


```
SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  FFFFFFFFFF  11  11
SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  FFFFFFFFFF  11  11
SS        AA      AA      TT      SS        SS        FFFFFFFFFF  1111  1111
SS        AA      AA      TT      SS        SS        FFFFFFFFFF  1111  1111
SS        AA      AA      TT      SS        SS        FFFFFFFFFF  11    11
SS        AA      AA      TT      SS        SS        FFFFFFFFFF  11    11
SSSSSSS   AA      AA      TT      SSSSSS   SSSSSS   FFFFFFFFFF  11    11
SSSSSSS   AA      AA      TT      SSSSSS   SSSSSS   FFFFFFFFFF  11    11
SS        AA      AA      TT      SS        SS        FFFFFFFFFF  11    11
SS        AA      AA      TT      SS        SS        FFFFFFFFFF  11    11
SS        AA      AA      TT      SS        SS        FFFFFFFFFF  11    11
SS        AA      AA      TT      SS        SS        FFFFFFFFFF  11    11
SSSSSSSS  AA      AA      TT      SSSSSSSS  SSSSSSSS  FFFFFFFFFF  111111  111111
SSSSSSSS  AA      AA      TT      SSSSSSSS  SSSSSSSS  FFFFFFFFFF  111111  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)	72	DECLARATIONS
(1)	242	SATSSF11
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```

0000 1 .TITLE SATSSF11 - 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 SATSSF11 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 V03-005 LDJ0005 Larry D. Jones, 08-May-1984
0000 49 Removed two test conditions depending on a device which
0000 50 can be allocated.
0000 51
0000 52 V03-004 LDJ0004 Larry D. Jones, 19-Apr-1984
0000 53 Enhanced for new device name length limit from 64 to 256.
0000 54 Modified testcases because of a reordering of the PHYLEN
0000 55 and PNYBUF ACCVIO failure path change in the OS.
0000 56
0000 57 V03-003 LDJ0003 Larry D. Jones, 22-Jun-1983

```

```
0000 58 : Removed test case SFBRD11 because the restriction was
0000 59 : removed from the system.
0000 60 :
0000 61 : V03-002 LDJ0002 Larry D. Jones, 09-Feb-1982
0000 62 : Modified test to conform to a PROBE change in the length
0000 63 : checking fail path of $BRDCST.
0000 64 :
0000 65 : V03-001 LDJ0001 Larry D. Jones, 05-Mar-1981
0000 66 : Modified the test to support 64kb length $BRDCST message
0000 67 : lengths and fixed the non-detached running on OPA0 bug.
0000 68 :
0000 69 : **
0000 70 : --
```

```
0000 72 .SBTTL DECLARATIONS
0000 73 :
0000 74 : INCLUDE FILES:
0000 75 :
0000 76 $JPIDEF : GETJPI definitions
0000 77 $PHDDEF : PROCESS HEADER OFFSET SYMBOLS
0000 78 $PCBDEF : PROCESS CONTROL BLOCK OFFSET SYMBS
0000 79 $STSDEF : STATUS MESSAGE SYMBOLS
0000 80 $PRVDEF : SYMBOL DEFS FOR PRIVILEGES
0000 81 $UETPDEF : UETP MSG CODE DEFINITIONS
0000 82 $SHR_MESSAGES UETP,116,<<TEXT,INFO>>
0000 83 : DEFINE UETP$ TEXT
0000 84 : GET RID OF MACRO DEFINITIONS
0000 85 $PSLDEF : ACCESS MODE SYMBOLS
0000 86 :
0000 87 : MACROS:
0000 88 :
0000 89 :
0000 90 : EQUATED SYMBOLS:
0000 91 :
00000000 0000 92 WARNING = 0 : WARNING SEVERITY VALUE FOR MSGS
00000001 0000 93 SUCCESS = 1 : SUCCESS SEVERITY VALUE FOR MSGS
00000002 0000 94 ERROR = 2 : ERROR SEVERITY VALUE FOR MSGS
00000003 0000 95 INFO = 3 : INFORMATIONAL SEV VALUE FOR MSGS
00000004 0000 96 SEVERE = 4 : SEVERE (FATAL) SEV VALUE FOR MSGS
00000000 0000 97 TCG_NO = 0 : INITIALIZE TEST CASE GROUP NUMBER
00000000 0000 98 GRP_TOTAL = 0 : INITIALIZE TEST CASE GROUP TOTAL
00000000 0000 99 DETACHV = 0 : Detached flag
00000001 0000 100 DETACHM = 1@DETACHV
00007FFF 0000 101 RO_THRU_SP = ^M<R0,R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP,SP>
0000 102 :
0000 103 : OWN STORAGE:
0000 104 :
```

```

00000000 106 .PSECT RODATA, RD, NOWRT, NOEXE, LONG
BFFC 0000 107 REG_COMP_MASK: .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP> ! ^X8000 -
0002 108 : REG COMPARE MASK (HIGH-ORDER ...
0002 109 : BIT MUST BE ON
0002 110 ERR_MSG_FAOCTL: STRING I,<!/!AC!1ZB!1ZB: REGISTER !2UW CONTENTS ALTERED>, -
0002 111 <: BEFORE SERVICE CALL: !8XL AFTER SERVICE CALL: !8XL>
006E 112 TEST_MOD_NAME: STRING C,<SATSSF11> : TEST MODULE NAME
0077 113 TEST_MOD_BEG: STRING C,<begun> : DISPOSITION FIELD OF TEST MOD MSG
007D 114 TEST_MOD_SUCC: STRING C,<successful> : DISPOSITION FIELD OF TEST MOD MSG
0088 115 TEST_MOD_FAIL: STRING C,<failed> : DISPOSITION FIELD OF TEST MOD MSG
008F 116 TEST_MOD_NAME_D: STRING I,<SATSSF11> : TEST MODULE NAME DESCRIPTOR
009F 117 TTNAME: STRING I,<TT> : TERMINAL LOGICAL NAME
00000000'00000000' 00A9 118 INADR: .LONG NOACCESS,NOACCESS : PAGE ADDRESS OF NOACCESS PSECT
00000000' 00B1 119 PROT: .LONG PRTSC_NA : PROTECTION CODE FOR NOACCESS PSECT
FFFFFFFF FFFFFFFF 00B5 120 ONES: .LONG -1,-1 : A QUADWORD OF 1-BITS
00BD 121 DEVNAM_ALC: : DEVNAM ARGUMENT FOR ALLOC
00BD 122 DEVNAM_DAL: : DEVNAM ARGUMENT FOR DALLOC
00BD 123 DEVNAM_ALC10: : DEVNAM ARGUMENT FOR ALLOC
00BD 124 STRING I,<SYSTST$MBOX> :
00D0 125 DEVNAM_ALC11: : DEVNAM ARGUMENT FOR ALLOC
00D0 126 DEVNAM_DAL11: : DEVNAM ARGUMENT FOR DALLOC
00D0 127 STRING I,<_##> :
00DB 128 DEVNAM_ALC12: : DEVNAM ARGUMENT FOR ALLOC
00DB 129 DEVNAM_DAL14: : DEVNAM ARGUMENT FOR DALLOC
00000000 00DB 130 .LONG 0
000000DF' 00DF 131 .ADDRESS . :
00E3 132 DEVNAM_ALC13: : DEVNAM ARGUMENT FOR ALLOC
00000100 00E3 133 .LONG 256
000000EB' 00E7 134 .ADDRESS .+4
20 44 45 52 44 4E 55 48 20 4F 57 54 00EB 135 .ASCII /TWO HUNDRED AND FIFTY SIX CHARACTERS/
49 53 20 59 54 46 49 46 20 44 4E 41 00F7
53 52 45 54 43 41 52 41 48 43 20 58 0103
000001EB 010F 136 .BLKB 220
01EB 137 DEVNAM_ALC14: : DEVNAM ARGUMENT FOR ALLOC
01EB 138 DEVNAM_DAL12: : DEVNAM ARGUMENT FOR DALLOC
01EB 139 STRING I,<_ZZA0:> :
01F9 140 SYSTEM_DISK: : LOGICAL NAME FOR SYSTEM DISK
01F9 141 MY_DISK: : LOGICAL NAME FOR USER DISK
0000020B 0209 142 PHYLEN_ALC20: .BLKW 1 : PHYLEN ARGUMENT FOR ALLOC
020B 143 PHYBUF_ALC30: STRING 0,1 : PHYBUF ARGUMENT FOR ALLOC
0214 144 ACMODE_ALC: : ACMODE ARGUMENT FOR ALLOC
0214 145 ACMODE_DAL: : ACMODE ARGUMENT FOR DALLOC
00000003 0214 146 .LONG PSL$C_USER
0218 147 MSGBUF_BRD: STRING I,< > : MSGBUF ARGUMENT FOR BRDCST
0221 148 ;MSGBUF_BRD11: .LONG -1 : MSGBUF ARGUMENT FOR BRDCST
0221 149 : .ADDRESS . :
0221 150 ;MSGBUF_BRD13 = MSGBUF_BRD : MSGBUF ARGUMENT FOR BRDCST
0221 151 DEVNAM_BRD: STRING I,<_OPAO:> : DEVNAM ARGUMENT FOR BRDCST
022F 152 DEVNAM_BRD21: STRING I,<_ZZA0:> : DEVNAM ARGUMENT FOR BRDCST
023D 153 DEVNAM_BRD22: STRING I,<_!!> : DEVNAM ARGUMENT FOR BRDCST
0248 154 CHAN_CAN: : CHAN ARGUMENT FOR CANCEL
0248 155 CHAN_CAN11: : CHAN ARGUMENT FOR CANCEL
00000000 0248 156 .LONG 0
3B9ACA00 024C 157 CHAN_CAN12: .LONG 1000000000 : CHAN ARGUMENT FOR CANCEL
0250 158 ILIST: : $GETJPI item list
031D 0008 0250 159 .WORD 8,JPI$_TERMINAL
000000DA' 0254 160 .ADDRESS NAME

```

SATSSF11
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:40:00 VAX/VMS Macro V04-00
DECLARATIONS 5-SEP-1984 04:28:47 [UETPSY.SRC]SATSSF11.MAR;i

Page 5
(1)

SA
V04

00000000	0258	161	.LONG	0
00000000	025C	162	.LONG	0


```

00000000 164 .PSECT RWDATA,RD,WRT,NOEXE
00000004 0000 165 TPID: .BLKL 1 : PROCESS ID FOR THIS PROCESS
00000008 0004 166 CURRENT TC: .BLKL 1 : PTR TO CURRENT TEST CASE
00000044 0008 167 REG_SAVE_AREA: .BLKL 15 : SAVE AREA FOR ALL REGS (SANS PC)
007480D9 0044 168 MOD_MSG_CODE: .LONG UETPS_SATSMS : TEST MODULE MSG CODE FOR PUTMSG
0000004C 0048 169 CLOB_REG_NO: .BLKL 1 : CLOBBERED REG NO (FOR FAO ERR MSG)
00000050 004C 170 REG_BEFORE_SS: .BLKL 1 : REG CONTENTS BEFORE S.S.
00000054 0050 171 : ... (FOR FAO ERROR MSG)
00000054 0050 172 REG_AFTER_SS: .BLKL 1 : REG CONTENTS AFTER S.S.
00000054 0054 173 : ... (FOR FAO ERROR MSG)
00000054 0054 174 $$TSTN$$: STRING C,< SF > : ASCII PORTION OF TEST CASE NAME
0000006E 005C 175 TMN_ADDR: .ADDRESS TEST_MOD_NAME : ADDR OF TEST MOD NAME FOR FAO
00000077 0060 176 TMD_ADDR: .ADDRESS TEST_MOD_BEG : ADDR OF T.M. DISP FIELD FOR FAO
00000068 0064 177 TS_EP: .BLKL 1 : ENTRY PNT FOR CURR TESTSERV MACRO
00000070 0068 178 RETADR: .BLKL 2 : RETURN LONGWORDS FOR SETPRT
00000071 0070 179 PRVPRT: .BLKB 1 : PROT RETURN BYTE FOR SETPRT
00000079 0071 180 PRIVMASK: .BLKQ 1 : ADDR OF PRIVILEGE MASK (IN PHD)
0000007D 0079 181 CHM_CONT: .BLKL 1 : CHANGE MODE CONTINUE ADDRESS
00000091 007D 182 REGS: .BLKL 5 : AREA FOR COND INDEX REGS (R2-R6)
00000095 0091 183 CHAN_CAN10: .BLKL 1 : CHAN ARGUMENT FOR CANCEL
00000097 0095 184 PHYLEN_ALC: .BLKW 1 : PHYLEN ARGUMENT FOR ALLOC
00000097 0097 185 PHYBUF_ALC: STRING 0,25 : PHYBUF ARGUMENT FOR ALLOC
000000BC 00B8 186 MBOXCHAN: .BLKL 1 : CHANNEL NUMBER FOR SFALC10 $CREMBX
000000BE 00BC 187 LENGTH_DAL13: .BLKW 1 : LENGTH OF SYSTEM DISK TRANSLATION
000000BE 00BE 188 DEVNAM_DAL13: STRING 0,20 : DEVNAM ARGUMENT FOR DALLOC
000000E2 00DA 189 NAME: : Place to store the terminal name
000000E2 00DA 190 .BLKB 8
000000E2 00E2 191 FLAG: : Status flags
00 00E2 192 .BYTE 0

```

```
00000000 194 .PSECT SATS ACCVIO_1,RD,WRT,NOEXE,PAGE
00000200 0000 195 EMPTY: .BLKB 512 ; RESERVE A PAGE OF SPACE
0200 196 :
0200 197 : +
0200 198 : *****
0200 199 : *
0200 200 : * THE ORDER OF STATEMENTS IN THIS PSECT IS CRITICAL. *
0200 201 : * DO NOT RE-ARRANGE THE VARIABLES. CONSULT SATS *
0200 202 : * FUNCTIONAL SPECIFICATION FOR A DESCRIPTION OF THE USE *
0200 203 : * OF THE EMPTY PSECT (AND ITS COMPANION PSECT, NOACCESS). *
0200 204 : *
0200 205 : *****
0200 206 : -
0200 207 :
000001F3 0200 208 : TYPE AAAAA_SSSX1 (TYPE AAAAA_SSSX2 IF NOT DESC) GO HERE:
0200 209 : = - 13 ; ALLOW ROOM FOR STRING DESCRIPTOR
01F3 210 : TYPE AAAAA_SSSX5 GO HERE:
00000006 01F3 211 : .LONG 6 ; STRING LENGTH (WILL CROSS PSECT BOUNDARY)
000001FB 01F7 212 : .ADDRESS +4 ; STRING ADDRESS
01FB 213 : TYPE AAAAA_SSSX3 GO HERE:
000001FC 01FB 214 : .BLKB 1 ; LOW-ORDER BYTE OF STRING LENGTH
01FC 215 : TYPE AAAAA_SSSX2 GO HERE:
00000200 01FC 216 : .BLKL 1 ; STRING LENGTH
0200 217 :
0200 218 :
0200 219 :
0200 220 :
00000000 221 .PSECT SATS ACCVIO_2,RD,WRT,NOEXE,PAGE
00000200 0000 222 NOACCESS: .BLKB 512 ; RESERVE A PAGE OF SPACE
00000000 0200 223 : = - 512 ; RETURN LOC CTR TO BEGINNING OF PSECT
00000000 0000 224 : .ADDRESS EMPTY ; ADDRESS OF ACCESSIBLE STRING
00000000 0004 225 : .ADDRESS EMPTY/^X100 ; ADDRESS OF ACCESSIBLE STRING
0008 226 : +
0008 227 : *** NOTE -- DO NOT CHANGE LOCATION OR SEQUENCE OF ABOVE STATEMENTS!
0008 228 : *** THIS PSECT (NOACCESS) MUST APPEAR IN MEMORY IMMEDIATELY
0008 229 : *** FOLLOWING THE EMPTY PSECT. PSECT NAMES AND OPTIONS WILL BE
0008 230 : *** CHOSEN TO FORCE THE DESIRED PSECT ORDERING.
0008 231 : -
0008 232 :
0008 233 DEVNAM_DAL10: STRING 1,<SFDAL10> ; DEVNAM ARGUMENT FOR DALLOC
0017 234 MSGBUF_BRD10: ; MSGBUF ARGUMENT FOR BRDCST
0017 235 DEVNAM_BRD20: ; DEVNAM ARGUMENT FOR BRDCST
0017 236 STRING 1,<SFBRD>
0024 237 :
0024 238 :
0024 239 :
00000000 240 .PSECT SATSSF11,RD,WRT,EXE, LONG
```

```

0000 242 .SBTTL SATSSF11
0000 243 :++
0000 244 : FUNCTIONAL DESCRIPTION:
0000 245 :
0000 246 : AFTER PERFORMING SOME INITIAL HOUSEKEEPING, SUCH AS
0000 247 : PRINTING THE MODULE BEGIN MESSAGE AND ACQUIRING ALL PRIVILEGES,
0000 248 : THE SATSSF11 ROUTINE EXECUTES THE TEST SERV EXEC MACRO TO RUN
0000 249 : ALL TEST CASES. WHEN THE MACRO COMPLETES ITS EXECUTION, SATSSF11
0000 250 : PRINTS A TEST MODULE SUCCESS OR FAIL MESSAGE AND EXITS TO THE
0000 251 : OPERATING SYSTEM. TEST SERV EXEC CALLS THE TC CONTROL/TESTSERV
0000 252 : CO-ROUTINE PAIR ONCE PER TEST CASE GROUP TO EXECUTE ALL TEST
0000 253 : CASES IN THAT GROUP. EACH TEST CASE GROUP IS DEFINED BY BOUNDING
0000 254 : ITS TEST CASES WITH A TC GROUP MACRO BEFORE THE FIRST TEST CASE
0000 255 : AND A TCEND MACRO AFTER THE LAST ONE. THE TEST CASES THEMSELVES
0000 256 : ARE DEFINED WITHIN THESE BOUNDS BY PRECEDING EACH WITH A
0000 257 : NEXT TEST_CASE MACRO. TC CONTROL/TESTSERV EXECUTES THE CODE
0000 258 : FOLLOWING EACH NEXT TEST_CASE MACRO IMMEDIATELY BEFORE ISSUING
0000 259 : THE SYSTEM SERVICE AS REQUESTED IN THE TESTSERV MACRO. TC CONTROL/
0000 260 : TESTSERV ALSO CHECKS THE RESULTS OF THE SERVICE WITH RESPECT
0000 261 : TO ITS EXPECTED STATUS CODE AND PRINTS ANY REQUIRED FAILURE
0000 262 : MESSAGES FOR THE TEST CASE. THE CODE APPEARING AFTER EACH
0000 263 : NEXT TEST_CASE MACRO IS MERELY TO SET UP CONDITIONS REQUIRED
0000 264 : FOR THE SYSTEM SERVICE AND TO CLEAN UP ANY RESOURCES ACQUIRED
0000 265 : BY THE PREVIOUS TEST CASE.
0000 266 :
0000 267 : CALLING SEQUENCE:
0000 268 :
0000 269 : $ RUN SATSSF11 ... (DCL COMMAND)
0000 270 :
0000 271 : INPUT PARAMETERS:
0000 272 :
0000 273 : NONE
0000 274 :
0000 275 : IMPLICIT INPUTS:
0000 276 :
0000 277 : NONE
0000 278 :
0000 279 : OUTPUT PARAMETERS:
0000 280 :
0000 281 : NONE
0000 282 :
0000 283 : IMPLICIT OUTPUTS:
0000 284 :
0000 285 : MESSAGES TO SYS$OUTPUT ARE THE ONLY OUTPUT FROM SATSSF11.
0000 286 : THEY ARE OF THE FORM:
0000 287 :
0000 288 : %UETP-S-SATSMS, TEST MODULE SATSSF11 BEGUN ... (BEGIN MSG)
0000 289 : %UETP-S-SATSMS, TEST MODULE SATSSF11 SUCCESSFUL ... (END MSG)
0000 290 : %UETP-E-SATSMS, TEST MODULE SATSSF11 FAILED ... (END MSG)
0000 291 : %UETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
0000 292 :
0000 293 : COMPLETION CODES:
0000 294 :
0000 295 : THE SATSSF11 ROUTINE TERMINATES WITH A $EXIT TO THE
0000 296 : OPERATING SYSTEM WITH A STATUS CODE DEFINED BY UETP$_SATSMS.
0000 297 :
0000 298 : SIDE EFFECTS:

```

```

0000 299 :
0000 300 : NONE
0000 301 :
0000 302 :--
0000 303 :
0000 304 :
0000 305 :
0000 306 SATSSF11:
OFFC 0000 307 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
0002 308 : ENTRY MASK
0002 309 $WAKE S TPID : GET PID OF THIS PROCESS
0011 310 $HIBER S : UNDO WAKE
0018 311 $SETPRN_S TEST MOD NAME_D : SET PROCESS NAME
0025 312 BSBW MOD MSG PRINT : PRINT TEST MODULE BEGIN MSG
0028 313 MOVAL TEST_MOD_SUCC,TMD_ADDR : ASSUME END MSG WILL SHOW SUCCESS
0033 314 INSV #SUCCESS,#0,#3,MOD_MSG_CODE : ADJUST STATUS CODE FOR SUCCESS
003C 315 MODE TO,10$,KRNL,NOREGS : KERNEL MODE TO ACCESS PHD
59 00000000'9F DO 0059 316 MOVL @#CTL$GL PHD,R9 : GET PROCESS HEADER ADDRESS
00000071'EF 69 DE 0060 317 MOVAL PHD$Q PRIVMSK(R9),PRIVMASK : GET PRIV MASK ADDRESS
0067 318 MODE FROM,T0$ : GET BACK TO USER MODE
0068 319 PRIV ADD,ALL : GET ALL PRIVILEGES
0088 320 DISPSERV : SET UP DISPLAY INFO FOR TESTSERV
021D 321 $SETPRT_S INADR=INADR, RETADR=RETADR, -
021D 322 PROT=PROT, PRVPRT=PRVPRT
023E 323 : SET NOACCESS PSECT
023E 324 : ... FOR NO USER ACCESS
08AD 31 023E 325 BRW EXECUTE : GO EXECUTE ALL TEST CASES
0241 326 :
0241 327 : TC_GROUP ALC,1,TS1
0268 328 :
0268 329 : NEXT_TEST_CASE SFALC10

```

```
0268 330 :  
0268 331 :++  
0268 332 :*****  
0268 333 :*  
0268 334 :* TEST CASE NAME: SFALC10  
0268 335 :*  
0268 336 :* SYSTEM SERVICE: ALLOC  
0268 337 :*  
0268 338 :* ARGUMENT UNDER TEST: DEVNAM_ALC10  
0268 339 :*  
0268 340 :* INPUT CONDITIONS:  
0268 341 :* ALLOCATE A MAILBOX  
0268 342 :*  
0268 343 :* EXPECTED RESULTS:  
0268 344 :* 1) SYSTEM STATUS CODE: DEVALLOC  
0268 345 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0268 346 :*  
0268 347 :*****  
0268 348 :--  
0268 349 :  
0268 350 : $CREMBX_S PRMFLG=#1, - ; CREATE A MAILBOX FOR ALLOCATION  
0268 351 : CHAN=MBOXCHAN, -  
0268 352 : LOGNAM=DEVNAM_ALC10  
0283 353 :  
0283 354 : NEXT_TEST_CASE SFALC11
```

```
028F 355 :  
028F 356 :++  
028F 357 :*****  
028F 358 :*  
028F 359 :* TEST CASE NAME: SFALC11  
028F 360 :*  
028F 361 :* SYSTEM SERVICE: ALLOC  
028F 362 :*  
028F 363 :* ARGUMENT UNDER TEST: DEVNAM_ALC11  
028F 364 :*  
028F 365 :* INPUT CONDITIONS:  
028F 366 :* INVALID DEVICE NAME  
028F 367 :*  
028F 368 :* EXPECTED RESULTS:  
028F 369 :* 1) SYSTEM STATUS CODE: IVDEVNAM  
028F 370 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
028F 371 :*  
028F 372 :*****  
028F 373 :--  
028F 374 :  
028F 375 : $DELMBX_S CHAN=MBOXCHAN ; DELETE MAILBOX ACQUIRED BY SFALC10  
029D 376 :  
029D 377 : NEXT_TEST_CASE SFALC12
```

```
02A9 378 :  
02A9 379 :++  
02A9 380 :*****  
02A9 381 :*  
02A9 382 :* TEST CASE NAME: SFALC12  
02A9 383 :*  
02A9 384 :* SYSTEM SERVICE: ALLOC  
02A9 385 :*  
02A9 386 :* ARGUMENT UNDER TEST: DEVNAM_ALC12  
02A9 387 :*  
02A9 388 :* INPUT CONDITIONS:  
02A9 389 :* ZERO LENGTH DEVICE NAME  
02A9 390 :*  
02A9 391 :* EXPECTED RESULTS:  
02A9 392 :* 1) SYSTEM STATUS CODE: IVLOGNAM  
02A9 393 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
02A9 394 :*  
02A9 395 :*****  
02A9 396 :--  
02A9 397 :  
02A9 398 :  
02A9 399 : NEXT_TEST_CASE SFALC13
```

```
02B5 400 :  
02B5 401 :++  
02B5 402 :*****  
02B5 403 :*  
02B5 404 :* TEST CASE NAME: SFALC13  
02B5 405 :*  
02B5 406 :* SYSTEM SERVICE: ALLOC  
02B5 407 :*  
02B5 408 :* ARGUMENT UNDER TEST: DEVNAM_ALC13  
02B5 409 :*  
02B5 410 :* INPUT CONDITIONS:  
02B5 411 :* DEVICE NAME IS LENGTH 44.  
02B5 412 :*  
02B5 413 :* EXPECTED RESULTS:  
02B5 414 :* 1) SYSTEM STATUS CODE: IVLOGNAM  
02B5 415 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
02B5 416 :*  
02B5 417 :*****  
02B5 418 :--  
02B5 419 :  
02B5 420 :  
02B5 421 : NEXT_TEST_CASE SFALC14
```



```
02C1 422 :
02C1 423 :
02C1 424 :*****
02C1 425 :*
02C1 426 :* TEST CASE NAME: SFALC14
02C1 427 :*
02C1 428 :* SYSTEM SERVICE: ALLOC
02C1 429 :*
02C1 430 :* ARGUMENT UNDER TEST: DEVNAM_ALC14
02C1 431 :*
02C1 432 :* INPUT CONDITIONS:
02C1 433 :* VALID, NON-EXISTENT DEVICE.
02C1 434 :*
02C1 435 :* EXPECTED RESULTS:
02C1 436 :* 1) SYSTEM STATUS CODE: NOSUCHDEV
02C1 437 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
02C1 438 :*
02C1 439 :*****
02C1 440 :--
02C1 441 :
02C1 442 :
02C1 443 : NEXT_TEST_CASE SFALC20
02C1 444 :
02C1 445 :
02C1 446 :*****
02C1 447 :*
02C1 448 :* TEST CASE NAME: SFALC20
02C1 449 :*
02C1 450 :* SYSTEM SERVICE: ALLOC
02C1 451 :*
02C1 452 :* ARGUMENT UNDER TEST: PHYLEN_ALC20
02C1 453 :*
02C1 454 :* INPUT CONDITIONS:
02C1 455 :* PHYSICAL DEVICE NAME LENGTH FIELD IN READ-ONLY PSECT.
02C1 456 :*
02C1 457 :* EXPECTED RESULTS:
02C1 458 :* 1) SYSTEM STATUS CODE: ACCVIO
02C1 459 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
02C1 460 :*
02C1 461 :*****
02C1 462 :--
02C1 463 :
02C1 464 :
02C1 465 : NEXT_TEST_CASE SFALC30
02C1 466 :
02C1 467 :
02C1 468 :*****
02C1 469 :*
02C1 470 :* TEST CASE NAME: SFALC30
02C1 471 :*
02C1 472 :* SYSTEM SERVICE: ALLOC
02C1 473 :*
02C1 474 :* ARGUMENT UNDER TEST: PHYBUF_ALC30
02C1 475 :*
02C1 476 :* INPUT CONDITIONS:
02C1 477 :* PHYSICAL DEVICE BUFFER DESCRIPTOR IN READ-ONLY PSECT.
02C1 478 :*
```

```
02C1 479 : * EXPECTED RESULTS:  
02C1 480 : * 1) SYSTEM STATUS CODE: ACCVIO  
02C1 481 : * 2) REGISTERS R2 THROUGH FP UNCHANGED  
02C1 482 : *  
02C1 483 : *****  
02C1 484 : --  
02C1 485 :  
02C1 486 :  
02C1 487 : TCEND
```

SATSSF11
V04-000

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SA
VC

02C2	488	:		
02C2	489	:	TC_GROUP	DAL,1,TS2
02E9	490	:		
02E9	491	:	NEXT_TEST_CASE	SFDAL10

```
02E9 492 :
02E9 493 :+
02E9 494 :*****
02E9 495 :*
02E9 496 :* TEST CASE NAME:          SFDAL10
02E9 497 :*
02E9 498 :* SYSTEM SERVICE:         DALLOC
02E9 499 :*
02E9 500 :* ARGUMENT UNDER TEST:    DEVNAM_DAL10
02E9 501 :*
02E9 502 :* INPUT CONDITIONS:
02E9 503 :*   DEVICE NAME DESCRIPTOR IN NON-ACCESSIBLE PSECT.
02E9 504 :*
02E9 505 :* EXPECTED RESULTS:
02E9 506 :*   1) SYSTEM STATUS CODE: ACCVIO
02E9 507 :*   2) REGISTERS R2 THROUGH FP UNCHANGED
02E9 508 :*
02E9 509 :*****
02E9 510 :--
02E9 511 :
02E9 512 :
02E9 513 :      NEXT_TEST_CASE  SFDAL11
```

```
02F5 514 :  
02F5 515 :  
02F5 516 :*****  
02F5 517 :*  
02F5 518 :* TEST CASE NAME: SFDAL11  
02F5 519 :*  
02F5 520 :* SYSTEM SERVICE: DALLOC  
02F5 521 :*  
02F5 522 :* ARGUMENT UNDER TEST: DEVNAM_DAL11  
02F5 523 :*  
02F5 524 :* INPUT CONDITIONS:  
02F5 525 :* INVALID DEVICE NAME  
02F5 526 :*  
02F5 527 :* EXPECTED RESULTS:  
02F5 528 :* 1) SYSTEM STATUS CODE: IVDEVNAM  
02F5 529 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
02F5 530 :*  
02F5 531 :*****  
02F5 532 :--  
02F5 533 :  
02F5 534 :  
02F5 535 : NEXT_TEST_CASE SFDAL12
```

```
0301 536 :
0301 537 :++
0301 538 :*****
0301 539 :*
0301 540 :* TEST CASE NAME:          SFDAL12
0301 541 :*
0301 542 :* SYSTEM 'ICE:            DALLOC
0301 543 :*
0301 544 :* ARGUMENT ' TEST:       DEVNAM_DAL12
0301 545 :*
0301 546 :* INPUT CONDITIONS:
0301 547 :*   VALID, NON-EXISTENT DEVICE NAME
0301 548 :*
0301 549 :* EXPECTED RESULTS:
0301 550 :*   1) SYSTEM STATUS CODE: NOSUCHDEV
0301 551 :*   2) REGISTERS R2 THROUGH FP UNCHANGED
0301 552 :*
0301 553 :*****
0301 554 :--
0301 555 :
0301 556 :
0301 557 :       NEXT_TEST_CASE  SFDAL13
```

```
030D 558 :  
030D 559 :++  
030D 560 :*****  
030D 561 :*  
030D 562 :* TEST CASE NAME: SFDAL13  
030D 563 :*  
030D 564 :* SYSTEM SERVICE: DALLOC  
030D 565 :*  
030D 566 :* ARGUMENT UNDER TEST: DEVNAM_DAL13  
030D 567 :*  
030D 568 :* INPUT CONDITIONS:  
030D 569 :* DE-ALLOCATE A DEVICE NEVER ALLOCATED (SYSTEM DISK).  
030D 570 :*  
030D 571 :* EXPECTED RESULTS:  
030D 572 :* 1) SYSTEM STATUS CODE: DEVNOTALLOC  
030D 573 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
030D 574 :*  
030D 575 :*****  
030D 576 :--  
030D 577 :  
030D 578 : STRNLOG_S LOGNAM=SYSTEM_DISK, - ; GET SYSTEM DISK DEVICE NAME  
030D 579 : RSLLEN=LENGTH_DAL13, -  
030D 580 : RSLBUF=DEVNAM_DAL13, -  
030D 581 : DSBMSK=#^B0110  
00000BE'EF 00000BC'EF 3C 032C 582 : MOVZWL LENGTH_DAL13,DEVNAM_DAL13 ; GET LENGTH INTO DESCRIPTOR  
0337 583 :  
0337 584 : NEXT_TEST_CASE SFDAL14
```

```
0343 585 :  
0343 586 +-  
0343 587 *  
0343 588 *  
0343 589 * TEST CASE NAME: SFDAL14  
0343 590 *  
0343 591 * SYSTEM SERVICE: DALLOC  
0343 592 *  
0343 593 * ARGUMENT UNDER TEST: DEVNAM_DAL14  
0343 594 *  
0343 595 * INPUT CONDITIONS:  
0343 596 * ZERO LENGTH DEVICE NAME  
0343 597 *  
0343 598 * EXPECTED RESULTS:  
0343 599 * 1) SYSTEM STATUS CODE: IVLOGNAM  
0343 600 * 2) REGISTERS R2 THROUGH FP UNCHANGED  
0343 601 *  
0343 602 *  
0343 603 -  
0343 604 :  
0343 605 :  
0343 606 TCEND
```


SATSSF11
V04-000

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0344	607 ;		
0344	608 ;	TC_GROUP	CAN,1,TS3
036B	609 ;		
036B	610	NEXT_TEST_CASE	SFCAN10

```
036B 611 :  
036B 612 :++  
036B 613 :*****  
036B 614 :*  
036B 615 :* TEST CASE NAME: SFCAN10  
036B 616 :*  
036B 617 :* SYSTEM SERVICE: CANCEL  
036B 618 :*  
036B 619 :* ARGUMENT UNDER TEST: CHAN_CAN10  
036B 620 :*  
036B 621 :* INPUT CONDITIONS:  
036B 622 :* CANCEL I/O ON A CHANNEL ASSIGNED IN EXEC MODE.  
036B 623 :*  
036B 624 :* EXPECTED RESULTS:  
036B 625 :* 1) SYSTEM STATUS CODE: NOPRIV  
036B 626 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
036B 627 :*  
036B 628 :* *****  
036B 629 :--  
036B 630 :  
036B 631 : MODE TO,10$,EXEC,NOREGS ; EXEC MODE TO ISSUE $ASSIGN  
0388 632 : $ASSIGN_S DEVNAM=MY DISK, - ; ASSIGN CHANNEL IN EXEC MODE  
0388 633 : CHAN=CHAN_CAN10  
039D 634 : MODE FROM,10$ ; BACK TO USER MODE  
039E 635 :  
039E 636 : NEXT_TEST_CASE SFCAN11
```

```
03AA 637 :  
03AA 638 :++  
03AA 639 :*****  
03AA 640 :*  
03AA 641 :* TEST CASE NAME: SFCAN11  
03AA 642 :*  
03AA 643 :* SYSTEM SERVICE: CANCEL  
03AA 644 :*  
03AA 645 :* ARGUMENT UNDER TEST: CHAN_CAN11  
03AA 646 :*  
03AA 647 :* INPUT CONDITIONS:  
03AA 648 :* INVALID CHANNEL NUMBER (ZERO)  
03AA 649 :*  
03AA 650 :* EXPECTED RESULTS:  
03AA 651 :* 1) SYSTEM STATUS CODE: IVCHAN  
03AA 652 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
03AA 653 :*  
03AA 654 :*****  
03AA 655 :--  
03AA 656 :  
03AA 657 : MODE TO,20$,EXEC,NOREGS ; EXEC MODE FOR $DASSGN  
03C7 658 : $DASSGN_S CHAN=CHAN_CAN10 ; DE-ASSIGN CHANNEL ASSIGNED IN SFCAN10  
03D5 659 : MODE FROM,20$ ; BACK TO USER MODE  
03D6 660 :  
03D6 661 : NEXT_TEST_CASE SFCAN12
```

```
03E2 662 :  
03E2 663 :++  
03E2 664 :*****  
03E2 665 :*  
03E2 666 :* TEST CASE NAME: SFCAN12  
03E2 667 :*  
03E2 668 :* SYSTEM SERVICE: CANCEL  
03E2 669 :*  
03E2 670 :* ARGUMENT UNDER TEST: CHAN_CAN12  
03E2 671 :*  
03E2 672 :* INPUT CONDITIONS:  
03E2 673 :* INVALID CHANNEL NUMBER (1 BILLION)  
03E2 674 :*  
03E2 675 :* EXPECTED RESULTS:  
03E2 676 :* 1) SYSTEM STATUS CODE: IVCHAN  
03E2 677 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
03E2 678 :*  
03E2 679 :* *****  
03E2 680 :--  
03E2 681 :  
03E2 682 :  
03E2 683 : TCEND
```

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SATSSF11
V04-000

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03E3	684	:		
03E3	685	:	TC_GROUP	BRD,1,TS4
040A	686	:		
040A	687	:	NEXT_TEST_CASE	SFBRD10

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V04-000

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040A 688 ;
040A 689 ;++

```
040A 691 : *****
040A 692 : *
040A 693 : * TEST CASE NAME:          SFBRD10
040A 694 : *
040A 695 : * SYSTEM SERVICE:          BRDCST
040A 696 : *
040A 697 : * ARGUMENT UNDER TEST:     MSGBUF_BRD10
040A 698 : *
040A 699 : * INPUT CONDITIONS:
040A 700 : * MESSAGE BUFFER DESCRIPTOR IN NON-ACCESSIBLE PSECT.
040A 701 : *
040A 702 : * EXPECTED RESULTS:
040A 703 : * 1) SYSTEM STATUS CODE: ACCVIO
040A 704 : * 2) REGISTERS R2 THROUGH FP UNCHANGED
040A 705 : *
040A 706 : *****
040A 707 : --
040A 708 :
040A 709 :
040A 710 : NEXT_TEST_CASE SFBRD11
040A 711 :
040A 712 : ++
040A 713 : *****
040A 714 : *
040A 715 : * TEST CASE NAME:          SFBRD11
040A 716 : *
040A 717 : * SYSTEM SERVICE:          BRDCST
040A 718 : *
040A 719 : * ARGUMENT UNDER TEST:     MSGBUF_BRD11
040A 720 : *
040A 721 : * INPUT CONDITIONS:
040A 722 : * NEGATIVE MESSAGE LENGTH (-1)
040A 723 : *
040A 724 : * EXPECTED RESULTS:
040A 725 : * 1) SYSTEM STATUS CODE: BADPARAM
040A 726 : * 2) REGISTERS R2 THROUGH FP UNCHANGED
040A 727 : *
040A 728 : *****
040A 729 : --
040A 730 :
040A 731 :
040A 732 : NEXT_TEST_CASE SFBRD13
040A 733 :
040A 734 : ++
040A 735 : *****
040A 736 : *
040A 737 : * TEST CASE NAME:          SFBRD13
040A 738 : *
040A 739 : * SYSTEM SERVICE:          BRDCST
040A 740 : *
040A 741 : * ARGUMENT UNDER TEST:     MSGBUF_BRD13
040A 742 : *
040A 743 : * INPUT CONDITIONS:
040A 744 : * ISSUE $BRDCST WITHOUT THE REQUIRED PRIVILEGE.
040A 745 : *
040A 746 : * EXPECTED RESULTS:
040A 747 : * 1) SYSTEM STATUS CODE: NOPRIV
```

```
040A 748 : *      2) REGISTERS R2 THROUGH FP UNCHANGED
040A 749 : *
040A 750 : *****
040A 751 : --
040A 752 :
040A 753 :      PRIV      REM,OPER      : REMOVE PRIVILFGE REQUIRED FOR $BRDCST
040A 754 :      $GETJPI_S IFMLST = ILIST : Get the terminal name
040A 755 :      CMPL      #A/OPA0/,NAME   : Are we running on OPA0?
040A 756 :      BNEQ      10$             : Br if not
040A 757 :      BISB2     #DETACHM,FLAG   : Set the disable flag for this step
040A 758 10$:
040A 759 :
040A 760 :      NEXT_TEST_CASE SFBRD20
```



```
0416 761 :
0416 762 :++
0416 763 :*****
0416 764 :*
0416 765 :* TEST CASE NAME:          SFBRD20
0416 766 :*
0416 767 :* SYSTEM SERVICE:         BRDCST
0416 768 :*
0416 769 :* ARGUMENT UNDER TEST:   DEVNAM_BRD20
0416 770 :*
0416 771 :* INPUT CONDITIONS:
0416 772 :*   DEVICE NAME DESCRIPTOR IN NON-ACCESSIBLE PSECT.
0416 773 :*
0416 774 :* EXPECTED RESULTS:
0416 775 :*   1) SYSTEM STATUS CODE: ACCVIO
0416 776 :*   2) REGISTERS R2 THROUGH FP UNCHANGED
0416 777 :*
0416 778 :*****
0416 779 :--
0416 780 :
0416 781 :* PRIV   ADD,OPER          ; GET BACK PRIVILEGF REMOVED BY SFBRD13
0416 782 :*
0416 783 :* NEXT_TEST_CASE SFBRD21
```

```
0422 784 :
0422 785 :++
0422 786 :*****
0422 787 :*
0422 788 :* TEST CASE NAME: SFBRD21
0422 789 :*
0422 790 :* SYSTEM SERVICE: BRDCST
0422 791 :*
0422 792 :* ARGUMENT UNDER TEST: DEVNAM_BRD21
0422 793 :*
0422 794 :* INPUT CONDITIONS:
0422 795 :* VALID, NON-EXISTENT DEVICE NAME
0422 796 :*
0422 797 :* EXPECTED RESULTS:
0422 798 :* 1) SYSTEM STATUS CODE: NOSUCHDEV
0422 799 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
0422 800 :*
0422 801 :*****
0422 802 :--
0422 803 :
0422 804 :
0422 805 : NEXT_TEST_CASE SFBRD22
```

```
042E 806 :  
042E 807 :++  
042E 808 :*****  
042E 809 :*  
042E 810 :* TEST CASE NAME: SFBRD22  
042E 811 :*  
042E 812 :* SYSTEM SERVICE: BRDCST  
042E 813 :*  
042E 814 :* ARGUMENT UNDER TEST: DEVNAM_BRD22  
042E 815 :*  
042E 816 :* INPUT CONDITIONS:  
042E 817 :* INVALID DEVICE NAME  
042E 818 :*  
042E 819 :* EXPECTED RESULTS:  
042E 820 :* 1) SYSTEM STATUS CODE: IVDEVNAM  
042E 821 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
042E 822 :*  
042E 823 :*****  
042E 824 :--  
042E 825 :  
042E 826 :  
042E 827 : TCEND
```

```
042F 828 TS1:
042F 829 TESTSERV ALLOC,ERR,SATS, -
042F 830
042F 831 <1,DEVNAM_ALC, -
042F 832 DEVNAM_ALC11,IVDEVNAM, - : SFALC11
042F 833 DEVNAM_ALC12,IVLOGNAM, - : SFALC12
042F 834 DEVNAM_ALC13,IVLOGNAM, - : SFALC13
042F 835 DEVNAM_ALC14,NOSUCHDEV, - : SFALC14
042F 836 DEVNAM_ALC10,DEVALLOC, - : SFALC10
042F 837 >, -
042F 838
042F 839 <1,PHYLEN_ALC, -
042F 840 >, -
042F 841
042F 842 <1,PHYBUF_ALC, -
042F 843 >, -
042F 844
042F 845 <1,ACMODE_ALC, -
042F 846 >, -
042F 847
06C4 848 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
06E4 849 TS2:
06E4 850 TESTSERV DALLOC,ERR,SATS, -
06E4 851 - -
06E4 852 <1,DEVNAM_DAL, -
06E4 853 DEVNAM_DAL10,ACCVIO, - ; SFDAL10
06E4 854 DEVNAM_DAL11,IVDEVNAM, - ; SFDAL11
06E4 855 DEVNAM_DAL12,NOSUCHDEV, - ; SFDAL12
06E4 856 DEVNAM_DAL13,DEVNOTALLOC, - ; SFDAL13
06E4 857 DEVNAM_DAL14,IVLOGNAM, - ; SFDAL14
06E4 858 >, -
06E4 859 - -
06E4 860 <1,ACMODE_DAL, -
06E4 861 >, -
06E4 862 - -
084F 863 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
086F 864 TS3:
086F 865 TESTSERV CANCEL,ERR,SATS, -
086F 866
086F 867 <1,CHAN_CAN, -
086F 868 CHAN_CAN10,NOPRIV, - : SFCAN10
086F 869 CHAN_CAN11,IVCHAN, - : SFCAN11
086F 870 CHAN_CAN12,IVCHAN, - : SFCAN12
086F 871 >, -
086F 872
0943 873 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
0963 874 TS4:
0963 875 TESTSERV BRDCST,ERR,SATS, -
0963 876 <1,MSGBUF_BRD, -
0963 877 MSGBUF_BRD10,ACCVIO, - ; SFBRD10
0963 878 MSGBUF_BRD13,NOPRIV, - ; SFBRD13
0963 879 ; >, -
0963 880 <1,DEVNAM_BRD, -
0963 881 DEVNAM_BRD20,ACCVIO, - ; SFBRD20
0963 882 DEVNAM_BRD21,NOSUCHDEV, - ; SFBRD21
0963 883 DEVNAM_BRD22,IVDEVNAM, - ; SFBRD22
0963 884 >, -
0963 885
0963 886
0963 887
0ACE 888 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

				0AEE	889	.SBTTL EXECUTE & CLEANUP	
				0AEE	890	EXECUTE:	
				0AEE	891	TEST_SERV_EXEC	: EXECUTE ALL T. CASES IN ALL GROUPS
				0B16	892	CLEANUP:	
00000044'EF	01	1C	0147	0B16	893	BSBW MOD_MSG_PRINT	: PRINT TEST MODULE END MSG
			01	0B19	894	INSV #1,#STSSV_INHIB_MSG,#1,MOD_MSG_CODE	: INHIBIT PRINTING
			FO	0B22	895		: INHIBIT PRINTING
				0B22	896	\$EXIT_S MOD_MSG_CODE	: EXIT TO OP SYS WITH MSG CODE


```

OB2F 898      .SBTTL TC_CONTROL
OB2F 899      :++
OB2F 900      : FUNCTIONAL DESCRIPTION
OB2F 901      :
OB2F 902      :         THE TC CONTROL SUBROUTINE IS CALLED BY THE TEST_SERV_EXEC
OB2F 903      : MACRO TO EXECUTE A GROUP OF TEST CASES. A GROUP IS DEFINED BY A TC_GROUP
OB2F 904      : MACRO. FOR EACH TC_GROUP MACRO, THERE IS A CORRESPONDING TESTSERV MACRO.
OB2F 905      : TESTSERV CONTAINS CODE TO EXECUTE SYSTEM SERVICES AND CHECK THE RETURNED
OB2F 906      : STATUS CODE VALUES. TESTSERV ARGUMENTS ARE CODED TO SPECIFY ALL THE SYSTEM
OB2F 907      : SERVICE ARGUMENT VALUES AND THE EXPECTED STATUS CODE FOR EACH TEST CASE
OB2F 908      : DEFINED BY A NEXT TEST CASE MACRO WITHIN THE GROUP. TC CONTROL USES A
OB2F 909      : CO-ROUTINE INTERFACE TO ENTER THE CODE OF THE APPROPRIATE TESTSERV MACRO
OB2F 910      : IN VARIOUS PLACES. THE FIRST ENTRY OCCURS ONCE PER GROUP TO ALLOW TESTSERV
OB2F 911      : TO DO SOME INITIALIZATION. THEN TWO ENTRIES ARE MADE FOR EACH TEST CASE IN
OB2F 912      : THE GROUP. THE FIRST ALLOWS TESTSERV TO ISSUE THE SUBJECT SYSTEM SERVICE.
OB2F 913      : THE SECOND ENTRY FOR THE TEST CASE CAUSES TESTSERV TO CHECK THE RETURNED
OB2F 914      : STATUS CODE, PRINTING A FAILURE MESSAGE IF IT IS NOT THE EXPECTED CODE.
OB2F 915      : IF THERE ARE NO MORE TEST CASES IN THE CURRENT GROUP, TESTSERV (NOT TC CONTROL)
OB2F 916      : RETURNS DIRECTLY TO TEST_SERV_EXEC (RSB ACTUALLY ISSUED IN TS_CLEANUP MACRO)
OB2F 917      : FROM THIS SECOND ENTRY; OTHERWISE, CONTROL RETURNS TO TC_CONTROL WHICH
OB2F 918      : IN TURN ENTERS TESTSERV AGAIN FOR THE NEXT TEST CASE. THE FAILURE OF A
OB2F 919      : TEST CASE DOES NOT CAUSE TERMINATION OF THE TEST MODULE.
OB2F 920      :
OB2F 921      : CALLING SEQUENCE:
OB2F 922      :
OB2F 923      :         BSBW TC_CONTROL (ISSUED WITHIN THE TEST_SERV_EXEC MACRO)
OB2F 924      :         (RSB IS ISSUED WITHIN THE TS_CLEANUP MACRO)
OB2F 925      :
OB2F 926      : INPUT PARAMETERS:
OB2F 927      :
OB2F 928      :         NONE
OB2F 929      :
OB2F 930      : IMPLICIT INPUTS:
OB2F 931      :
OB2F 932      :         ARGUMENTS SPECIFIED ON EACH TESTSERV MACRO MAY BE VIEWED AS
OB2F 933      :         INPUTS, SINCE TC_CONTROL AND TESTSERV ACT AS CO-ROUTINES.
OB2F 934      :
OB2F 935      : OUTPUT PARAMETERS:
OB2F 936      :
OB2F 937      :         SEVERITY CODE FIELD OF MOD MSG CODE (BITS 0,1,2) IS SET TO ERROR
OB2F 938      :         IF ANY TEST CASE IN THE CURRENT GROUP FAILS; OTHERWISE IT REMAINS
OB2F 939      :         SET TO SUCCESSFUL.
OB2F 940      :
OB2F 941      : IMPLICIT OUTPUTS:
OB2F 942      :
OB2F 943      :         %UETP-I-TEXT, ERROR MESSAGES ARE WRITTEN TO SYS$OUTPUT BY
OB2F 944      :         THE TESTSERV MACRO (CO-ROUTINE WITH TC_CONTROL)
OB2F 945      :
OB2F 946      : COMPLETION CODES:
OB2F 947      :
OB2F 948      :         NONE
OB2F 949      :
OB2F 950      : SIDE EFFECTS:
OB2F 951      :
OB2F 952      :         NONE
OB2F 953      :
OB2F 954      : --

```

```

00000064'EF DD 0B2F 955
          9E 16 0B2F 956
00000056'EF 20 0B2F 957
          003E 30 0B2F 958 TC_CONTROL:
00000004'FF 16 0B2F 959 PUSHL TS EP
          0046 30 0B35 960 JSB @ (SP)+
          9E 16 0B37 961 10$: MOVB #^A/ /,$$TSTN$$+2
          0051 30 0B37 962 BSBW REG_SAVE
07 000000E2'EF 00 0B3E 963 JSB @CURRENT_TC
50 00000000'8F D0 0B41 964 BSBW REG_REST
          9E 16 0B47 965 JSB @ (SP)+
          00 00 0B4A 966 BSBW REG_COMP
          00 00 0B4C 967
          00 00 0B4F 968
          00 00 0B4F 969 BBCC #DETACHV,FLAG,20$
          00 00 0B57 970 MOVL #$$$_NOPRIV,R0
          9E 16 0B5E 971 20$: JSB @ (SP)+
00000056'EF 2A 91 0B5E 972 CMPB #^A/*/, $$TSTN$$+2
          CE 12 0B60 973 BNEQU 10$
00000060'EF 00000088'EF DE 0B67 974 MOVAL TEST MOD FAIL,TMD_ADDR
00000044'EF 03 00 02 F0 0B69 975 INSV #ERROR,#0,#3,MOD_MSG_CODE
          B8 11 0B74 976 BRB 10$
          0B7D 977
          0B7F 978
          0B7F 979
          0B7F 980
          TC_CONTROL RETURNS TO TEST_SERV_EXEC VIA TESTSERV (IN TS_CLEANUP MACRO)

```

```

: PUSH TESTSERV ENTRY POINT
: ENTER TESTSERV INITIALIZATION
: PROCESS NEXT TEST CASE
: MAKE SURE T.C. NAME HAS A BLANK
: SAVE REGISTERS
: JUMP TO CURRENT TEST CASE
: RESTORE REGS FOR TESTSERV
: LET TESTSERV ISSUE SYSTEM SERVICE
: COMPARE REGS TO SEE IF ...
: ... SYSTEM SERVICE CHANGED ANY
: Br if not running on OPA0
: Otherwise fake the return status
: LET TESTSERV CHEK S.S. STATUS CODE
: HAS TESTSERV INDICATED FAILURE ?
: NO -- PROCESS NEXT TEST CASE
: YES -- INDICATE FAILED IN END MSG
: ADJUST STATUS CODE FOR ERROR
: LOOP BAK TO PROCESS NEXT TEST CASE

```

```
00000008'EF 7FFF 8F BB 0B7F 982 .SBTTL SUBROUTINES
              6E 3C 28 0B7F 983 REG_SAVE:
              7FFF 8F BA 0B7F 984 :
              05 0B7F 985 :*****
              0B83 986 *
              0B88 987 * SAVES R0 THRU SP IN REG_SAVE_AREA *
              0B8F 988 *
              0B90 989 :*****
              0B90 990 :
              0B90 991 PUSHR #R0_THRU_SP ; SAVE ALL REGS ON STACK
              0B90 992 MOVCL #60,(SP),REG_SAVE_AREA ; SAVE REGS (BEFORE S.S.)
              0B90 993 POPR #R0_THRU_SP ; CLEAN UP STACK
              0B90 994 RSB ; .... AND RETURN
              0B90 995 :
              0B90 996 :
              0B90 997 :
              0B90 998 :
              0B90 999 REG_REST:
              0B90 1000 :
              0B90 1001 :*****
              0B90 1002 *
              0B90 1003 * RESTORES R0 THRU SP FROM REG_SAVE_AREA *
              0B90 1004 *
              0B90 1005 :*****
              0B90 1006 :
              0B90 1007 :
              6E 00000008'EF 5E 3C C2 0B90 1008 SUBL2 #60,SP ; MOVE SP TO MAKE ROOM FOR REGS
              7FFF 8F 28 0B93 1009 MOVCL #60,REG_SAVE_AREA,(SP) ; MOVE REGS ONTO STACK FOR POP
              BA 0B9B 1010 POPR #R0_THRU_SP ; RESTORE ALL REGS FOR TESTSERV
              05 0B9F 1011 RSB ; ... AND RETURN
```

```

OBA0 1013 REG_COMP:
OBA0 1014 :
OBA0 1015 : *****
OBA0 1016 : *
OBA0 1017 : * 1) PUSHES ALL REGS ONTO STACK *
OBA0 1018 : * 2) COMPARES REGISTER IMAGES FROM STACK WITH CORRESPONDING *
OBA0 1019 : * IMAGES FROM REG_SAVE_AREA FOR ALL REGISTERS SPECIFIED *
OBA0 1020 : * IN REG_COMP_MASK. *
OBA0 1021 : * 3) FOR EACH UNEQUAL COMPARE, AN ERROR MESSAGE IS PRINTED *
OBA0 1022 : * (USING $FAO AND $OUTPUT SYSTEM SERVICES). *
OBA0 1023 : * 4) POPS ALL REGS OFF OF STACK *
OBA0 1024 : *
OBA0 1025 : *****
OBA0 1026 :
56 7FFF 8F BB OBA0 1027 PUSHR #R0_THRU_SP ; SAVE ALL REGISTERS ON STACK
00000008'EF DE OBA4 1028 MOVAL REG_SAVE_AREA,R6 ; POINT R6 TO BEG OF
54 5E D0 OBAB 1029 ; ... REGS (BEFORE S.S.)
FF 8F 98 OBAE 1030 MOVL SP,R4 ; POINT R4 TO BEG OF
53 53 D6 OBB2 1031 ; ... REGS (AFTER S.S.)
0F 91 OBB4 1032 CVTBL #-1,R3 ; INITIALIZE REG_COMP_MASK INDEX
009F 31 OBB9 1033 REG_COMP_NEXT:
84 86 D1 OBBC 1034 INCL R3 ; POINT TO NEXT BIT IN MASK
F1 13 OBBF 1035 CMPB #15,R3 ; END OF THE MASK ?
00000048'EF 53 D0 OBC9 1036 BGTRU REG_COMP_CONT ; NO -- CONTINUE
0000004C'EF FC A6 D0 OBD0 1037 BRW REG_COMP_RSB ; YES -- GO TO COMMON RETURN
00000050'EF FC A4 D0 OBD8 1038 REG_COMP_CONT:
00000056'EF 2A 90 OBE0 1039 CMPL (R6)+,(R4)+ ; REG BEFORE = REG AFTER ?
E9 00000000'EF 53 E1 OBC1 1040 BEQLU REG_COMP_NEXT ; YES -- LOOK FOR NEXT REG
OBC9 1041 BBC R3,REG_COMP_MASK,REG_COMP_NEXT ; NO -- GET NEXT IF BIT NOT SET
00000048'EF 53 D0 OBC9 1042 MOVL R3,CLOB_REG_NO ; NO -- GIVE REG NUMBER TO FAO
0000004C'EF FC A6 D0 OBD0 1043 MOVL -4(R6),REG_BEFORE_SS ; GIVE 'BEFORE' CONTENTS TO FAO
00000050'EF FC A4 D0 OBD8 1044 MOVL -4(R4),REG_AFTER_SS ; GIVE 'AFTER' CONTENTS TO FAO
00000056'EF 2A 90 OBE0 1045 MOVB #^A/ /,$$TSTN$$+2 ; GIVE FAILURE INDIC'N IN ERROR MSG
OBE7 1047 :
OBE7 1048 $FAO_S ERR MSG FAOCTL,OUTL,OUTD,$$SNAD$$, -
OBE7 1049 $$ASEQ$$,$$PSEQ$$,CLOB_REG_NO,REG_BEFORE_SS,REG_AFTER_SS
F4F3 CF F4BD CF B0 OC1A 1050 :
F4D7 CF 0084 8F B0 OC21 1051 MOVW OUTL,OUTD ; ACTUAL OUTPUT LEN IN STRING DESC'R
00000056'EF 20 90 OC3D 1052 PUTMSG <#UETPS TEXT,#1,#OUTD> ; PRINT THE MSG
00000060'EF 00000088'EF DE OC3D 1053 MOVW #OUTE-OUTB,OUTD ; GET MAX LEN BACK INTO DESCRIPTOR
00000044'EF 03 00 02 F0 OC44 1054 MOVB #^A/ /,$$TSTN$$+2 ; REMOVE FAIL INDIC'N FOR NEXT MSG
FF57 31 OC4F 1055 MOVAL TEST MOD FAIL,TMD_ADDR ; INDICATE FAILED IN END MSG
7FFF 8F BA OC58 1056 INSV #ERROR,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR ERROR
05 OC5B 1057 BRW REG_COMP_NEXT ; GO LOOK FOR NEXT REG TO COMPARE
OC5B 1058 REG_COMP_RSB:
OC5B 1059 POPR #R0_THRU_SP ; CLEAN UP STACK
05 OC5F 1060 RSB ; RETURN TO CALLER

```

```

0C60 1062 MOD_MSG_PRINT:
0C60 1063 :
0C60 1064 : *****
0C60 1065 : *
0C60 1066 : * PRINTS THE TEST MODULE BEGUN/SUCCESSFUL/FAILED MESSAGES *
0C60 1067 : * (USING THE PUTMSG MACRO). *
0C60 1068 : *
0C60 1069 : *****
0C60 1070 :
05 0C60 1071 PUTMSG <MOD_MSG_CODE,#2,TMN_ADDR,TMD_ADDR> ; PRINT MSG
0C7B 1072 RSB ; ... AND RETURN TO CALLER
0C7C 1073 :
0C7C 1074 CHMRTN:
0C7C 1075 : *****
0C7C 1076 : *
0C7C 1077 : * CHANGE MODE ROUTINE. THIS ROUTINE GETS CONTROL WHENEVER
0C7C 1078 : * A CMKRN, CMEXEC, OR CMSUP SYSTEM SERVICE IS ISSUED
0C7C 1079 : * BY THE MODE MACRO ('TO' OPTION). IT MERELY DOES
0C7C 1080 : * A JUMP INDIRECT ON A FIELD SET UP BY MODE. IT HAS
0C7C 1081 : * THE EFFECT OF RETURNING TO THE END OF THE MODE
0C7C 1082 : * MACRO EXPANSION.
0C7C 1083 : *
0C7C 1084 : *****
0000079'FF 0000 0C7C 1085 :
17 0C7C 1086 .WORD 0 ; ENTRY MASK
0C7E 1087 JMP @CHM_CONT ; RETURN TO MODE MACRO IN NEW MODE
0C84 1088 :
0C84 1089 : * RET INSTR WILL BE ISSUED IN EXPANSION OF 'MODE FROM, ....' MACRO
0C84 1090 :
0C84 1091 .END SATSSF11

```


SATSSF11
Symbol table

```

SYSSASSIGN      ***** GX 06
SYSSBRDCST     ***** GX 06
SYSSCANCEL     ***** GX 06
SYSSCMEXEC     ***** GX 06
SYSSCMKRNL     ***** GX 06
SYSSCREMBX     ***** GX 06
SYSSDALLOC     ***** GX 06
SYSDASSGN      ***** GX 06
SYSDDELMBX     ***** GX 06
SYSEXIT        ***** GX 06
SYSSFAO        ***** X 06
SYSSFAOL       ***** GX 06
SYSSHIBER      ***** GX 06
SYSSSETPRN     ***** GX 06
SYSSSETPRT     ***** GX 06
SYSSSETPRV     ***** GX 06
SYSTRNLOG      ***** GX 06
SYSSWAKE       ***** GX 06
SYSTEM_DISK    000001F9 R 02
TC1            00000241 R 06
TC2            000002C2 R 06
TC3            00000344 R 06
TC4            000003E3 R 06
TCG_NO        = 00000004
TC_CONTROL    00000B2F R 06
TEST_MOD_BEG  00000077 R 02
TEST_MOD_FAIL 00000088 R 02
TEST_MOD_NAME 0000006E R 02
TEST_MOD_NAME_D 0000008F R 02
TEST_MOD_SUCC_D 0000007D R 02
TMD_ADDR      00000060 R 03
TMN_ADDR      0000005C R 03
TPID          00000000 R 03
TS1           0000042F R 06
TS2           000006E4 R 06
TS3           0000086F R 06
TS4           00000963 R 06
TS_EP         00000064 R 03
TTRAME        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	00000260 (608.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	000000E3 (227.)	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
SATSSF11	00000C84 (3204.)	06 (6.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC LONG

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.08	00:00:00.31
Command processing	107	00:00:00.65	00:00:01.88
Pass 1	435	00:00:17.33	00:00:35.19
Symbol table sort	0	00:00:01.36	00:00:02.53
Pass 2	217	00:00:04.18	00:00:08.52
Symbol table output	19	00:00:00.14	00:00:00.15
Psect synopsis output	2	00:00:00.03	00:00:00.23
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	811	00:00:23.77	00:00:48.82

The working set limit was 1650 pages.
93044 bytes (182 pages) of virtual memory were used to buffer the intermediate code.
There were 50 pages of symbol table space allocated to hold 783 non-local and 123 local symbols.
1091 source lines were read in Pass 1, producing 30 object records in Pass 2.
73 pages of virtual memory were used to define 57 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	30
TOTALS (all libraries)	51

1451 GETS were required to define 51 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSF11/OBJ=OBJ\$:SATSSF11 MSRCS\$:SATSSF11/UPDATE=(ENHS\$:SATSSF11)+EXECMLS\$/LIB+SHRLIB\$:UETP/LIB

