
000000C5' 00C1 104 .ADDRESS .+4
0003 00C5 105 .WORD ACCSK_ENABACC
00000001 00C7 106 MSGBUF_SNO: .LONG 1 ; MSGBUF ARGUMENT FOR SNDOPR
000000CF' 00CB 107 .ADDRESS .+4
05 00CF 108 .BYTE OPCS_RQ_CANCEL
00000004 00D0 109 MSGBUF_SNS: .LONG 4 ; MSGBUF ARGUMENT FOR SNDSMB
000000D8' 00D4 110 .ADDRESS .+4
00000000 00D8 111 .LONG 0
00DC 112 MSGBUF_SNA11: ; MSGBUF ARGUMENT FOR SNDACC
00DC 113 MSGBUF_SNO11: ; MSGBUF ARGUMENT FOR SNDOPR
00DC 114 MSGBUF_SNS11: ; MSGBUF ARGUMENT FOR SNDSMB
00000000 00DC 115 .LONG 0
000000E0' 00E0 116 .ADDRESS
000000FF 00E4 117 MSGBUF_SNA12: .LONG 255 ; MSGBUF ARGUMENT FOR SNDACC
000000E8' 00E8 118 .ADDRESS
000007D1 00EC 119 MSGBUF_SNO12: .LONG 2001 ; MSGBUF ARGUMENT FOR SNDOPR
00000000' 00F0 120 .ADDRESS SATSSF10
000007D1 00F4 121 MSGBUF_SNS12: .LONG 2001 ; MSGBUF ARGUMENT FOR SNDSMB
00000000' 00F8 122 .ADDRESS SATSSF10
00000000 00FC 123 CHAN_SNA: .LONG 0 ; CHAN ARG FOR SNDACC (MISSING ARG)
00000000 0100 124 CHAN_SNO: .LONG 0 ; CHAN ARG FOR SNDOPR (MISSING ARG)
00000000 0104 125 CHAN_SNS: .LONG 0 ; CHAN ARG FOR SNDSMB (MISSING ARG)
0108 126 CHAN_SNA21: ; CHAN ARGUMENT FOR SNDACC
0108 127 CHAN_SNO21: ; CHAN ARGUMENT FOR SNDOPR
0108 128 CHAN_SNS21: ; CHAN ARGUMENT FOR SNDSMB
C4653600 0108 129 .LONG -1000000000
010C 130 CHAN_SNA23: ; CHAN ARGUMENT FOR SNDACC
010C 131 CHAN_SNO23: ; CHAN ARGUMENT FOR SNDOPR
010C 132 CHAN_SNS23: ; CHAN ARGUMENT FOR SNDSMB
FFFFFFFF 010C 133 .LONG -1
0110 134 CHAN_SNA24: ; CHAN ARGUMENT FOR SNDACC
0110 135 CHAN_SNO24: ; CHAN ARGUMENT FOR SNDOPR
0110 136 CHAN_SNS24: ; CHAN ARGUMENT FOR SNDSMB
3B9ACA00 0110 137 .LONG 1000000000
0114 138 MY_DISK: STRING 1,<SYS$DISK> ; LOGICAL NAME FOR USER DISK

```

```
00000000 140 .PSECT RWDATA, RD, WRT, NOEXE
00000004 0000 141 TPID: .BLKL 1 ; PROCESS ID FOR THIS PROCESS
00000008 0004 142 CURRENT TC: .BLKL 1 ; PTR TO CURRENT TEST CASE
00000044 0008 143 REG_SAVE_AREA: .BLKL 15 ; SAVE AREA FOR ALL REGS (SANS PC)
007480D9 0044 144 MOD_MSG_CODE: .LONG UETPS_SATSMS ; TEST MODULE MSG CODE FOR PUTMSG
0000004C 0048 145 CLOB_REG_NO: .BLKL 1 ; CLOBBERED REG NO (FOR FAO ERR MSG)
00000050 004C 146 REG_BEFORE_SS: .BLKL 1 ; REG CONTENTS BEFORE S.S.
00000050 0050 147 ; (FOR FAO ERROR MSG)
00000054 0050 148 REG_AFTER_SS: .BLKL 1 ; REG CONTENTS AFTER S.S.
00000054 0054 149 ; (FOR FAO ERROR MSG)
00000054 0054 150 $$STN$$: STRING C < SF > ; ASCII PORTION OF TEST CASE NAME
0000006E 005C 151 TMN_ADDR: .ADDRESS TEST_MOD_NAME ; ADDR OF TEST MOD NAME FOR FAO
00000077 0060 152 TMD_ADDR: .ADDRESS TEST_MOD_BEG ; ADDR OF T.M. DISP FIELD FOR FAO
00000068 0064 153 TS_EP: .BLKL 1 ; ENTRY PNT FOR CURR TESTSERV MACRO
00000070 0068 154 RETADR: .BLKL 2 ; RETURN LONGWORDS FOR SETPRT
00000071 0070 155 PRVPRT: .BLKB 1 ; PROT RETURN BYTE FOR SETPRT
00000079 0071 156 PRIVMASK: .BLKB 1 ; ADDR OF PRIVILEGE MASK (IN PHD)
0000007D 0079 157 CHM_CONT: .BLKL 1 ; CHANGE MODE CONTINUE ADDRESS
00000091 007D 158 REGS: .BLKL 5 ; AREA FOR COND INDEX REGS (R2-R6)
00000091 0091 159 CHAN_SNA20: ; CHAN ARGUMENT FOR SNDACC
00000091 0091 160 CHAN_SNO20: ; CHAN ARGUMENT FOR SNDOPR
00000095 0091 161 CHAN_SNS20: ; CHAN ARGUMENT FOR SNDSMB
00000095 0095 162 .BLKL 1
00000095 0095 163 CHAN_SNA22: ; CHAN ARGUMENT FOR SNDACC
00000095 0095 164 CHAN_SNO22: ; CHAN ARGUMENT FOR SNDOPR
00000099 0095 165 CHAN_SNS22: ; CHAN ARGUMENT FOR SNDSMB
00000099 0095 166 .BLKL 1
```

```

00000000 168 .PSECT SATS ACCVIO_1, RD, WRT, NOEXE, PAGE
00000200 0000 169 EMPTY: .BLKB 512 ; RESERVE A PAGE OF SPACE
0200 170 :
0200 171 : +
0200 172 : *****
0200 173 : *
0200 174 : * THE ORDER OF STATEMENTS IN THIS PSECT IS CRITICAL. *
0200 175 : * DO NOT RE-ARRANGE THE VARIABLES. CONSULT SATS *
0200 176 : * FUNCTIONAL SPECIFICATION FOR A DESCRIPTION OF THE USE *
0200 177 : * OF THE EMPTY PSECT (AND ITS COMPANION PSECT, NOACCESS). *
0200 178 : *
0200 179 : *****
0200 180 : -
0200 181 :
000001F3 0200 182 : TYPE AAAAA_SSSX1 (TYPE AAAAA_SSSX2 IF NOT DESC) GO HERE:
0200 183 : = - 13 ; ALLOW ROOM FOR STRING DESCRIPTOR
00000006 01F3 184 : TYPE AAAAA_SSSX5 GO HERE:
000001FB' 01F7 185 : .LONG 6 ; STRING LENGTH (WILL CROSS PSECT BOUNDARY)
01FB 186 : .ADDRESS +4 ; STRING ADDRESS
000001FC 01FB 187 : TYPE AAAAA_SSSX3 GO HERE:
01FC 188 : .BLKB 1 ; LOW-ORDER BYTE OF STRING LENGTH
00000200 01FC 189 : TYPE AAAAA_SSSX2 GO HERE:
0200 190 : .BLKL 1 ; STRING LENGTH
0200 191 :
0200 192 :
0200 193 :
0200 194 :
00000000 195 .PSECT SATS ACCVIO_2, RD, WRT, NOEXE, PAGE
00000200 0000 196 NOACCESS: .BLKB 512 ; RESERVE A PAGE OF SPACE
00000000 0200 197 : = - 512 ; RETURN LOC CTR TO BEGINNING OF PSECT
00000000' 0000 198 : .ADDRESS EMPTY ; ADDRESS OF ACCESSIBLE STRING
00000000' 0004 199 : .ADDRESS EMPTY/^X100 ; ADDRESS OF ACCESSIBLE STRING
0008 200 : +
0008 201 : *** NOTE -- DO NOT CHANGE LOCATION OR SEQUENCE OF ABOVE STATEMENTS!
0008 202 : *** THIS PSECT (NOACCESS) MUST APPEAR IN MEMORY IMMEDIATELY
0008 203 : *** FOLLOWING THE EMPTY PSECT. PSECT NAMES AND OPTIONS WILL BE
0008 204 : *** CHOSEN TO FORCE THE DESIRED PSECT ORDERING.
0008 205 : -
0008 206 :
0008 207 MSGBUF_SNA10: STRING I, <SFSNA10> ; MSGBUF ARGUMENT FOR SNDACC
0017 208 MSGBUF_SNO10: STRING I, <SFSNO10> ; MSGBUF ARGUMENT FOR SNDOPR
0026 209 MSGBUF_SNS10: STRING I, <SFSNS10> ; MSGBUF ARGUMENT FOR SND SMB
0035 210 :
0035 211 :
0035 212 :
00000000 213 .PSECT SATSSF10, RD, WRT, EXE, LONG

```



```

0000 215 .SBTTL SATSSF10
0000 216 :++
0000 217 : FUNCTIONAL DESCRIPTION:
0000 218 :
0000 219 : AFTER PERFORMING SOME INITIAL HOUSEKEEPING, SUCH AS
0000 220 : PRINTING THE MODULE BEGIN MESSAGE AND ACQUIRING ALL PRIVILEGES,
0000 221 : THE SATSSF10 ROUTINE EXECUTES THE TEST SERV EXEC MACRO TO RUN
0000 222 : ALL TEST CASES. WHEN THE MACRO COMPLETES ITS EXECUTION, SATSSF10
0000 223 : PRINTS A TEST MODULE SUCCESS OR FAIL MESSAGE AND EXITS TO THE
0000 224 : OPERATING SYSTEM. TEST SERV EXEC CALLS THE TC CONTROL/TESTSERV
0000 225 : CO-ROUTINE PAIR ONCE PER TEST CASE GROUP TO EXECUTE ALL TEST
0000 226 : CASES IN THAT GROUP. EACH TEST CASE GROUP IS DEFINED BY BOUNDING
0000 227 : ITS TEST CASES WITH A TC GROUP MACRO BEFORE THE FIRST TEST CASE
0000 228 : AND A TCEND MACRO AFTER THE LAST ONE. THE TEST CASES THEMSELVES
0000 229 : ARE DEFINED WITHIN THESE BOUNDS BY PRECEDING EACH WITH A
0000 230 : NEXT TEST CASE MACRO. TC CONTROL/TESTSERV EXECUTES THE CODE
0000 231 : FOLLOWING EACH NEXT TEST CASE MACRO IMMEDIATELY BEFORE ISSUING
0000 232 : THE SYSTEM SERVICE AS REQUESTED IN THE TESTSERV MACRO. TC CONTROL/
0000 233 : TESTSERV ALSO CHECKS THE RESULTS OF THE SERVICE WITH RESPECT
0000 234 : TO ITS EXPECTED STATUS CODE AND PRINTS ANY REQUIRED FAILURE
0000 235 : MESSAGES FOR THE TEST CASE. THE CODE APPEARING AFTER EACH
0000 236 : NEXT TEST CASE MACRO IS MERELY TO SET UP CONDITIONS REQUIRED
0000 237 : FOR THE SYSTEM SERVICE AND TO CLEAN UP ANY RESOURCES ACQUIRED
0000 238 : BY THE PREVIOUS TEST CASE.
0000 239 :
0000 240 : CALLING SEQUENCE:
0000 241 :
0000 242 : $ RUN SATSSF10 ... (DCL COMMAND)
0000 243 :
0000 244 : INPUT PARAMETERS:
0000 245 :
0000 246 : NONE
0000 247 :
0000 248 : IMPLICIT INPUTS:
0000 249 :
0000 250 : NONE
0000 251 :
0000 252 : OUTPUT PARAMETERS:
0000 253 :
0000 254 : NONE
0000 255 :
0000 256 : IMPLICIT OUTPUTS:
0000 257 :
0000 258 : MESSAGES TO SYS$OUTPUT ARE THE ONLY OUTPUT FROM SATSSF10.
0000 259 : THEY ARE OF THE FORM:
0000 260 :
0000 261 : %UETP-S-SATSMS, TEST MODULE SATSSF10 BEGUN ... (BEGIN MSG)
0000 262 : %UETP-S-SATSMS, TEST MODULE SATSSF10 SUCCESSFUL ... (END MSG)
0000 263 : %UETP-E-SATSMS, TEST MODULE SATSSF10 FAILED ... (END MSG)
0000 264 : %UETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
0000 265 :
0000 266 : COMPLETION CODES:
0000 267 :
0000 268 : THE SATSSF10 ROUTINE TERMINATES WITH A $EXIT TO THE
0000 269 : OPERATING SYSTEM WITH A STATUS CODE DEFINED BY UETP$_SATSMS.
0000 270 :
0000 271 : SIDE EFFECTS:

```

```

0000 272 :
0000 273 : NONE
0000 274 :
0000 275 :--
0000 276 :
0000 277 :
0000 278 :
0000 279 SATSSF10:
OFFC 0000 280 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
0002 281 : ENTRY MASK
0002 282 $WAKE S TPID : GET PID OF THIS PROCESS
0011 283 $HIBER S : UNDO WAKE
0018 284 $SETPRN_S TEST MOD_NAME_D : SET PROCESS NAME
0025 285 BSBW MOD MSG PRINT : PRINT TEST MODULE BEGIN MSG
0028 286 MOVAL TEST MOD_SUCC,TMD,ADDR : ASSUME END MSG WILL SHOW SUCCESS
0033 287 INSV #SUCCESS,#0,#3,MOD_MSG_CODE : ADJUST STATUS CODE FOR SUCCESS
003C 288 MODE TO,10$,KRNL,NOREGS : KERNEL MODE TO ACCESS PHD
59 00000000'9F DO 0059 289 MOVL @#CTL$GL PHD,R9 : GET PROCESS HEADER ADDRESS
00000071'EF 69 DE 0060 290 MOVAL PHD$Q PRIVMSK(R9),PRIVMASK : GET PRIV MASK ADDRESS
0067 291 MODE FROM,T0$ : GET BACK TO USER MODE
0068 292 PRIV ADD,ALL : GET ALL PRIVILEGES
0088 293 DISPSERV : SET UP DISPLAY INFO FOR TESTSERV
021D 294 $SETPRT_S INADR=INADR,RETADR=RETADR,-
021D 295 PROT=PROT,PRVPRT=PRVPRT
023E 296 : SET NOACCESS PSECT
023E 297 : ... FOR NO USER ACCESS
0816 31 023E 298 BRW EXECUTE : GO EXECUTE ALL TEST CASES
0241 299 :
0241 300 TC_GROUP SNA,1,TS1
0268 301 :
0268 302 NEXT_TEST_CASE SFSNA10

```

```
0268 303 :  
0268 304 +-  
0268 305 *-----*  
0268 306 *  
0268 307 * TEST CASE NAME: SFSNA10  
0268 308 *  
0268 309 * SYSTEM SERVICE: SNDACC  
0268 310 *  
0268 311 * ARGUMENT UNDER TEST: MSGBUF_SNA10  
0268 312 *  
0268 313 * INPUT CONDITIONS:  
0268 314 * MESSAGE BUFFER DESCRIPTOR IN NON-ACCESSIBLE PSECT.  
0268 315 *  
0268 316 * EXPECTED RESULTS:  
0268 317 * 1) SYSTEM STATUS CODE: ACCVIO  
0268 318 * 2) REGISTERS R2 THROUGH FP UNCHANGED  
0268 319 *  
0268 320 *-----*  
0268 321 --  
0268 322 :  
0268 323 :  
0268 324 * NEXT_TEST_CASE SFSNA11
```

```
0274 325 :  
0274 326 :++  
0274 327 :*****  
0274 328 :*  
0274 329 :* TEST CASE NAME: SFSNA11  
0274 330 :*  
0274 331 :* SYSTEM SERVICE: SNDACC  
0274 332 :*  
0274 333 :* ARGUMENT UNDER TEST: MSGBUF_SNA11  
0274 334 :*  
0274 335 :* INPUT CONDITIONS:  
0274 336 :* INVALID MESSAGE LENGTH (ZERO)  
0274 337 :*  
0274 338 :* EXPECTED RESULTS:  
0274 339 :* 1) SYSTEM STATUS CODE: BADPARAM  
0274 340 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0274 341 :*  
0274 342 :*****  
0274 343 :--  
0274 344 :  
0274 345 :  
0274 346 : NEXT_TEST_CASE SFSNA12
```

```
0280 347 :  
0280 348 :++  
0280 349 :*****  
0280 350 :*  
0280 351 :* TEST CASE NAME: SFSNA12  
0280 352 :*  
0280 353 :* SYSTEM SERVICE: SNDACC  
0280 354 :*  
0280 355 :* ARGUMENT UNDER TEST: MSGBUF_SNA12  
0280 356 :*  
0280 357 :* INPUT CONDITIONS:  
0280 358 :* INVALID MESSAGE LENGTH (255)  
0280 359 :*  
0280 360 :* EXPECTED RESULTS:  
0280 361 :* 1) SYSTEM STATUS CODE: BADPARAM  
0280 362 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0280 363 :*  
0280 364 :*  
0280 365 :*  
0280 366 :*  
0280 367 :*  
0280 368 :*  
NEXT_TEST_CASE SFSNA20
```

```
028C 369 :  
028C 370 :++  
028C 371 :*****  
028C 372 :*  
028C 373 :* TEST CASE NAME: SFSNA20  
028C 374 :*  
028C 375 :* SYSTEM SERVICE: SNDACC  
028C 376 :*  
028C 377 :* ARGUMENT UNDER TEST: CHAN_SNA20  
028C 378 :*  
028C 379 :* INPUT CONDITIONS:  
028C 380 :* DEVICE IDENTIFIED BY CHAN ARGUMENT IS NOT A MAILBOX.  
028C 381 :*  
028C 382 :* EXPECTED RESULTS:  
028C 383 :* 1) SYSTEM STATUS CODE: DEVNOTMBX  
028C 384 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
028C 385 :*  
028C 386 :*-----  
028C 387 :*  
028C 388 :*  
028C 389 :* $ASSIGN_S DEVNAM=MY_DISK, - ; ASSIGN A CHANNEL TO A REAL DEVICE  
028C 390 :* CHAN=CHAN_SNA20  
02A1 391 :  
02A1 392 : NEXT_TEST_CASE SFSNA21
```

```
02AD 393 :  
02AD 394 :++  
02AD 395 :*****  
02AD 396 :*  
02AD 397 :* TEST CASE NAME: SFSNA21  
02AD 398 :*  
02AD 399 :* SYSTEM SERVICE: SNDACC  
02AD 400 :*  
02AD 401 :* ARGUMENT UNDER TEST: CHAN_SNA21  
02AD 402 :*  
02AD 403 :* INPUT CONDITIONS:  
02AD 404 :* INVALID CHANNEL NUMBER (LARGE NEGATIVE)  
02AD 405 :*  
02AD 406 :* EXPECTED RESULTS:  
02AD 407 :* 1) SYSTEM STATUS CODE: IVCHAN  
02AD 408 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
02AD 409 :*  
02AD 410 :*****  
02AD 411 :--  
02AD 412 :  
02AD 413 : $DASSGN_S CHAN=CHAN_SNA20 ; DE-ASSIGN CHANNEL ASSIGNED IN SFSNA20  
02BB 414 :  
02BB 415 : NEXT_TEST_CASE SFSNA22
```

```
02C7 416 :  
02C7 417 :+  
02C7 418 :*****  
02C7 419 :*  
02C7 420 :* TEST CASE NAME: SFSNA22  
02C7 421 :*  
02C7 422 :* SYSTEM SERVICE: SNDACC  
02C7 423 :*  
02C7 424 :* ARGUMENT UNDER TEST: CHAN_SNA22  
02C7 425 :*  
02C7 426 :* INPUT CONDITIONS:  
02C7 427 :* ISSUE $SNDACC WITH MAILBOX ASSIGNED FROM KERNEL MODE.  
02C7 428 :*  
02C7 429 :* EXPECTED RESULTS:  
02C7 430 :* 1) SYSTEM STATUS CODE: NOPRIV  
02C7 431 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
02C7 432 :*  
02C7 433 :*****  
02C7 434 :--  
02C7 435 :  
02C7 436 : MODE TO,10$,KRNL,NOREGS ; KERNEL MODE FOR $CREMBX  
02E4 437 : $CREMBX,S PRMFLG=#1,- ; ASSIGN MAILBOX FROM KERNEL MODE  
02E4 438 : CHAN=CHAN_SNA22  
02F9 439 : MODE FROM,10$ ; BACK TO USER MODE  
02FA 440 :  
02FA 441 : NEXT_TEST_CASE SFSNA23
```



```
0306 442 :  
0306 443 :++  
0306 444 :*****  
0306 445 :*  
0306 446 :* TEST CASE NAME: SFSNA23  
0306 447 :*  
0306 448 :* SYSTEM SERVICE: SNDACC  
0306 449 :*  
0306 450 :* ARGUMENT UNDER TEST: CHAN_SNA23  
0306 451 :*  
0306 452 :* INPUT CONDITIONS:  
0306 453 :* INVALID CHANNEL NUMBER (-1)  
0306 454 :*  
0306 455 :* EXPECTED RESULTS:  
0306 456 :* 1) SYSTEM STATUS CODE: IVCHAN  
0306 457 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0306 458 :*  
0306 459 :*  
0306 460 :--  
0306 461 :  
0306 462 : MODE TO,20$,KRNL,NOREGS ; KERNEL MODE FOR $DELMBX  
0323 463 : $DELMBX_S CHAN=CHAN_SNA22 ; DELETE MAILBOX CREATED IN SFSNA22  
0331 464 : $DASSGN_S CHAN=CHAN_SNA22 ;  
033F 465 : MODE FROM,20$ ; BACK TO USER MODE  
0340 466 :  
0340 467 : NEXT_TEST_CASE SFSNA24
```

```
034C 468 :  
034C 469 :++  
034C 470 :*****  
034C 471 :*  
034C 472 :* TEST CASE NAME: SFSNA24  
034C 473 :*  
034C 474 :* SYSTEM SERVICE: SNDACC  
034C 475 :*  
034C 476 :* ARGUMENT UNDER TEST: CHAN_SNA24  
034C 477 :*  
034C 478 :* INPUT CONDITIONS:  
034C 479 :* INVALID CHANNEL NUMBER (1 BILLION)  
034C 480 :*  
034C 481 :* EXPECTED RESULTS:  
034C 482 :* 1) SYSTEM STATUS CODE: IVCHAN  
034C 483 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
034C 484 :*  
034C 485 :*****  
034C 486 :--  
034C 487 :  
034C 488 :  
034C 489 : TCEND
```

SATSSF10
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. ^{I 11} 16-SEP-1984 00:39:14 VAX/VMS Macro V04-00
5-SEP-1984 04:28:38 [UETPSY.SRC]SATSSF10.MAR;1

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034D	490	:		
034D	491	:	TC_GROUP	SNO,1,TS2
0374	492	:		
0374	493	:	NEXT_TEST_CASE	SFSNO10

```
0374 494 :  
0374 495 :++  
0374 496 :*****  
0374 497 :*  
0374 498 :* TEST CASE NAME: SFSNO10  
0374 499 :*  
0374 500 :* SYSTEM SERVICE: SNDOPR  
0374 501 :*  
0374 502 :* ARGUMENT UNDER TEST: MSGBUF_SNO10  
0374 503 :*  
0374 504 :* INPUT CONDITIONS:  
0374 505 :* MESSAGE BUFFER DESCRIPTOR IN NON-ACCESSIBLE PSECT.  
0374 506 :*  
0374 507 :* EXPECTED RESULTS:  
0374 508 :* 1) SYSTEM STATUS CODE: ACCVIO  
0374 509 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0374 510 :*  
0374 511 :*****  
0374 512 :--  
0374 513 :  
0374 514 :  
0374 515 : NEXT_TEST_CASE SFSNO11
```

```
0380 516 :
0380 517 :++
0380 518 :*****
0380 519 :*
0380 520 :* TEST CASE NAME:          SFSNO11
0380 521 :*
0380 522 :* SYSTEM SERVICE:         SNDOPR
0380 523 :*
0380 524 :* ARGUMENT UNDER TEST:   MSGBUF_SNO11
0380 525 :*
0380 526 :* INPUT CONDITIONS:
0380 527 :*   INVALID MESSAGE LENGTH (ZERO)
0380 528 :*
0380 529 :* EXPECTED RESULTS:
0380 530 :*   1) SYSTEM STATUS CODE: BADPARAM
0380 531 :*   2) REGISTERS R2 THROUGH FP UNCHANGED
0380 532 :*
0380 533 :*****
0380 534 :--
0380 535 :
0380 536 :
0380 537 : NEXT_TEST_CASE SFSNO12
```

```
038C 538 :
038C 539 :+
038C 540 :*****
038C 541 :*
038C 542 :* TEST CASE NAME: SFSNO12
038C 543 :*
038C 544 :* SYSTEM SERVICE: SNDOPR
038C 545 :*
038C 546 :* ARGUMENT UNDER TEST: MSGBUF_SNO12
038C 547 :*
038C 548 :* INPUT CONDITIONS:
038C 549 :* INVALID MESSAGE LENGTH (2001)
038C 550 :*
038C 551 :* EXPECTED RESULTS:
038C 552 :* 1) SYSTEM STATUS CODE: BADPARAM
038C 553 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
038C 554 :*
038C 555 :*****
038C 556 :--
038C 557 :
038C 558 :
038C 559 : NEXT_TEST_CASE SFSNO20
```

```
0398 560 :  
0398 561 :++  
0398 562 :*****  
0398 563 :*  
0398 564 :* TEST CASE NAME: SFSNO20  
0398 565 :*  
0398 566 :* SYSTEM SERVICE: SNDOPR  
0398 567 :*  
0398 568 :* ARGUMENT UNDER TEST: CHAN_SNO20  
0398 569 :*  
0398 570 :* INPUT CONDITIONS:  
0398 571 :* DEVICE IDENTIFIED BY CHAN ARGUMENT IS NOT A MAILBOX.  
0398 572 :*  
0398 573 :* EXPECTED RESULTS:  
0398 574 :* 1) SYSTEM STATUS CODE: DEVNOTMBX  
0398 575 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0398 576 :*  
0398 577 :*****  
0398 578 :--  
0398 579 :  
0398 580 : $ASSIGN_S DEVNAM=MY_DISK, - ; ASSIGN A CHANNEL TO A REAL DEVICE  
0398 581 : CHAN=CHAN_SNO20  
03AD 582 :  
03AD 583 : NEXT_TEST_CASE SFSNO21
```

```
03B9 584 :  
03B9 585 :++  
03B9 586 :*****  
03B9 587 :*  
03B9 588 :* TEST CASE NAME: SFSNO21  
03B9 589 :*  
03B9 590 :* SYSTEM SERVICE: SNDOPR  
03B9 591 :*  
03B9 592 :* ARGUMENT UNDER TEST: CHAN_SNO21  
03B9 593 :*  
03B9 594 :* INPUT CONDITIONS:  
03B9 595 :* INVALID CHANNEL NUMBER (LARGE NEGATIVE)  
03B9 596 :*  
03B9 597 :* EXPECTED RESULTS:  
03B9 598 :* 1) SYSTEM STATUS CODE: IVCHAN  
03B9 599 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
03B9 600 :*  
03B9 601 :*****  
03B9 602 :--  
03B9 603 :  
03B9 604 : $DASSGN_S CHAN=CHAN_SNO20 ; DE-ASSIGN CHANNEL ASSIGNED IN SFSNO20  
03C7 605 :  
03C7 606 : NEXT_TEST_CASE SFSNO22
```



```
03D3 607 :  
03D3 608 :++  
03D3 609 :*****  
03D3 610 :*  
03D3 611 :* TEST CASE NAME: SFSNO22  
03D3 612 :*  
03D3 613 :* SYSTEM SERVICE: SNDOPR  
03D3 614 :*  
03D3 615 :* ARGUMENT UNDER TEST: CHAN_SNO22  
03D3 616 :*  
03D3 617 :* INPUT CONDITIONS:  
03D3 618 :* ISSUE $SNDOPR WITH MAILBOX ASSIGNED FROM KERNEL MODE.  
03D3 619 :*  
03D3 620 :* EXPECTED RESULTS:  
03D3 621 :* 1) SYSTEM STATUS CODE: NOPRIV  
03D3 622 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
03D3 623 :*  
03D3 624 :*****  
03D3 625 :--  
03D3 626 :  
03D3 627 :* MODE TO,10$,KRNL,NOREGS ; KERNEL MODE FOR $CREMBX  
03F0 628 :* $CREMBX_S PRMFLG=#1, - ; ASSIGN MAILBOX FROM KERNEL MODE  
03F0 629 :* CHAN=CHAN_SNO22  
0405 630 :* MODE FROM,10$ ; BACK TO USER MODE  
0406 631 :  
0406 632 :* NEXT_TEST_CASE SFSNO23
```

```
0412 633 :
0412 634 :++
0412 635 :*****
0412 636 :*
0412 637 :* TEST CASE NAME:          SFSNO23
0412 638 :*
0412 639 :* SYSTEM SERVICE:          SNDOPR
0412 640 :*
0412 641 :* ARGUMENT UNDER TEST:     CHAN_SNO23
0412 642 :*
0412 643 :* INPUT CONDITIONS:
0412 644 :*   INVALID CHANNEL NUMBER (-1)
0412 645 :*
0412 646 :* EXPECTED RESULTS:
0412 647 :*   1) SYSTEM STATUS CODE:  IVCHAN
0412 648 :*   2) REGISTERS R2 THROUGH FP UNCHANGED
0412 649 :*
0412 650 :*****
0412 651 :--
0412 652 :
0412 653 :   MODE      TO,20$,KRNL,NOREGS      ; KERNEL MODE FOR $DELMBX
042F 654 :   $DELMBX_S CHAN=CHAN_SNO22         ; DELETE MAILBOX CREATED IN SFSNO22
043D 655 :   $DASSGN_S CHAN=CHAN_SNO22         ;
044B 656 :   MODE      FROM,20$                 ; BACK TO USER MODE
044C 657 :
044C 658 :   NEXT_TEST_CASE SFSNO24
```

SATSSF10
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:39:14 VAX/VMS Macro V04-00
SFSNO24 5-SEP-1984 04:28:38 [UETPSY.SRC]SATSSF10.MAR;1

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0458 659 :
0458 660 :++
0458 661 :*****
0458 662 :*

0458 664 : * TEST CASE NAME: SFSNO24
0458 665 : *
0458 666 : * SYSTEM SERVICE: SNDOPR
0458 667 : *
0458 668 : * ARGUMENT UNDER TEST: CHAN_SNO24
0458 669 : *
0458 670 : * INPUT CONDITIONS:
0458 671 : * INVALID CHANNEL NUMBER (1 BILLION)
0458 672 : *
0458 673 : * EXPECTED RESULTS:
0458 674 : * 1) SYSTEM STATUS CODE: IVCHAN
0458 675 : * 2) REGISTERS R2 THROUGH FP UNCHANGED
0458 676 : *
0458 677 : *-----
0458 678 : *
0458 679 : *
0458 680 : *
0458 681 : * TCEND

SATSSF10
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. ^{F 12} 16-SEP-1984 00:39:14 VAX/VMS Macro V04-00 Page 26
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0459	682	:		
0459	683	:	TC_GROUP	SNS,1,TS3
0480	684	:		
0480	685	:	NEXT_TEST_CASE	SFSNS10

```
0480 686 :  
0480 687 :++  
0480 688 :*****  
0480 689 :*  
0480 690 :* TEST CASE NAME: SFSNS10  
0480 691 :*  
0480 692 :* SYSTEM SERVICE: SNDSMB  
0480 693 :*  
0480 694 :* ARGUMENT UNDER TEST: MSGBUF_SNS10  
0480 695 :*  
0480 696 :* INPUT CONDITIONS:  
0480 697 :* MESSAGE BUFFER DESCRIPTOR IN NON-ACCESSIBLE PSECT.  
0480 698 :*  
0480 699 :* EXPECTED RESULTS:  
0480 700 :* 1) SYSTEM STATUS CODE: ACCVIO  
0480 701 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0480 702 :*  
0480 703 :*****  
0480 704 :--  
0480 705 :  
0480 706 :  
0480 707 : NEXT_TEST_CASE SFSNS11
```

```
048C 708 :  
048C 709 :+  
048C 710 :*****  
048C 711 :*  
048C 712 :* TEST CASE NAME: SFSNS11  
048C 713 :*  
048C 714 :* SYSTEM SERVICE: SNDSMB  
048C 715 :*  
048C 716 :* ARGUMENT UNDER TEST: MSGBUF_SNS11  
048C 717 :*  
048C 718 :* INPUT CONDITIONS:  
048C 719 :* INVALID MESSAGE LENGTH (ZERO)  
048C 720 :*  
048C 721 :* EXPECTED RESULTS:  
048C 722 :* 1) SYSTEM STATUS CODE: BADPARAM  
048C 723 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
048C 724 :*  
048C 725 :*****  
048C 726 :--  
048C 727 :  
048C 728 :  
048C 729 : NEXT_TEST_CASE SFSNS12
```

```
0498 730 :  
0498 731 :++  
0498 732 :*****  
0498 733 :*  
0498 734 :* TEST CASE NAME: SFSNS12  
0498 735 :*  
0498 736 :* SYSTEM SERVICE: SNDSMB  
0498 737 :*  
0498 738 :* ARGUMENT UNDER TEST: MSGBUF_SNS12  
0498 739 :*  
0498 740 :* INPUT CONDITIONS:  
0498 741 :* INVALID MESSAGE LENGTH (2001)  
0498 742 :*  
0498 743 :* EXPECTED RESULTS:  
0498 744 :* 1) SYSTEM STATUS CODE: BADPARAM  
0498 745 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0498 746 :*  
0498 747 :*****  
0498 748 :--  
0498 749 :  
0498 750 :  
0498 751 : NEXT_TEST_CASE SFSNS20
```



```
04A4 752 :  
04A4 753 :++  
04A4 754 :*****  
04A4 755 :*  
04A4 756 :* TEST CASE NAME: SFSNS20  
04A4 757 :*  
04A4 758 :* SYSTEM SERVICE: SNDSMB  
04A4 759 :*  
04A4 760 :* ARGUMENT UNDER TEST: CHAN_SNS20  
04A4 761 :*  
04A4 762 :* INPUT CONDITIONS:  
04A4 763 :* DEVICE IDENTIFIED BY CHAN ARGUMENT IS NOT A MAILBOX.  
04A4 764 :*  
04A4 765 :* EXPECTED RESULTS:  
04A4 766 :* 1) SYSTEM STATUS CODE: DEVNOTMBX  
04A4 767 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
04A4 768 :*  
04A4 769 :*****  
04A4 770 :--  
04A4 771 :  
04A4 772 : $ASSIGN_S DEVNAM=MY_DISK, - ; ASSIGN A CHANNEL TO A REAL DEVICE  
04A4 773 : CHAN=CHAN_SNS20  
04B9 774 :  
04B9 775 : NEXT_TEST_CASE SFSNS21
```



```
051E 825 :  
051E 826 :++  
051E 827 :*****  
051E 828 :*  
051E 829 :* TEST CASE NAME: SFSNS23  
051E 830 :*  
051E 831 :* SYSTEM SERVICE: SNDSMB  
051E 832 :*  
051E 833 :* ARGUMENT UNDER TEST: CHAN_SNS23  
051E 834 :*  
051E 835 :* INPUT CONDITIONS:  
051E 836 :* INVALID CHANNEL NUMBER (-1)  
051E 837 :*  
051E 838 :* EXPECTED RESULTS:  
051E 839 :* 1) SYSTEM STATUS CODE: IVCHAN  
051E 840 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
051E 841 :*  
051E 842 :*****  
051E 843 :--  
051E 844 :  
051E 845 : MODE TO,20$,KRNL,NOREGS ; KERNEL MODE FOR $DELMBX  
053B 846 : $DELMBX_S CHAN=CHAN_SNS22 ; DELETE MAILBOX CREATED IN SFSNS22  
0549 847 : $DASSGN_S CHAN=CHAN_SNS22 ;  
0557 848 : MODE FROM,20$ ; BACK TO USER MODE  
0558 849 :  
0558 850 : NEXT_TEST_CASE SFSNS24
```

```
0564 851 :  
0564 852 :++  
0564 853 :*****  
0564 854 :*  
0564 855 :* TEST CASE NAME: SFSNS24  
0564 856 :*  
0564 857 :* SYSTEM SERVICE: SNDSMB  
0564 858 :*  
0564 859 :* ARGUMENT UNDER TEST: CHAN_SNS24  
0564 860 :*  
0564 861 :* INPUT CONDITIONS:  
0564 862 :* INVALID CHANNEL NUMBER (1 BILLION)  
0564 863 :*  
0564 864 :* EXPECTED RESULTS:  
0564 865 :* 1) SYSTEM STATUS CODE: IVCHAN  
0564 866 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0564 867 :*  
0564 868 :*****  
0564 869 :--  
0564 870 :  
0564 871 :  
0564 872 : TCEND
```

```
0565 873 TS1:
0565 874 TESTSERV SNDACC,ERR,SATS, -
0565 875 <1,MSGBUF_SNA, -
0565 876 MSGBUF_SNA10,ACCVIO, - : SFSNA10
0565 877 MSGBUF_SNA11,BADPARAM, - : SFSNA11
0565 878 MSGBUF_SNA12,BADPARAM, - : SFSNA12
0565 879 >, -
0565 880 <1,CHAN_SNA, -
0565 881 CHAN_SNA20,DEVNOTMBX, - : SFSNA20
0565 882 CHAN_SNA21,IVCHAN, - : SFSNA21
0565 883 CHAN_SNA22,NOPRIV, - : SFSNA22
0565 884 CHAN_SNA23,IVCHAN, - : SFSNA23
0565 885 CHAN_SNA24,IVCHAN, - : SFSNA24
0565 886 >, -
0565 887 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC
0565 888
0565 889
06EB 890
```

```
070B 891 TS2:
070B 892 TESTSERV SNDOPR,ERR,SATS, -
070B 893 <1,MSGBUF_SNO, -
070B 894 MSGBUF_SNO10,ACCVIO, - : SFSNO10
070B 895 MSGBUF_SNO11,BADPARAM, - : SFSNO11
070B 896 MSGBUF_SNO12,BADPARAM, - : SFSNO12
070B 897 >, -
070B 898 <1,CHAN_SNO, -
070B 899 CHAN_SNO20,DEVNOTMBX, - : SFSNO20
070B 900 CHAN_SNO21,IVCHAN, - : SFSNO21
070B 901 CHAN_SNO22,NOPRIV, - : SFSNO22
070B 902 CHAN_SNO23,IVCHAN, - : SFSNO23
070B 903 CHAN_SNO24,IVCHAN, - : SFSNO24
070B 904 >, -
070B 905
070B 906
070B 907
0891 908 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
0881 909 TS3:
0881 910 TESTSERV SNDSMB,ERR,SATS, -
0881 911 <1,MSGBUF_SNS, -
0881 912 MSGBUF_SNS10,ACCVIO, - : SFSNS10
0881 913 MSGBUF_SNS11,BADPARAM, - : SFSNS11
0881 914 MSGBUF_SNS12,BADPARAM, - : SFSNS12
0881 915 >, -
0881 916 <1,CHAN_SNS, -
0881 917 CHAN_SNS20,DEVNOTMBX, - : SFSNS20
0881 918 CHAN_SNS21,IVCHAN, - : SFSNS21
0881 919 CHAN_SNS22,NOPRIV, - : SFSNS22
0881 920 CHAN_SNS23,IVCHAN, - : SFSNS23
0881 921 CHAN_SNS24,IVCHAN, - : SFSNS24
0881 922 >, -
0881 923
0881 924
0A37 925 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC
0A37 926
```


SATSSF10
V04-000

E 13
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:39:14 VAX/VMS Macro V04-00
EXECUTE & CLEANUP 5-SEP-1984 04:28:38 [UETPSY.SRC]SATSSF10.MAR;1

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00000044'EF	01	1C	0138	30	0A57	927	.SBTTL EXECUTE & CLEANUP	
			01	F0	0A57	928	EXECUTE:	
					0A57	929	TEST_SERV_EXEC	; EXECUTE ALL T. CASES IN ALL GROUPS
					0A75	930	CLEANUP:	
					0A75	931	BSBW MOD_MSG_PRINT	; PRINT TEST MODULE END MSG
					0A78	932	INSV #1,#STSSV_INHIB_MSG,#1,MOD_MSG_CODE	; INHIBIT PRINTING
					0A81	933		; INHIBIT PRINTING
					0A81	934	\$EXIT_S MOD_MSG_CODE	; EXIT TO OP SYS WITH MSG CODE

```

OABE 936 .SBTTL TC_CONTROL
OABE 937 :++
OABE 938 : FUNCTIONAL DESCRIPTION:
OABE 939 :
OABE 940 : THE TC CONTROL SUBROUTINE IS CALLED BY THE TEST_SERV_EXEC
OABE 941 : MACRO TO EXECUTE A GROUP OF TEST CASES. A GROUP IS DEFINED BY A TC_GROUP
OABE 942 : MACRO. FOR EACH TC GROUP MACRO, THERE IS A CORRESPONDING TESTSERV MACRO.
OABE 943 : TESTSERV CONTAINS CODE TO EXECUTE SYSTEM SERVICES AND CHECK THE RETURNED
OABE 944 : STATUS CODE VALUES. TESTSERV ARGUMENTS ARE CODED TO SPECIFY ALL THE SYSTEM
OABE 945 : SERVICE ARGUMENT VALUES AND THE EXPECTED STATUS CODE FOR EACH TEST CASE
OABE 946 : DEFINED BY A NEXT TEST CASE MACRO WITHIN THE GROUP. TC CONTROL USES A
OABE 947 : CO-ROUTINE INTERFACE TO ENTER THE CODE OF THE APPROPRIATE TESTSERV MACRO
OABE 948 : IN VARIOUS PLACES. THE FIRST ENTRY OCCURS ONCE PER GROUP TO ALLOW TESTSERV
OABE 949 : TO DO SOME INITIALIZATION. THEN TWO ENTRIES ARE MADE FOR EACH TEST CASE IN
OABE 950 : THE GROUP. THE FIRST ALLOWS TESTSERV TO ISSUE THE SUBJECT SYSTEM SERVICE.
OABE 951 : THE SECOND ENTRY FOR THE TEST CASE CAUSES TESTSERV TO CHECK THE RETURNED
OABE 952 : STATUS CODE, PRINTING A FAILURE MESSAGE IF IT IS NOT THE EXPECTED CODE.
OABE 953 : IF THERE ARE NO MORE TEST CASES IN THE CURRENT GROUP, TESTSERV (NOT TC CONTROL)
OABE 954 : RETURNS DIRECTLY TO TEST_SERV_EXEC (RSB ACTUALLY ISSUED IN TS_CLEANUP MACRO)
OABE 955 : FROM THIS SECOND ENTRY; OTHERWISE, CONTROL RETURNS TO TC CONTROL WHICH
OABE 956 : IN TURN ENTERS TESTSERV AGAIN FOR THE NEXT TEST CASE. THE FAILURE OF A
OABE 957 : TEST CASE DOES NOT CAUSE TERMINATION OF THE TEST MODULE.
OABE 958 :
OABE 959 : CALLING SEQUENCE:
OABE 960 :
OABE 961 : BSBW TC_CONTROL (ISSUED WITHIN THE TEST_SERV_EXEC MACRO)
OABE 962 : (RSB IS ISSUED WITHIN THE TS_CLEANUP MACRO)
OABE 963 :
OABE 964 : INPUT PARAMETERS:
OABE 965 :
OABE 966 : NONE
OABE 967 :
OABE 968 : IMPLICIT INPUTS:
OABE 969 :
OABE 970 : ARGUMENTS SPECIFIED ON EACH TESTSERV MACRO MAY BE VIEWED AS
OABE 971 : INPUTS, SINCE TC_CONTROL AND TESTSERV ACT AS CO-ROUTINES.
OABE 972 :
OABE 973 : OUTPUT PARAMETERS:
OABE 974 :
OABE 975 : SEVERITY CODE FIELD OF MOD MSG CODE (BITS 0,1,2) IS SET TO ERROR
OABE 976 : IF ANY TEST CASE IN THE CURRENT GROUP FAILS; OTHERWISE IT REMAINS
OABE 977 : SET TO SUCCESSFUL.
OABE 978 :
OABE 979 : IMPLICIT OUTPUTS:
OABE 980 :
OABE 981 : XUETP-I-TEXT, ERROR MESSAGES ARE WRITTEN TO SYSSOUTPUT BY
OABE 982 : THE TESTSERV MACRO (CO-ROUTINE WITH TC_CONTROL)
OABE 983 :
OABE 984 : COMPLETION CODES:
OABE 985 :
OABE 986 : NONE
OABE 987 :
OABE 988 : SIDE EFFECTS:
OABE 989 :
OABE 990 : NONE
OABE 991 :
OABE 992 :--

```



```

      OACF 1017 .SBTTL SUBROUTINES
      OACF 1018 REG_SAVE:
      OACF 1019 :
      OACF 1020 :*****
      OACF 1021 :*
      OACF 1022 :* SAVES R0 THRU SP IN REG_SAVE_AREA
      OACF 1023 :*
      OACF 1024 :*****
      OACF 1025 :
      00000008'EF 7FFF 8F BB OACF 1026 PUSHR #R0_THRU_SP ; SAVE ALL REGS ON STACK
                  6E 3C 28 OAD3 1027 MOV C3 #60,(SP),REG_SAVE_AREA ; SAVE REGS (BEFORE S.S.)
                  7FFF 8F BA OADB 1028 POPR #R0_THRU_SP ; CLEAN UP STACK
                  05 OADF 1029 RSB ; .... AND RETURN
      OAE0 1030 :
      OAE0 1031 :
      OAE0 1032 :
      OAE0 1033 :
      OAE0 1034 REG_REST:
      OAE0 1035 :
      OAE0 1036 :
      OAE0 1037 :*****
      OAE0 1038 :*
      OAE0 1039 :* RESTORES R0 THRU SP FROM REG_SAVE_AREA
      OAE0 1040 :*
      OAE0 1041 :*****
      OAE0 1042 :
      6E 00000008'EF 5E 3C C2 OAE0 1043 SUBL2 #60,SP ; MOVE SP TO MAKE ROOM FOR REGS
                  EF 3C 28 OAE3 1044 MOV C3 #60,REG_SAVE_AREA,(SP) ; MOVE REGS ONTO STACK FOR POP
                  7FFF 8F BA OAEB 1045 POPR #R0_THRU_SP ; RESTORE ALL REGS FOR TESTSERV
                  05 OAEF 1046 RSB ; ... AND RETURN

```

```

OAF0 1048 REG_COMP:
OAF0 1049 :
OAF0 1050 : *****
OAF0 1051 : *
OAF0 1052 : * 1) PUSHES ALL REGS ONTO STACK *
OAF0 1053 : * 2) COMPARES REGISTER IMAGES FROM STACK WITH CORRESPONDING *
OAF0 1054 : * IMAGES FROM REG_SAVE_AREA FOR ALL REGISTERS SPECIFIED *
OAF0 1055 : * IN REG_COMP_MASK. *
OAF0 1056 : * 3) FOR EACH UNEQUAL COMPARE, AN ERROR MESSAGE IS PRINTED *
OAF0 1057 : * (USING $FAO AND $OUTPUT SYSTEM SERVICES). *
OAF0 1058 : * 4) POPS ALL REGS OFF OF STACK *
OAF0 1059 : *
OAF0 1060 : *****
OAF0 1061 :
56 7FFF 8F BB OAF0 1062 PUSHR #R0_THRU_SP : SAVE ALL REGISTERS ON STACK
00000008'EF DE OAF4 1063 MOVAL REG_SAVE_AREA,R6 : POINT R6 TO BEG OF
: ... REGS (BEFORE S.S.)
54 5E D0 OAF8 1064 MOVL SP,R4 : POINT R4 TO BEG OF
: ... REGS (AFTER S.S.)
53 FF 8F 98 OAFE 1065 CVTBL #-1,R3 : INITIALIZE REG_COMP_MASK INDEX
OBF0 1066 REG_COMP_NEXT:
53 53 D6 OBF0 1067 INCL R3 : POINT TO NEXT BIT IN MASK
53 0F 91 OBF4 1068 CMPB #15,R3 : END OF THE MASK ?
03 1A OBF7 1069 BGTRU REG_COMP_CONT : NO -- CONTINUE
009F 31 OBF9 1070 BRW REG_COMP_RSB : YES -- GO TO COMMON RETURN
OBF0 1071 REG_COMP_CONT:
84 86 D1 OBF0 1072 CMPL (R6)+,(R4)+ : REG BEFORE = REG AFTER ?
F1 13 OBF4 1073 BEQLU REG_COMP_NEXT : YES -- LOOK FOR NEXT REG
E9 00000000'EF 53 E1 OB11 1074 BBC R3,REG_COMP_MASK,REG_COMP_NEXT : NO -- GET NEXT IF BIT NOT SET
: NO -- GIVE REG NUMBER TO FAO
00000048'EF 53 D0 OB19 1075 MOVL R3,CLOB_REG_NO : GIVE 'BEFORE' CONTENTS TO FAO
0000004C'EF FC A6 D0 OB20 1076 MOVL -4(R6),REG_BEFORE_SS : GIVE 'AFTER' CONTENTS TO FAO
00000050'EF FC A4 D0 OB28 1077 MOVL -4(R4),REG_AFTER_SS : GIVE FAILURE INDIC'N IN ERROR MSG
00000056'EF 2A 90 OB30 1078 MOVB #A/*/, $$TSTN$$+2 :
:
OB37 1079 : $FAO_S ERR MSG FAOCTL,OUTL,OUTD,$$SNAD$$, -
OB37 1080 : $$ASEQ$$,$$PSEQ$$,CLOB_REG_NO,REG_BEFORE_SS,REG_AFTER_SS
:
F5A3 CF F56D CF B0 OB6A 1081 MOVW OUTL,OUTD : ACTUAL OUTPUT LEN IN STRING DESC'R
OB71 1082 PUTMSG <#UETPS TEXT,#1,#OUTD> : PRINT THE MSG
F587 CF 0084 8F B0 OB86 1083 MOVW #OUTE-OUTB,OUTD : GET MAX LEN BACK INTO DESCRIPTOR
00000056'EF 20 90 OB8D 1084 MOVB #A/ /,$$TSTN$$+2 : REMOVE FAIL INDIC'N FOR NEXT MSG
00000060'EF 00000088'EF DE OB94 1085 MOVAL TEST MOD FAIL,TMD_ADDR : INDICATE FAILED IN END MSG
00000044'EF 03 00 02 F0 CB9F 1086 INSV #ERROR,#0,#3,MOD_MSG_CODE : ADJUST STATUS CODE FOR ERROR
FF57 31 OBA8 1087 BRW REG_COMP_NEXT : GO LOOK FOR NEXT REG TO COMPARE
OBAB 1088 REG_COMP_RSB:
7FFF 8F BA OBAB 1089 POPR #R0_THRU_SP : CLEAN UP STACK
05 OBAF 1090 RSB : RETURN TO CALLER

```

```
OBBO 1097 MOD_MSG_PRINT:
OBBO 1098 :
OBBO 1099 : *****
OBBO 1100 : *
OBBO 1101 : * PRINTS THE TEST MODULE BEGUN/SUCCESSFUL/FAILED MESSAGES *
OBBO 1102 : * (USING THE PUTMSG MACRO). *
OBBO 1103 : *
OBBO 1104 : *****
OBBO 1105 :
05 OBBO 1106 PUTMSG <MOD_MSG_CODE,#2,TMN_ADDR,TMD_ADDR> : PRINT MSG
OBCB 1107 RSB ; ... AND RETURN TO CALLER
OBCC 1108 :
OBCC 1109 CHMRTN:
OBCC 1110 : *****
OBCC 1111 : *
OBCC 1112 : * CHANGE MODE ROUTINE. THIS ROUTINE GETS CONTROL WHENEVER
OBCC 1113 : * A CMKRNL, CMEXEC, OR CMSUP SYSTEM SERVICE IS ISSUED
OBCC 1114 : * BY THE MODE MACRO ('TO' OPTION). IT MERELY DOES
OBCC 1115 : * A JUMP INDIRECT ON A FIELD SET UP BY MODE. IT HAS
OBCC 1116 : * THE EFFECT OF RETURNING TO THE END OF THE MODE
OBCC 1117 : * MACRO EXPANSION.
OBCC 1118 : *
OBCC 1119 : *****
0000079'FF 0000 OBCC 1120 :
17 OBCC 1121 .WORD 0 ; ENTRY MASK
OBCE 1122 JMP @CHM_CONT ; RETURN TO MODE MACRO IN NEW MODE
OBD4 1123 :
OBD4 1124 : * RET INSTR WILL BE ISSUED IN EXPANSION OF 'MODE FROM, ....' MACRO
OBD4 1125 :
OBD4 1126 .END SATSSF10
```

SATSSF10
Symbol table

```

$$$CHARS          = 00000048
$$$FIRSTTC$$$     = 00000000
$$$STRINGS        = 00000000
$$ACT$$           000000F3 R    06
$$ARG$$           000000FB RR   06
$$ASEQ$$          000000EB RR   06
$$CALL$$          000000DF RR   06
$$DISP$$          000001E6 RR   06
$$ERR$$           000001A0 RR   06
$$EXP$$           000000F7 RR   06
$$INIT$$          000000E3 RR   06
$$MAXP$$          = 00000005
$$PSEQ$$          000000EF RR   06
$$SNAD$$          000000E7 RR   06
$$T1              = 00000004
$$T2              = 00000009
$$TSTN$$         00000054 R    03
ACC$K ENABACC    = 00000003
CHAN_SNA         000000FC R    02
CHAN_SNA20       00000091 RR   03
CHAN_SNA21       00000108 RR   02
CHAN_SNA22       00000095 RR   03
CHAN_SNA23       0000010C RR   02
CHAN_SNA24       00000110 RR   02
CHAN_SNO         00000100 RR   02
CHAN_SNO20       00000091 RR   03
CHAN_SNO21       00000108 RR   02
CHAN_SNO22       00000095 RR   03
CHAN_SNO23       0000010C RR   02
CHAN_SNO24       00000110 RR   02
CHAN_SNS         00000104 RR   02
CHAN_SNS20       00000091 RR   03
CHAN_SNS21       00000108 RR   02
CHAN_SNS22       00000095 RR   03
CHAN_SNS23       0000010C RR   02
CHAN_SNS24       00000110 RR   02
CHMRTN          00000BCC RR   06
CHM CONT        00000079 RR   03
CLEANUP         00000A75 RR   06
CLOB REG NO     00000048 RR   03
CTL$GL PRD     ***** X   06
CURRENT_TC      00000004 RR   03
EMPTY           00000000 RR   04
ERROR           = 00000002
ERR_MSG_FAOCTL 00000002 RR   02
EXECUTE         00000A57 RR   06
GRP TOTAL       = 00000003
INADR          000000A9 RR   02
INFO           = 00000003
LIB$SIGNAL     ***** X   06
MEXIT          = 00000000
MOD_MSG_CODE    00000044 RR   03
MOD_MSG_PRINT   000000B0 RR   06
MSGBUF_SNA      000000B0 RR   02
MSGBUF_SNA10    00000008 RR   05
MSGBUF_SNA11    000000DC RR   02
MSGBUF_SNA12    000000E4 RR   02

```

```

MSGBUF_SNO      000000C7 R    02
MSGBUF_SNO10    00000017 R    05
MSGBUF_SNO11    000000DC R    02
MSGBUF_SNO12    000000EC R    02
MSGBUF_SNS      000000D0 R    02
MSGBUF_SNS10    00000026 RR   05
MSGBUF_SNS11    000000DC RR   02
MSGBUF_SNS12    000000F4 RR   02
MY DISR         00000114 RR   02
NARGS           = 00000018
NOACCESS        = 00000000 R    05
NSSARGS         = 00000002
ONES            = 000000B5 RR   02
OPC$ _RQ_CANCEL = 00000005
OUTB            0000011C RR   06
OUTD            00000114 RR   06
OUTE            000001A0 RR   06
OUTL            000000DB RR   06
PHD$Q PRIVMSK  = 00000000
PRIV$ASK        = 00000071 RR   03
PRIV_ARGS       = 00000002
PROT            000000B1 RR   02
PRT$C NA       ***** X   02
PRVPRT         00000070 RR   03
RO_THRU_SP     = 00007FFF
REGS            0000007D RR   03
REG_AFTER_SS   00000050 RR   03
REG_BEFORE_SS  0000004C RR   03
REG_COMP        00000AF0 RR   06
REG_COMP_CONT  000000B0C RR   06
REG_COMP_MASK  00000000 RR   02
REG_COMP_NEXT  000000B02 RR   06
REG_COMP_RSB   000000BAB RR   06
REG_REST       000000AEO RR   06
REG_SAVE       000000ACF RR   06
REG_SAVE_AREA  000000008 RR   03
RETADR         00000068 RR   03
SATSSF10       00000000 RR   06
SEVERE         = 00000004
SHR$K SHRDEF   = 00000001
SHR$ TEXT      = 00001130
SS$ _ACVIO     ***** X   06
SS$ _BADPARAM  ***** X   06
SS$ _DEVNOTMBX ***** X   06
SS$ _IVCHAN    ***** X   06
SS$ _NOPRIV    ***** X   06
ST$V INHIB_MSG = 0000001C
SUCCESS        = 00000001
SYSS$ASSIGN    ***** GX   06
SYSS$CMKRNL    ***** GX   06
SYSS$CREMBX    ***** GX   06
SYSS$DASSGN    ***** GX   06
SYSS$DELMBX    ***** GX   06
SYSS$EXIT      ***** GX   06
SYSS$FAO       ***** X   06
SYSS$FAOL      ***** GX   06
SYSS$HIBER     ***** GX   06

```

SATSSF10
Symbol table

```

SYSS$SETPRN ***** GX 06
SYSS$SETPRT ***** GX 06
SYSS$SETPRV ***** GX 06
SYSS$NDACC ***** GX 06
SYSS$NDOPR ***** GX 06
SYSS$NDSMB ***** GX 06
SYSSWAKE ***** GX 06
TC1 00000241 R 06
TC2 0000034D R 06
TC3 00000459 R 06
TCG_NO = 00000003
TC_CONTROL 00000A8E R 06
TEST_MOD_BEG 00000077 RR 02
TEST_MOD_FAIL 00000088 RR 02
TEST_MOD_NAME 0000006E RR 02
TEST_MOD_NAME_D 0000008F RR 02
TEST_MOD_SUCC 0000007D RR 02
TMD_ADDR 00000060 RR 03
TMN_ADDR 0000005C RR 03
TPID 00000000 RR 03
TS1 00000565 RR 06
TS2 0000070B RR 06
TS3 000008B1 RR 06
TS_EP 00000064 RR 03
TTNAME 0000009F R 02
UETPS_SATSMS = 007480D9
UETPS_TEXT = 00741133
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	00000124 (292.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	00000099 (153.)	03 (3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC BYTE
SATS_ACCVIO_1	00000200 (512.)	04 (4.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC PAGE
SATS_ACCVIO_2	00000200 (512.)	05 (5.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC PAGE
SATSSF10	00000BD4 (3028.)	06 (6.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC LONG

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	38	00:00:00.06	00:00:00.31
Command processing	152	00:00:00.67	00:00:02.30
Pass 1	403	00:00:15.90	00:00:29.34
Symbol table sort	0	00:00:01.34	00:00:02.37
Pass 2	214	00:00:04.01	00:00:07.67
Symbol table output	18	00:00:00.12	00:00:00.31
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 829 00:00:22.13 00:00:42.33

The working set limit was 1950 pages.
84393 bytes (165 pages) of virtual memory were used to buffer the intermediate code.
There were 50 pages of symbol table space allocated to hold 760 non-local and 107 local symbols.
1126 source lines were read in Pass 1, producing 29 object records in Pass 2.
70 pages of virtual memory were used to define 54 macros.

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

Macro library name	Macros defined
-----	-----
_\$255\$DUA28:[SHRLIB]UETP.MLB;1	19
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	2
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	27
TOTALS (all libraries)	48

1417 GETS were required to define 48 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSF10/OBJ=OBJ\$:SATSSF10 MSRC\$:SATSSF10/UPDATE=(ENH\$:SATSSF10)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

