```
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    44    44
  SSSSSSSS    AAAAAA    TTTTTTTTTT    SSSSSSSS    SSSSSSSS  FFFFFFFFFF    000000    44    44
SS           AA    AA       TT      SS          SS          FF           00    00  44    44
SS           AA    AA       TT      SS          SS          FF           00    00  44    44
SS           AA    AA       TT      SS          SS          FF           00  0000  44    44
SS           AA    AA       TT      SS          SS          FF           00  0000  44    44
  SSSSSS     AA    AA       TT        SSSSSS      SSSSSS    FFFFFFFF     00  00  00  4444444444
  SSSSSS     AA    AA       TT        SSSSSS      SSSSSS    FFFFFFFF     00  00  00  4444444444
        SS   AAAAAAAAAA       TT              SS          SS  FF           0000    00        44
        SS   AAAAAAAAAA       TT              SS          SS  FF           0000    00        44
        SS   AA    AA         TT              SS          SS  FF           00      00        44      ....
      SS     AA    AA         TT              SS          SS  FF           00      00        44      ....
SSSSSSSS     AA    AA         TT      SSSSSSSS    SSSSSSSS  FF             000000            44      ....
SSSSSSSS     AA    AA         TT      SSSSSSSS    SSSSSSSS  FF             000000            44      ....

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  SATSSF04 - 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 SATSSF04 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  ;       , : VERSION
0000    49  ; 01    -
0000    50  ;--
```

```
                     0000     52          .SBTTL  DECLARATIONS
                     0000     53 ;
                     0000     54 ; INCLUDE FILES:
                     0000     55 ;
                     0000     56          $PRVDEF                                 ; SYMBOL DEFS FOR PRIVILEGES
                     0000     57          $UETPDEF                                ; UETP MSG CODE DEFINITIONS
                     0000     58          $SHR_MESSAGES UETP,116,<<TEXT,INFO>>
                     0000     59                                                  ; DEFINE UETP$_TEXT
                     0000     60                                                  ; GET RID OF MACRO DEFINITIONS
                     0000     61 ;
                     0000     62 ; MACROS:
                     0000     63 ;
                     0000     64 ;
                     0000     65 ; EQUATED SYMBOLS:
                     0000     66 ;
00000000             0000     67 WARNING          = 0                             ; WARNING SEVERITY VALUE FOR MSGS
00000001             0000     68 SUCCESS          = 1                             ; SUCCESS SEVERITY VALUE FOR MSGS
00000002             0000     69 ERROR            = 2                             ; ERROR SEVERITY VALUE FOR MSGS
00000003             0000     70 INFO             = 3                             ; INFORMATIONAL SEV VALUE FOR MSGS
00000004             0000     71 SEVERE           = 4                             ; SEVERE (FATAL) SEV VALUE FOR MSGS
00000000             0000     72 TCG_NO           =  0                            ; INITIALIZE TEST CASE GROUP NUMBER
00000000             0000     73 GRP_TOTAL        =  0                            ; INITIALIZE TEST CASE GROUP TOTAL
00007FFF             0000     74 R0_THRU_SP       = ^M<R0,R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP,SP>
00000000             0000     75 ASTADR_STM       = 0                             ; ASTADR ARG 4 SETIMR (INDIC NO AST)
00000000             0000     76 DAYTIM_STM20     = 0                             ; DAYTIM ARG FOR SETIMR (LOCATION 0)
00000001             0000     77 TIMADR_GTT10     = 1                             ; TIMADR ARG FOR GETTIM (LOCATION 1)
00000001             0000     78 TIMBUF_NMT10     = 1                             ; TIMBUF ARG FOR NUMTIM (LOCATION 1)
00000001             0000     79 TIMADR_NMT20     = 1                             ; TIMADR ARG FOR NUMTIM (LOCATION 1)
                     0000     80 ;
                     0000     81 ; ****** THE FOLLOWING ASSIGNMENTS (IN PHD, PCB, STS) ARE BEING MADE
                     0000     82 ; ****** WITHOUT REFERENCE TO $PHDDEF, $PCBDEF, $STSDEF BECAUSE OF
                     0000     83 ; ****** SYMBOL TABLE OVERFLOW. FIX THIS WHEN MORE TABLE SPACE AVAILABLE.
                     0000     84 ;
00000000             0000     85 PHD$Q_PRIVMSK    = 0                             ; PRIV MASK OFFSET INTO PHD
00000020             0000     86 PCB$L_UIC        = ^X20                          ; UIC OFFSET INTO PCB
0000001C             0000     87 STS$V_INHIB_MSG = ^X1C                           ; INHIBIT_MSG BIT NUMBER IN MSG CODE
                     0000     88 ;
                     0000     89 ; OWN STORAGE:
                     0000     90 ;
```

```
                                                                B 13
                    00000000     92          .PSECT  RODATA,RD,NOWRT,NOEXE,LONG
                    BFFC 0000    93 REG_COMP_MASK:  .WORD   ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP> ! ^X8000 -
                         0002    94                                             ; REG COMPARE MASK (HIGH-ORDER ...
                         0002    95                                             ; ... BIT MUST BE ON
                         0002    96 ERR_MSG_FAOCTL: STRING  I,<!/!AC!1ZB!1ZB: REGISTER !2UW CONTENTS ALTERED>, -
                         0002    97                 <;  BEFORE SERVICE CALL: !8XL   AFTER SERVICE CALL: !8XL>
                         006E    98 TEST_MOD_NAME:  STRING  C,<SATSSF04>     ; TEST MODULE NAME
                         0077    99 TEST_MOD_BEG:   STRING  C,<begun>        ; DISPOSITION FIELD OF TEST MOD MSG
                         007D   100 TEST_MOD_SUCC:  STRING  C,<successful>   ; DISPOSITION FIELD OF TEST MOD MSG
                         0088   101 TEST_MOD_FAIL:  STRING  C,<failed>       ; DISPOSITION FIELD OF TEST MOD MSG
                         008F   102 TEST_MOD_NAME_D: STRING I,<SATSSF04>     ; TEST MODULE NAME DESCRIPTOR
                         009F   103 TTNAME:         STRING  I,<TT>           ; TERMINAL LOGICAL NAME
00000000'00000000'       00A9   104 INADR:          .LONG   NOACCESS,NOACCESS ; PAGE ADDRESS OF NOACCESS PSECT
          00000000'      00B1   105 PROT:           .LONG   PRT$C_NA         ; PROTECTION CODE FOR NOACCESS PSECT
FFFFFFFF FFFFFFFF        00B5   106 ONES:           .LONG   -1,-1            ; A QUADWORD OF 1-BITS
          0000002B       00BD   107 EFN_STM:        .LONG   43               ; EFN ARGUMENT FOR SETIMR
          FFFFFFFF       00C1   108 EFN_STM10:      .LONG   ^XFFFFFFFF       ; EFN ARGUMENT FOR SETIMR
00000000  00000000       00C5   109 DAYTIM_STM:     .LONG   0,0              ; DAYTIM ARGUMENT FOR SETIMR
          00000000       00CD   110 REQIDT_STM:     .LONG   0                ; REQIDT ARGUMENT FOR SETIMR
          000000D9       00D1   111 TIMADR_GTT11:   .BLKQ   1                ; TIMADR ARGUMENT FOR GETTIM
          000000E7       00D9   112 TIMBUF_NMT11:   .BLKW   7                ; TIMBUF ARGUMENT FOR NUMTIM
00000000  00000000       00E7   113 TIMADR_NMT:     .LONG   0,0              ; TIMADR ARGUMENT FOR NUMTIM
FFE09C4A  FFFFFFFF       00EF   114 TIMADR_NMT23:   .LONG   -1,-<60*24*10000>/7
                         00F7   115                                         ; TIMADR ARGUMENT FOR NUMTIM
                         00F7   116                                         ; (10,000 DAYS IN ...
                         00F7   117                                         ; ... 100-NANOSECOND UNITS)
00000000  00000000       00F7   118 TIMADR_ATM:     .LONG   0,0              ; TIMADR ARGUMENT FOR ASCTIM
FFE09C4A  FFFFFFFF       00FF   119 TIMADR_ATM30:   .LONG   -1,-<60*24*10000>/7
                         0107   120                                         ; TIMADR ARGUMENT FOR ASCTIM
                         0107   121                                         ; (10,000 DAYS IN ...
                         0107   122                                         ; ... 100-NANOSECOND UNITS)
          00000001       0107   123 CVTFLG_ATM:     .LONG 1                  ; CVTFLG ARGUMENT FOR ASCTIM
                         0108   124 TIMBUF_BTM:     STRING  I,<25-DEC-1973  21:46:00.00>
                         012B   125                                         ; TIMBUF ARGUMENT FOR BINTIM
                         012B   126 TIMBUF_BTM10:   STRING  I,<25-DEC-0001  21:46:00.00>
                         014B   127                                         ; TIMBUF ARGUMENT FOR BINTIM
                         014B   128 TIMBUF_BTM11:   STRING  I,<25-DEC-1973  21:61:00.00>
                         016B   129                                         ; TIMBUF ARGUMENT FOR BINTIM
                         016B   130 TIMBUF_BTM12:   STRING  I,<29-FEB-1973  09:14:21.33>
                         018B   131                                         ; TIMBUF ARGUMENT FOR BINTIM
                         018B   132 TIMBUF_BTM13:   STRING  I,<0347  25:10:20.31>
                         01A4   133                                         ; TIMBUF ARGUMENT FOR BINTIM
```

```
                00000000    135          .PSECT  RWDATA,RD,WRT,NOEXE
00000004  0000  00000000    136 TPID:            .BLKL   1               ; PROCESS ID FOR THIS PROCESS
00000008  0004  00000000    137 CURRENT_TC:      .BLKL   1               ; PTR TO CURRENT TEST CASE
00000044  0008  00000000    138 REG_SAVE_AREA:   .BLKL   15              ; SAVE AREA FOR ALL REGS (SANS PC)
007480D9  0044  00000000    139 MOD_MSG_CODE:    .LONG   UETP$_SATSMS    ; TEST MODULE MSG CODE FOR PUTMSG
0000004C  0048  00000000    140 CLOB_REG_NO:     .BLKL   1               ; CLOBBERED REG NO (FOR FAO ERR MSG)
00000050  004C  00000000    141 REG_BEFORE_SS:   .BLKL   1               ; REG CONTENTS BEFORE S.S.
          0050  00000000    142                                          ; ... (FOR FAO ERROR MSG)
00000054  0050  00000000    143 REG_AFTER_SS:    .BLKL   1               ; REG CONTENTS AFTER S.S.
          0054  00000000    144                                          ; ... (FOR FAO ERROR MSG)
          0054  00000000    145 $$TSTN$$:        STRING  C,<  SF    >     ; ASCII PORTION OF TEST CASE NAME
0000006E' 005C  00000000    146 TMN_ADDR:        .ADDRESS TEST_MOD_NAME  ; ADDR OF TEST MOD NAME FOR FAO
00000077' 0060  00000000    147 TMD_ADDR:        .ADDRESS TEST_MOD_BEG   ; ADDR OF T.M. DISP FIELD FOR FAO
00000068  0064  00000000    148 TS_EP:           .BLKL   1               ; ENTRY PNT FOR CURR TESTSERV MACRO
00000070  0068  00000000    149 RETADR:          .BLKL   2               ; RETURN LONGWORDS FOR SETPRT
00000071  0070  00000000    150 PRVPRT:          .BLKB   1               ; PROT RETURN BYTE FOR SETPRT
00000079  0071  00000000    151 PRIVMASK:        .BLKQ   1               ; ADDR OF PRIVILEGE MASK (IN PHD)
0000007D  0079  00000000    152 CHM_CONT:        .BLKL   1               ; CHANGE MODE CONTINUE ADDRESS
00000091  007D  00000000    153 REGS:            .BLKL   5               ; AREA FOR COND INDEX REGS (R2-R6)
00000095  0091  00000000    154 EFN_STM11:       .BLKL 1                 ; EFN ARGUMENT FOR SETIMR
00000099  0095  00000000    155 EFN_STM12:       .BLKL 1                 ; EFN ARGUMENT FOR SETIMR
0000009D  0099  00000000    156 EFN_STM13:       .BLKL 1                 ; EFN ARGUMENT FOR SETIMR
000000A1  009D  00000000    157 EFN_STM14:       .BLKL 1                 ; EFN ARGUMENT FOR SETIMR
000000A9  00A1  00000000    158 TIMADR_GTT:      .BLKQ   1               ; TIMADR ARGUMENT FOR GETTIM
000000B7  00A9  00000000    159 TIMBUF_NMT:      .BLKW   7               ; TIMBUF ARGUMENT FOR NUMTIM
000000B9  00B7  00000000    160 TIMLEN_ATM:      .BLKW   1               ; TIMLEN ARGUMENT FOR ASCTIM
          00B9  00000000    161 TIMBUF_ATM:      STRING  0,24            ; TIMBUF ARGUMENT FOR ASCTIM
000000E1  00D9  00000000    162 TIMADR_BTM:      .BLKQ   1               ; TIMADR ARGUMENT FOR BINTIM
```

```
                                        .PSECT  SATS_ACCVIO_1,RD,WRT,NOEXE,PAGE
00000200  0000    165 EMPTY:              .BLKB   512             ; RESERVE A PAGE OF SPACE
          0200    166 ;
          0200    167 ; +
          0200    168 ; ************************************************************************
          0200    169 ; *                                                                      *
          0200    170 ; *     THE ORDER OF STATEMENTS IN THIS PSECT IS CRITICAL.               *
          0200    171 ; *     DO NOT RE-ARRANGE THE VARIABLES. CONSULT SATS                    *
          0200    172 ; *     FUNCTIONAL SPECIFICATION FOR A DESCRIPTION OF THE USE            *
          0200    173 ; *     OF THE EMPTY PSECT (AND ITS COMPANION PSECT, NOACCESS).          *
          0200    174 ; *                                                                      *
          0200    175 ; ************************************************************************
          0200    176 ; -
          0200    177 ;
000001FF  0200    178 DAYTIM_STM22        = . - 1                 ; DAYTIM ARG FOR SETIMR (LAST BYTE IN PAGE)
000001FF  0200    179 TIMADR_GTT12        = . - 1                 ; TIMADR ARG FOR GETTIM (LAST BYTE IN PAGE)
000001FF  0200    180 TIMBUF_NMT12        = . - 1                 ; TIMBUF ARG FOR NUMTIM (LAST BYTE IN PAGE)
000001FF  0200    181 TIMADR_NMT22        = . - 1                 ; TIMADR ARG FOR NUMTIM (LAST BYTE IN PAGE)
          0200    182 ;
          0200    183 ;
          0200    184 ;
          0200    185 ;
                                        .PSECT  SATS_ACCVIO_2,RD,WRT,NOEXE,PAGE
00000200  0000    187 NOACCESS:           .BLKB   512             ; RESERVE A PAGE OF SPACE
00000000  0200    188                     . = . - 512             ; RETURN LOC CTR TO BEGINNING OF PSECT
00000000' 0000    189                     .ADDRESS EMPTY  ; ADDRESS OF ACCESSIBLE STRING
00000000' 0004    190                     .ADDRESS EMPTY/^X100 ; ADDRESS OF ACCESSIBLE STRING
          0008    191 ;+
          0008    192 ; *** NOTE -- DO NOT CHANGE LOCATION OR SEQUENCE OF ABOVE STATEMENTS!
          0008    193 ; ***         THIS PSECT (NOACCESS) MUST APPEAR IN MEMORY IMMEDIATELY
          0008    194 ; ***         FOLLOWING THE EMPTY PSECT. PSECT NAMES AND OPTIONS WILL BE
          0008    195 ; ***         CHOSEN TO FORCE THE DESIRED PSECT ORDERING.
          0008    196 ;-
00000010  0008    197 DAYTIM_STM21:       .BLKQ   1               ; DAYTIM ARGUMENT FOR SETIMR
00000018  0010    198 TIMADR_NMT21:       .BLKQ   1               ; TIMADR ARGUMENT FOR NUMTIM
          0018    199 ;
          0018    200 ;
          0018    201 ;
          0018    202 ;
                                .PSECT  SATSSF04,RD,WRT,EXE,LONG
```

```
0000    205          .SBTTL  SATSSF04
0000    206 ;++
0000    207 ; FUNCTIONAL DESCRIPTION:
0000    208 ;
0000    209 ;                   AFTER PERFORMING SOME INITIAL HOUSEKEEPING, SUCH AS
0000    210 ; PRINTING THE MODULE BEGIN MESSAGE AND ACQUIRING ALL PRIVILEGES,
0000    211 ; THE SATSSF04 ROUTINE EXECUTES THE TEST_SERV_EXEC MACRO TO RUN
0000    212 ; ALL TEST CASES. WHEN THE MACRO COMPLETES ITS EXECUTION, SATSSF04
0000    213 ; PRINTS A TEST MODULE SUCCESS OR FAIL MESSAGE AND EXITS TO THE
0000    214 ; OPERATING SYSTEM. TEST_SERV_EXEC CALLS THE TC_CONTROL/TESTSERV
0000    215 ; CO-ROUTINE PAIR ONCE PER TEST CASE GROUP TO EXECUTE ALL TEST
0000    216 ; CASES IN THAT GROUP. EACH TEST CASE GROUP IS DEFINED BY BOUNDING
0000    217 ; ITS TEST CASES WITH A TC_GROUP MACRO BEFORE THE FIRST TEST CASE
0000    218 ; AND A TCEND MACRO AFTER THE LAST ONE. THE TEST CASES THEMSELVES
0000    219 ; ARE DEFINED WITHIN THESE BOUNDS BY PRECEDING EACH WITH A
0000    220 ; NEXT_TEST_CASE MACRO. TC_CONTROL/TESTSERV EXECUTES THE CODE
0000    221 ; FOLLOWING EACH NEXT_TEST_CASE MACRO IMMEDIATELY BEFORE ISSUING
0000    222 ; THE SYSTEM SERVICE AS REQUESTED IN THE TESTSERV MACRO. TC_CONTROL/
0000    223 ; TESTSERV ALSO CHECKS THE RESULTS OF THE SERVICE WITH RESPECT
0000    224 ; TO ITS EXPECTED STATUS CODE AND PRINTS ANY REQUIRED FAILURE
0000    225 ; MESSAGES FOR THE TEST CASE. THE CODE APPEARING AFTER EACH
0000    226 ; NEXT_TEST_CASE MACRO IS MERELY TO SET UP CONDITIONS REQUIRED
0000    227 ; FOR THE SYSTEM SERVICE AND TO CLEAN UP ANY RESOURCES ACQUIRED
0000    228 ; BY THE PREVIOUS TEST CASE.
0000    229 ;
0000    230 ; CALLING SEQUENCE:
0000    231 ;
0000    232 ;       $ RUN SATSSF04  ...  (DCL COMMAND)
0000    233 ;
0000    234 ; INPUT PARAMETERS:
0000    235 ;
0000    236 ;       NONE
0000    237 ;
0000    238 ; IMPLICIT INPUTS:
0000    239 ;
0000    240 ;       NONE
0000    241 ;
0000    242 ; OUTPUT PARAMETERS:
0000    243 ;
0000    244 ;       NONE
0000    245 ;
0000    246 ; IMPLICIT OUTPUTS:
0000    247 ;
0000    248 ;       MESSAGES TO SYS$OUTPUT ARE THE ONLY OUTPUT FROM SATSSF04.
0000    249 ;       THEY ARE OF THE FORM:
0000    250 ;
0000    251 ;               %UETP-S-SATSMS, TEST MODULE SATSSF04 BEGUN ... (BEGIN MSG)
0000    252 ;               %UETP-S-SATSMS, TEST MODULE SATSSF04 SUCCESSFUL ... (END MSG)
0000    253 ;               %UETP-E-SATSMS, TEST MODULE SATSSF04 FAILED ... (END MSG)
0000    254 ;               %UETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
0000    255 ;
0000    256 ; COMPLETION CODES:
0000    257 ;
0000    258 ;       THE SATSSF04 ROUTINE TERMINATES WITH A $EXIT TO THE
0000    259 ;       OPERATING SYSTEM WITH A STATUS CODE DEFINED BY UETP$_SATSMS.
0000    260 ;
0000    261 ; SIDE EFFECTS:
```

```
                                0000   262 ;
                                0000   263 ;       NONE
                                0000   264 ;
                                0000   265 ;--
                                0000   266
                                0000   267
                                0000   268
                                0000   269 SATSSF04:
                         0FFC   0000   270         .WORD   ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
                                0002   271                                        ; ENTRY MASK
                                0002   272         $WAKE_S  TPID                  ; GET PID OF THIS PROCESS
                                0011   273         $HIBER_S                       ; UNDO WAKE
                                0018   274         $SETPRN_S TEST_MOD_NAME_D      ; SET PROCESS NAME
                             0EAF   30  0025   275         BSBW    MOD_MSG_PRINT          ; PRINT TEST MODULE BEGIN MSG
  00000060'EF    0000007D'EF    DE  0028   276         MOVAL   TEST_MOD_SUCC,TMD_ADDR ; ASSUME END MSG WILL SHOW SUCCESS
00000044'EF   03   00   01    F0  0033   277         INSV    #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
                                003C   278         MODE    TO,10$,KRNL,NOREGS     ; KERNEL MODE TO ACCESS PHD
          59   00000000'9F    D0  0059   279         MOVL    @#CTL$GL_PHD,R9        ; GET PROCESS HEADER ADDRESS
          00000071'EF    69    DE  0060   280         MOVAL   PHD$Q_PRIVMSK(R9),PRIVMASK ; GET PRIV MASK ADDRESS
                                0067   281         MODE    FROM,TO$               ; GET BACK TO USER MODE
                                0068   282         PRIV    ADD,ALL                ; GET ALL PRIVILEGES
                                0088   283         DISPSERV                       ; SET UP DISPLAY INFO FOR TESTSERV
                                021D   284         $SETPRT_S INADR=INADR, RETADR=RETADR, -
                                021D   285                   PROT=PROT, PRVPRT=PRVPRT
                                023E   286                                        ; SET NOACCESS PSECT ...
                                023E   287                                        ; ... FOR NO USER ACCESS
                             0B29   31  023E   288         BRW     EXECUTE                ; GO EXECUTE ALL TEST CASES
                                0241   289         TC_GROUP        STM,1,TS1
                                0268   290         NEXT_TEST_CASE  SFSTM10
```

```
0268   291 ;
0268   292 ;++
0268   293 ; ************************************************************
0268   294 ; *
0268   295 ; *  TEST CASE NAME:              SFSTM10
0268   296 ; *
0268   297 ; *  SYSTEM SERVICE:              SETIMR
0268   298 ; *
0268   299 ; *  ARGUMENT UNDER TEST:         EFN_STM10
0268   300 ; *
0268   301 ; *  INPUT CONDITIONS:
0268   302 ; *     ILLEGAL EVENT FLAG NUMBER
0268   303 ; *
0268   304 ; *  EXPECTED RESULTS:
0268   305 ; *     1) SYSTEM STATUS CODE:  ILLEFC
0268   306 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
0268   307 ; *
0268   308 ; ************************************************************
0268   309 ;--
0268   310 ;
0268   311 ;
0268   312         NEXT_TEST_CASE  SFSTM11
```

```
                                                H 13
                     0274    313 ;
                     0274    314 ;++
                     0274    315 ; ************************************************************
                     0274    316 ; *
                     0274    317 ; *  TEST CASE NAME:              SFSTM11
                     0274    318 ; *
                     0274    319 ; *  SYSTEM SERVICE:              SETIMR
                     0274    320 ; *
                     0274    321 ; *  ARGUMENT UNDER TEST:         EFN_STM11
                     0274    322 ; *
                     0274    323 ; *  INPUT CONDITIONS:
                     0274    324 ; *     ILLEGAL EVENT FLAG NUMBER
                     0274    325 ; *
                     0274    326 ; *  EXPECTED RESULTS:
                     0274    327 ; *     1) SYSTEM STATUS CODE:  ILLEFC
                     0274    328 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
                     0274    329 ; *
                     0274    330 ; ************************************************************
                     0274    331 ;--
                     0274    332 ;
00000091'EF    FF 8F 98 0274    333         CVTBL   #-1,EFN_STM11   ; ILLEGAL EVENT FLAG NUMBER
                     027C    334 ;
                     027C    335         NEXT_TEST_CASE  SFSTM12
```

```
                     0288   336 ;
                     0288   337 ;++
                     0288   338 ; ************************************************************
                     0288   339 ; *
                     0288   340 ; *  TEST CASE NAME:              SFSTM12
                     0288   341 ; *
                     0288   342 ; *  SYSTEM SERVICE:              SETIMR
                     0288   343 ; *
                     0288   344 ; *  ARGUMENT UNDER TEST:         EFN_STM12
                     0288   345 ; *
                     0288   346 ; *  INPUT CONDITIONS:
                     0288   347 ; *     ILLEGAL EVENT FLAG NUMBER
                     0288   348 ; *
                     0288   349 ; *  EXPECTED RESULTS:
                     0288   350 ; *     1) SYSTEM STATUS CODE:  ILLEFC
                     0288   351 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
                     0288   352 ; *
                     0288   353 ; ************************************************************
                     0288   354 ;--
                     0288   355 ;
00000095'EF   80 8F  9A 0288   356         MOVZBL  #128,EFN_STM12  ; ILLEGAL EVENT FLAG NUMBER
                     0290   357 ;
                     0290   358         NEXT_TEST_CASE  SFSTM13
```

```
                     029C    359 ;
                     029C    360 ;++
                     029C    361 ; ********************************************************
                     029C    362 ; *
                     029C    363 ; *  TEST CASE NAME:            SFSTM13
                     029C    364 ; *
                     029C    365 ; *  SYSTEM SERVICE:            SETIMR
                     029C    366 ; *
                     029C    367 ; *  ARGUMENT UNDER TEST:       EFN_STM13
                     029C    368 ; *
                     029C    369 ; *  INPUT CONDITIONS:
                     029C    370 ; *     ILLEGAL EVENT FLAG NUMBER
                     029C    371 ; *
                     029C    372 ; *  EXPECTED RESULTS:
                     029C    373 ; *     1) SYSTEM STATUS CODE:  ILLEFC
                     029C    374 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
                     029C    375 ; *
                     029C    376 ; ********************************************************
                     029C    377 ;--
                     029C    378 ;
00000099'EF  000000FF 8F  D0 029C    379         MOVL    #255,EFN_STM13  ; ILLEGAL EVENT FLAG NUMBER
                     02A7    380 ;
                     02A7    381         NEXT_TEST_CASE  SFSTM14
```

```
                                                K 13
                     02B3    382 ;
                     02B3    383 ;++
                     02B3    384 ; ******************************************************
                     02B3    385 ; *
                     02B3    386 ; *  TEST CASE NAME:              SFSTM14
                     02B3    387 ; *
                     02B3    388 ; *  SYSTEM SERVICE:              SETIMR
                     02B3    389 ; *
                     02B3    390 ; *  ARGUMENT UNDER TEST:         EFN_STM14
                     02B3    391 ; *
                     02B3    392 ; *  INPUT CONDITIONS:
                     02B3    393 ; *     PROCESS NEVER ASSOCIATED WITH SPECIFIED CLUSTER (3).
                     02B3    394 ; *
                     02B3    395 ; *  EXPECTED RESULTS:
                     02B3    396 ; *     1) SYSTEM STATUS CODE:  UNASEFC
                     02B3    397 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
                     02B3    398 ; *
                     02B3    399 ; ******************************************************
                     02B3    400 ;--
                     02B3    401 ;
0000009D'EF   64 8F  9A  02B3    402         MOVZBL  #100,EFN_STM14  ; EVENT FLAG IN UNASSOCIATED CLUSTER
                     02BB    403 ;
                     02BB    404         NEXT_TEST_CASE  SFSTM20
```

```
02C7    405 ;
02C7    406 ;++
02C7    407 ; ************************************************************
02C7    408 ; *
02C7    409 ; *  TEST CASE NAME:              SFSTM20
02C7    410 ; *
02C7    411 ; *  SYSTEM SERVICE:              SETIMR
02C7    412 ; *
02C7    413 ; *  ARGUMENT UNDER TEST:         DAYTIM_STM20
02C7    414 ; *
02C7    415 ; *  INPUT CONDITIONS:
02C7    416 ; *     EXPIRATION TIME AT LOCATION 0
02C7    417 ; *
02C7    418 ; *  EXPECTED RESULTS:
02C7    419 ; *     1) SYSTEM STATUS CODE:  ACCVIO
02C7    420 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
02C7    421 ; *
02C7    422 ; ************************************************************
02C7    423 ;--
02C7    424 ;
02C7    425         NEXT_TEST_CASE  SFSTM21
```

```
                                M 13
02D3    426 ;
02D3    427 ;++
02D3    428 ; ********************************************************
02D3    429 ; *
02D3    430 ; *  TEST CASE NAME:              SFSTM21
02D3    431 ; *
02D3    432 ; *  SYSTEM SERVICE:              SETIMR
02D3    433 ; *
02D3    434 ; *  ARGUMENT UNDER TEST:         DAYTIM_STM21
02D3    435 ; *
02D3    436 ; *  INPUT CONDITIONS:
02D3    437 ; *     EXPIRATION TIME IN NON-ACCESSIBLE PSECT
02D3    438 ; *
02D3    439 ; *  EXPECTED RESULTS:
02D3    440 ; *     1) SYSTEM STATUS CODE:  ACCVIO
02D3    441 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
02D3    442 ; *
02D3    443 ; ********************************************************
02D3    444 ;--
02D3    445 ;
02D3    446         NEXT_TEST_CASE  SFSTM22
```

```
02DF    447 ;
02DF    448 ;++
02DF    449 ; ********************************************************
02DF    450 ; *
02DF    451 ; *  TEST CASE NAME:              SFSTM22
02DF    452 ; *
02DF    453 ; *  SYSTEM SERVICE:              SETIMR
02DF    454 ; *
02DF    455 ; *  ARGUMENT UNDER TEST:         DAYTIM_STM22
02DF    456 ; *
02DF    457 ; *  INPUT CONDITIONS:
02DF    458 ; *     EXPIRATION TIME FIELD BEGINS IN ACCESSIBLE PSECT, ENDS
02DF    459 ; *       IN NON-ACCESSIBLE PSECT.
02DF    460 ; *
02DF    461 ; *  EXPECTED RESULTS:
02DF    462 ; *     1) SYSTEM STATUS CODE:  ACCVIO
02DF    463 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
02DF    464 ; *
02DF    465 ; ********************************************************
02DF    466 ;--
02DF    467 ;
02DF    468         TCEND
```

```
02E0   469          TC_GROUP        GTT,1,TS2
0307   470          NEXT_TEST_CASE  SFGTT10
```

```
0307   471 ;
0307   472 ;++
0307   473 ; ********************************************************
0307   474 ; *
0307   475 ; *  TEST CASE NAME:            SFGTT10
0307   476 ; *
0307   477 ; *  SYSTEM SERVICE:            GETTIM
0307   478 ; *
0307   479 ; *  ARGUMENT UNDER TEST:       TIMADR_GTT10
0307   480 ; *
0307   481 ; *  INPUT CONDITIONS:
0307   482 ; *     TIME OUTPUT FIELD AT LOCATION 1
0307   483 ; *
0307   484 ; *  EXPECTED RESULTS:
0307   485 ; *     1) SYSTEM STATUS CODE:  ACCVIO
0307   486 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
0307   487 ; *
0307   488 ; ********************************************************
0307   489 ;--
0307   490 ;
0307   491         NEXT_TEST_CASE  SFGTT11
```

```
0313   492 ;
0313   493 ;++
0313   494 ; ******************************************************
0313   495 ; *
0313   496 ; *  TEST CASE NAME:              SFGTT11
0313   497 ; *
0313   498 ; *  SYSTEM SERVICE:              GETTIM
0313   499 ; *
0313   500 ; *  ARGUMENT UNDER TEST:         TIMADR_GTT11
0313   501 ; *
0313   502 ; *  INPUT CONDITIONS:
0313   503 ; *     TIME OUTPUT FIELD IN READ/ONLY PSECT
0313   504 ; *
0313   505 ; *  EXPECTED RESULTS:
0313   506 ; *     1) SYSTEM STATUS CODE:  ACCVIO
0313   507 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
0313   508 ; *
0313   509 ; ******************************************************
0313   510 ;--
0313   511 ;
0313   512         NEXT_TEST_CASE  SFGTT12
```

```
031F    513 ;
031F    514 ;++
031F    515 ; ********************************************************
031F    516 ; *
031F    517 ; *  TEST CASE NAME:            SFGTT12
031F    518 ; *
031F    519 ; *  SYSTEM SERVICE:            GETTIM
031F    520 ; *
031F    521 ; *  ARGUMENT UNDER TEST:       TIMADR_GTT12
031F    522 ; *
031F    523 ; *  INPUT CONDITIONS:
031F    524 ; *     TIME OUTPUT FIELD BEGINS IN ACCESSIBLE PSECT, ENDS
031F    525 ; *       IN NON-ACCESSIBLE PSECT.
031F    526 ; *
031F    527 ; *  EXPECTED RESULTS:
031F    528 ; *     1) SYSTEM STATUS CODE:  ACCVIO
031F    529 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
031F    530 ; *
031F    531 ; ********************************************************
031F    532 ;--
031F    533 ;
031F    534         TCEND
```

```
                0320    535         TC_GROUP        NMT,1,TS3
                0347    536         NEXT_TEST_CASE  SFNMT10
```

```
0347   537 ;
0347   538 ;++
0347   539 ; ********************************************************
0347   540 ; *
0347   541 ; *  TEST CASE NAME:            SFNMT10
0347   542 ; *
0347   543 ; *  SYSTEM SERVICE:            NUMTIM
0347   544 ; *
0347   545 ; *  ARGUMENT UNDER TEST:       TIMBUF_NMT10
0347   546 ; *
0347   547 ; *  INPUT CONDITIONS:
0347   548 ; *     TIME BUFFER AT LOCATION 1
0347   549 ; *
0347   550 ; *  EXPECTED RESULTS:
0347   551 ; *     1) SYSTEM STATUS CODE:  ACCVIO
0347   552 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
0347   553 ; *
0347   554 ; ********************************************************
0347   555 ;--
0347   556 ;
0347   557         NEXT_TEST_CASE  SFNMT11
```

```
0353   558 ;
0353   559 ;++
0353   560 ; ************************************************************
0353   561 ; *
0353   562 ; *  TEST CASE NAME:            SFNMT11
0353   563 ; *
0353   564 ; *  SYSTEM SERVICE:            NUMTIM
0353   565 ; *
0353   566 ; *  ARGUMENT UNDER TEST:       TIMBUF_NMT11
0353   567 ; *
0353   568 ; *  INPUT CONDITIONS:
0353   569 ; *     TIME BUFFER IN READ/ONLY PSECT
0353   570 ; *
0353   571 ; *  EXPECTED RESULTS:
0353   572 ; *     1) SYSTEM STATUS CODE:  ACCVIO
0353   573 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
0353   574 ; *
0353   575 ; ************************************************************
0353   576 ;--
0353   577 ;
0353   578         NEXT_TEST_CASE  SFNMT12
```

```
035F    579 ;
035F    580 ;++
035F    581 ; ******************************************************
035F    582 ; *
035F    583 ; *  TEST CASE NAME:              SFNMT12
035F    584 ; *
035F    585 ; *  SYSTEM SERVICE:              NUMTIM
035F    586 ; *
035F    587 ; *  ARGUMENT UNDER TEST:         TIMBUF_NMT12
035F    588 ; *
035F    589 ; *  INPUT CONDITIONS:
035F    590 ; *     TIME BUFFER BEGINS IN ACCESSIBLE PSECT, ENDS IN
035F    591 ; *       NON-ACCESSIBLE PSECT.
035F    592 ; *
035F    593 ; *  EXPECTED RESULTS:
035F    594 ; *     1) SYSTEM STATUS CODE:  ACCVIO
035F    595 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
035F    596 ; *
035F    597 ; ******************************************************
035F    598 ;--
035F    599 ;
035F    600         NEXT_TEST_CASE  SFNMT20
```

```
036B   601 ;
036B   602 ;++
036B   603 ; ************************************************************
036B   604 ; *
036B   605 ; *  TEST CASE NAME:              SFNMT20
036B   606 ; *
036B   607 ; *  SYSTEM SERVICE:              NUMTIM
036B   608 ; *
036B   609 ; *  ARGUMENT UNDER TEST:         TIMADR_NMT20
036B   610 ; *
036B   611 ; *  INPUT CONDITIONS:
036B   612 ; *     TIME VALUE AT LOCATION 0
036B   613 ; *
036B   614 ; *  EXPECTED RESULTS:
036B   615 ; *     1) SYSTEM STATUS CODE:  ACCVIO
036B   616 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
036B   617 ; *
036B   618 ; ************************************************************
036B   619 ;--
036B   620 ;
036B   621         NEXT_TEST_CASE  SFNMT21
```

```
0377   622 ;
0377   623 ;++
0377   624 ; ************************************************************
0377   625 ; *
0377   626 ; *  TEST CASE NAME:              SFNMT21
0377   627 ; *
0377   628 ; *  SYSTEM SERVICE:              NUMTIM
0377   629 ; *
0377   630 ; *  ARGUMENT UNDER TEST:         TIMADR_NMT21
0377   631 ; *
0377   632 ; *  INPUT CONDITIONS:
0377   633 ; *     TIME VALUE IN NON-ACCESSIBLE PSECT
0377   634 ; *
0377   635 ; *  EXPECTED RESULTS:
0377   636 ; *     1) SYSTEM STATUS CODE:  ACCVIO
0377   637 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
0377   638 ; *
0377   639 ; ************************************************************
0377   640 ;--
0377   641 ;
0377   642         NEXT_TEST_CASE  SFNMT22
```

```
0383    643 ;
0383    644 ;++
0383    645 ; ************************************************************
0383    646 ; *
0383    647 ; *  TEST CASE NAME:              SFNMT22
0383    648 ; *
0383    649 ; *  SYSTEM SERVICE:              NUMTIM
0383    650 ; *
0383    651 ; *  ARGUMENT UNDER TEST:         TIMADR_NMT22
0383    652 ; *
0383    653 ; *  INPUT CONDITIONS:
0383    654 ; *     TIME VALUE BEGINS IN ACCESSIBLE PSECT, ENDS
0383    655 ; *       IN NON-ACCESSIBLE PSECT.
0383    656 ; *
0383    657 ; *  EXPECTED RESULTS:
0383    658 ; *     1) SYSTEM STATUS CODE:  ACCVIO
0383    659 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
```

```
                                        M 14
0383    661 ; *
0383    662 ; **********************************************************
0383    663 ;--
0383    664 ;
0383    665         NEXT_TEST_CASE  SFNMT23
```

```
038F    666 ;
038F    667 ;++
038F    668 ; ********************************************************
038F    669 ; *
038F    670 ; *  TEST CASE NAME:              SFNMT23
038F    671 ; *
038F    672 ; *  SYSTEM SERVICE:              NUMTIM
038F    673 ; *
038F    674 ; *  ARGUMENT UNDER TEST:         TIMADR_NMT23
038F    675 ; *
038F    676 ; *  INPUT CONDITIONS:
038F    677 ; *     DELTA TIME VALUE EXCEEDS 9999 DAYS
038F    678 ; *
038F    679 ; *  EXPECTED RESULTS:
038F    680 ; *     1) SYSTEM STATUS CODE:  IVTIME
038F    681 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
038F    682 ; *
038F    683 ; ********************************************************
038F    684 ;--
038F    685 ;
038F    686         TCEND
```

```
0390    687 ;
0390    688         TC_GROUP        ATM,1,TS4
03B7    689 ;
03B7    690         NEXT_TEST_CASE  SFATM30
```

```
                                C 15
03B7    691 ;
03B7    692 ;++
03B7    693 ; ******************************************************
03B7    694 ; *
03B7    695 ; *  TEST CASE NAME:            SFATM30
03B7    696 ; *
03B7    697 ; *  SYSTEM SERVICE:            ASCTIM
03B7    698 ; *
03B7    699 ; *  ARGUMENT UNDER TEST:       TIMADR_ATM30
03B7    700 ; *
03B7    701 ; *  INPUT CONDITIONS:
03B7    702 ; *     DELTA TIME VALUE EXCEEDS 9999 DAYS
03B7    703 ; *
03B7    704 ; *  EXPECTED RESULTS:
03B7    705 ; *     1) SYSTEM STATUS CODE:  IVTIME
03B7    706 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
03B7    707 ; *
03B7    708 ; ******************************************************
03B7    709 ;--
03B7    710 ;
03B7    711 ;
03B7    712         TCEND
```

```
03B8    713          TC_GROUP        BTM,1,TS5
03DF    714 ;
03DF    715          NEXT_TEST_CASE  SFBTM10
```

```
03DF    716 ;
03DF    717 ;++
03DF    718 ; ******************************************************
03DF    719 ; *
03DF    720 ; *  TEST CASE NAME:              SFBTM10
03DF    721 ; *
03DF    722 ; *  SYSTEM SERVICE:              BINTIM
03DF    723 ; *
03DF    724 ; *  ARGUMENT UNDER TEST:         TIMBUF_BTM10
03DF    725 ; *
03DF    726 ; *  INPUT CONDITIONS:
03DF    727 ; *     INVALID ABSOLUTE TIME (YEAR SPECIFIED IS
03DF    728 ; *       EARLIER THAN SYSTEM BASE).
03DF    729 ; *
03DF    730 ; *  EXPECTED RESULTS:
03DF    731 ; *     1) SYSTEM STATUS CODE:  IVTIME
03DF    732 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
03DF    733 ; *
03DF    734 ; ******************************************************
03DF    735 ;--
03DF    736 ;
03DF    737 ;
03DF    738         NEXT_TEST_CASE  SFBTM11
```

```
03EB    739 ;
03EB    740 ;++
03EB    741 ; ********************************************************
03EB    742 ; *
03EB    743 ; *  TEST CASE NAME:              SFBTM11
03EB    744 ; *
03EB    745 ; *  SYSTEM SERVICE:              BINTIM
03EB    746 ; *
03EB    747 ; *  ARGUMENT UNDER TEST:         TIMBUF_BTM11
03EB    748 ; *
03EB    749 ; *  INPUT CONDITIONS:
03EB    750 ; *     INVALID ABSOLUTE TIME (MINUTES FIELD
03EB    751 ; *       OUT OF RANGE).
03EB    752 ; *
03EB    753 ; *  EXPECTED RESULTS:
03EB    754 ; *     1) SYSTEM STATUS CODE:  IVTIME
03EB    755 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
03EB    756 ; *
03EB    757 ; ********************************************************
03EB    758 ;--
03EB    759 ;
03EB    760 ;
03EB    761         NEXT_TEST_CASE  SFBTM12
```

```
                                G 15
03F7   762 ;
03F7   763 ;++
03F7   764 ; ************************************************************
03F7   765 ; *
03F7   766 ; *  TEST CASE NAME:              SFBTM12
03F7   767 ; *
03F7   768 ; *  SYSTEM SERVICE:              BINTIM
03F7   769 ; *
03F7   770 ; *  ARGUMENT UNDER TEST:         TIMBUF_BTM12
03F7   771 ; *
03F7   772 ; *  INPUT CONDITIONS:
03F7   773 ; *     INVALID ABSOLUTE TIME (NON-EXISTENT DATE).
03F7   774 ; *
03F7   775 ; *  EXPECTED RESULTS:
03F7   776 ; *     1) SYSTEM STATUS CODE:  IVTIME
03F7   777 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
03F7   778 ; *
03F7   779 ; ************************************************************
03F7   780 ;--
03F7   781 ;
03F7   782 ;
03F7   783         NEXT_TEST_CASE  SFBTM13
```

```
                                                H 15
0403    784 ;
0403    785 ;++
0403    786 ; ************************************************************
0403    787 ; *
0403    788 ; *  TEST CASE NAME:              SFBTM13
0403    789 ; *
0403    790 ; *  SYSTEM SERVICE:              BINTIM
0403    791 ; *
0403    792 ; *  ARGUMENT UNDER TEST:         TIMBUF_BTM13
0403    793 ; *
0403    794 ; *  INPUT CONDITIONS:
0403    795 ; *     INVALID DELTA TIME (HOURS FIELD
0403    796 ; *       OUT OF RANGE).
0403    797 ; *
0403    798 ; *  EXPECTED RESULTS:
0403    799 ; *     1) SYSTEM STATUS CODE:  IVTIME
0403    800 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
0403    801 ; *
0403    802 ; ************************************************************
0403    803 ;--
0403    804 ;
0403    805 ;
0403    806         TCEND
```

```
0404   807 TS1:
0404   808          TESTSERV        SETIMR,ERR,SATS,                                -
0404   809                                                                          -
0404   810             <1,EFN_STM,                                                  -
0404   811                         EFN_STM10,ILLEFC,       -  ; SFSTM10
0404   812                         EFN_STM11,ILLEFC,       -  ; SFSTM11
0404   813                         EFN_STM12,ILLEFC,       -  ; SFSTM12
0404   814                         EFN_STM13,ILLEFC,       -  ; SFSTM13
0404   815                         EFN_STM14,UNASEFC,      -  ; SFSTM14
0404   816                                                   >,                     -
0404   817                                                                          -
0404   818             <1,DAYTIM_STM,                                               -
0404   819                         DAYTIM_STM20,ACCVIO,    -  ; SFSTM20
0404   820                         DAYTIM_STM21,ACCVIO,    -  ; SFSTM21
0404   821                         DAYTIM_STM22,ACCVIO,    -  ; SFSTM22
0404   822                                                   >,                     -
0404   823                                                                          -
0404   824             <1,ASTADR_STM,                                               -
0404   825                                                   >,                     -
0404   826                                                                          -
0404   827             <1,REQIDT_STM,                                               -
0404   828                                                   >,                     -
0404   829
06AA   830          TS_CLEANUP                  ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
06CA   831 TS2:
06CA   832          TESTSERV        GETTIM,ERR,SATS,                                -
06CA   833                                                                          -
06CA   834             <1,TIMADR_GTT,                                               -
06CA   835                          TIMADR_GTT10,ACCVIO,    -  ; SFGTT10
06CA   836                          TIMADR_GTT11,ACCVIO,    -  ; SFGTT11
06CA   837                          TIMADR_GTT12,ACCVIO,    -  ; SFGTT12
06CA   838                                                    >,                    -
06CA   839
079D   840          TS_CLEANUP                  ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
07BD    841 TS3:
07BD    842         TESTSERV        NUMTIM,ERR,SATS,                                -
07BD    843                                                                         -
07BD    844           <1,TIMBUF_NMT,                                                -
07BD    845                         TIMBUF_NMT10,ACCVIO,    -  ; SFNMT10
07BD    846                         TIMBUF_NMT11,ACCVIO,    -  ; SFNMT11
07BD    847                         TIMBUF_NMT12,ACCVIO,    -  ; SFNMT12
07BD    848                                                   >,                    -
07BD    849                                                                         -
07BD    850           <1,TIMADR_NMT,                                                -
07BD    851                         TIMADR_NMT20,ACCVIO,    -  ; SFNMT20
07BD    852                         TIMADR_NMT21,ACCVIO,    -  ; SFNMT21
07BD    853                         TIMADR_NMT22,ACCVIO,    -  ; SFNMT22
07BD    854                         TIMADR_NMT23,IVTIME,    -  ; SFNMT23
07BD    855                                                   >,                    -
07BD    856
0939    857         TS_CLEANUP                  ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
0959   858 TS4:
0959   859         TESTSERV        ASCTIM,ERR,SATS,                                -
0959   860                                                                         -
0959   861            <1,TIMLEN_ATM,                                               -
0959   862                                                  >,                     -
0959   863                                                                         -
0959   864            <1,TIMBUF_ATM,                                               -
0959   865                                                  >,                     -
0959   866                                                                         -
0959   867            <1,TIMADR_ATM,                                               -
0959   868                          TIMADR_ATM30,IVTIME,    -  ; SFATM30
0959   869                                                  >,                     -
0959   870                                                                         -
0959   871            <1,CVTFLG_ATM,                                               -
0959   872                                                  >,                     -
0959   873
0BC7   874         TS_CLEANUP                ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
0BE7   875 TS5:
0BE7   876          TESTSERV        BINTIM,ERR,SATS,                                -
0BE7   877                                                                          -
0BE7   878             <1,TIMBUF_BTM,                                               -
0BE7   879                          TIMBUF_BTM10,IVTIME,    -  ; SFBTM10
0BE7   880                          TIMBUF_BTM11,IVTIME,    -  ; SFBTM11
0BE7   881                          TIMBUF_BTM12,IVTIME,    -  ; SFBTM12
0BE7   882                          TIMBUF_BTM13,IVTIME,    -  ; SFBTM13
0BE7   883                                                    >,                    -
0BE7   884                                                                          -
0BE7   885             <1,TIMADR_BTM,                                               -
0BE7   886                                                    >,                    -
0BE7   887
0D4A   888          TS_CLEANUP                  ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
                                0D6A    889          .SBTTL  EXECUTE & CLEANUP
                                0D6A    890 EXECUTE:
                                0D6A    891          TEST_SERV_EXEC                  ; EXECUTE ALL T. CASES IN ALL GROUPS
                                0D9C    892 CLEANUP:
                          0138  30    0D9C    893          BSBW    MOD_MSG_PRINT           ; PRINT TEST MODULE END MSG
00000044'EF   01    1C     01    F0    0D9F    894          INSV    #1,#STS$V_INHIB_MSG,#1,MOD_MSG_CODE
                                0DA8    895                                          ; INHIBIT PRINTING
                                0DA8    896          $EXIT_S MOD_MSG_CODE            ; EXIT TO OP SYS WITH MSG CODE
```

```
                        .SBTTL  TC_CONTROL
                ;++
                ; FUNCTIONAL DESCRIPTION:
                ;
                ;               THE TC_CONTROL SUBROUTINE IS CALLED BY THE TEST_SERV_EXEC
                ; MACRO TO EXECUTE A GROUP OF TEST CASES. A GROUP IS DEFINED BY A TC_GROUP
                ; MACRO. FOR EACH TC_GROUP MACRO, THERE IS A CORRESPONDING TESTSERV MACRO.
                ; TESTSERV CONTAINS CODE TO EXECUTE SYSTEM SERVICES AND CHECK THE RETURNED
                ; STATUS CODE VALUES. TESTSERV ARGUMENTS ARE CODED TO SPECIFY ALL THE SYSTEM
                ; SERVICE ARGUMENT VALUES AND THE EXPECTED STATUS CODE FOR EACH TEST CASE
                ; DEFINED BY A NEXT_TEST_CASE MACRO WITHIN THE GROUP. TC_CONTROL USES A
                ; CO-ROUTINE INTERFACE TO ENTER THE CODE OF THE APPROPRIATE TESTSERV MACRO
                ; IN VARIOUS PLACES. THE FIRST ENTRY OCCURS ONCE PER GROUP TO ALLOW TESTSERV
                ; TO DO SOME INITIALIZATION. THEN TWO ENTRIES ARE MADE FOR EACH TEST CASE IN
                ; THE GROUP. THE FIRST ALLOWS TESTSERV TO ISSUE THE SUBJECT SYSTEM SERVICE.
                ; THE SECOND ENTRY FOR THE TEST CASE CAUSES TESTSERV TO CHECK THE RETURNED
                ; STATUS CODE, PRINTING A FAILURE MESSAGE IF IT IS NOT THE EXPECTED CODE.
                ; IF THERE ARE NO MORE TEST CASES IN THE CURRENT GROUP, TESTSERV (NOT TC_CONTROL)
                ; RETURNS DIRECTLY TO TEST_SERV_EXEC (RSB ACTUALLY ISSUED IN TS_CLEANUP MACRO)
                ; FROM THIS SECOND ENTRY; OTHERWISE, CONTROL RETURNS TO TC_CONTROL WHICH
                ; IN TURN ENTERS TESTSERV AGAIN FOR THE NEXT TEST CASE. THE FAILURE OF A
                ; TEST CASE DOES NOT CAUSE TERMINATION OF THE TEST MODULE.
                ;
                ; CALLING SEQUENCE:
                ;
                ;       BSBW TC_CONTROL (ISSUED WITHIN THE TEST_SERV_EXEC MACRO)
                ;                       (RSB IS ISSUED WITHIN THE TS_CLEANUP MACRO)
                ;
                ; INPUT PARAMETERS:
                ;
                ;       NONE
                ;
                ; IMPLICIT INPUTS:
                ;
                ;       ARGUMENTS SPECIFIED ON EACH TESTSERV MACRO MAY BE VIEWED AS
                ;       INPUTS, SINCE TC_CONTROL AND TESTSERV ACT AS CO-ROUTINES.
                ;
                ; OUTPUT PARAMETERS:
                ;
                ;       SEVERITY CODE FIELD OF MOD_MSG_CODE (BITS 0,1,2) IS SET TO ERROR
                ;       IF ANY TEST CASE IN THE CURRENT GROUP FAILS; OTHERWISE IT REMAINS
                ;       SET TO SUCCESSFUL.
                ;
                ; IMPLICIT OUTPUTS:
                ;
                ;       %UETP-I-TEXT,   ERROR MESSAGES ARE WRITTEN TO SYS$OUTPUT BY
                ;                       THE TESTSERV MACRO (CO-ROUTINE WITH TC_CONTROL)
                ;
                ; COMPLETION CODES:
                ;
                ;       NONE
                ;
                ; SIDE EFFECTS:
                ;
                ;       NONE
                ;
                ;--
```

```
                                 0DB5   955
                                 0DB5   956
                                 0DB5   957
                                 0DB5   958 TC_CONTROL:
            00000064'EF    DD    0DB5   959          PUSHL   TS_EP                        ; PUSH TESTSERV ENTRY POINT
                  9E    16    0DBB   960          JSB     @(SP)+                      ; ENTER TESTSERV INITIALIZATION
                                 0DBD   961 10$:                                       ; PROCESS NEXT TEST CASE
         00000056'EF    20    90    0DBD   962          MOVB    #^A/ /,$$TSTN$$+2           ; MAKE SURE T.C. NAME HAS A BLANK
               002F    30    0DC4   963          BSBW    REG_SAVE                    ; SAVE REGISTERS
            00000004'FF    16    0DC7   964          JSB     @CURRENT_TC                 ; JUMP TO CURRENT TEST CASE
               0037    30    0DCD   965          BSBW    REG_REST                    ; RESTORE REGS FOR TESTSERV
                 9E    16    0DD0   966          JSB     @(SP)+                      ; LET TESTSERV ISSUE SYSTEM SERVICE
               0042    30    0DD2   967          BSBW    REG_COMP                    ; COMPARE REGS TO SEE IF ...
                                 0DD5   968                                          ; ... SYSTEM SERVICE CHANGED ANY
                 9E    16    0DD5   969          JSB     @(SP)+                      ; LET TESTSERV CHEK S.S. STATUS CODE
         00000056'EF    2A    91    0DD7   970          CMPB    #^A/*/,$$TSTN$$+2           ; HAS TESTSERV INDICATED FAILURE ?
                  DD    12    0DDE   971          BNEQU   10$                         ; NO -- PROCESS NEXT TEST CASE
   00000060'EF    00000088'EF    DE    0DE0   972          MOVAL   TEST_MOD_FAIL_TMP_ADDR      ; YES -- INDICATE FAILED IN END MSG
00000044'EF    03    00    02    F0    0DEB   973          INSV    #ERROR,#0,#3,MOD_MSG_CODE   ; ADJUST STATUS CODE FOR ERROR
                  C7    11    0DF4   974          BRB     10$                         ; LOOP BAK TO PROCESS NEXT TEST CASE
                                 0DF6   975 ;
                                 0DF6   976 ;    TC_CONTROL RETURNS TO TEST_SERV_EXEC VIA TESTSERV (IN TS_CLEANUP MACRO)
                                 0DF6   977 ;
```

```
                                0DF6   979          .SBTTL  SUBROUTINES
                                0DF6   980 REG_SAVE:
                                0DF6   981 ;
                                0DF6   982 ;  ************************************************************************
                                0DF6   983 ;  *                                                                      *
                                0DF6   984 ;  *  SAVES R0 THRU SP IN REG_SAVE_AREA                                    *
                                0DF6   985 ;  *                                                                      *
                                0DF6   986 ;  ************************************************************************
                                0DF6   987 ;
                    7FFF 8F     BB 0DF6   988          PUSHR   #R0_THRU_SP             ; SAVE ALL REGS ON STACK
        00000008'EF 6E    3C    28 0DFA   989          MOVC3   #60,(SP),REG_SAVE_AREA  ; SAVE REGS (BEFORE S.S.)
                    7FFF 8F     BA 0E02   990          POPR    #R0_THRU_SP             ; CLEAN UP STACK
                                05 0E06   991          RSB                             ; .... AND RETURN
                                0E07   992 ;
                                0E07   993 ;
                                0E07   994 ;
                                0E07   995 ;
                                0E07   996 REG_REST:
                                0E07   997 ;
                                0E07   998 ;
                                0E07   999 ;  ************************************************************************
                                0E07  1000 ;  *                                                                      *
                                0E07  1001 ;  *  RESTORES R0 THRU SP FROM REG_SAVE_AREA                               *
                                0E07  1002 ;  *                                                                      *
                                0E07  1003 ;  ************************************************************************
                                0E07  1004 ;
                    5E    3C    C2 0E07  1005          SUBL2   #60,SP                  ; MOVE SP TO MAKE ROOM FOR REGS
        6E  00000008'EF   3C    28 0E0A  1006          MOVC3   #60,REG_SAVE_AREA,(SP)  ; MOVE REGS ONTO STACK FOR POP
                    7FFF 8F     BA 0E12  1007          POPR    #R0_THR0_SP             ; RESTORE ALL REGS FOR TESTSERV
                                05 0E16  1008          RSB                             ; ... AND RETURN
```

```
                        0E17  1010 REG_COMP:
                        0E17  1011 ;
                        0E17  1012 ;  ************************************************************************
                        0E17  1013 ;  *                                                                      *
                        0E17  1014 ;  *  1) PUSHES ALL REGS ONTO STACK                                        *
                        0E17  1015 ;  *  2) COMPARES REGISTER IMAGES FROM STACK WITH CORRESPONDING             *
                        0E17  1016 ;  *        IMAGES FROM REG_SAVE_AREA FOR ALL REGISTERS SPECIFIED          *
                        0E17  1017 ;  *        IN REG_COMP_MASK.                                             *
                        0E17  1018 ;  *  3) FOR EACH UNEQUAL COMPARE, AN ERROR MESSAGE IS PRINTED             *
                        0E17  1019 ;  *        (USING $FAO AND $OUTPUT SYSTEM SERVICES).                     *
                        0E17  1020 ;  *  4) POPS ALL REGS OFF OF STACK                                        *
                        0E17  1021 ;  *                                                                      *
                        0E17  1022 ;  ************************************************************************
                        0E17  1023 ;
          7FFF 8F   BB  0E17  1024         PUSHR   #R0_THRU_SP             ; SAVE ALL REGISTERS ON STACK
    56  00000008'EF   DE  0E1B  1025         MOVAL   REG_SAVE_AREA,R6        ; POINT R6 TO BEG OF ...
                        0E22  1026                                         ; ... REGS (BEFORE S.S.)
        54   5E   D0  0E22  1027         MOVL    SP,R4                   ; POINT R4 TO BEG OF
                        0E25  1028                                         ; ... REGS (AFTER S.S.)
        53   FF 8F   98  0E25  1029         CVTBL   #-1,R3                  ; INITIALIZE REG_COMP_MASK INDEX
                        0E29  1030 REG_COMP_NEXT:
            53   D6  0E29  1031         INCL    R3                      ; POINT TO NEXT BIT IN MASK
        53   0F   91  0E2B  1032         CMPB    #15,R3                  ; END OF THE MASK ?
             03   1A  0E2E  1033         BGTRU   REG_COMP_CONT           ; NO -- CONTINUE
           009F   31  0E30  1034         BRW     REG_COMP_RSB            ; YES -- GO TO COMMON RETURN
                        0E33  1035 REG_COMP_CONT:
        84   86   D1  0E33  1036         CMPL    (R6)+,(R4)+             ; REG BEFORE = REG AFTER ?
             F1   13  0E36  1037         BEQLU   REG_COMP_NEXT           ; YES -- LOOK FOR NEXT REG
E9 00000000'EF   53   E1  0E38  1038         BBC     R3,REG_COMP_MASK,REG_COMP_NEXT
                        0E40  1039                                         ; NO -- GET NEXT IF BIT NOT SET
   00000048'EF   53   D0  0E40  1040         MOVL    R3,CLOB_REG_NO          ; NO -- GIVE REG NUMBER TO FAO
0000004C'EF   FC A6   D0  0E47  1041         MOVL    -4(R6),REG_BEFORE_SS    ; GIVE "BEFORE" CONTENTS TO FAO
00000050'EF   FC A4   D0  0E4F  1042         MOVL    -4(R4),REG_AFTER_SS     ; GIVE "AFTER" CONTENTS TO FAO
   00000056'EF   2A   90  0E57  1043         MOVB    #^A/*/,$$TSTN$$+2       ; GIVE FAILURE INDIC'N IN ERROR MSG
                        0E5E  1044 ;
                        0E5E  1045         $FAO_S  ERR_MSG_FAOCTL,OUTL,OUTD,$$SNAD$$,  -
                        0E5E  1046                 $$ASEQ$$,$$PSEQ$$,CLOB_REG_NO,REG_BEFORE_SS,REG_AFTER_SS
                        0E91  1047 ;
      F27C CF   F246 CF   B0  0E91  1048         MOVW    OUTL,OUTD               ; ACTUAL OUTPUT LEN IN STRING DESC'R
                        0E98  1049         PUTMSG  <&"ETP$_TEXT,#1,#OUTD>  ; PRINT THE MSG
      F260 CF   0084 8F   B0  0EAD  1050         MOVW    #OUTLE-OUTB,OUTL        ; GET MAX LEN BACK INTO DESCRIPTOR
       00000056'EF   20   90  0EB4  1051         MOVB    #^A/ /,$$TSTN$$+2       ; REMOVE FAIL INDIC'N FOR NEXT MSG
00000060'EF   00000088'EF   DE  0EBB  1052         MOVAL   TEST_MOD_FAIL, MD_ADDR  ; INDICATE FAILED IN END MSG
00000044'EF   03   00   02  F0  0EC6  1053         INSV    #ERROR,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR ERROR
                  FF57   31  0ECF  1054         BRW     REG_COMP_NEXT           ; GO LOOK FOR NEXT REG TO COMPARE
                        0ED2  1055 REG_COMP_RSB:
            7FFF 8F   BA  0ED2  1056         POPR    #R0_THRU_SP             ; CLEAN UP STACK
                  05  0ED6  1057         RSB                             ; RETURN TO CALLER
```

```
                     0ED7  1059 MOD_MSG_PRINT:
                     0ED7  1060 ;
                     0ED7  1061 ;  ************************************************************************
                     0ED7  1062 ;  *                                                                      *
                     0ED7  1063 ;  *  PRINTS THE TEST MODULE BEGUN/SUCCESSFUL/FAILED MESSAGES              *
                     0ED7  1064 ;  *       (USING THE PUTMSG MACRO).                                      *
                     0ED7  1065 ;  *                                                                      *
                     0ED7  1066 ;  ************************************************************************
                     0ED7  1067 ;
                     0ED7  1068          PUTMSG  <MOD_MSG_CODE,#2,TMN_ADDR,TMD_ADDR> ; PRINT MSG
                  05 0EF2  1069          RSB                                         ; ... AND RETURN TO CALLER
                     0EF3  1070 ;
                     0EF3  1071 CHMRTN:
                     0EF3  1072 ; ************************************************************
                     0EF3  1073 ; *
                     0EF3  1074 ; *     CHANGE MODE ROUTINE. THIS ROUTINE GETS CONTROL WHENEVER
                     0EF3  1075 ; *     A CMKRNL, CMEXEC, OR CMSUP SYSTEM SERVICE IS ISSUED
                     0EF3  1076 ; *     BY THE MODE MACRO ('TO' OPTION).  IT MERELY DOES
                     0EF3  1077 ; *     A JUMP INDIRECT ON A FIELD SET UP BY MODE. IT HAS
                     0EF3  1078 ; *     THE EFFECT OF RETURNING TO THE END OF THE MODE
                     0EF3  1079 ; *     MACRO EXPANSION.
                     0EF3  1080 ; *
                     0EF3  1081 ; ************************************************************
                     0EF3  1082 ;
                0000 0EF3  1083          .WORD   0                                   ; ENTRY MASK
00000079'FF       17 0EF5  1084          JMP     @CHM_CONT                           ; RETURN TO MODE MACRO IN NEW MODE
                     0EFB  1085 ;
                     0EFB  1086 ; *     RET INSTR WILL BE ISSUED IN EXPANSION OF 'MODE FROM, ....' MACRO
                     0EFB  1087 ;
                     0EFB  1088          .END    SATSSF04
```

```
$$$CHARS                = 00000048
$$$FIRSTTC$$$           = 00000000
$$$STRINCS              = 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
ASTADR_STM              = 00000000
CHMRTN                    00000EF3 R      06
CHM_CONT                  00000079 R      03
CLEANUP                   00000D9C R      06
CLOB_REG_NO               00000048 R      03
CTL$GL_PHD                ******** X      06
CURRENT_TC                00000004 R      03
CVTFLG_ATM                00000107 R      02
DAYTIM_STM                000000C5 R      02
DAYTIM_STM20            = 00000000
DAYTIM_STM21              00000008 R      05
DAYTIM_STM22            = 000001FF R      04
EFN_STM                   000000BD R      02
EFN_STM10                 000000C1 R      02
EFN_STM11                 00000091 R      03
EFN_STM12                 00000095 R      03
EFN_STM13                 00000099 R      03
EFN_STM14                 0000009D R      03
EMPTY                     00000000 R      04
ERROR                   = 00000002
ERR_MSG_FAOCTL            00000002 R      02
EXECUTE                   00000D6A R      06
GRP_TOTAL               = 00000005
INADR                     000000A9 R      02
INFO                    = 00000003
LIB$SIGNAL                ******** X      06
MEXIT                   = 00000000
MOD_MSG_CODE              00000044 R      03
MOD_MSG_PRINT             00000ED7 R      06
NARGS                   = 0000000E
NOACCESS                  00000000 R      05
NSSARGS                 = 00000002
ONES                      000000B5 R      02
OUTB                      0000011C R      06
OUTD                      00000114 R      06
OUTE                      000001A0 R      06
OUTL                      000000DB R      06
PCB$L_UIC               = 00000020
PHD$Q_PRIVMSK           = 00000000
PRIVMASK                  00000071 R      03
PRIV_ARGS               = 00000002
PROT                      000000B1 R      02
PRT$C_NA                  ********   X    02
PRVPRT                    00000070 R      03
RO_THRU_SP              = 00007FFF
REGS                      0000007D R      03
REG_AFTER_SS              00000050 R      03
REG_BEFORE_SS             0000004C R      03
REG_COMP                  00000E17 R      06
REG_COMP_CONT             00000E33 R      06
REG_COMP_MASK             00000000 R      02
REG_COMP_NEXT             00000E29 R      06
REG_COMP_RSB              00000ED2 R      06
REG_REST                  00000E07 R      06
REG_SAVE                  00000DF6 R      06
REG_SAVE_AREA             00000008 R      03
REQIDT_STM                000000CD R      02
RETADR                    00000068 R      03
SATSSF04                  00000000 R      06
SEVERE                  = 00000004
SHR$K_SHRDEF            = 00000001
SHR$_TEXT               = 00001130
SS$_ACCVIO                ********    X   06
SS$_ILLEFC                ********    X   06
SS$_IVTIME                ********    X   06
SS$_UNASEFC               ********    X   06
STS$V_INHIB_MSG         = 0000001C
SUCCESS                 = 00000001
SYS$ASCTIM                ********   GX   06
SYS$BINTIM                ********   GX   06
SYS$CMKRNL                ********   GX   06
SYS$EXIT                  ********   GX   06
SYS$FAO                   ********    X   06
SYS$FAOL                  ********   GX   06
SYS$GETTIM                ********   GX   06
SYS$HIBER                 ********   GX   06
SYS$NUMTIM                ********   GX   06
SYS$SETIMR                ********   GX   06
SYS$SETPRN                ********   GX   06
SYS$SETPRT                ********   GX   06
SYS$SETPRV                ********   GX   06
SYS$WAKE                  ********   GX   06
TC1                       00000241 R      06
TC2                       000002E0 R      06
TC3                       00000320 R      06
TC4                       00000390 R      06
TC5                       000003B8 R      06
TCG_NO                  = 00000005
TC_CONTROL                00000DB5 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
TIMADR_ATM                000000F7 R      02
TIMADR_ATM30              000000FF R      02
TIMADR_BTM                000000D9 R      03
```

```
TIMADR_GTT                      000000A1 R      03
TIMADR_GTT10                  = 00000001
TIMADR_GTT11                    000000D1 R      02
TIMADR_GTT12                  = 000001FF R      04
TIMADR_NMT                      000000E7 R      02
TIMADR_NMT20                  = 00000001
TIMADR_NMT21                    00000010 R      05
TIMADR_NMT22                  = 000001FF R      04
TIMADR_NMT23                    000000EF R      02
TIMBUF_ATM                      000000B9 R      03
TIMBUF_BTM                      0000010B R      02
TIMBUF_BTM10                    0000012B R      02
TIMBUF_BTM11                    0000014B R      02
TIMBUF_BTM12                    0000016B R      02
TIMBUF_BTM13                    0000018B R      02
TIMBUF_NMT                      000000A9 R      03
TIMBUF_NMT10                  = 00000001
TIMBUF_NMT11                    000000D9 R      02
TIMBUF_NMT12                  = 000001FF R      04
TIMLEN_ATM                      000000B7 R      03
TMD_ADDR                        00000060 R      03
TMN_ADDR                        0000005C R      03
TPID                            00000000 R      03
TS1                             00000404 R      06
TS2                             000006CA R      06
TS3                             0000078D R      06
TS4                             00000959 R      06
TS5                             00000BE7 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	000001A4 (420.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	000000E1 (225.)	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
SATSSF04	00000EFB (3835.)	06 (6.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC LONG

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	37	00:00:00.06	00:00:01.36
Command processing	136	00:00:00.79	00:00:06.42
Pass 1	485	00:00:15.45	00:00:32.79

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Symbol table sort	2	00:00:00.68	00:00:01.08
Pass 2	281	00:00:04.01	00:00:10.19
Symbol table output	18	00:00:00.13	00:00:00.13
Psect synopsis output	2	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	963	00:00:21.15	00:00:52.01

The working set limit was 1650 pages.
80218 bytes (157 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 347 non-local and 160 local symbols.
1088 source lines were read in Pass 1, producing 32 object records in Pass 2.
64 pages of virtual memory were used to define 48 macros.

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

Macro library name	Macros defined
_255DUA28:[SHRLIB]UETP.MLB;1	19
_255DUA28:[SYS.OBJ]LIB.MLB;1	0
_255DUA28:[SYSLIB]STARLET.MLB;2	23
TOTALS (all libraries)	42

975 GETS were required to define 42 macros.

There were no errors, warnings or information messages.

```
MACRO/LIS=LIS$:SATSSF04/OBJ=OBJ$:SATSSF04 MSRC$:SATSSF04/UPDATE=(ENH$:SATSSF04)+EXECML$/LIB+SHRLIB$:UETP/LIB
```