```
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
```

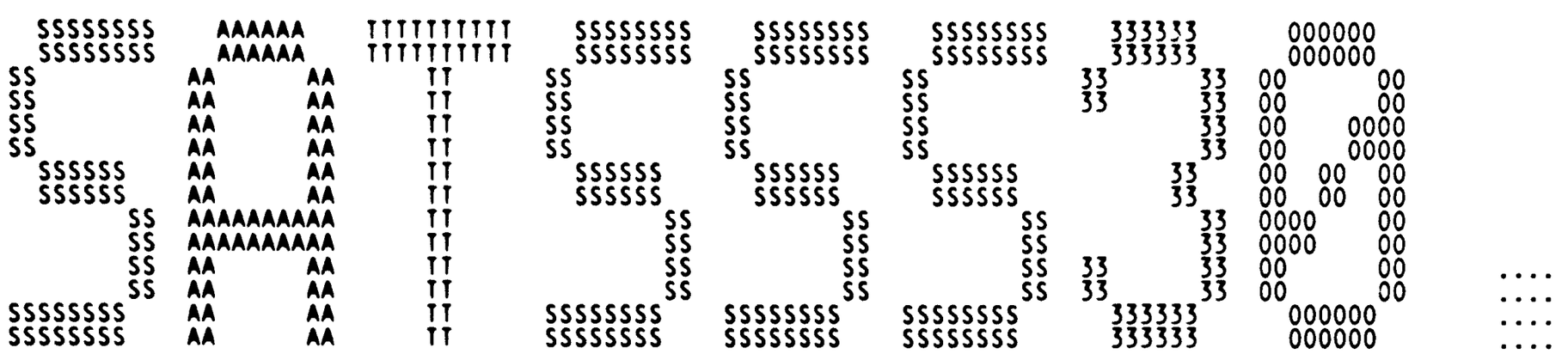
SSSSSSSS AAAAAA TTTTTTTTTT SSSSSSSS SSSSSSSS SSSSSSSS 333333 000000
SSSSSSSS AAAAAA TTTTTTTTTT SSSSSSSS SSSSSSSS SSSSSSSS 333333 000000
SS AA AA TT SS SS SS 33 33 00 00
SS AA AA TT SS SS SS 33 33 00 00
SS AA AA TT SS SS SS 33 00 0000
SS AA AA TT SS SS SS 33 00 0000
SSSSSS AA AA TT SSSSSS SSSSSS SSSSSS 33 00 00 00
SSSSSS AA AA TT SSSSSS SSSSSS SSSSSS 33 00 00 00
SS AAAAAAAAAA TT SS SS SS 33 0000 00
SS AAAAAAAAAA TT SS SS SS 33 0000 00
SS AA AA TT SS SS SS 33 33 00 00
SS AA AA TT SS SS SS 33 33 00 00
SSSSSSSS AA AA TT SSSSSSSS SSSSSSSS SSSSSSSS 333333 000000
SSSSSSSS AA AA TT SSSSSSSS SSSSSSSS SSSSSSSS 333333 000000
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  SATSSS30 SATS SYSTEM SERVICE TESTS  $CRELOG,$DELLOG (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 SATSSS30 TO TEST SUCCESSFUL
0000    36  ; OPERATION OF THE $CRELOG AND $DELLOG SYSTEM SERVICES. THE SERVICES ARE INVOKED
0000    37  ; UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY
0000    38  ; SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE.  CORRECT
0000    39  ; OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY
0000    40  ; CHECKING FOR AN SS$_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: MAR, 1977
0000    47  ;
0000    48  ; MODIFIED BY:
0000    49  ;
0000    50  ;               VERSION 1.50 : 25-MAY-79
0000    51  ;
0000    52  ; 01  LDJ  08/17/79     Added code to test for $DELLOG system service.
0000    53  ;--
```

```
0000     55          .SBTTL  DECLARATIONS
0000     56 ;
0000     57 ; INCLUDE FILES:
0000     58 ;
0000     59          $PRVDEF                         ; PRIVILEGE BIT DEFINITIONS
0000     60          $PHDDEF                         ; PROCESS HEADER OFFSETS
0000     61          $LOGDEF                         ; LOGICAL NAME TABLE DEFINITIONS
0000     62          $PSLDEF                         ; PROCESSOR STATUS LONGWORD DEFINITIONS
0000     63 ;
0000     64 ; MACROS:
0000     65 ;
0000     66 ;
0000     67 ; EQUATED SYMBOLS:
0000     68 ;
0000     69 ;
0000     70 ; OWN STORAGE:
0000     71 ;
```

```
                                                L 6
                00000000     73          .PSECT  RODATA,RD,NOWRT,NOEXE,LONG
                    0000     74 TEST_MOD_NAME:: STRING  C,<SATSSS30>     ; TEST MODULE NAME
                    0009     75 TEST_MOD_NAME_D: STRING I,<SATSSS30>     ; TEST MODULE NAME DESCRIPTOR
                    0019     76 MSG1_INP_CTL:   STRING  I,<  SSCLN.4ZW: CONDITIONS:>
                    0039     77                                          ; FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
                    0039     78 MSG3_ERR_CTL::  STRING  I,< *SSCLN!4ZW: !AS>
                    0051     79                                          ; FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR
00000002            0051     80 EQLNAM:         .LONG   2                ; EQLNAM ARGUMENT FOR
00000000'           0055     81                 .ADDRESS TESTNUM         ; ... SUBJECT SYSTEM SERVICE
00000004            0059     82 LOGNAM:         .LONG   4                ; LOGNAM ARGUMENT FOR
00000096'           005D     83                 .ADDRESS COMTN           ; ... SUBJECT SYSTEM SERVICE
```

```
                00000000     85          .PSECT  RWDATA,RD,WRT,NOEXE,LONG
00000008  0000  86 PRIVMASK:               .BLKQ   1               ; ADDR OF PRIVILEGE MASK (IN PHD)
0000000A  0008  87 RSLLEN_TLN:             .BLKW   1               ; RSLLEN ARGUMENT FOR $TRNLOG
          000A  88 RSLBUF_TLN:             STRING  0,130           ; RSLBUF ARGUMENT FOR $TRNLOG
00000095  0094  89 TABLE_TLN:              .BLKB   1               ; TABLE ARGUMENT FOR $TRNLOG
00000096  0095  90 ACMODE_TLN:             .BLKB   1               ; ACMODE ARGUMENT FOR $TRNLOG
00000000  0096  91 COMTN:                  .LONG   0               ; COMPLEMENTED TESTNUM (USED AS LOGNAM)
```

```
                        009A     93          .SBTTL  CONDITION TABLES
                        009A     94 ;
                        009A     95 ;       ***** CONDITION TABLES FOR CRELOG SYSTEM SERVICE *****
                        009A     96 ;
                        009A     97          COND    1,LONG,<TBLFLG>,-
                        009A     98                    <SYSTEM TABLE>,-
                        009A     99                    <GROUP TABLE>,-
                        009A    100                    <PROCESS TABLE>,-
                        009A    101
00000000                00D5    102                      .LONG       LOG$C_SYSTEM
00000001                00D9    103                      .LONG       LOG$C_GROUP
00000002                00DD    104                      .LONG       LOG$C_PROCESS
                        00E1    105 ;
                        00E1    106          COND    2,NOTARG,<PREVIOUS STATUS OF LOGICAL NAME>,-
                        00E1    107                    <ALREADY EXISTS>,-
                        00E1    108                    <NON-EXISTENT>,-
                        00E1    109
00000000'               0126    110                      .LONG       SS$_SUPERSEDE
00000000'               012A    111                      .LONG       SS$_NORMAL
                        012E    112 ;
                        012E    113          COND    3,LONG,<ACMODE>,-
                        012E    114                    <KERNEL>,-
                        012E    115                    <EXEC>,-
                        012E    116                    <SUPER>,-
                        012E    117                    <USER>,-
                        012E    118
00000000                015D    119                      .LONG       PSL$C_KERNEL
00000001                0161    120                      .LONG       PSL$C_EXEC
00000002                0165    121                      .LONG       PSL$C_SUPER
00000003                0169    122                      .LONG       PSL$C_USER
                        016D    123 ;
                        016D    124          COND    4,NULL
                        016E    125
                        016E    126          COND    5,NULL
                        016F    127
00000000                        128          .PSECT  SATSSS30,RD,WRT,EXE
```

```
                        0000   130          .SBTTL  TM_SETUP, TM_CLEANUP
                        0000   131 ;++
                        0000   132 ; FUNCTIONAL DESCRIPTION:
                        0000   133 ;
                        0000   134 ;               TM_SETUP AND TM_CLEANUP ARE CALLED TO PERFORM
                        0000   135 ; REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF
                        0000   136 ; TEST MODULE EXECUTION.
                        0000   137 ;
                        0000   138 ; CALLING SEQUENCE:
                        0000   139 ;
                        0000   140 ;       BSBW TM_SETUP   BSBW TM_CLEANUP
                        0000   141 ;
                        0000   142 ; INPUT PARAMETERS:
                        0000   143 ;
                        0000   144 ;       NONE
                        0000   145 ;
                        0000   146 ; IMPLICIT INPUTS:
                        0000   147 ;
                        0000   148 ;       NONE
                        0000   149 ;
                        0000   150 ; OUTPUT PARAMETERS:
                        0000   151 ;
                        0000   152 ;       NONE
                        0000   153 ;
                        0000   154 ; IMPLICIT OUTPUTS:
                        0000   155 ;
                        0000   156 ;       TM_SETUP:  COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED;
                        0000   157 ;                  ALL PRIVILEGES ACQUIRED.
                        0000   158 ;
                        0000   159 ; COMPLETION CODES:
                        0000   160 ;
                        0000   161 ;       EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
                        0000   162 ;
                        0000   163 ; SIDE EFFECTS:
                        0000   164 ;
                        0000   165 ;       SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
                        0000   166 ;       (VIA RSB) IF ERROR ENCOUNTERED.
                        0000   167 ;
                        0000   168 ;--
                        0000   169
                        0000   170
                        0000   171
                        0000   172 TM_SETUP::
                  52    D4    0000   173          CLRL    R2                      ; INITIALIZE
                  53    D4    0002   174          CLRL    R3                      ; .. CONDITION
                  54    D4    0004   175          CLRL    R4                      ; .... TABLE
                  55    D4    0006   176          CLRL    R5                      ; ...... INDEX
                  56    D4    0008   177          CLRL    R6                      ; ........ REGISTERS
              FFF3'   30    000A   178          BSBW    MOD_MSG_PRINT           ; PRINT TEST MODULE BEGIN MSG
00000000'EF   00000000'EF   DE    000D   179          MOVAL   TEST_MOD_SUCC,TMD_ADDR  ; ASSUME END MSG WILL SHOW SUCCESS
   03   00   00000000'8F    F0    0018   180          INSV    #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
             00000000'EF          0020
                        0025   181          MODE    TO,S$,KRNL              ; KERNEL MODE TO ACCESS PHD
         59   00000000'9F    D0    0048   182          MOVL    @#CTL$GL_PHD,R9         ; GET PROCESS HEADER ADDRESS
         00000000'EF   69    DE    004F   183          MOVAL   PHD$Q_PRIVMSK(R9),PRIVMASK ; GET PRIV MASK ADDRESS
                              0056   184          MODE    FROM,S$ ; BACK TO USER MODE
                              0057   185          PRIV    ADD,AL_                 ; GET ALL PRIVILEGES
```

```
                     0077   186          $SETPRN_S TEST_MOD_NAME_D       ; SET PROCESS NAME
                     0084   187          SS_CHECK  NORMAL                ; CHECK STATUS CODE RETURNED FROM SETPRN
                  05 00B2   188          RSB                             ; RETURN TO MAIN ROUTINE
                     00B3   189 TM_CLEANUP::
            FF4A' 30 00B3   190          BSBW    MOD_MSG_PRINT           ; PRINT TEST MODULE END MSG
                  05 00B6   191          RSB                             ; RETURN TO MAIN ROUTINE
```

```
                        00B7   193          .SBTTL  CONDITION SUBROUTINES - SETUP AND CLEANUP
                        00B7   194 ;++
                        00B7   195 ; FUNCTIONAL DESCRIPTION:
                        00B7   196 ;
                        00B7   197 ;                    CONDX AND CONDX_CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED
                        00B7   198 ; BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW
                        00B7   199 ; CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON
                        00B7   200 ; ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE
                        00B7   201 ; CONDITION X TABLE IS INCLUDED IN THE CONDX SUBROUTINE AND CLEANED
                        00B7   202 ; UP, IF NECESSARY, IN THE CONDX_CLEANUP SUBROUTINE. THIS INCLUDES,
                        00B7   203 ; ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO
                        00B7   204 ; OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO
                        00B7   205 ; VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE
                        00B7   206 ; (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
                        00B7   207 ;
                        00B7   208 ; CALLING SEQUENCE:
                        00B7   209 ;
                        00B7   210 ;       BSBW CONDX   BSBW CONDX_CLEANUP
                        00B7   211 ;         WHERE X = 1,2,3,4,5
                        00B7   212 ;
                        00B7   213 ; INPUT PARAMETERS:
                        00B7   214 ;
                        00B7   215 ;       CONFLICT = 0
                        00B7   216 ;
                        00B7   217 ; IMPLICIT INPUTS:
                        00B7   218 ;
                        00B7   219 ;       R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
                        00B7   220 ;         FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
                        00B7   221 ;
                        00B7   222 ; OUTPUT PARAMETERS:
                        00B7   223 ;
                        00B7   224 ;       CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.
                        00B7   225 ;
                        00B7   226 ; IMPLICIT OUTPUTS:
                        00B7   227 ;
                        00B7   228 ;       R2,3,4,5,6 PRESERVED
                        00B7   229 ;
                        00B7   230 ; COMPLETION CODES:
                        00B7   231 ;
                        00B7   232 ;       NONE
                        00B7   233 ;
                        00B7   234 ; SIDE EFFECTS:
                        00B7   235 ;
                        00B7   236 ;       NONE
                        00B7   237 ;
                        00B7   238 ;--
                        00B7   239
                        00B7   240
                        00B7   241
                        00B7   242 COND1::
                  05    00B7   243          RSB                             ; RETURN TO MAIN ROUTINE
                        00B8   244 COND1_CLEANUP::
                  05    00B8   245          RSB                             ; RETURN TO MAIN ROUTINE
                        00B9   246 COND2::
                  05    00B9   247          RSB                             ; RETURN TO MAIN ROUTINE
                        00BA   248 COND2_CLEANUP::
                  05    00BA   249          RSB                             ; RETURN TO MAIN ROUTINE
```

```
                00BB   250 COND3::
 05             00BB   251          RSB                         ; RETURN TO MAIN ROUTINE
                00BC   252 COND3_CLEANUP::
 05             00BC   253          RSB                         ; RETURN TO MAIN ROUTINE
                00BD   254 COND4::
 05             00BD   255          RSB                         ; RETURN TO MAIN ROUTINE
                00BE   256 COND4_CLEANUP::
 05             00BE   257          RSB                         ; RETURN TO MAIN ROUTINE
                00BF   258 COND5:.
 05             00BF   259          RSB                         ; RETURN TO MAIN ROUTINE
                00C0   260 COND5_CLEANUP::
 05             00C0   261          RSB                         ; RETURN TO MAIN ROUTINE
```

```
                                00C1   263          .SBTTL  FORM_CONDS
                                00C1   264 ;++
                                00C1   265 ; FUNCTIONAL DESCRIPTION:
                                00C1   266 ;
                                00C1   267 ;                FORM_CONDS FORMATS AND PRINTS INFORMATION ABOUT
                                00C1   268 ;  THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
                                00C1   269 ;
                                00C1   270 ; CALLING SEQUENCE:
                                00C1   271 ;
                                00C1   272 ;       BSBW FORM_CONDS
                                00C1   273 ;
                                00C1   274 ; INPUT PARAMETERS:
                                00C1   275 ;
                                00C1   276 ;       NONE
                                00C1   277 ;
                                00C1   278 ; IMPLICIT INPUTS:
                                00C1   279 ;
                                00C1   280 ;       R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
                                00C1   281 ;         FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
                                00C1   282 ;       FOR X = 1,2,3,4,5 :
                                00C1   283 ;               CONDX_T - TITLE TEXT FOR CONDX TABLE
                                00C1   284 ;               CONDX_TAB - ELEMENT TEXT FOR CONDX TABLE
                                00C1   285 ;               CONDX_C - CONTEXT OF THE CONDX TABLE
                                00C1   286 ;               CONDX_E - DATA ELEMENTS OF THE CONDX TABLE
                                00C1   287 ;
                                00C1   288 ; OUTPUT PARAMETERS:
                                00C1   289 ;
                                00C1   290 ;       NONE
                                00C1   291 ;
                                00C1   292 ; IMPLICIT OUTPUTS:
                                00C1   293 ;
                                00C1   294 ;       NONE
                                00C1   295 ;
                                00C1   296 ; COMPLETION CODES:
                                00C1   297 ;
                                00C1   298 ;       NONE
                                00C1   299 ;
                                00C1   300 ; SIDE EFFECTS:
                                00C1   301 ;
                                00C1   302 ;       NONE
                                00C1   303 ;
                                00C1   304 ;--
                                00C1   305
                                00C1   306
                                00C1   307
                                00C1   308 FORM_CONDS::
                                00C1   309          $FAO_S  MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
                                00E0   310                                                  ; FORMAT CONDITIONS HEADER MSG
                          FF1D'  30    00E0   311          BSBW    OUTPUT_MSG               ; ... AND PRINT IT
                       14   04  91    00E3   312          CMPB    #COND1_C,#NULL           ; IS CONDITION 1 NULL ?
                            03  12    00E6   313          BNEQU   10$                      ; NO -- CONTINUE
                           00D7  31    00E8   314          BRW     FORM_CONDSX              ; YES -- SUBROUTINE IS FINISHED
                                       00EB   315 10$:
  00000000'EF    0000009A'EF   DE      00EB   316          MOVAL   COND1_T,MSG_A            ; SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO
00000000'EF    000000A2'EF42   D0      00F6   317          MOVL    COND1_TAB[R2],MSG_B      ; SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAO
            00000000'EF    04  90      0102   318          MOVB    #COND1_C,MSG_CTXT        ; SAVE CONDITION 1 CONTEXT FOR FAO
                                       0109   319          MOV_VAL COND1_C,COND1_E[R2],MSG_DATA1 ; GIVE COND 1 DATA VALUE TO FAO
```

```
                     FEE8'   30  0115   320          BSBW    WRITE_MSG2                      ; FORMAT AND WRITE CONDITION 1 MSG
                14   00      91  0118   321          CMPB    #COND2_C,#NULL                  ; IS CONDITION 2 NULL ?
                     03      12  011B   322          BNEQU   20$                             ; NO -- CONTINUE
                     00A2    31  011D   323          BRW     FORM_CONDSX                     ; YES -- SUBROUTINE IS FINISHED
                             0120   324 20$:
  00000000'EF   000000E1'EF  DE  0120   325          MOVAL   COND2_T,MSG_A                   ; SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO
00000000'EF   00000102'EF43  D0  0128   326          MOVL    COND2_TAB[R3],MSG_B             ; SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO
        00000000'EF   00     90  0137   327          MOVB    #COND2_C,MSG_CTXT               ; SAVE CONDITION 2 CONTEXT FOR FAO
                             013E   328          MOV_VAL COND2_C,COND2_E[R3],MSG_DATA1 ; GIVE COND 2 DATA VALUE TO FAO
                     FEBF'   30  013E   329          BSBW    WRITE_MSG2                      ; FORMAT AND WRITE CONDITION 2 MSG
                14   04      91  0141   330          CMPB    #COND3_C,#NULL                  ; IS CONDITION 3 NULL ?
                     03      12  0144   331          BNEQU   30$                             ; NO -- CONTINUE
                     0079    31  0146   332          BRW     FORM_CONDSX                     ; YES -- SUBROUTINE IS FINISHED
                             0149   333 30$:
  00000000'EF   0000012E'EF  DE  0149   334          MOVAL   COND3_T,MSG_A                   ; SAVE ADDRESS OF CONDITION 3 TITLE FOR FAO
00000000'EF   00000136'EF44  D0  0154   335          MOVL    COND3_TAB[R4],MSG_B             ; SAVE ADDR OF COND 3 CURR TEXT ELT FOR FAO
        00000000'EF   04     90  0160   336          MOVB    #COND3_C,MSG_CTXT               ; SAVE CONDITION 3 CONTEXT FOR FAO
                             0167   337          MOV_VAL COND3_C,COND3_E[R4],MSG_DATA1 ; GIVE COND 3 DATA VALUE TO FAO
                     FE8A'   30  0173   338          BSBW    WRITE_MSG2                      ; FORMAT AND WRITE CONDITION 3 MSG
                14   14      91  0176   339          CMPB    #COND4_C,#NULL                  ; IS CONDITION 4 NULL ?
                     47      13  0179   340          BEQLU   FORM_CONDSX                     ; YES -- SUBROUTINE IS FINISHED
  00000000'EF   0000016D'EF  DE  017B   341          MOVAL   COND4_T,MSG_A                   ; SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO
00000000'EF   0000016D'EF45  D0  0186   342          MOVL    COND4_TAB[R5],MSG_B             ; SAVE ADDR OF COND 4 CURR TEXT ELT FOR FAO
        00000000'EF   14     90  0192   343          MOVB    #COND4_C,MSG_CTXT               ; SAVE CONDITION 4 CONTEXT FOR FAO
                             0199   344          MOV_VAL COND4_C,COND4_E[R5],MSG_DATA1 ; GIVE COND 4 DATA VALUE TO FAO
                     FE64'   30  0199   345          BSBW    WRITE_MSG2                      ; FORMAT AND WRITE CONDITION 4 MSG
                14   14      91  019C   346          CMPB    #COND5_C,#NULL                  ; IS CONDITION 5 NULL ?
                     21      13  019F   347          BEQLU   FORM_CONDSX                     ; YES -- SUBROUTINE IS FINISHED
  00000000'EF   0000016E'EF  DE  01A1   348          MOVAL   COND5_T,MSG_A                   ; SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
00000000'EF   0000016E'EF46  D0  01AC   349          MOVL    COND5_TAB[R6],MSG_B             ; SAVE ADDR OF COND 5 CURR TEXT ELT FOR FAO
        00000000'EF   14     90  01B8   350          MOVB    #COND5_C,MSG_CTXT               ; SAVE CONDITION 5 CONTEXT FOR FAO
                             01BF   351          MOV_VAL COND5_C,COND5_E[R6],MSG_DATA1 ; GIVE COND 5 DATA VALUE TO FAO
                     FE3E'   30  01BF   352          BSBW    WRITE_MSG2                      ; FORMAT AND WRITE CONDITION 5 MSG
                             01C2   353 FORM_CONDSX:
                     05      01C2   354          RSB                                     ; RETURN TO CALLER
```

```
01C3   356          .SBTTL  VERIFY
01C3   357 ;++
01C3   358 ; FUNCTIONAL DESCRIPTION:
01C3   359 ;
01C3   360 ;                VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION
01C3   361 ; TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR
01C3   362 ; COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS
01C3   363 ; SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE
01C3   364 ; ($CRELOG). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED
01C3   365 ; BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS
01C3   366 ; AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF
01C3   367 ; COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN
01C3   368 ; ERR_EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY,
01C3   369 ; THROUGH THE SS_CHECK MACRO); ERR_EXIT SETS EFLAG TO NON-ZERO,
01C3   370 ; PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER.
01C3   371 ; WHEN ERR_EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED,
01C3   372 ; AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.
01C3   373 ;
01C3   374 ; CALLING SEQUENCE:
01C3   375 ;
01C3   376 ;       BSBW VERIFY
01C3   377 ;
01C3   378 ; INPUT PARAMETERS:
01C3   379 ;
01C3   380 ;       NONE
01C3   381 ;
01C3   382 ; IMPLICIT INPUTS:
01C3   383 ;
01C3   384 ;       R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
01C3   385 ;         FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
01C3   386 ;       FOR X = 1,2,3,4,5 :
01C3   387 ;               CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
01C3   388 ;                 TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
01C3   389 ;                 ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
01C3   390 ;                 FOR CONDX_E.
01C3   391 ;
01C3   392 ; OUTPUT PARAMETERS:
01C3   393 ;
01C3   394 ;       NONE
01C3   395 ;
01C3   396 ; IMPLICIT OUTPUTS:
01C3   397 ;
01C3   398 ;       VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS,
01C3   399 ;       IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING
01C3   400 ;       ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA
01C3   401 ;       AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED
01C3   402 ;       ERRORS.
01C3   403 ;
01C3   404 ; COMPLETION CODES:
01C3   405 ;
01C3   406 ;       EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
01C3   407 ;
01C3   408 ; SIDE EFFECTS:
01C3   409 ;
01C3   410 ;       SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
01C3   411 ;       (VIA RSB) IF ERROR ENCOUNTERED.
01C3   412 ;
```

```
                        01C3    413 ;--
                        01C3    414
                        01C3    415
                        01C3    416
                        01C3    417 VERIFY::
                00000000'EF   95  01C3    418         TSTB    CFLAG                   ; SHOULD CONDITIONS BE PRINTED ?
                         03   13  01C9    419         BEQL    5$                      ; NO -- CONTINUE
                       FEF3   30  01CB    420         BSBW    FORM_CONDS              ; YES -- FMT & PRINT ALL CONDS FOR THIS T.C.
                        01CE    421 5$:
  00000096'EF   00000000'EF   B2  01CE    422         MCOMW   TESTNUM,COMTN           ; GET A LOGICAL NAME UNIQUE TO THIS T.C.
00000126'EF43   00000000'8F   D1  01D9    423         CMPL    #SS$_NORMAL,COND2_E[R3] ; IS NORMAL EXPECTED ?
                         03   12  01E5    424         BNEQU   25$                     ; NO -- CONTINUE
                       0073   31  01E7    425         BRW     20$                     ; YES -- GO RIGHT TO SUBJECT SERVICE                58
                        01EA    426 25$:
                        01EA    427         MODE    TO,10$,KRNL             ; TO KERNEL FOR EXTRA CRELOG
                        020D    428         $CRELOG_S TBLFLG[R2],LOGNAM,EQLNAM,ACMODE[R4]
                        022E    429                                         ; CREATE "ALREADY EXISTENT" LOGICAL NAME
                        022E    430         MODE    FROM,10$                ; BACK TO USER MODE
                        022F    431         SS_CHECK NORMAL                 ; CHECK FOR NORMAL STATUS CODE
                        025D    432 20$:
                        025D    433         MODE    TO,30$,KRNL             ; GET KERNEL FOR SUBJECT SERVICE
                        0280    434 ;
                        0280    435 ; ****** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE ******
                        0280    436 ;
                        0280    437         $CRELOG_S TBLFLG[R2],LOGNAM,EQLNAM,ACMODE[R4]
                        02A1    438         MODE    FROM,30$                ; BACK TO USER
00000000'EF   00000126'EF43   D0  02A2    439         MOVL    COND2_E[R3],EXPV        ; LOAD UP EXPECTED STATUS CODE
           00000000'EF    50   D1  02AE    440         CMPL    R0,EXPV                 ; CODE RECEIVED = CODE EXPECTED ?
                         56   13  02B5    441         BEQLU   40$                     ; YES -- DO SOME MORE VERIFYING
           00000000'EF    50   D0  02B7    442         MOVL    R0,RECV                 ; GET REC'D STAT CODE INTO STORAGE
                        02BE    443         ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM CRELOG>
                        030D    444                                         ; PRINT ERROR MSG & EXIT SUBROUTINE
                        030D    445 40$:
                        030D    446         $TRNLOG_S  LOGNAM,RSLLEN_TLN,RSLBUF_TLN,TABLE_TLN,ACMODE_TLN
                        0334    447         SS_CHECK NORMAL                 ; CHECK FOR NORMAL STATUS CODE
00000000'EF   000000D5'EF42   D0  0362    448         MOVL    TBLFLG[R2],EXPV         ; GET EXPECTED VALUE OUT OF COND TABLE
  00000000'EF   00000094'EF   91  036E    449         CMPB    TABLE_TLN,EXPV          ; DID TRNLOG RETURN CORRECT TABLE FLAG VAL ?
                         54   13  0379    450         BEQLU   60$                     ; YES -- MORE VERIFYING
  00000000'EF   00000094'EF   90  037B    451         MOVB    TABLE_TLN,RECV          ; PROCESS ERROR & EXIT ...
                        0386    452         ERR_EXIT BYTE,<LOGICAL NAME CREATED FOR WRONG TABLE>
                        03CF    453 60$:
                02   000000D5'EF42   D1  03CF    454         CMPL    TBLFLG[R2],#LOG$C_PROCESS ; IS LOG NAME IN PROCESS TABLE ?
                         03   13  03D7    455         BEQLU   65$                     ; YES -- CONTINUE
                       0073   31  03D9    456         BRW     70$                     ; NO -- BYPASS ACMODE TEST
                        03DC    457 65$:
00000000'EF   0000015D'EF44   D0  03DC    458         MOVL    ACMODE[R4],EXPV         ; YES -- GET EXP ACMODE OUT OF COND TABLE
  00000000'EF   00000095'EF   91  03E8    459         CMPB    ACMODE_TLN,EXPV         ; DID TRNLOG RETURN CORRECT ACCESS MODE ?
                         5A   13  03F3    460         BEQLU   70$                     ; YES -- KEEP GOING
  00000000'EF   00000095'EF   90  03F5    461         MOVB    ACMODE_TLN,RECV         ; NO -- ESTAB RECV & TAKE ERROR EXIT ...
                        0400    462         ERR_EXIT BYTE,<LOGICAL NAME CREATED FOR WRONG >, -
                        0400    463                       <ACCESS MODE>
                        044F    464 70$:
  00000051'EF   00000008'EF   B1  044F    465         CMPW    RSLLEN_TLN,EQLNAM       ; DID TRNLOG RETURN CORRECT STRING LENGTH ?
                         03   12  045A    466         BNEQU   75$                     ; NO -- CONTINUE
                       0068   31  045C    467         BRW     80$                     ; YES -- DO ANOTHER VERIFY
                        045F    468 75$:
  00000000'EF   00000051'EF   B0  045F    469         MOVW    EQLNAM,EXPV             ; LOAD UP EXPECTED AND
```

```
00000000'EF   00000008'EF   B0   046A   470          MOVW    RSLLEN_TLN,RECV          ; ... RECEIVED VALUES, THEN EXIT
                            0475   471          ERR_EXIT WORD,<INCORRECT LENGTH CREATED FOR >, -
                            0475   472                       <EQUIVALENCE NAME>
                            04C7   473 80$:
                 0000'8F    BB   04C7   474          PUSHR   #CMPC_SAV                ; SAVE SOME REGS USED BY CMPC
0000000E'FF   00000008'EF   29   04CB   475          CMPC    RSLLEN_TLN,@RSLBUF_TLN+4,@EQLNAM+4
              00000055'FF        04D6
                            04DB   476                                               ; TRANSLATED STRING MATCH THAT CREATED ?
                 0000'8F    BA   04DB   477          POPR    #CMPC_SAV                ; RESTORE SOME REGS USED BY CMPC
                      03    12   04DF   478          BNEQU   85$                      ; NO -- CONTINUE
                    0064    31   04E1   479          BRW     VERIFYX                  ; YES -- EVERYTHING VERIFIES
                            04E4   480 85$:
00000000'EF   00000051'EF   7D   04E4   481          MOVQ    EQLNAM,EXPV              ; LOAD UP EXPECTED AND
00000000'EF   0000000A'EF   7D   04EF   482          MOVQ    RSLBUF_TLN,RECV          ; ... RECEIVED VALUES, THEN EXIT
                            04FA   483          ERR_EXIT DESC,<INCORRECT EQUIVALENCE NAME >, -
                            04FA   484                       <STRING CREATED>
                            0548   485 VERIFYX:
                         05 0548   486          RSB                                  ; RETURN TO CALLER
```

```
0549   488          .SBTTL  VFY_CLEANUP
0549   489 ;++
0549   490 ; FUNCTIONAL DESCRIPTION:
0549   491 ;
0549   492 ;               VFY_CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE
0549   493 ; EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY_CLEANUP MUST
0549   494 ; ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN
0549   495 ; ERROR IS FOUND). ALSO, VFY_CLEANUP MAY ISSUE SS_CHECK OR ERR_EXIT
0549   496 ; ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED
0549   497 ; IN THE EVENT THAT VFY_CLEANUP IS CALLED DURING ERROR PROCESSING,
0549   498 ; WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN
0549   499 ; POSSIBLY DISCOVERING A SECOND ERROR.
0549   500 ;
0549   501 ; CALLING SEQUENCE:
0549   502 ;
0549   503 ;       BSBW VFY_CLEANUP
0549   504 ;
0549   505 ; INPUT PARAMETERS:
0549   506 ;
0549   507 ;       NONE
0549   508 ;
0549   509 ; IMPLICIT INPUTS:
0549   510 ;
0549   511 ;       R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0549   512 ;         FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0549   513 ;       FOR X = 1,2,3,4,5 :
0549   514 ;               CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
0549   515 ;                 TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
0549   516 ;                 ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
0549   517 ;                 FOR CONDX_E.
0549   518 ;
0549   519 ; OUTPUT PARAMETERS:
0549   520 ;
0549   521 ;       NONE
0549   522 ;
0549   523 ; IMPLICIT OUTPUTS:
0549   524 ;
0549   525 ;       NONE
0549   526 ;
0549   527 ; COMPLETION CODES:
0549   528 ;
0549   529 ;       EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0549   530 ;
0549   531 ; SIDE EFFECTS:
0549   532 ;
0549   533 ;       SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
0549   534 ;       (VIA RSB) IF ERROR ENCOUNTERED.
0549   535 ;
0549   536 ;--
0549   537
0549   538
0549   539
0549   540 VFY_CLEANUP::
0549   541         MODE    TO,10$,KRNL                     ; KERNEL MODE
056C   542         $DELLOG_S TBLFLG[R2],LOGNAM,ACMODE[R4] ; UNDO SUBJECT SERVICE
0587   543         MODE    FROM,10$                        ; BACK TO USER MODE
0588   544         SS_CHECK NORMAL                         ; CHECK NORMAL STATUS CODE
```

```
                                                L 7
     05B6    545          MODE    TO,20$,KRNL                ; kernel mode
     05D9    546          $DELLOG_S TBLFLG[R2],LOGNAM,ACMODE[R4] ; check for actual delete
     05F4    547          MODE    FROM,20$                   ; back to user mode
     05F5    548          SS_CHECK NOLOGNAM                  ; check correct status return
05   0623    549          RSB                                ; RETURN TO CALLER
     0624    550          .END
```

```
$$$$                    = 00000504 R      04
$$$CHARS                = 00000029
$$$CHARS1               = 00000006
$$$CHARS2               = 00000004
$$$CHARS3               = 00000005
$$$CHARS4               = 00000004
$$$CHARS5               = 00000000
$$$COND_A               = 00000003
$$$STRINGS              = 00000001
$$$STRINGS2             = 00000005
$$T1                    = 00000000
$$T2                    = 00000004
ACMODE                    0000015D R      03
ACMODE_TLN                00000095 R      03
BYTE                    = 00000001   G
CFLAG                     ********     X  04
CHMRTN                    ********     X  04
CHM_CONT                  ********     X  04
CMPC_SAV                  ********     X  04
COMP_SC                   ********     X  04
COMTN                     00000096 R      03
COND1                     000000B7 RG     04
COND1_C                 = 00000004
COND1_CLEANUP             000000B8 RG     04
COND1_E                   000000D5 R      03
COND1_H                   000000A1 RG     03
COND1_T                   0000009A R      03
COND1_TAB                 000000A2 R      03
COND2                     000000B9 RG     04
COND2_C                 = 00000000
COND2_CLEANUP             000000BA RG     04
COND2_E                   00000126 R      03
COND2_H                   00000101 RG     03
COND2_T                   000000E1 R      03
COND2_TAB                 00000102 R      03
COND3                     000000BB RG     04
COND3_C                 = 00000004
COND3_CLEANUP             000000BC RG     04
COND3_E                   0000015D R      03
COND3_H                   00000135 RG     03
COND3_T                   0000012E R      03
COND3_TAB                 00000136 R      03
COND4                     000000BD RG     04
COND4_C                 = 00000014
COND4_CLEANUP             000000BE RG     04
COND4_H                   0000016D RG     03
COND4_T                   0000016D R      03
COND4_TAB                 0000016D R      03
COND5                     000000BF RG     04
COND5_C                 = 00000014
COND5_CLEANUP             000000C0 RG     04
COND5_H                   0000016E RG     03
COND5_T                   0000016E R      03
COND5_TAB                 0000016E R      03
CTL$GL_PHD                ********     X  04
DESC                    = 00000010   G
EFLAG                     ********     X  04
EQLNAM                    00000051 R      02
EXPV                      ********     X  04
FAO_DESC                  ********     X  04
FAO_LEN                   ********     X  04
FORM_CONDS                000000C1 RG     04
FORM_CONDSX               000001C2 R      04
LOG$C_GROUP             = 00000001
LOG$C_PROCESS           = 00000002
LOG$C_SYSTEM            = 00000000
LOGNAM                    00000059 R      02
LONG                    = 00000004   G
MOD_MSG_CODE              ********     X  04
MOD_MSG_PRINT             ********     X  04
MSGT_INP_CTL              00000019 R      02
MSG3_ERR_CTL              00000039 RG     02
MSG_A                     ********     X  04
MSG_B                     ********     X  04
MSG_CTXT                  ********     X  04
MSG_DATA1                 ********     X  04
NOTARG                  = 00000000   G
NULL                    = 00000014   G
OUTPUT_MSG                ********     X  04
PCV                       ********     X  04
PHD$Q_PRIVMSK           = 00000000
PRIVMASK                  00000000 R      03
PRIV_ARGS               = 00000002
PROCESS_ERR               ********     X  04
PSL$C_EXEC              = 00000001
PSL$C_KERNEL            = 00000000
PSL$C_SUPER             = 00000002
PSL$C_USER              = 00000003
QUAD                    = 00000008   G
RECV                      ********     X  04
REST_REGS                 ********     X  04
RSLBUF_TLN                0000000A R      03
RSLLEN_TLN                00000008 R      03
SAVE_REGS                 ********     X  04
SS$_NOLOGNAM              ********     X  04
SS$_NORMAL                ********     X  03
SS$_SUPERSEDE             ********     X  03
SUCCESS                   ********     X  04
SYS$CMKRNL                ********    GX  04
SYS$CRELOG                ********    GX  04
SYS$DELLOG                ********    GX  04
SYS$FAO                   ********     X  04
SYS$SETPRN                ********    GX  04
SYS$SETPRV                ********    GX  04
SYS$TRNLOG                ********    GX  04
TABLE_TLN                 00000094 R      03
TBLFLG                    000000D5 R      03
TESTNUM                   ********     X  02
TEST_MOD_NAME             00000000 RG     02
TEST_MOD_NAME_D           00000009 R      02
TEST_MOD_SUCC             ********     X  04
TMD_ADDR                  ********     X  04
TM_CLEANUP                000000B3 RG     04
TM_SETUP                  00000000 RG     04
```

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```
VERIFY                          000001C3 RG    04
VERIFYX                         00000548 R     04
VFY_CLEANUP                     00000549 RG    04
WORD                          = 00000002  G
WRITE_MSG2                      ********   X   04
```

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	00000061 (97.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	0000016F (367.)	03 (3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
SATSSS30	00000624 (1572.)	04 (4.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.07	00:00:00.26
Command processing	107	00:00:00.68	00:00:03.12
Pass 1	265	00:00:07.76	00:00:13.71
Symbol table sort	0	00:00:00.54	00:00:00.58
Pass 2	118	00:00:02.00	00:00:02.44
Symbol table output	15	00:00:00.09	00:00:00.13
Psect synopsis output	2	00:00:00.03	00:00:00.04
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	538	00:00:11.20	00:00:20.29

```
The working set limit was 1350 pages.
40009 bytes (79 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 361 non-local and 47 local symbols.
550 source lines were read in Pass 1, producing 25 object records in Pass 2.
37 pages of virtual memory were used to define 28 macros.
```

Macro library statistics

Macro library name	Macros defined
_255DUA28:[SHRLIB]UETP.MLB;1	9
_255DUA28:[SYS.OBJ]LIB.MLB;1	2
_255DUA28:[SYSLIB]STARLET.MLB;2	14
TOTALS (all libraries)	25

```
687 GETS were required to define 25 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS$:SATSSS30/OBJ=OBJ$:SATSSS30 MSRC$:SATSSS30/UPDATE=(ENH$:SATSSS30)+EXECML$/LIB+SHRLIB$:UETP/LIB
```

SATSSS35
LIS

SATSSS26
LIS

SATSSS38
LIS

SATSS530
LIS

SATSSS37
LIS

SATSSS39
LIS

SATSSS36
LIS