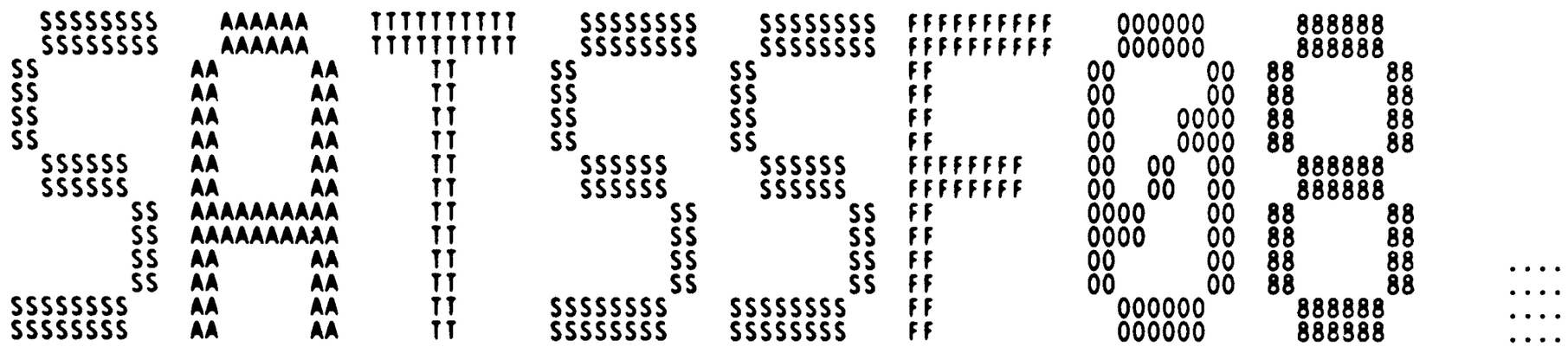
```
UUU          UUU  EEEEEEEEEEEEEEE  TTTTTTTTTTTTTTT  PPPPPPPPPPPP        SSSSSSSSSSS  YYY          YYY
UUU          UUU  EEEEEEEEEEEEEEE  TTTTTTTTTTTTTTT  PPPPPPPPPPPP        SSSSSSSSSSS  YYY          YYY
UUU          UUU  EEEEEEEEEEEEEEE  TTTTTTTTTTTTTTT  PPPPPPPPPPPP        SSSSSSSSSSS  YYY          YYY
UUU          UUU  EEE                    TTT        PPP          PPP  SSS              YYY          YYY
UUU          UUU  EEE                    TTT        PPP          PPP  SSS              YYY          YYY
UUU          UUU  EEE                    TTT        PPP          PPP  SSS              YYY          YYY
UUU          UUU  EEE                    TTT        PPP          PPP  SSS                 YYY    YYY
UUU          UUU  EEE                    TTT        PPP          PPP  SSS                 YYY    YYY
UUU          UUU  EEE                    TTT        PPP          PPP  SSS                 YYY    YYY
UUU          UUU  EEEEEEEEEEEE           TTT        PPPPPPPPPPPP       SSSSSSSSS              YYY
UUU          UUU  EEEEEEEEEEEE           TTT        PPPPPPPPPPPP       SSSSSSSSS              YYY
UUU          UUU  EEEEEEEEEEEE           TTT        PPPPPPPPPPPP       SSSSSSSSS              YYY
UUU          UUU  EEE                    TTT        PPP                        SSS              YYY
UUU          UUU  EEE                    TTT        PPP                        SSS              YYY
UUU          UUU  EEE                    TTT        PPP                        SSS              YYY
UUU          UUU  EEE                    TTT        PPP                        SSS              YYY
UUU          UUU  EEE                    TTT        PPP                        SSS              YYY
UUUUUUUUUUUUUUUU  EEEEEEEEEEEEEEE        TTT        PPP                SSSSSSSSSSS              YYY
UUUUUUUUUUUUUUUU  EEEEEEEEEEEEEEE        TTT        PPP                SSSSSSSSSSS              YYY
UUUUUUUUUUUUUUUU  EEEEEEEEEEEEEEE        TTT        PPP                SSSSSSSSSSS              YYY
```


SSSSSSSS AAAAAA TTTTTTTTTT SSSSSSSS SSSSSSSS FFFFFFFFFF 000000 888888
SSSSSSSS AAAAAA TTTTTTTTTT SSSSSSSS SSSSSSSS FFFFFFFFFF 000000 888888
SS AA AA TT SS SS FF 00 00 88 88
SS AA AA TT SS SS FF 00 00 88 88
SS AA AA TT SS SS FF 00 0000 88 88
SS AA AA TT SS SS FF 00 0000 88 88
SSSSSS AA AA TT SSSSSS SSSSSS FFFFFFFF 00 00 00 888888
SSSSSS AA AA TT SSSSSS SSSSSS FFFFFFFF 00 00 00 888888
SS AAAAAAAAAA TT SS SS FF 0000 00 88 88
SS AAAAAAAAAA TT SS SS FF 0000 00 88 88
SS AA AA TT SS SS FF 00 00 88 88
SS AA AA TT SS SS FF 00 00 88 88
SSSSSSSS AA AA TT SSSSSSSS SSSSSSSS FF 000000 888888
SSSSSSSS AA AA TT SSSSSSSS SSSSSSSS FF 000000 888888

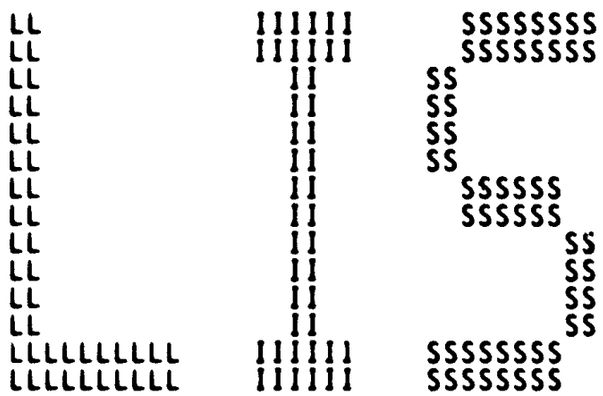

LL IIIIII SSSSSSSS
LL IIIIII SSSSSSSS
LL II SS
LL II SS
LL II SS
LL II SS
LL II SSSSSS
LL II SSSSSS
LL II SS
LL II SS
LL II SS
LL II SS
LLLLLLLLLL IIIIII SSSSSSSS
LLLLLLLLLL IIIIII SSSSSSSS

Table of contents

```
0000     1          .TITLE  SATSSF08 - SATS SYSTEM SERVICE TESTS  (FAILING S.C.)
0000     2          .IDENT  'V04-000'
0000     3
0000     4 ;
0000     5 ;*****************************************************************************
0000     6 ;*                                                                           *
0000     7 ;*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                  *
0000     8 ;*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                   *
0000     9 ;*  ALL RIGHTS RESERVED.                                                     *
0000    10 ;*                                                                           *
0000    11 ;*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED    *
0000    12 ;*  ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH  LICENSE  AND WITH THE   *
0000    13 ;*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER    *
0000    14 ;*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY    *
0000    15 ;*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY    *
0000    16 ;*  TRANSFERRED.                                                             *
0000    17 ;*                                                                           *
0000    18 ;*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE    *
0000    19 ;*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT   *
0000    20 ;*  CORPORATION.                                                             *
0000    21 ;*                                                                           *
0000    22 ;*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS    *
0000    23 ;*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                  *
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 SATSSF08 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: MAY, 1977
0000    44 ;         PAUL D. FAY (DISPSERV & TESTSERV MACROS)
0000    45 ;
0000    46 ; MODIFIED BY:
0000    47 ;
0000    48 ;
0000    49 ;       V03-001 RNP0001         Robert N. Perron        07-Oct-1981
0000    50 ;               Changed to reflect change in CMKRNL privilege. CMKRNL
0000    51 ;               now overlaps CMEXEC.
0000    52 ;
0000    53 ;**
0000    54 ;--
```

```
                     0000     56          .SBTTL  DECLARATIONS
                     0000     57 ;
                     0000     58 ; INCLUDE FILES:
                     0000     59 ;
                     0000     60          $PHDDEF                                 ; PROCESS HEADER OFFSET SYMBOLS
                     0000     61          $PCBDEF                                 ; PROCESS CONTROL BLOCK OFFSET SYMBS
                     0000     62          $STSDEF                                 ; STATUS MESSAGE SYMBOLS
                     0000     63          $PRVDEF                                 ; SYMBOL DEFS FOR PRIVILEGES
                     0000     64          $UETPDEF                                ; UETP MSG CODE DEFINITIONS
                     0000     65          $SHR_MESSAGES UETP,116,<<TEXT,INFO>>
                     0000     66                                                  ; DEFINE UETP$_TEXT
                     0000     67                                                  ; GET RID OF MACRO DEFINITIONS
                     0000     68 ;
                     0000     69 ; MACROS:
                     0000     70 ;
                     0000     71 ;
                     0000     72 ; EQUATED SYMBOLS:
                     0000     73 ;
00000000             0000     74 WARNING          = 0                             ; WARNING SEVERITY VALUE FOR MSGS
00000001             0000     75 SUCCESS          = 1                             ; SUCCESS SEVERITY VALUE FOR MSGS
00000002             0000     76 ERROR            = 2                             ; ERROR SEVERITY VALUE FOR MSGS
00000003             0000     77 INFO             = 3                             ; INFORMATIONAL SEV VALUE FOR MSGS
00000004             0000     78 SEVERE           = 4                             ; SEVERE (FATAL) SEV VALUE FOR MSGS
00000000             0000     79 TCG_NO           =  0                            ; INITIALIZE TEST CASE GROUP NUMBER
00000000             0000     80 GRP_TOTAL        =  0                            ; INITIALIZE TEST CASE GROUP TOTAL
00007FFF             0000     81 R0_THRU_SP       = ^M<R0,R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP,SP>
00000000             0000     82 ARGLST_CME       = 0                             ; ARGLST ARG FOR CMEXEC ...
                     0000     83                                                  ; ... (MISSING ARG LIST)
                     0000     84 ;
                     0000     85 ; OWN STORAGE:
                     0000     86 ;
```

```
                                                L 3
                    00000000     88          .PSECT  RODATA,RD,NOWRT,NOEXE,LONG
                    BFFC 0000    89 REG_COMP_MASK:   .WORD   ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP> ! ^X8000 -
                         0002                                                ; REG COMPARE MASK (HIGH-ORDER ...
                         0002    ,                                           ; ... BIT MUST BE ON
                         C002    92 ERR_MSG_FAOCTL: STRING  I,<!/!AC!1ZB!1ZB: REGISTER !2UW CONTENTS ALTERED>, -
                         0002    93                 <:  BEFORE SERVICE CALL: !8XL   AFTER SERVICE CALL: !8XL>
                         006E    94 TEST_MOD_NAME:  STRING  C,<SATSSF08>     ; 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 I,<SATSSF08>     ; TEST MODULE NAME DESCRIPTOR
                         009F    99 TTNAME:         STRING  I,<TT>           ; TERMINAL LOGICAL NAME
00000000'00000000'       00A9   100 INADR:          .LONG   NOACCESS,NOACCESS ; PAGE ADDRESS OF NOACCESS PSECT
          00000000'      00B1   101 PROT:           .LONG   PRT$C_NA         ; PROTECTION CODE FOR NOACCESS PSECT
FFFFFFFF FFFFFFFF        00B5   102 ONES:           .LONG   -1,-1            ; A QUADWORD OF 1-BITS
                         00BD   103 ROUTIN_CME:                              ; ROUTIN ARGUMENT FOR CMEXEC
                         00BD   104 ROUTIN_CME10:                            ; ROUTIN ARGUMENT FOR CMEXEC
                 0000    00BD   105                 .WORD   0                ; ENTRY MASK FOR CHANGE MODE SERVS
              50 00'8F    9A   00BF   106          MOVZBL  #SS$_NORMAL,R0     ; R0 LOAD FOR CHANGE MODE SERVICES
                    04    00C3   107                 RET                      ; RETURN INSTR FOR CHANGE MODE SERVS
                00000000  00C4   108 MSGID_GTM:    .LONG   0                ; MSGID ARGUMENT FOR GETMSG
                0000000F  00C8   109 FLAGS_GTM:    .LONG   ^B1111           ; FLAGS ARGUMENT FOR GETMSG
                FFFFFFF0  00CC   110 MSGID_GTM10:  .LONG   ^XFFFFFFF0       ; MSGID ARGUMENT FOR GETMSG
```

```
                00000000   112          .PSECT  RWDATA,RD,WRT,NOEXE
00000004   0000  00000004   113 TPID:            .BLKL   1               ; PROCESS ID FOR THIS PROCESS
00000008   0004  00000008   114 CURRENT_TC:      .BLKL   1               ; PTR TO CURRENT TEST CASE
00000044   0008  00000044   115 REG_SAVE_AREA:   .BLKL   15              ; SAVE AREA FOR ALL REGS (SANS PC)
007480D9   0044  00000050   116 MOD_MSG_CODE:    .LONG   UETP$_SATSMS    ; TEST MODULE MSG CODE FOR PUTMSG
0000004C   0048  00000054   117 CLOB_REG_NO:    .BLKL   1               ; CLOBBERED REG NO (FOR FAO ERR MSG)
00000050   004C  00000058   118 REG_BL ORE_SS:   .BLKL   1               ; REG CONTENTS BEFORE S.S.
           0050  0000005C   119                                         ; ... (FOR FAO ERROR MSG)
00000054   0050  00000060   120 RFG_AFTER_SS:    .BLKL   1               ; REG CONTENTS AFTER S.S.
           0054  00000064   121                                         ; ... (FOR FAO ERROR MSG)
           0054  00000068   122 $$TSTN$$:        STRING  C,<  SF    >    ; ASCII PORTION OF TEST CASE NAME
0000006E'  005C  0000006C   123 TMN_ADDR:        .ADDRESS TEST_MOD_NAME  ; ADDR OF TEST MOD NAME FOR FAO
00000077'  0060  00000070   124 TMD_ADDR:        .ADDRESS TEST_MOD_BEG   ; ADDR OF T.M. DISP FIELD FOR FAO
00000068   0064  00000074   125 TS_EP:           .BLKL   1               ; ENTRY PNT FOR CURR TESTSERV MACRO
00000070   0068  00000078   126 RETADR:          .BLKL   2               ; RETURN LONGWORDS FOR SETPRT
00000071   0070  00000080   127 PRVPRT:          .BLKB   1               ; PROT RETURN BYTE FOR SETPRT
00000079   0071  00000084   128 PRIVMASK:        .BLKQ   1               ; ADDR OF PRIVILEGE MASK (IN PHD)
0000007D   0079  0000008C   129 CHM_CONT:        .BLKL   1               ; CHANGE MODE CONTINUE ADDRESS
00000091   007D  00000090   130 REGS:            .BLKL   5               ; AREA FOR COND INDEX REGS (R2-R6)
00000093   0091  00000094   131 MSGLEN_GTM:      .BLKW   1               ; MSGLEN ARGUMENT FOR GETMSG
           0093  00000098   132 BUFADR_GTM:      STRING  0,256           ; BUFADR ARGUMENT FOR GETMSG
0000019F   019B  0000019C   133 OUTADR_GTM:      .BLKB   4               ; OUTADR ARGUMENT FOR GETMSG
           019F  000001A0   134 BUFADR_GTM30:                           ; BUFADR ARGUMENT FOR GETMSG
00000000   019F  000001A0   135                  .LONG   0               ; ZERO LENGTH STRING ...
000001A3'  01A3  000001A4   136                  .ADDRESS .              ; .... AT AN ACCESSIBLE LOCATION
           01A7  000001A8   137 BUFADR_GTM31:    STRING  0,1             ; BUFADR ARGUMENT FOR GETMSG
```

```
                                        N 3
00000000   139          .PSECT  SATS_ACCVIO_1,RD,WRT,NOEXE,PAGE
00000200 0000 140 EMPTY:        .BLKB   512     ; RESERVE A PAGE OF SPACE
         0200 141 ;
         0200 142 ;+
         0200 143 ; ************************************************************************
         0200 144 ; *                                                                      *
         0200 145 ; *     THE ORDER OF STATEMENTS IN THIS PSECT IS CRITICAL.               *
         0200 146 ; *     DO NOT RE-ARRANGE THE VARIABLES. CONSULT SATS                    *
         0200 147 ; *     FUNCTIONAL SPECIFICATION FOR A DESCRIPTION OF THE USE            *
         0200 148 ; *     OF THE EMPTY PSECT (AND ITS COMPANION PSECT, NOACCESS).          *
         0200 149 ; *                                                                      *
         0200 150 ; ************************************************************************
         0200 151 ;-
         0200 152 ;
         0200 153 ; TYPE AAAAA_SSSX1 (TYPE AAAAA_SSSX2 IF NOT DESC) GO HERE:
000001F3 0200 154                .=  . - 13      ; ALLOW ROOM FOR STRING DESCRIPTOR
         01F3 155 ; TYPE AAAAA_SSSX5 GO HERE:
00000006 01F3 156                .LONG   6       ; STRING LENGTH (WILL CROSS PSECT BOUNDARY)
000001FB' 01F7 157               .ADDRESS .+4    ; STRING ADDRESS
         01FB 158 ; TYPE AAAAA_SSSX3 GO HERE:
000001FC 01FB 159                .BLKB   1       ; LOW-ORDER BYTE OF STRING LENGTH
         01FC 160 ; TYPE AAAAA_SSSX2 GO HERE:
00000200 01FC 161                .BLKL   1       ; STRING LENGTH
         0200 162 ;
         0200 163 ;
         0200 164 ;
         0200 165 ;
   00000000  166          .PSECT  SATS_ACCVIO_2,RD,WRT,NOEXE,PAGE
00000200 0000 167 NOACCESS:     .BLKB   512     ; RESERVE A PAGE OF SPACE
00000000 0200 168                . = . - 512    ; RETURN LOC CTR TO BEGINNING OF PSECT
00000000' 0000 169               .ADDRESS EMPTY  ; ADDRESS OF ACCESSIBLE STRING
00000000' 0004 170               .ADDRESS EMPTY/^X100 ; ADDRESS OF ACCESSIBLE STRING
         0008 171 ;+
         0008 172 ; *** NOTE -- DO NOT CHANGE LOCATION OR SEQUENCE OF ABOVE STATEMENTS!
         0008 173 ; ***          THIS PSECT (NOACCESS) MUST APPEAR IN MEMORY IMMEDIATELY
         0008 174 ; ***          FOLLOWING THE EMPTY PSECT. PSECT NAMES AND OPTIONS WILL BE
         0008 175 ; ***          CHOSEN TO FORCE THE DESIRED PSECT ORDERING.
         0008 176 ;-
         0008 177 ;
         0008 178 ;
         0008 179 ;
         0008 180 ;
   00000000  181          .PSECT  SATSSF08,RD,WRT,EXE,LONG
```

```
                                B 4
0000    183          .SBTTL  SATSSF08
0000    184 ;++
0000    185 ; FUNCTIONAL DESCRIPTION:
0000    186 ;
0000    187 ;               AFTER PERFORMING SOME INITIAL HOUSEKEEPING, SUCH AS
0000    188 ; PRINTING THE MODULE BEGIN MESSAGE AND ACQUIRING ALL PRIVILEGES,
0000    189 ; THE SATSSF08 ROUTINE EXECUTES THE TEST_SERV_EXEC MACRO TO RUN
0000    190 ; ALL TEST CASES. WHEN THE MACRO COMPLETES ITS EXECUTION, SATSSF08
0000    191 ; PRINTS A TEST MODULE SUCCESS OR FAIL MESSAGE AND EXITS TO THE
0000    192 ; OPERATING SYSTEM. TEST_SERV_EXEC CALLS THE TC_CONTROL/TESTSERV
0000    193 ; CO-ROUTINE PAIR ONCE PER TEST CASE GROUP TO EXECUTE ALL TEST
0000    194 ; CASES IN THAT GROUP. EACH TEST CASE GROUP IS DEFINED BY BOUNDING
0000    195 ; ITS TEST CASES WITH A TC_GROUP MACRO BEFORE THE FIRST TEST CASE
0000    196 ; AND A TCEND MACRO AFTER THE LAST ONE. THE TEST CASES THEMSELVES
0000    197 ; ARE DEFINED WITHIN THESE BOUNDS BY PRECEDING EACH WITH A
0000    198 ; NEXT_TEST_CASE MACRO. TC_CONTROL/TESTSERV EXECUTES THE CODE
0000    199 ; FOLLOWING EACH NEXT_TEST_CASE MACRO IMMEDIATELY BEFORE ISSUING
0000    200 ; THE SYSTEM SERVICE AS REQUESTED IN THE TESTSERV MACRO. TC_CONTROL/
0000    201 ; TESTSERV ALSO CHECKS THE RESULTS OF THE SERVICE WITH RESPECT
0000    202 ; TO ITS EXPECTED STATUS CODE AND PRINTS ANY REQUIRED FAILURE
0000    203 ; MESSAGES FOR THE TEST CASE. THE CODE APPEARING AFTER EACH
0000    204 ; NEXT_TEST_CASE MACRO IS MERELY TO SET UP CONDITIONS REQUIRED
0000    205 ; FOR THE SYSTEM SERVICE AND TO CLEAN UP ANY RESOURCES ACQUIRED
0000    206 ; BY THE PREVIOUS TEST CASE.
0000    207 ;
0000    208 ; CALLING SEQUENCE:
0000    209 ;
0000    210 ;       $ RUN SATSSF08  ...  (DCL COMMAND)
0000    211 ;
0000    212 ; INPUT PARAMETERS:
0000    213 ;
0000    214 ;       NONE
0000    215 ;
0000    216 ; IMPLICIT INPUTS:
0000    217 ;
0000    218 ;       NONE
0000    219 ;
0000    220 ; OUTPUT PARAMETERS:
0000    221 ;
0000    222 ;       NONE
0000    223 ;
0000    224 ; IMPLICIT OUTPUTS:
0000    225 ;
0000    226 ;       MESSAGES TO SYS$OUTPUT ARE THE ONLY OUTPUT FROM SATSSF08.
0000    227 ;       THEY ARE OF THE FORM:
0000    228 ;
0000    229 ;               %UETP-S-SATSMS, TEST MODULE SATSSF08 BEGUN ... (BEGIN MSG)
0000    230 ;               %UETP-S-SATSMS, TEST MODULE SATSSF08 SUCCESSFUL ... (END MSG)
0000    231 ;               %UETP-E-SATSMS, TEST MODULE SATSSF08 FAILED ... (END MSG)
0000    232 ;               %UETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
0000    233 ;
0000    234 ; COMPLETION CODES:
0000    235 ;
0000    236 ;       THE SATSSF08 ROUTINE TERMINATES WITH A $EXIT TO THE
0000    237 ;       OPERATING SYSTEM WITH A STATUS CODE DEFINED BY UETP$_SATSMS.
0000    238 ;
0000    239 ; SIDE EFFECTS:
```

```
                                0000   240 ;
                                0000   241 ;       NONE
                                0000   242 ;
                                0000   243 ;--
                                0000   244
                                0000   245
                                0000   246
                                0000   247 SATSSF08:
                          0FFC  0000   248         .WORD   ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
                                0002   249                                         ; ENTRY MASK
                                0002   250         $WAKE_S  TPID                   ; GET PID OF THIS PROCESS
                                0011   251         $HIBER_S                        ; UNDO WAKE
                                0018   252         $SETPRN_S TEST_MOD_NAME_D       ; SET PROCESS NAME
                     08C3   30  0025   253         BSBW    MOD_MSG_PRINT           ; PRINT TEST MODULE BEGIN MSG
 00000060'EF    0000007D'EF   DE  0028   254         MOVAL   TEST_MOD_SUCC,TMD_ADDR  ; ASSUME END MSG WILL SHOW SUCCESS
00000044'EF    03    00   01   F0  0033   255         INSV    #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
                                003C   256         MODE    TO,10$,KRNL,NOREGS      ; KERNEL MODE TO ACCESS PHD
           59   00000000'9F   D0  0059   257         MOVL    @#CTL$GL_PHD,R9         ; GET PROCESS HEADER ADDRESS
          00000071'EF    69   DE  0060   258         MOVAL   PHD$Q_PRIVMSK(R9),PRIVMASK ; GET PRIV MASK ADDRESS
                                0067   259         MODE    FROM,TO$                ; GET BACK TO USER MODE
                                0068   260         PRIV    ADD,ALL                 ; GET ALL PRIVILEGES
                                0088   261         DISPSERV                        ; SET UP DISPLAY INFO FOR TESTSERV
                                021D   262         $SETPRT_S INADR=INADR, RETADR=RETADR, -
                                021D   263                   PROT=PROT, PRVPRT=PRVPRT
                                023E   264                                         ; SET NOACCESS PSECT ...
                                023E   265                                         ; ... FOR NO USER ACCESS
                     055B   31  023E   266         BRW     EXECUTE                 ; GO EXECUTE ALL TEST CASES
                                0241   267 ;
                                0241   268         TC_GROUP        CME,1,TS1
                                0268   269 ;
                                0268   270         NEXT_TEST_CASE  SFCME10
```

```
                                D 4
0268    271 ;
0268    272 ;++
0268    273 ; ******************************************************
0268    274 ; *
0268    275 ; *  TEST CASE NAME:              SFCME10
0268    276 ; *
0268    277 ; *  SYSTEM SERVICE:              CMEXEC
0268    278 ; *
0268    279 ; *  ARGUMENT UNDER TEST:         ROUTIN_CME10
0268    280 ; *
0268    281 ; *  INPUT CONDITIONS:
0268    282 ; *     ISSUER OF CMEXEC SERVICE DOES NOT HAVE THE
0268    283 ; *       CHANGE MODE TO EXEC PRIVILEGE
0268    284 ; *
0268    285 ; *  EXPECTED RESULTS:
0268    286 ; *     1) SYSTEM STATUS CODE:  NOPRIV
0268    287 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
0268    288 ; *
0268    289 ; ******************************************************
0268    290 ;--
0268    291 ;
0268    292         PRIV    REM,CMEXEC      ; REMOVE CHG MODE TO EXEC PRIVILEGE
0280    293         PRIV    REM,CMKRNL      ; REMOVE CHG MODE TO KERNEL PRIVILEGE
0298    294 ;
0298    295         TCEND
```

```
0299   296 ;
0299   297          TC_GROUP        GTM,1,TS2
02C0   298 ;
02C0   299          NEXT_TEST_CASE  SFGTM10
```

```
02C0    300 ;
02C0    301 ;++
02C0    302 ; ******************************************************
02C0    303 ; *
02C0    304 ; *  TEST CASE NAME:              SFGTM10
02C0    305 ; *
02C0    306 ; *  SYSTEM SERVICE:              GETMSG
02C0    307 ; *
02C0    308 ; *  ARGUMENT UNDER TEST:         MSGID_GTM10
02C0    309 ; *
02C0    310 ; *  INPUT CONDITIONS:
02C0    311 ; *     MESSAGE IDENTIFICATION NOT IN USE BY SYSTEM
02C0    312 ; *
02C0    313 ; *  EXPECTED RESULTS:
02C0    314 ; *     1) SYSTEM STATUS CODE:  MSGNOTFND
02C0    315 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
02C0    316 ; *
02C0    317 ; ******************************************************
02C0    318 ;--
02C0    319 ;
02C0    320         PRIV    ADD,ALL         ; GET BACK ANY PRIVS LOST BY LAST TEST CASE
02E0    321 ;
02E0    322         NEXT_TEST_CASE  SFGTM30
```

```
02EC    323 ;
02EC    324 ;++
02EC    325 ; ******************************************************
02EC    326 ; *
02EC    327 ; *  TEST CASE NAME:              SFGTM30
02EC    328 ; *
02EC    329 ; *  SYSTEM SERVICE:              GETMSG
02EC    330 ; *
02EC    331 ; *  ARGUMENT UNDER TEST:         BUFADR_GTM30
02EC    332 ; *
02EC    333 ; *  INPUT CONDITIONS:
02EC    334 ; *     MESSAGE BUFFER (LENGTH 0) NOT LARGE
02EC    335 ; *       ENOUGH TO CONTAIN MESSAGE.
02EC    336 ; *
02EC    337 ; *  EXPECTED RESULTS:
02EC    338 ; *     1) SYSTEM STATUS CODE:  BUFFEROVF
02EC    339 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
02EC    340 ; *
02EC    341 ; ******************************************************
02EC    342 ;--
02EC    343 ;
02EC    344 ;
02EC    345         NEXT_TEST_CASE  SFGTM31
```

```
                                                                H 4
02F8    346 ;
02F8    347 ;++
02F8    348 ; ******************************************************
02F8    349 ; *
02F8    350 ; *  TEST CASE NAME:              SFGTM31
02F8    351 ; *
02F8    352 ; *  SYSTEM SERVICE:              GETMSG
02F8    353 ; *
02F8    354 ; *  ARGUMENT UNDER TEST:         BUFADR_GTM31
02F8    355 ; *
02F8    356 ; *  INPUT CONDITIONS:
02F8    357 ; *     MESSAGE BUFFER (LENGTH 1) NOT LARGE
02F8    358 ; *       ENOUGH TO CONTAIN MESSAGE.
02F8    359 ; *
02F8    360 ; *  EXPECTED RESULTS:
02F8    361 ; *     1) SYSTEM STATUS CODE:  BUFFEROVF
02F8    362 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
02F8    363 ; *
02F8    364 ; ******************************************************
02F8    365 ;--
02F8    366 ;
02F8    367 ;
02F8    368         TCEND
```

```
                                I 4
02F9    369 TS1:
02F9    370         TESTSERV        CMEXEC,ERR,SATS,                                -
02F9    371                                                                         -
02F9    372           <1,ROUTIN_CME,                                                -
02F9    373                         ROUTIN_CME10,NOPRIV,    -  ; SFCME10
02F9    374                                                   >,                    -
02F9    375                                                                         -
02F9    376           <1,ARGLST_CME,                                                -
02F9    377                                                   >,                    -
02F9    378
0444    379         TS_CLEANUP              ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
0464    380 TS2:
0464    381         TESTSERV        GETMSG,ERR,SATS,                                -
0464    382                                                                         -
0464    383            <1,MSGID_GTM,                                                -
0464    384                         MSGID_GTM10,MSGNOTFND,  -  ; SFGTM10
0464    385                                                 >,                      -
0464    386                                                                         -
0464    387            <1,MSGLEN_GTM,                                               -
0464    388                                                 >,                      -
0464    389                                                                         -
0464    390            <1,BUFADR_GTM,                                               -
0464    391                         BUFADR_GTM30,BUFFEROVF, -  ; SFGTM30
0464    392                         BUFADR_GTM31,BUFFEROVF, -  ; SFGTM31
0464    393                                                 >,                      -
0464    394                                                                         -
0464    395            <1,FLAGS_GTM,                                                -
0464    396                                                 >,                      -
0464    397                                                                         -
0464    398            <1,OUTADR_GTM,                                               -
0464    399                                                 >,                      -
0464    400
077C    401         TS_CLEANUP              ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
                                079C   402          .SBTTL  EXECUTE & CLEANUP
                                079C   403 EXECUTE:
                                079C   404          TEST_SERV_EXEC                  ; EXECUTE ALL T. CASES IN ALL GROUPS
                                07B0   405 CLEANUP:
                          0138   30    07B0   406          BSBW    MOD_MSG_PRINT           ; PRINT TEST MODULE END MSG
00000044'EF   01    1C    01    F0    07B3   407          INSV    #1,#STS$V_INHIB_MSG,#1,MOD_MSG_CODE
                                07BC   408                                          ; INHIBIT PRINTING
                                07BC   409          $EXIT_S MOD_MSG_CODE            ; EXIT TO OP SYS WITH MSG CODE
```

```
07C9    411          .SBTTL  TC_CONTROL
07C9    412 ;++
07C9    413 ; FUNCTIONAL DESCRIPTION:
07C9    414 ;
07C9    415 ;                   THE TC_CONTROL SUBROUTINE IS CALLED BY THE TEST_SERV_EXEC
07C9    416 ; MACRO TO EXECUTE A GROUP OF TEST CASES. A GROUP IS DEFINED BY A TC_GROUP
07C9    417 ; MACRO. FOR EACH TC_GROUP MACRO, THERE IS A CORRESPONDING TESTSERV MACRO.
07C9    418 ; TESTSERV CONTAINS CODE TO EXECUTE SYSTEM SERVICES AND CHECK THE RETURNED
07C9    419 ; STATUS CODE VALUES. TESTSERV ARGUMENTS ARE CODED TO SPECIFY ALL THE SYSTEM
07C9    420 ; SERVICE ARGUMENT VALUES AND THE EXPECTED STATUS CODE FOR EACH TEST CASE
07C9    421 ; DEFINED BY A NEXT_TEST_CASE MACRO WITHIN THE GROUP. TC_CONTROL USES A
07C9    422 ; CO-ROUTINE INTERFACE TO ENTER THE CODE OF THE APPROPRIATE TESTSERV MACRO
07C9    423 ; IN VARIOUS PLACES. THE FIRST ENTRY OCCURS ONCE PER GROUP TO ALLOW TESTSERV
07C9    424 ; TO DO SOME INITIALIZATION. THEN TWO ENTRIES ARE MADE FOR EACH TEST CASE IN
07C9    425 ; THE GROUP. THE FIRST ALLOWS TESTSERV TO ISSUE THE SUBJECT SYSTEM SERVICE.
07C9    426 ; THE SECOND ENTRY FOR THE TEST CASE CAUSES TESTSERV TO CHECK THE RETURNED
07C9    427 ; STATUS CODE, PRINTING A FAILURE MESSAGE IF IT IS NOT THE EXPECTED CODE.
07C9    428 ; IF THERE ARE NO MORE TEST CASES IN THE CURRENT GROUP, TESTSERV (NOT TC_CONTROL)
07C9    429 ; RETURNS DIRECTLY TO TEST_SERV_EXEC (RSB ACTUALLY ISSUED IN TS_CLEANUP MACRO)
07C9    430 ; FROM THIS SECOND ENTRY; OTHERWISE, CONTROL RETURNS TO TC_CONTROL WHICH
07C9    431 ; IN TURN ENTERS TESTSERV AGAIN FOR THE NEXT TEST CASE. THE FAILURE OF A
07C9    432 ; TEST CASE DOES NOT CAUSE TERMINATION OF THE TEST MODULE.
07C9    433 ;
07C9    434 ; CALLING SEQUENCE:
07C9    435 ;
07C9    436 ;       BSBW TC_CONTROL (ISSUED WITHIN THE TEST_SERV_EXEC MACRO)
07C9    437 ;                       (RSB IS ISSUED WITHIN THE TS_CLEANUP MACRO)
07C9    438 ;
07C9    439 ; INPUT PARAMETERS:
07C9    440 ;
07C9    441 ;       NONE
07C9    442 ;
07C9    443 ; IMPLICIT INPUTS:
07C9    444 ;
07C9    445 ;       ARGUMENTS SPECIFIED ON EACH TESTSERV MACRO MAY BE VIEWED AS
07C9    446 ;       INPUTS, SINCE TC_CONTROL AND TESTSERV ACT AS CO-ROUTINES.
07C9    447 ;
07C9    448 ; OUTPUT PARAMETERS:
07C9    449 ;
07C9    450 ;       SEVERITY CODE FIELD OF MOD_MSG_CODE (BITS 0,1,2) IS SET TO ERROR
07C9    451 ;       IF ANY TEST CASE IN THE CURRENT GROUP FAILS; OTHERWISE IT REMAINS
07C9    452 ;       SET TO SUCCESSFUL.
07C9    453 ;
07C9    454 ; IMPLICIT OUTPUTS:
07C9    455 ;
07C9    456 ;       %UETP-I-TEXT,   ERROR MESSAGES ARE WRITTEN TO SYS$OUTPUT BY
07C9    457 ;                       THE TESTSERV MACRO (CO-ROUTINE WITH TC_CONTROL)
07C9    458 ;
07C9    459 ; COMPLETION CODES:
07C9    460 ;
07C9    461 ;       NONE
07C9    462 ;
07C9    463 ; SIDE EFFECTS:
07C9    464 ;
07C9    465 ;       NONE
07C9    466 ;
07C9    467 ;--
```

```
                                    07C9   468
                                    07C9   469
                                    07C9   470
                                    07C9   471 TC_CONTROL:
            00000064'EF    DD       07C9   472          PUSHL   TS_EP                       ; PUSH TESTSERV ENTRY POINT
                           9E   16  07CF   473          JSB     @(SP)+                      ; ENTER TESTSERV INITIALIZATION
                                    07D1   474 10$:                                        ; PROCESS NEXT TEST CASE
         00000056'EF       20   90  07D1   475          MOVB    #^A/ /,$$TSTN$$+2           ; MAKE SURE T.C. NAME HAS A BLANK
                         002F   30  07D8   476          BSBW    REG_SAVE                    ; SAVE REGISTERS
                00000004'FF     16  07DB   477          JSB     @CURRENT_TC                 ; JUMP TO CURRENT TEST CASE
                         0037   30  07E1   478          BSBW    REG_REST                    ; RESTORE REGS FOR TESTSERV
                           9E   16  07E4   479          JSB     @(SP)+                      ; LET TESTSERV ISSUE SYSTEM SERVICE
                         0042   30  07E6   480          BSBW    REG_COMP                    ; COMPARE REGS TO SEE IF ...
                                    07E9   481                                             ; ... SYSTEM SERVICE CHANGED ANY
                           9E   16  07E9   482          JSB     @(SP)+                      ; LET TESTSERV CHEK S.S. STATUS CODE
         00000056'EF       2A   91  07EB   483          CMPB    #^A/*/,$$TSTN$$+2           ; HAS TESTSERV INDICATED FAILURE ?
                           DD   12  07F2   484          BNEQU   10$                         ; NO -- PROCESS NEXT TEST CASE
 00000060'EF    00000088'EF     DE  07F4   485          MOVAL   TEST_MOD_FAIL,TMD_ADDR      ; YES -- INDICATE FAILED IN END MSG
00000044'EF   03   00    02     F0  07FF   486          INSV    #ERROR,#0,#3,MOD_MSG_CODE   ; ADJUST STATUS CODE FOR ERROR
                           C7   11  0808   487          BRB     10$                         ; LOOP BAK TO PROCESS NEXT TEST CASE
                                    080A   488 ;
                                    080A   489 ;    TC_CONTROL RETURNS TO TEST_SERV_EXEC VIA TESTSERV (IN TS_CLEANUP MACRO)
                                    080A   490 ;
```

```
                                080A   492          .SBTTL  SUBROUTINES
                                080A   493 REG_SAVE:
                                080A   494 ;
                                080A   495 ;  ****************************************************************
                                080A   496 ;  *                                                              *
                                080A   497 ;  *  SAVES R0 THRU SP IN REG_SAVE_AREA                            *
                                080A   498 ;  *                                                              *
                                080A   499 ;  ****************************************************************
                                080A   500 ;
                      7FFF 8F   BB 080A   501          PUSHR   #R0_THRU_SP             ; SAVE ALL REGS ON STACK
00000008'EF           6E   3C   28 080E   502          MOVC3   #60,(SP),REG_SAVE_AREA  ; SAVE REGS (BEFORE S.S.)
                      7FFF 8F   BA 0816   503          POPR    #R0_THRU_SP             ; CLEAN UP STACK
                                05 081A   504          RSB                             ; .... AND RETURN
                                081B   505 ;
                                081B   506 ;
                                081B   507 ;
                                081B   508 ;
                                081B   509 REG_REST:
                                081B   510 ;
                                081B   511 ;
                                081B   512 ;  ****************************************************************
                                081B   513 ;  *                                                              *
                                081B   514 ;  *  RESTORES R0 THRU SP FROM REG_SAVE_AREA                       *
                                081B   515 ;  *                                                              *
                                081B   516 ;  ****************************************************************
                                081B   517 ;
                      5E   3C   C2 081B   518          SUBL2   #60,SP                  ; MOVE SP TO MAKE ROOM FOR REGS
6E    00000008'EF     3C   28 081E   519          MOVC3   #60,REG_SAVE_AREA,(SP)  ; MOVE REGS ONTO STACK FOR POP
                      7FFF 8F   BA 0826   520          POPR    #R0_THR0_SP             ; RESTORE ALL REGS FOR TESTSERV
                                05 082A   521          RSB                             ; ... AND RETURN
```

```
                        082B   523 REG_COMP:
                        082B   524 ;
                        082B   525 ;  ************************************************************************
                        082B   526 ;  *                                                                      *
                        082B   527 ;  *  1) PUSHES ALL REGS ONTO STACK                                        *
                        082B   528 ;  *  2) COMPARES REGISTER IMAGES FROM STACK WITH CORRESPONDING             *
                        082B   529 ;  *        IMAGES FROM REG_SAVE_AREA FOR ALL REGISTERS SPECIFIED          *
                        082B   530 ;  *        IN REG_COMP_MASK.                                             *
                        082B   531 ;  *  3) FOR EACH UNEQUAL COMPARE, AN ERROR MESSAGE IS PRINTED             *
                        082B   532 ;  *        (USING $FAO AND $OUTPUT SYSTEM SERVICES).                     *
                        082B   533 ;  *  4) POPS ALL REGS OFF OF STACK                                        *
                        082B   534 ;  *                                                                      *
                        082B   535 ;  ************************************************************************
                        082B   536 ;
          7FFF 8F   BB  082B   537         PUSHR   #^RO_THRU_SP                    ; SAVE ALL REGISTERS ON STACK
     56   00000008'EF   DE  082F   538         MOVAL   REG_SAVE_AREA,R6            ; POINT R6 TO BEG OF ...
                        0836   539                                                 ; ... REGS (BEFORE S.S.)
            54   5E   D0  0836   540         MOVL    SP,R4                       ; POINT R4 TO BEG OF
                        0839   541                                                 ; ... REGS (AFTER S.S.)
           53   FF 8F   98  0839   542         CVTBL   #-1,R3                      ; INITIALIZE REG_COMP_MASK INDEX
                        083D   543 REG_COMP_NEXT:
                53   D6  083D   544         INCL    R3                          ; POINT TO NEXT BIT IN MASK
                53   0F  91  083F   545         CMPB    #15,R3                      ; END OF THE MASK ?
                    03   1A  0842   546         BGTRU   REG_COMP_CONT               ; NO -- CONTINUE
                  009F   31  0844   547         BRW     REG_COMP_RSB                ; YES -- GO TO COMMON RETURN
                        0847   548 REG_COMP_CONT:
                84   86  D1  0847   549         CMPL    (R6)+,(R4)+                 ; REG BEFORE = REG AFTER ?
                    F1   13  084A   550         BEQLU   REG_COMP_NEXT               ; YES -- LOOK FOR NEXT REG
E9 00000000'EF      53   E1  084C   551         BBC     R3,REG_COMP_MASK,REG_COMP_NEXT
                        0854   552                                                 ; NO -- GET NEXT IF BIT NOT SET
   00000048'EF      53   D0  0854   553         MOVL    R3,CLOB_REG_NO              ; NO -- GIVE REG NUMBER TO FAO
0000004C'EF      FC A6   D0  085B   554         MOVL    -4(R6),REG_BEFORE_SS        ; GIVE "BEFORE" CONTENTS TO FAO
00000050'EF      FC A4   D0  0863   555         MOVL    -4(R4),REG_AFTER_SS         ; GIVE "AFTER" CONTENTS TO FAO
   00000056'EF      2A   90  086B   556         MOVB    #^A/*/,$$TSTN$$+2           ; GIVE FAILURE INDIC'N IN ERROR MSG
                        0872   557 ;
                        0872   558         $FAO_S  ERR_MSG_FAOCTL,OUTL,OUTD,$$SNAD$$,  -
                        0872   559                 $$ASEQ$$,$$PSEQ$$,CLOB_REG_NO,REG_BEFORE_SS,REG_AFTER_SS
                        08A5   560 ;
        F868 CF    F832 CF  B0  08A5   561         MOVW    OUTL,OUTD                   ; ACTUAL OUTPUT LEN IN STRING DESC'R
                        08AC   562         PUTMSG  <#UETP$_TEXT,#1,#OUTD>      ; PRINT THE MSG
        F84C CF    0084 8F  B0  08C1   563         MOVW    #OUTE-OUTB,OUTD             ; GET MAX LEN BACK INTO DESCRIPTOR
         00000056'EF    20   90  08C8   564         MOVB    #^A/ /,$$TSTN$$+2           ; REMOVE FAIL INDIC'N FOR NEXT MSG
00000060'EF    00000088'EF  DE  08CF   565         MOVAL   TEST_MOD_FAIL,TMD_ADDR      ; INDICATE FAILED IN END MSG
00000044'EF    03   00    02  F0  08DA   566         INSV    #ERROR,#0,#3,MOD_MSG_CODE   ; ADJUST STATUS CODE FOR ERROR
                  FF57   31  08E3   567         BRW     REG_COMP_NEXT               ; GO LOOK FOR NEXT REG TO COMPARE
                        08E6   568 REG_COMP_RSB:
                7FFF 8F   BA  08E6   569         POPR    #^RO_THRU_SP                ; CLEAN UP STACK
                    05   08EA   570         RSB                                 ; RETURN TO CALLER
```

```
                     08EB    572 MOD_MSG_PRINT:
                     08EB    573 ;
                     08EB    574 ;  ************************************************************************
                     08EB    575 ;  *                                                                      *
                     08EB    576 ;  *  PRINTS THE TEST MODULE BEGUN/SUCCESSFUL/FAILED MESSAGES             *
                     08EB    577 ;  *       (USING THE PUTMSG MACRO).                                      *
                     08EB    578 ;  *                                                                      *
                     08EB    579 ;  ************************************************************************
                     08EB    580 ;
                     08EB    581         PUTMSG  <MOD_MSG_CODE,#2,TMN_ADDR,TMD_ADDR> ; PRINT MSG
                  05 0906    582         RSB                                         ; ... AND RETURN TO CALLER
                     0907    583 ;
                     0907    584 CHMRTN:
                     0907    585 ; ***************************************************************
                     0907    586 ; *
                     0907    587 ; *     CHANGE MODE ROUTINE. THIS ROUTINE GETS CONTROL WHENEVER
                     0907    588 ; *     , CMKRNL, CMEXEC, OR CMSUP SYSTEM SERVICE IS ISSUED
                     0907    589 ; *     BY THE MODE MACRO ('TO' OPTION).  IT MERELY DOES
                     0907    590 ; *     A JUMP INDIRECT ON A FIELD SET UP BY MODE. IT HAS
                     0907    591 ; *     THE EFFECT OF RETURNING TO THE END OF THE MODE
                     0907    592 ; *     MACRO EXPANSION.
                     0907    593 ; *
                     0907    594 ; ***************************************************************
                     0907    595 ;
                0000 0907    596         .WORD   0                                   ; ENTRY MASK
    00000079'FF   17 0909    597         JMP     @CHM_CONT                           ; RETURN TO MODE MACRO IN NEW MODE
                     090F    598 ;
                     090F    599 ; *     RET INSTR WILL BE ISSUED IN EXPANSION OF 'MODE FROM, ....' MACRO
                     090F    600 ;
                     090F    601         .END    SATSSF08
```

```
$$$CHARS                = 00000048
$$$FIRSTTC$$$           = 00000000
$$$STRINGS              = 00000000
$$ACT$$                   000000F3 R      06
$$ARG$$                   000000FB R      06
$$ASEQ$$                  000000EB R      06
$$CALL$$                  000000DF R      06
$$DISP$$                  000001E6 R      06
$$ERR$$                   000001A0 R      06
$$EXP$$                   000000F7 R      06
$$INIT$$                  000000E3 R      06
$$MAXP$$                = 00000005
$$PSEQ$$                  000000EF R      06
$$SNAD$$                  000000E7 R      06
$$T1                    = 00000004
$$T2                    = 00000009
$$TSTN$$                  00000054 R      03
ARGLST_CME              = 00000000
BUFADR_GTM                00000093 R      03
BUFADR_GTM30              0000019F R      03
BUFADR_GTM31              000001A7 R      03
CHMRTN                    00000907 R      06
CHM_CONT                  00000079 R      03
CLEANUP                   000007B0 R      06
CLOB_REG_NO               00000048 R      03
CTL$GL_PRD                ******** X    06
CURRENT_TC                00000004 R      03
EMPTY                     00000000 R      04
ERROR                   = 00000002
ERR_MSG_FAOCTL            00000002 R      02
EXECUTE                   0000079C R      06
FLAGS_GTM                 000000C8 R      02
GRP_TOTAL               = 00000002
INADR                     000000A9 R      02
INFO                    = 00000003
LIB$SIGNAL                ******** X    06
MEXIT                   = 00000000
MOD_MSG_CODE              00000044 R      03
MOD_MSG_PRINT             000008EB R      06
MSGID_GTM                 000000C4 R      02
MSGID_GTM10               000000CC R      02
MSGLEN_GTM                00000091 R      03
NARGS                   = 0000000E
NOACCESS                  00000000 R      05
NSSARGS                 = 00000005
ONES                      000000B5 R      02
OUTADR_GTM                00000198 R      03
OUTB                      0000011C R      06
OUTD                      00000114 R      06
OUTE                      000001A0 R      06
OUTL                      000000DB R      06
PHD$Q_PRIVMSK           = 00000000
PRIVMASK                  00000071 R      03
PRIV_ARGS               = 00000002
PROT                      000000B1 R      02
PRT$C_NA                  ******** X    02
PRV$V_CMEXEC            = 00000001
PRV$V_CMKRNL            = 00000000
PRVPRT                    00000070 R      03
RO_THRU_SP              = 00007FFF
REGS                      0000007D R      03
REG_AFTER_SS              00000050 R      03
REG_BEFORE_SS             0000004C R      03
REG_COMP                  0000082B R      06
REG_COMP_CONT             00000847 R      06
REG_COMP_MASK             00000000 R      02
REG_COMP_NEXT             0000083D R      06
REG_COMP_RSB              000008E6 R      06
REG_REST                  0000081B R      06
REG_SAVE                  0000080A R      06
REG_SAVE_AREA             00000008 R      03
RETADR                    00000068 R      03
ROUTIN_CME                000000BD R      02
ROUTIN_CME10              000000BD R      02
SATSSF08                  00000000 R      06
SEVERE                  = 00000004
SHR$K_SHRDEF            = 00000001
SHR$_TEXT               = 00001130
SS$_BUFFEROVF             ********    X   06
SS$_MSGNOTFND             ********    X   06
SS$_NOPRIV                ********    X   06
SS$_NORMAL                ********    X   02
STS$V_INHIB_MSG         = 0000001C
SUCCESS                 = 00000001
SYS$CMEXEC                ********  GX    06
SYS$CMKRNL                ********  GX    06
SYS$EXIT                  ********  GX    06
SYS$FAO                   ********    X   06
SYS$FAOL                  ********  GX    06
SYS$GETMSG                ********  GX    06
SYS$HIBER                 ********  GX    06
SYS$SETPRN                ********  GX    06
SYS$SETPRT                ********  GX    06
SYS$SETPRV                ********  GX    06
SYS$WAKE                  ********  GX    06
TC1                       00000241 R      06
TC2                       00000299 R      06
TCG_NO                  = 00000002
TC_CONTROL                000007C9 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             0000007D R      02
TMD_ADDR                  00000060 R      03
TMN_ADDR                  0000005C R      03
TPID                      00000000 R      03
TS1                       000002F9 R      06
TS2                       00000464 R      06
TS_EP                     00000064 R      03
TTNAME                    0000009F R      02
UETP$_SATSMS            = 007480D9
UETP$_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
ABS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
RODATA	000000D0 (208.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	000001B0 (432.)	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
SATSSF08	0000090F (2319.)	06 (6.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC LONG

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	38	00:00:00.07	00:00:00.39
Command processing	141	00:00:00.60	00:00:02.45
Pass 1	339	00:00:12.70	00:00:27.30
Symbol table sort	0	00:00:00.97	00:00:01.98
Pass 2	128	00:00:02.76	00:00:05.62
Symbol table output	14	00:00:00.10	00:00:00.30
Psect synopsis output	3	00:00:00.03	00:00:00.04
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	665	00:00:17.23	00:00:38.08

The working set limit was 1650 pages.
66336 bytes (130 pages) of virtual memory were used to buffer the intermediate code.
There were 40 pages of symbol table space allocated to hold 593 non-local and 78 local symbols.
601 source lines were read in Pass 1, producing 26 object records in Pass 2.
62 pages of virtual memory were used to define 46 macros.

Macro library statistics

Macro library name	Macros defined
_255DUA28:[SHRLIB]UETP.MLB;1	19
_255DUA28:[SYS.OBJ]LIB.MLB;1	2
_255DUA28:[SYSLIB]STARLET.MLB;2	19
TOTALS (all libraries)	40

1226 GETS were required to define 40 macros.

There were no errors, warnings or information messages.

```
MACRO/LIS=LIS$:SATSSF08/OBJ=OBJ$:SATSSF08 MSRC$:SATSSF08/UPDATE=(ENH$:SATSSF08)+EXECML$/LIB+SHRLIB$:UETP/LIB
```

SATSSF10
LIS

SATSSF09
LIS

SATSSF08
LIS

SATSSF11
LIS