```
UUU        UUU  EEEEEEEEEEEEEEE  TTTTTTTTTTTTTTT  PPPPPPPPPPPP        SSSSSSSSSSSS  YYY              YYY
UUU        UUU  EEEEEEEEEEEEEEE  TTTTTTTTTTTTTTT  PPPPPPPPPPPP        SSSSSSSSSSSS  YYY              YYY
UUU        UUU  EEEEEEEEEEEEEEE  TTTTTTTTTTTTTTT  PPPPPPPPPPP         SSSSSSSSSSSS  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  EEEEEEEEEEE               TTT     PPPPPPPPPPPP        SSSSSSSSS               YYY
UUU        UUU  EEEEEEEEEEEE              TTT     PPPPPPPPPPPP        SSSSSSSSS               YYY
UUU        UUU  EEEEEEEEEEE               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
UUUUUUUUUUUUUUU EEEEEEEEEEEEEEE           TTT     PPP                SSSSSSSSSSSS           YYY
UUUUUUUUUUUUUUU EEEEEEEEEEEEEEE           TTT     PPP                SSSSSSSSSSSS           YYY
UUUUUUUUUUUUUUU EEEEEEEEEEEEEEE           TTT     PPP                SSSSSSSSSSSS           YYY
```

_S
Va
00
00
00
00
00
48
7F
7F
7F
7F
7F
7F
7F
7F
7F
7F
7F
7F

FILEID**SATSUT13

```
SSSSSSSS    AAAAAA    TTTTTTTTTT  SSSSSSSS  UU      UU  TTTTTTTTTT    11        333333
SSSSSSSS    AAAAAA    TTTTTTTTTT  SSSSSSSS  UU      UU  TTTTTTTTTT    11        333333
SS          AA    AA      TT      SS        UU      UU      TT      1111      33      33
SS          AA    AA      TT      SS        UU      UU      TT      1111      33      33
SS          AA    AA      TT      SS        UU      UU      TT        11              33
SS          AA    AA      TT      SS        UU      UU      TT        11              33
    SSSSSS  AA    AA      TT          SSSSSS  UU      UU      TT        11          33
    SSSSSS  AA    AA      TT          SSSSSS  UU      UU      TT        11          33
        SS  AAAAAAAAAA    TT              SS  UU      UU      TT        11              33
        SS  AAAAAAAAAA    TT              SS  UU      UU      TT        11              33
        SS  AA    AA      TT              SS  UU      UU      TT        11      33      33
        SS  AA    AA      TT              SS  UU      UU      TT        11      33      33
SSSSSSSS    AA    AA      TT      SSSSSSSS  UUUUUUUUUU      TT      111111      333333
SSSSSSSS    AA    AA      TT      SSSSSSSS  UUUUUUUUUU      TT      111111      333333
```

```
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
```

```
0000      1              .TITLE   SATSUT13        SATS SYSTEM SERVICE TESTS
0000      2              .SBTTL   MACROS, DATA
0000      3              .IDENT   'V04-000'
0000      4
0000      5      ;********************************************************************
0000      6      ;*                                                                  *
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0000     24      ;*                                                                  *
0000     25      ;*                                                                  *
0000     26      ;********************************************************************
0000     27
```

```
           00000000       29                    .PSECT  RWDATA,RD,WRT,NOEXE
  00000000  0000          30 CREPID:            .LONG   0        ; PID OF CREATED (THIS) PROCESS
            0004          31 LOGNAM_PID:         STRING  I,<SYSTST$PID> ; LOG NAME OF PID OF CREATING PROCESS
            0016          32 EQUIV_PID:          STRING  O,4      ; BUFFER FOR CREATING PID (EQUIVALENCE NAME)
            0022          33 ; *
            0022          34 ; *         THIS ROUTINE RUNS IN A  PROCESS CREATED BY
            0022          35 ; *         A PROCESS RUNNING THE SATSSS42 IMAGE.  THIS PROCESS
            0022          36 ; *         OBTAINS ITS PID FOR LATER USE, SIGNALS THE CREATING PROCESS
            0022          37 ; *         (VIA $WAKE) THAT IT IS FULLY CREATED, AND THEN HIBERNATES,
            0022          38 ; *         ANTICIPATING EITHER A $WAKE FROM THE CREATING PROCESS,
            0022          39 ; *         OR A $FORCEX FROM THE CREATING PROCESS. IF THE CREATOR
            0022          40 ; *         ISSUES $WAKE, THEN THIS PROCESS DOES ITS OWN $FORCEX,
            0022          41 ; *         USING ITS PID AS AN EXIT COMPLETION STATUS CODE.
            0022          42 ; *         THE STATUS CODE WILL BE CHECKED FOR CORRECTNESS BY
            0022          43 ; *         THE CREATING PROCESS THROUGH THE USE OF THE
            0022          44 ; *         PROCESS TERMINATION MAILBOX MECHANISM.
            0022          45 ; *
```

SATSUT13
V04-000

G 4

SATS SYSTEM SERVICE TESTS
EXECUTABLE CODE

16-SEP-1984 01:08:59   VAX/VMS Macro V04-00   Page   3
5-SEP-1984 04:34:50   [UETPSY.SRC]SATSUT13.MAR;1   (1)

```
        0022    47              .SBTTL  EXECUTABLE CODE
     00000000   48              .PSECT  SATSUT13,RD,WRT,EXE
0000    0000    49 START:       .WORD   0           ; ENTRY MASK
        0002    50 SATSUT13:
        0002    51              $WAKE_S CREPID              ; OBTAIN PID OF THIS PROCESS
        0011    52              $HIBER_S                    ; UNDO ABOVE WAKE
        0018    53              $TRNLOG_S LOGNAM=LOGNAM_PID, - ; GET CREATOR'S PID FROM SYSTEM LOG NAME TBL
        0018    54                        RSLBUF=EQUIV_PID, -
        0018    55                        DSBMSK=#^B110
        0033    56              $WAKE_S PIDADR=EQUIV_PID+8; SIGNAL TO CREATOR: THIS PROC IS FULLY CREATED
        0042    57              $HIBER_S                    ; SLEEP WHILE CREATOR DECIDES TO $WAKE OR $FORCEX
        0049    58 ;
        0049    59 ; ****** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE ******
        0049    60 ;
        0049    61              $FORCEX_S CODE=CREPID   ; ISSUE SUBJECT FORCEX WITH PID AS STATUS CODE
        005A    62              .END    START
```

```
$$$CHARS         = 0000000A
$$$STRINGS       = 00000000
CREPID             00000000 R     01
EQUIV_PID          00000016 R     01
LOGNAM_PID         00000004 R  R  01
SATSUTT3           00000002 R  R  02
START              00000000 R     02
SYS$FORCEX         ********    GX 02
SYS$HIBER          ********    GX 02
SYS$TRNLOG         ********    GX 02
SYS$WAKE           ********    GX 02
```

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

```
PSECT name                      Allocation           PSECT No.  Attributes
----------                      ----------           ---------  ----------
.  ABS  .                       00000000 (     0.)   00 (  0.)  NOPIC   USR   CON   ABS   LCL NOSHR NOEXE NORD   NOWRT NOVEC BYTE
RWDATA                          00000022 (    34.)   01 (  1.)  NOPIC   USR   CON   REL   LCL NOSHR NOEXE   RD     WRT NOVEC BYTE
SATSUT13                        0000005A (    90.)   02 (  2.)  NOPIC   USR   CON   REL   LCL NOSHR   EXE   RD     WRT NOVEC BYTE
```

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

```
Phase                    Page faults   CPU Time        Elapsed Time
-----                    -----------   --------        ------------
Initialization                   36    00:00:00.10     00:00:00.36
Command processing              135    00:00:00.66     00:00:04.44
Pass 1                          131    00:00:00.96     00:00:05.01
Symbol table sort                 0    00:00:00.00     00:00:00.00
Pass 2                           32    00:00:00.23     00:00:00.49
Symbol table output               2    00:00:00.01     00:00:00.01
Psect synopsis output             1    00:00:00.02     00:00:00.01
Cross-reference output            0    00:00:00.00     00:00:00.00
Assembler run totals            339    00:00:01.99     00:00:10.34
```

The working set limit was 1050 pages.
2707 bytes (6 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 11 non-local and 0 local symbols.
62 source lines were read in Pass 1, producing 13 object records in Pass 2.
7 pages of virtual memory were used to define 6 macros.

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

```
Macro library name                         Macros defined
------------------                         --------------
_$255$DUA28:[SHRLIB]UETP.MLB;1                    1
_$255$DUA28:[SYS.OBJ]LIB.MLB;1                    0
_$255$DUA28:[SYSLIB]STARLET.MLB;2                 5
TOTALS (all libraries)                            6
```

78 GETS were required to define 6 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS$:SATSUT13/OBJ=OBJ$:SATSUT13 MSRC$:SATSUT13/UPDATE=(ENH$:SATSUT13)+EXECML$/LIB:SHRLIB$:UETP/LIB

SATSUT13
LIS

SUCCOMMON
LIS

SATSUT02
LIS

SATSUT09
LIS

SATSUT11
LIS

UETDR7800
LIS

UETCLIG00
LIS

SATSUT14
LIS

SATSUT10
LIS

SATSUT08
LIS

SATSUT12
LIS