```
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  EEEEEEEEEEEE               TTT     PPPPPPPPPPP           SSSSSSSSS        YYY
UUU         UUU  EEEEEEEEEEEE               TTT     PPPPPPPPPPP           SSSSSSSSS        YYY
UUU         UUU  EEEEEEEEEEEE               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
UUUUUUUUUUUUUUU  EEEEEEEEEEEEEEE            TTT     PPP                SSSSSSSSSSSS        YYY
UUUUUUUUUUUUUUU  EEEEEEEEEEEEEEE            TTT     PPP                SSSSSSSSSSSS        YYY
UUUUUUUUUUUUUUU  EEEEEEEEEEEEEEE            TTT     PPP                SSSSSSSSSSSS        YYY
```

SATSSS08

LIS

```
0000     1              .TITLE  SATSSS08 SATS SYSTEM SERVICE TESTS  $BRDCST (SUCC 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:       SYSTST (SATS SYSTEM SERVICE TESTS)
0000    31      ;
0000    32      ; ABSTRACT:
0000    33      ;
0000    34      ;            THIS MODULE CONTAINS SUBROUTINES WHICH, WHEN LINKED
0000    35      ; WITH SUCCOMMON.OBJ, FORM TEST MODULE SATSSS08 TO TEST SUCCESSFUL
0000    36      ; OPERATION OF THE $BRDCST SYSTEM SERVICE. THE SERVICE IS INVOKED
0000    37      ; UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY
0000    38      ; SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE.  CORRECT
0000    39      ; OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY
0000    40      ; CHECKING FOR AN SS$ NORMAL STATUS CODE, EXPECTED RETURN ARGUMENTS
0000    41      ; AND EXPECTED FUNCTIONALITY PERFORMED.
0000    42      ;
0000    43      ; ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE,
0000    44      ;                 DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.
0000    45      ;
0000    46      ; AUTHOR: THOMAS L. CAFARELLA,          CREATION DATE: MMM, 1978
0000    47      ;
0000    48      ; MODIFIED BY:
0000    49      ;
0000    50      ;      .  : VERSION
0000    51      ; 01   :
0000    52      ;--
```

```
0000      54            .SBTTL  DECLARATIONS
0000      55    ;
0000      56    ; INCLUDE FILES:
0000      57    ;
0000      58            $PRVDEF                             ; PRIVILEGE BIT DEFINITIONS
0000      59            $PHDDEF                             ; PROCESS HEADER OFFSETS
0000      60            $LOGDEF                             ; LOGICAL NAME TABLE DEFS
0000      61            $SHR_MESSAGES UETP,116,<<TEXT,INFO>> ; DEFINE UETP$_TEXT MSG
0000      62    ;
0000      63    ; MACROS:
0000      64    ;
0000      65    ;
0000      66    ; EQUATED SYMBOLS:
0000      67    ;
0000      68    ;
0000      69    ; OWN STORAGE:
0000      70    ;
```

```
                        00000000      72         .PSECT  RODATA,RD,NOWRT,NOEXE,LONG
                        0000          73 TEST_MOD_NAME:: STRING  C,<SATSSS08>        ; TEST MODULE NAME
                        0009          74 TEST_MOD_NAME_D: STRING I,<SATSSS08>        ; TEST MODULE NAME DESCRIPTOR
                        0019          75 MSG1_INP_CTL:-  STRING  I,<  SSBRD!4ZW: CONDITIONS:>
                        0039          76                                            ; FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
                        0039          77 MSG3_ERR_CTL:: STRING  I,< *SSBRD!4ZW: !AS>
                        0051          78                                            ; FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR
                        0051          79 INTRO_MSG:      STRING  I,<THE FOLLOWING MSGS ARE PART OF THE>, -
                        0051          80                         < $BRDCST TEST ... PLEASE IGNORE>
                        009A          81 EXIT_MSG:       STRING  I,<NO MORE $BRDCST MSGS ... THANK >, -
                        009A          82                         <YOU FOR YOUR PATIENCE>
                        00D6          83 TERM_DATA:                                  ; 250-CHARACTER MESSAGE
2F 58 41 56 20 53 4D 56 2F 58 41 56 00D6          84         .ASCII  %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56 00E2
2F 58 41 56 20 53 4D 56 2F 58 41 56 00EE          85         .ASCII  %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56 00FA
2F 58 41 56 20 53 4D 56 2F 58 41 56 0106          86         .ASCII  %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56 0112
2F 58 41 56 20 53 4D 56 2F 58 41 56 011E          87         .ASCII  %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56 012A
2F 58 41 56 20 53 4D 56 2F 58 41 56 0136          88         .ASCII  %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56 0142
2F 58 41 56 20 53 4D 56 2F 58 41 56 014E          89         .ASCII  %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56 015A
2F 58 41 56 20 53 4D 56 2F 58 41 56 0166          90         .ASCII  %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56 0172
2F 58 41 56 20 53 4D 56 2F 58 41 56 017E          91         .ASCII  %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56 018A
2F 58 41 56 20 53 4D 56 2F 58 41 56 0196          92         .ASCII  %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56 01A2
2F 58 41 56 20 53 4D 56 2F 58 41 56 01AE          93         .ASCII  %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56 01BA
      41 56 20 53 4D 56 2F 58 41 56 01C6          94         .ASCII  %VAX/VMS VA%
                        00000000      01D0          95 ZERODESC:      .LONG   0                   ; ZERO LENGTH STRING DESCRIPTOR
                        000001D0'     01D4          96                .ADDRESS ZERODESC           ; ............
                        01D8          97 OPDEV:          STRING  I,< OPA0>           ; OPER'S CONSOLE (SHOULD BE ON EVERY SYSTEM)
                        01E5          98 OPDEVLOG:       STRING  I,<$YSTST$OPER>     ; LOGICAL NAME FOR OPERATOR'S CONSOLE
```

SATSSS08
V04-000

I 14
SATS SYSTEM SERVICE TESTS $BRDCST (SUCC 16-SEP-1984 00:48:01 VAX/VMS Macro V04-00   Page 4
DECLARATIONS   5-SEP-1984 04:30:06 [UETPSY.SRC]SATSSS08.MAR;1   (1)

```
           00000000    100          .PSECT   RWDATA,RD,WRT,NOEXE,LONG
00000008   0000       101 PRIVMASK:         .BLKQ    1            ; ADDR OF PRIVILEGE MASK (IN PHD)
0000000A   0008       102 CTRSTRLEN:        .BLKW    1            ; FAO CONTROL STRING LENGTH
           000A       103 FAOCTRSTR:        STRING   0,30         ; FAO CONTROL STRING
           0030       104 TERM_DESCR:                             ; TERMINAL DATA STRING DESCRIPTOR
00000034   0030       105                   .BLKL    1            ; LENGTH OF STRING
000000D6'  0034       106                   .ADDRESS TERM_DATA    ; ADDRESS OF STRING
0000003A   0038       107 BRDLEN:           .BLKW    1            ; LENGTH OF INTRO & EXIT BRDCST MSGS
           003A       108 BRDBUF:           STRING   0,80         ; BUFFER FOR INTRO & EXIT BRDCST MSGS
```

```
                        0092      110                 .SBTTL  CONDITION TABLES
                        0092      111       ;
                        0092      112       ;  ***** CONDITION TABLES FOR BRDCST SYSTEM SERVICE *****
                        0092      113       ;
                        0092      114                 COND    1,NOTARG,<MESSAGE LENGTH>,-
                        0092      115                         <NULL LENGTH>,-
                        0092      116                         <MIN LENGTH>,-
                        0092      117                         <AVG LENGTH>,-
                        0092      118                         <MAX LENGTH>,-
                        0092      119
     FA 50 01 00        00DF      120                         .BYTE           0,1,80,250
                        00E3      121       ;
                        00E3      122                 COND    2,NOTARG,<MESSAGE RECIPIENT SET>,-
                        00E3      123                         <ALL TERMINALS>,-
                        00E3      124                         <ALL TERMINALS ALLOCATED TO PROCESSES>,-
                        00E3      125                         <A SINGLE TERMINAL (BY DEVICE NAME)>,-
                        00E3      126                         <A SINGLE TERMINAL (BY LOGICAL NAME)>,-
                        00E3      127
     00000000' 0184     128                         .ADDRESS        0        ; ZERO ARGUMENT => ALL TERMINALS
     000001D0' 0188     129                         .ADDRESS        ZERODESC ; ZERO LENGTH DESCR => ALL PROCESS TERMS
     000001D8' 018C     130                         .ADDRESS        OPDEV    ; OPERATOR'S CONSOLE
     000001E5' 0190     131                         .ADDRESS        OPDEVLOG ; OPERATOR'S CONSOLE (BY LOG NAME)
                        0194      132       ;
                        0194      133                 COND    3,NULL
                        0195      134
                        0195      135                 COND    4,NULL
                        0196      136
                        0196      137                 COND    5,NULL
                        0197      138
     00000000           139                 .PSECT  SATSSS08,RD,WRT,EXE
```

```
                                0000    141              .SBTTL  TM_SETUP, TM_CLEANUP
                                0000    142  ;++
                                0000    143  ; FUNCTIONAL DESCRIPTION:
                                0000    144  ;
                                0000    145  ;            TM_SETUP AND TM_CLEANUP ARE CALLED TO PERFORM
                                0000    146  ; REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF
                                0000    147  ; TEST MODULE EXECUTION.
                                0000    148  ;
                                0000    149  ; CALLING SEQUENCE:
                                0000    150  ;
                                0000    151  ;      BSBW TM_SETUP    BSBW TM_CLEANUP
                                0000    152  ;
                                0000    153  ; INPUT PARAMETERS:
                                0000    154  ;
                                0000    155  ;      NONE
                                0000    156  ;
                                0000    157  ; IMPLICIT INPUTS:
                                0000    158  ;
                                0000    159  ;      NONE
                                0000    160  ;
                                0000    161  ; OUTPUT PARAMETERS:
                                0000    162  ;
                                0000    163  ;      NONE
                                0000    164  ;
                                0000    165  ; IMPLICIT OUTPUTS:
                                0000    166  ;
                                0000    167  ;      TM_SETUP:  COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED;
                                0000    168  ;                 ALL PRIVILEGES ACQUIRED.
                                0000    169  ;
                                0000    170  ; COMPLETION CODES:
                                0000    171  ;
                                0000    172  ;      EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
                                0000    173  ;
                                0000    174  ; SIDE EFFECTS:
                                0000    175  ;
                                0000    176  ;      SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
                                0000    177  ;      (VIA RSB) IF ERROR ENCOUNTERED.
                                0000    178  ;
                                0000    179  ;--
                                0000    180
                                0000    181
                                0000    182
                                0000    183  TM_SETUP::
                        52  D4  0000    184              CLRL    R2                          ; INITIALIZE
                        53  D4  0002    185              CLRL    R3                          ; .. CONDITION
                        54  D4  0004    186              CLRL    R4                          ; .... TABLE
                        55  D4  0006    187              CLRL    R5                          ; ...... INDEX
                        56  D4  0008    188              CLRL    R6                          ; ........ REGISTERS
                  FFF3' 30  000A    189              BSBW    MOD_MSG_PRINT               ; PRINT TEST MODULE BEGIN MSG
00000000'EF      00000000'EF  DE  000D    190              MOVAL   TEST_MOD_SUCC,TMD_ADDR  ; ASSUME END MSG WILL SHOW SUCCESS
      03   00    00000000'8F  F0  0018    191              INSV    #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
                 00000000'EF      0020
                                  0025    192              MODE    TO,5$,KRNL                 ; KERNEL MODE TO ACCESS PHD
           59   00000000'9F  D0  0048    193              MOVL    @#CTL$GL_PHD,R9            ; GET PROCESS HEADER ADDRESS
                 00000000'EF  69  DE  004F    194              MOVAL   PHD$Q_PRIVMSK(R9),PRIVMASK ; GET PRIV MASK ADDRESS
                                  0056    195              MODE    FROM,5$ ; BACK TO USER MODE
                                  0057    196              PRIV    ADD,ALL                    ; GET ALL PRIVILEGES
```

```
                           0077  197           $SETPRN_S TEST_MOD_NAME_D           ; SET PROCESS NAME
                           0084  198           SS_CHECK  NORMAL                    ; CHECK STATUS CODE RETURNED FROM SETPRN
                           00B2  199           $CRELOG_S LOGNAM=OPDEVLOG, EQLNAM=OPDEV, -
                           00B2  200                     TBLFLG=#LOG$C_PROCESS     ; CREATE LOG NAME FOR OPERATOR'S CONSOLE
                  2E 50 E8 00C9  201           BLBS      R0,10$                    ; KEEP GOING IF SUCCESS RETURN
                           00CC  202           SS_CHECK  NORMAL                    ; OTHERWISE USE SS_CHECK TO TERMINATE MODULE
                           00FA  203 10$:
                           00FA  204           $GETMSG_S MSGID=#UETP$_TEXT,MSGLEN=CTRSTRLEN, -
                           00FA  205                     BUFADR=FAOCTRSTR          ; GET UETP$_TEXT MSG
0000000A'EF    00000008'EF 3C 0117  206        SS_CHECK  NORMAL                    ; CHECK FOR NORMAL RETURN
0000000A'EF    00000008'EF 3C 0145  207        MOVZWL    CTRSTRLEN,FAOCTRSTR       ; GET ACTUAL LEN OF MSG INTO DESCRIPTOR
                           0150  208           $FAO_S    CTRSTR=FAOCTRSTR, OUTLEN=BRDLEN, -
                           0150  209                     OUTBUF=BRDBUF, P1=#INTRO_MSG ; FORMAT INTRO MSG
                           016F  210           SS_CHECK  NORMAL                    ; MAKE SURE IT WORKED
0000003A'EF    00000038'EF 3C 019D  211        MOVZWL    BRDLEN,BRDBUF             ; GET ACTUAL BUFFER LEN INTO DESCRIPTOR
                           01A8  212           $BRDCST_S MSGBUF=BRDBUF             ; SEND INTRO MSG TO ALL TERMINALS
                           01BB  213           SS_CHECK  NORMAL                    ; ... AND CHECK ITS RETURN
                     05    01E9  214           RSB                                 ; RETURN TO MAIN ROUTINE
                           01EA  215 TM_CLEANUP::
    0000003A'EF    50 8F 9A 01EA  216           MOVZBL    #80,BRDBUF               ; MAKE SURE BUFFER HAS ITS MAX LENGTH
                           01F2  217           $FAO_S    CTRSTR=FAOCTRSTR, OUTLEN=BRDLEN, -
                           01F2  218                     OUTBUF=BRDBUF, P1=#EXIT_MSG ; FORMAT EXIT MSG
0000003A'EF    00000038'EF 3C 0211  219        MOVZWL    BRDLEN,BRDBUF             ; GET ACTUAL BUFFER LENGTH INTO DESCRIPTOR
                           021C  220           $BRDCST_S MSGBUF=BRDBUF             ; SEND EXIT MSG TO ALL TERMINALS
                           022F  221           $DELLOG_S LOGNAM=OPDEVLOG, -        ; DELETE LOGICAL NAME CREATED EARLIER
                           022F  222                     TBLFLG=#LOG$C_PROCESS
                  FDBD' 30 0240  223           BSBW      MOD_MSG_PRINT             ; PRINT TEST MODULE END MSG
                     05    0243  224           RSB                                 ; RETURN TO MAIN ROUTINE
```

SATSSS08
V04-000

M 14
SATS SYSTEM SERVICE TESTS $BRDCST (SUCC 16-SEP-1984 00:48:01 VAX/VMS Macro V04-00   Page 8
CONDITION SUBROUTINES - SETUP AND CLEANU 5-SEP-1984 04:30:06 [UETPSY.SRC]SATSSS08.MAR;1   (1)

```
0244   226              .SBTTL  CONDITION SUBROUTINES - SETUP AND CLEANUP
0244   227   ;++
0244   228   ; FUNCTIONAL DESCRIPTION:
0244   229   ;
0244   230   ;           CONDX AND CONDX_CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED
0244   231   ; BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW
0244   232   ; CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON
0244   233   ; ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE
0244   234   ; CONDITION X TABLE IS INCLUDED IN THE CONDX SUBROUTINE AND CLEANED
0244   235   ; UP, IF NECESSARY, IN THE CONDX_CLEANUP SUBROUTINE. THIS INCLUDES,
0244   236   ; ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO
0244   237   ; OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO
0244   238   ; VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE
0244   239   ; (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
0244   240   ;
0244   241   ; CALLING SEQUENCE:
0244   242   ;
0244   243   ;     BSBW CONDX   BSBW CONDX_CLEANUP
0244   244   ;        WHERE X = 1,2,3,4,5
0244   245   ;
0244   246   ; INPUT PARAMETERS:
0244   247   ;
0244   248   ;     CONFLICT = 0
0244   249   ;
0244   250   ; IMPLICIT INPUTS:
0244   251   ;
0244   252   ;     R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0244   253   ;        FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0244   254   ;
0244   255   ; OUTPUT PARAMETERS:
0244   256   ;
0244   257   ;     CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.
0244   258   ;
0244   259   ; IMPLICIT OUTPUTS:
0244   260   ;
0244   261   ;     R2,3,4,5,6 PRESERVED
0244   262   ;
0244   263   ; COMPLETION CODES:
0244   264   ;
0244   265   ;     NONE
0244   266   ;
0244   267   ; SIDE EFFECTS:
0244   268   ;
0244   269   ;     NONE
0244   270   ;
0244   271   ;--
0244   272
0244   273
0244   274
0244   275   COND1::
05  0244   276          RSB                                  ; RETURN TO MAIN ROUTINE
0245   277   COND1_CLEANUP::
05  0245   278          RSB                                  ; RETURN TO MAIN ROUTINE
0246   279   COND2::
05  0246   280          RSB                                  ; RETURN TO MAIN ROUTINE
0247   281   COND2_CLEANUP::
05  0247   282          RSB                                  ; RETURN TO MAIN ROUTINE
```

SATSSS08
V04-000

SATS SYSTEM SERVICE TESTS $BRDCST (SUCC 16-SEP-1984 00:48:01 VAX/VMS Macro V04-00   Page 9
CONDITION SUBROUTINES - SETUP AND CLEANU 5-SEP-1984 04:30:06 [UETPSY.SRC]SATSSS08.MAR;1   (1)

```
        0248   283 COND3::
   05   0248   284         RSB                                      ; RETURN TO MAIN ROUTINE
        0249   285 COND3_CLEANUP::
   05   0249   286         RSB                                      ; RETURN TO MAIN ROUTINE
        024A   287 COND4::
   05   024A   288         RSB                                      ; RETURN TO MAIN ROUTINE
        024B   289 COND4_CLEANUP::
   05   024B   290         RSB                                      ; RETURN TO MAIN ROUTINE
        024C   291 COND5::
   05   024C   292         RSB                                      ; RETURN TO MAIN ROUTINE
        024D   293 COND5_CLEANUP::
   05   024D   294         RSB                                      ; RETURN TO MAIN ROUTINE
```

SATSSS08
V04-000

B 15
SATS SYSTEM SERVICE TESTS $BRDCST (SUCC 16-SEP-1984 00:48:01 VAX/VMS Macro V04-00   Page 10
FORM_CONDS   5-SEP-1984 04:30:06 [UETPSY.SRC]SATSSS08.MAR;1   (1)

```
                                          024E      296                  .SBTTL  FORM_CONDS
                                          024E      297  ;++
                                          024E      298  ; FUNCTIONAL DESCRIPTION:
                                          024E      299  ;
                                          024E      300  ;              FORM_CONDS FORMATS AND PRINTS INFORMATION ABOUT
                                          024E      301  ;  THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
                                          024E      302  ;
                                          024E      303  ; CALLING SEQUENCE:
                                          024E      304  ;
                                          024E      305  ;     BSBW FORM_CONDS
                                          024E      306  ;
                                          024E      307  ; INPUT PARAMETERS:
                                          024E      308  ;
                                          024E      309  ;     NONE
                                          024E      310  ;
                                          024E      311  ; IMPLICIT INPUTS:
                                          024E      312  ;
                                          024E      313  ;     R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
                                          024E      314  ;        FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
                                          024E      315  ;     FOR X = 1,2,3,4,5 :
                                          024E      316  ;              CONDX_T - TITLE TEXT FOR CONDX TABLE
                                          024E      317  ;              CONDX_TAB - ELEMENT TEXT FOR CONDX TABLE
                                          024E      318  ;              CONDX_C - CONTEXT OF THE CONDX TABLE
                                          024E      319  ;              CONDX_E - DATA ELEMENTS OF THE CONDX TABLE
                                          024E      320  ;
                                          024E      321  ; OUTPUT PARAMETERS:
                                          024E      322  ;
                                          024E      323  ;     NONE
                                          024E      324  ;
                                          024E      325  ; IMPLICIT OUTPUTS:
                                          024E      326  ;
                                          024E      327  ;     NONE
                                          024E      328  ;
                                          024E      329  ; COMPLETION CODES:
                                          024E      330  ;
                                          024E      331  ;     NONE
                                          024E      332  ;
                                          024E      333  ; SIDE EFFECTS:
                                          024E      334  ;
                                          024E      335  ;     NONE
                                          024E      336  ;
                                          024E      337  ;--
                                          024E      338
                                          024E      339
                                          024E      340  FORM_CONDS::
                                          024E      341        $FAO_S  MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
                                          026D      342                                        ; FORMAT CONDITIONS HEADER MSG
                             FD90'   30   026D      344        BSBW    OUTPUT_MSG              ; ... AND PRINT IT
                        14   00    91     0270      345        CMPB    #COND1_C,#NULL          ; IS CONDITION 1 NULL ?
                             03    12      0273      346        BNEQU   10$                     ; NO -- CONTINUE
                             00BF  31      0275      347        BRW     FORM_CONDSX            ; YES -- SUBROUTINE IS FINISHED
                                          0278      348  10$:
     00000000'EF    00000092'EF    DE     0278      349        MOVAL   COND1_T,MSG_A           ; SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO
     00000000'EF  000000A2'EF42    DO     0283      350        MOVL    COND1_TAB[R2],MSG_B     ; SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAO
     00000000'EF    00    90              028F      351        MOVB    #CONDT_C,MSG_CTXT       ; SAVE CONDITION 1 CONTEXT FOR FAO
                                          0296      352        MOV_VAL COND1_C,CONDT_E[R2],MSG_DATA1 ; GIVE COND 1 DATA VALUE TO FAO
```

```
                   FD67'   30  0296  353            BSBW    WRITE_MSG2                  ; FORMAT AND WRITE CONDITION 1 MSG
              14    00     91  0299  354            CMPB    #COND2_C,#NULL              ; IS CONDITION 2 NULL ?
                    03     12  029C  355            BNEQU   20$                         ; NO -- CONTINUE
                    0096   31  029E  356            BRW     FORM_CONDSX                 ; YES -- SUBROUTINE IS FINISHED
                               02A1  357  20$:
00000000'EF   000000E3'EF   DE  02A1  358            MOVAL   COND2_T,MSG_A               ; SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO
00000000'EF   000000FA'EF43 D0  02AC  359            MOVL    COND2_TAB[R3],MSG_B         ; SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO
00000000'EF        00     90  02B8  360            MOVB    #COND2_C,MSG_CTXT           ; SAVE CONDITION 2 CONTEXT FOR FAO
                               02BF  361            MOV_VAL COND2_C,COND2_E[R3],MSG_DATA1 ; GIVE COND 2 DATA VALUE TO FAO
                   FD3E'   30  02BF  362            BSBW    WRITE_MSG2                  ; FORMAT AND WRITE CONDITION 2 MSG
              14    14     91  02C2  363            CMPB    #COND3_C,#NULL              ; IS CONDITION 3 NULL ?
                    03     12  02C5  364            BNEQU   30$                         ; NO -- CONTINUE
                    006D   31  02C7  365            BRW     FORM_CONDSX                 ; YES -- SUBROUTINE IS FINISHED
                               02CA  366  30$:
00000000'EF   00000194'EF   DE  02CA  367            MOVAL   COND3_T,MSG_A               ; SAVE ADDRESS OF CONDITION 3 TITLE FOR FAO
00000000'EF   00000194'EF44 D0  02D5  368            MOVL    COND3_TAB[R4],MSG_B         ; SAVE ADDR OF COND 3 CURR TEXT ELT FOR FAO
00000000'EF        14     90  02E1  369            MOVB    #COND3_C,MSG_CTXT           ; SAVE CONDITION 3 CONTEXT FOR FAO
                               02E8  370            MOV_VAL COND3_C,COND3_E[R4],MSG_DATA1 ; GIVE COND 3 DATA VALUE TO FAO
                   FD15'   30  02E8  371            BSBW    WRITE_MSG2                  ; FORMAT AND WRITE CONDITION 3 MSG
              14    14     91  02EB  372            CMPB    #COND4_C,#NULL              ; IS CONDITION 4 NULL ?
                    47     13  02EE  373            BEQLU   FORM_CONDSX                 ; YES -- SUBROUTINE IS FINISHED
00000000'EF   00000195'EF   DE  02F0  374            MOVAL   COND4_T,MSG_A               ; SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO
00000000'EF   00000195'EF45 D0  02FB  375            MOVL    COND4_TAB[R5],MSG_B         ; SAVE ADDR OF COND 4 CURR TEXT ELT FOR FAO
00000000'EF        14     90  0307  376            MOVB    #COND4_C,MSG_CTXT           ; SAVE CONDITION 4 CONTEXT FOR FAO
                               030E  377            MOV_VAL COND4_C,COND4_E[R5],MSG_DATA1 ; GIVE COND 4 DATA VALUE TO FAO
                   FCEF'   30  030E  378            BSBW    WRITE_MSG2                  ; FORMAT AND WRITE CONDITION 4 MSG
              14    14     91  0311  379            CMPB    #COND5_C,#NULL              ; IS CONDITION 5 NULL ?
                    21     13  0314  380            BEQLU   FORM_CONDSX                 ; YES -- SUBROUTINE IS FINISHED
00000000'EF   00000196'EF   DE  0316  381            MOVAL   COND5_T,MSG_A               ; SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
00000000'EF   00000196'EF46 D0  0321  382            MOVL    COND5_TAB[R6],MSG_B         ; SAVE ADDR OF COND 5 CURR TEXT ELT FOR FAO
00000000'EF        14     90  032D  383            MOVB    #COND5_C,MSG_CTXT           ; SAVE CONDITION 5 CONTEXT FOR FAO
                               0334  384            MOV_VAL COND5_C,COND5_E[R6],MSG_DATA1 ; GIVE COND 5 DATA VALUE TO FAO
                   FCC9'   30  0334  385            BSBW    WRITE_MSG2                  ; FORMAT AND WRITE CONDITION 5 MSG
                         0337  386  FORM_CONDSX:
                    05   0337  387            RSB                                       ; RETURN TO CALLER
```

SATSSS08
V04-000

D 15
SATS SYSTEM SERVICE TESTS $BRDCST (SUCC 16-SEP-1984 00:48:01 VAX/VMS Macro V04-00   Page 12
VERIFY   5-SEP-1984 04:30:06   [UETPSY.SRC]SATSSS08.MAR;1   (1)

```
0338   389          .SBTTL  VERIFY
0338   390    ;++
0338   391    ; FUNCTIONAL DESCRIPTION:
0338   392    ;
0338   393    ;          VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION
0338   394    ; TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR
0338   395    ; COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS
0338   396    ; SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE
0338   397    ; ($BRDCST). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED
0338   398    ; BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS
0338   399    ; AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF
0338   400    ; COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN
0338   401    ; ERR_EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY,
0338   402    ; THROUGH THE SS_CHECK MACRO); ERR_EXIT SETS EFLAG TO NON-ZERO,
0338   403    ; PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER.
0338   404    ; WHEN ERR_EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED,
0338   405    ; AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.
0338   406    ;
0338   407    ; CALLING SEQUENCE:
0338   408    ;
0338   409    ;      BSBW VERIFY
0338   410    ;
0338   411    ; INPUT PARAMETERS:
0338   412    ;
0338   413    ;      NONE
0338   414    ;
0338   415    ; IMPLICIT INPUTS:
0338   416    ;
0338   417    ;      R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0338   418    ;        FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0338   419    ;      FOR X = 1,2,3,4,5 :
0338   420    ;             CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
0338   421    ;               TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
0338   422    ;               ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
0338   423    ;               FOR CONDX_E.
0338   424    ;
0338   425    ; OUTPUT PARAMETERS:
0338   426    ;
0338   427    ;      NONE
0338   428    ;
0338   429    ; IMPLICIT OUTPUTS:
0338   430    ;
0338   431    ;      VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS,
0338   432    ;      IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING
0338   433    ;      ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA
0338   434    ;      AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED
0338   435    ;      ERRORS.
0338   436    ;
0338   437    ; COMPLETION CODES:
0338   438    ;
0338   439    ;      EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0338   440    ;
0338   441    ; SIDE EFFECTS:
0338   442    ;
0338   443    ;      SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
0338   444    ;      (VIA RSB) IF ERROR ENCOUNTERED.
0338   445    ;
```

```
                        0338    446 ;--
                        0338    447
                        0338    448
                        0338    449
                        0338    450 VERIFY::
        00000000'EF  95 0338    451         TSTB    CFLAG                    ; SHOULD CONDITIONS BE PRINTED ?
                  03  13 033E    452         BEQL    5$                       ; NO -- CONTINUE
                FF0B  30 0340    453         BSBW    FORM_CONDS               ; YES -- FMT & PRINT ALL CONDS FOR THIS T.C.
                        0343    454 5$:
00000030'EF 000000DF'EF42 9A 0343 455        MOVZBL  COND1_E[R2],TERM_DESCR   ; GET LENGTH INTO DESCRIPTOR
      59 00000184'EF43 DO 034F 456            MOVL    COND2_E[R3],R9           ; GET DEVNAM ARG INTO REG FOR INDIRECT REF
                        0357    457 ;
                        0357    458 ; ****** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE ******
                        0357    459 ;
                        0357    460         $BRDCST_S MSGBUF=TERM_DESCR, DEVNAM=(R9)
        00000000'8F  50 D1 036A 461         CMPL    RO,#SS$_NORMAL           ; CODE RECEIVED = CODE EXPECTED ?
                  61  13 0371  462           BEQLU   VERIFYX                  ; YES -- CONTINUE
00000000'EF  00000000'8F DO 0373 463         MOVL    #SS$_NORMAL,EXPV         ; NO -- LOAD UP EXPECTED AND ...
00000000'EF  50 DO 037E 464                  MOVL    RO,RECV                  ; ... RECEIVED VALUES, THEN EXIT
                        0385    465         ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM BRDCST>
                        03D4    466 VERIFYX:
                     05 03D4    467         RSB                              ; RETURN TO CALLER
```

SATSSS08
V04-000

F 15
SATS SYSTEM SERVICE TESTS $BRDCST (SUCC 16-SEP-1984 00:48:01 VAX/VMS Macro V04-00   Page 14
VFY_CLEANUP   5-SEP-1984 04:30:06 [UETPSY.SRC]SATSSS08.MAR;1   (1)

```
          03D5    469              .SBTTL  VFY_CLEANUP
          03D5    470  ;++
          03D5    471  ; FUNCTIONAL DESCRIPTION:
          03D5    472  ;
          03D5    473  ;            VFY_CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE
          03D5    474  ; EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY_CLEANUP MUST
          03D5    475  ; ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN
          03D5    476  ; ERROR IS FOUND). ALSO, VFY_CLEANUP MAY ISSUE SS_CHECK OR ERR_EXIT
          03D5    477  ; ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED
          03D5    478  ; IN THE EVENT THAT VFY_CLEANUP IS CALLED DURING ERROR PROCESSING,
          03D5    479  ; WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN
          03D5    480  ; POSSIBLY DISCOVERING A SECOND ERROR.
          03D5    481  ;
          03D5    482  ; CALLING SEQUENCE:
          03D5    483  ;
          03D5    484  ;       BSBW VFY_CLEANUP
          03D5    485  ;
          03D5    486  ; INPUT PARAMETERS:
          03D5    487  ;
          03D5    488  ;       NONE
          03D5    489  ;
          03D5    490  ; IMPLICIT INPUTS:
          03D5    491  ;
          03D5    492  ;       R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
          03D5    493  ;          FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
          03D5    494  ;       FOR X = 1,2,3,4,5 :
          03D5    495  ;          CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
          03D5    496  ;             TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
          03D5    497  ;             ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
          03D5    498  ;             FOR CONDX_E.
          03D5    499  ;
          03D5    500  ; OUTPUT PARAMETERS:
          03D5    501  ;
          03D5    502  ;       NONE
          03D5    503  ;
          03D5    504  ; IMPLICIT OUTPUTS:
          03D5    505  ;
          03D5    506  ;       NONE
          03D5    507  ;
          03D5    508  ; COMPLETION CODES:
          03D5    509  ;
          03D5    510  ;       EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
          03D5    511  ;
          03D5    512  ; SIDE EFFECTS:
          03D5    513  ;
          03D5    514  ;       SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
          03D5    515  ;       (VIA RSB) IF ERROR ENCOUNTERED.
          03D5    516  ;
          03D5    517  ;--
          03D5    518
          03D5    519
          03D5    520  VFY_CLEANUP::
          03D5    521  VFY_CLEANUP::
       05 03D5    522       RSB                              ; RETURN TO CALLER
          03D6    523       .END
```

SATSSS08
Symbol table

G 15
SATS SYSTEM SERVICE TESTS $BRDCST (SUCC 16-SEP-1984 00:48:01 VAX/VMS Macro V04-00
                                  5-SEP-1984 04:30:06 [UETPSY.SRC]SATSSS08.MAR;1

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(1)

Symbol	Value	Flags	#	Symbol	Value	Flags	#
$$$$	= 0000038F	R	04	FAOCTRSTR	0000000A	R	03
$$$CHARS	= 0000002A			FAO_DESC	********	X	04
$$$CHARS1	= 0000000D			FAO_LEN	********	X	04
$$$CHARS2	= 00000024			FORM_CONDS	0000024E	RG	04
$$$CHARS3	= 00000022			FORM_CONDSX	00000337	R	04
$$$CHARS4	= 00000023			INTRO_MSG	00000051	R	02
$$$CHARS5	= 00000000			LOG$C_PROCESS	= 00000002		
$$$COND_A	= 00000003			LONG	= 00000004	G	
$$$STRINGS	= 00000001			MOD_MSG_CODE	********	X	04
$$$STRINGS2	= 00000005			MOD_MSG_PRINT	********	X	04
$$T1	= 00000000			MSGT_INP_CTL	00000019	R	02
$$T2	= 00000004			MSG3_ERR_CTL	00000039	RG	02
BRDBUF	0000003A	R	03	MSG_A	********	X	04
BRDLEN	00000038	R	03	MSG_B	********	X	04
BYTE	= 00000001	G		MSG_CTXT	********	X	04
CFLAG	********	X	04	NOTARG	= 00000000	G	
CHMRTN	********	X	04	NULL	= 00000014	G	
CHM_CONT	********	X	04	OPDEV	000001D8	R	02
COMP_SC	********	X	04	OPDEVLOG	000001E5	R	02
CONDT	00000244	RG	04	OUTPUT_MSG	********	X	04
COND1_C	= 00000000			PCV	********	X	04
COND1_CLEANUP	00000245	RG	04	PHD$Q_PRIVMSK	= 00000000		
COND1_E	000000DF	R	03	PRIVMASK	00000000	R	03
COND1_H	000000A1	RG	03	PRIV_ARGS	= 00000002		
COND1_T	00000092	R	03	PROCESS_ERR	********	X	04
COND1_TAB	000000A2	R	03	QUAD	= 00000008	G	
COND2	00000246	RG	04	RECV	********	X	04
COND2_C	= 00000000			REST_REGS	********	X	04
COND2_CLEANUP	00000247	RG	04	SAVE_REGS	********	X	04
COND2_E	00000184	R	03	SHR$R_SHRDEF	= 00000001		
COND2_H	000000F9	RG	03	SHR$_TEXT	= 00001130		
COND2_T	000000E3	R	03	SS$_NORMAL	********	X	04
COND2_TAB	000000FA	R	03	SUCCESS	********	X	04
COND3	00000248	RG	04	SYS$BRDCST	********	GX	04
COND3_C	= 00000014			SYS$CMKRNL	********	GX	04
COND3_CLEANUP	00000249	RG	04	SYS$CRELOG	********	GX	04
COND3_H	00000194	RG	03	SYS$DELLOG	********	GX	04
COND3_T	00000194	R	03	SYS$FAO	********	X	04
COND3_TAB	00000194	R	03	SYS$GETMSG	********	GX	04
COND4	0000024A	RG	04	SYS$SETPRN	********	GX	04
COND4_C	= 00000014			SYS$SETPRV	********	GX	04
COND4_CLEANUP	0000024B	RG	04	TERM_DATA	000000D6	R	02
COND4_H	00000195	RG	03	TERM_DESCR	00000030	R	03
COND4_T	00000195	R	03	TESTNUM	********	X	04
COND4_TAB	00000195	R	03	TEST_MOD_NAME	00000000	RG	02
COND5	0000024C	RG	04	TEST_MOD_NAME_D	00000009	R	02
COND5_C	= 00000014			TEST_MOD_SUCC	********	X	04
COND5_CLEANUP	0000024D	RG	04	TMD_ADDR	********	X	04
COND5_H	00000196	RG	03	TM_CLEANUP	000001EA	RG	04
COND5_T	00000196	R	03	TM_SETUP	00000000	RG	04
COND5_TAB	00000196	R	03	UETP$_TEXT	= 00741133		
CTL$GL_PHD	********	X	04	VERIFY	00000338	RG	04
CTRSTRLEN	00000008	R	03	VERIFYX	000003D4	R	04
DESC	= 00000010	G		VFY_CLEANUP	000003D5	RG	04
EFLAG	********	X	04	WORD	= 00000002	G	
EXIT_MSG	0000009A	R	02	WRITE_MSG2	********	X	04
EXPV	********	X	04	ZERODESC	000001D0	R	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
$ABS$                         00000000 (      0.)   01 (  1.)  NOPIC  USR  CON  ABS  LCL NOSHR   EXE  RD     WRT NOVEC BYTE
RODATA                        000001F8 (    504.)   02 (  2.)  NOPIC  USR  CON  REL  LCL NOSHR NOEXE  RD   NOWRT NOVEC LONG
RWDATA                        00000197 (    407.)   03 (  3.)  NOPIC  USR  CON  REL  LCL NOSHR NOEXE  RD     WRT NOVEC LONG
SATSSS08                      000003D6 (    982.)   04 (  4.)  NOPIC  USR  CON  REL  LCL NOSHR   EXE  RD     WRT NOVEC BYTE

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

Phase                    Page faults    CPU Time      Elapsed Time
-----                    -----------    --------      ------------
Initialization                35       00:00:00.06    00:00:00.28
Command processing           132       00:00:00.62    00:00:01.72
Pass 1                       266       00:00:07.80    00:00:15.28
Symbol table sort              0       00:00:00.61    00:00:00.84
Pass 2                       110       00:00:01.95    00:00:04.26
Symbol table output           14       00:00:00.10    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         561       00:00:11.18    00:00:22.55
```

The working set limit was 1500 pages.
40969 bytes (81 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 431 non-local and 26 local symbols.
523 source lines were read in Pass 1, producing 23 object records in Pass 2.
41 pages of virtual memory were used to define 31 macros.

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

Macro library name                              Macros defined
------------------                              --------------
_$255$DUA28:[SHRLIB]UETP.MLB;1                        10
_$255$DUA28:[SYS.OBJ]LIB.MLB;1                         2
_$255$DUA28:[SYSLIB]STARLET.MLB;2                     16
TOTALS (all libraries)                               28
```

806 GETS were required to define 28 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS$:SATSSS08/OBJ=OBJ$:SATSSS08 MSRC$:SATSSS08/UPDATE=(ENH$:SATSSS08)+EXECML$/LIB+SHRLIB$:UETP/LIB