```
UUU         UUU  EEEEEEEEEEEEEE  TTTTTTTTTTTTTT  PPPPPPPPPPP           SSSSSSSSSSS  YYY            YYY
UUU         UUU  EEEEEEEEEEEEEE  TTTTTTTTTTTTTT  PPPPPPPPPPP           SSSSSSSSSSS  YYY            YYY
UUU         UUU  EEEEEEEEEEEEEE  TTTTTTTTTTTTTT  PPPPPPPPPP            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  EEEEEEEEEEE         TTT         PPPPPPPPPPP          SSSSSSSSS            YYY
UUU         UUU  EEEEEEEEEEE         TTT         PPPPPPPPPPP          SSSSSSSSS            YYY
UUU         UUU  EEEEEEEEEEE         TTT         PPPPPPPPPPP          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
UUU         UUU  EEE                 TTT         PPP                        SSS            YYY
UUUUUUUUUUUUUUU  EEEEEEEEEEEEEE      TTT         PPP              SSSSSSSSSSS            YYY
UUUUUUUUUUUUUUU  EEEEEEEEEEEEEE      TTT         PPP              SSSSSSSSSSS            YYY
UUUUUUUUUUUUUUU  EEEEEEEEEEEEEE      TTT         PPP              SSSSSSSSSSS            YYY
```

```
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
-L                II                SS
LL                II                SS
LL                II                SS
LLLLLLLLLL      IIIIII       SSSSSSSS
LLLLLLLLLL      IIIIII       SSSSSSSS
```

SATSUT13          SATS SYSTEM SERVICE TESTS        E 4       16-SEP-1984 01:08:59   VAX/VMS Macro V04-00     Page  1
V04-000                                                        5-SEP-1984 04:34:50  [UETPSY.SRC]SATSUT13.MAR;1          (1)

SU
Ta

```
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
```

SATSUT13
V04-000

F 4

SATS SYSTEM SERVICE TESTS                16-SEP-1984 01:08:59  VAX/VMS Macro V04-00     Page  2
MACROS, DATA                              5-SEP-1984 04:34:50  [UETPSY.SRC]SATSUT13.MAR;1        (1)

SU
VO

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

SU
VO

```
        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    01
SATSUT13        00000002 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