



```

SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  SSSSSSSS  000000  888888
SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  SSSSSSSS  000000  888888
SS        AA      AA      TT        SS        SS        00      00      88      88
SS        AA      AA      TT        SS        SS        00      00      88      88
SS        AA      AA      TT        SS        SS        00      0000    88      88
SS        AA      AA      TT        SS        SS        00      0000    88      88
SSSSSSS   AA      AA      TT        SSSSSS   SSSSSS   00  00  00  888888
SSSSSSS   AA      AA      TT        SSSSSS   SSSSSS   00  00  00  888888
          SS  AAAAAAAAAA  TT        SS        SS        0000  00      88      88
          SS  AAAAAAAAAA  TT        SS        SS        0000  00      88      88
          SS  AA      AA      TT        SS        SS        00      00      88      88
          SS  AA      AA      TT        SS        SS        00      00      88      88
SSSSSSSS  AA      AA      TT        SSSSSSSS  SSSSSSSS  SSSSSSSS  000000  888888
SSSSSSSS  AA      AA      TT        SSSSSSSS  SSSSSSSS  SSSSSSSS  000000  888888

```

```

....
....
....
....

```

```

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

```

(1)	54	DECLARATIONS
(1)	110	CONDITION TABLES
(1)	141	TM SETUP, TM CLEANUP
(1)	226	CONDITION SUBROUTINES - SETUP AND CLEANUP
(1)	296	FORM_CONDS
(1)	389	VERIFY
(1)	469	VFY_CLEANUP

```
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 :*
0000 7 :* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
0000 8 :* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. *
0000 9 :* ALL RIGHTS RESERVED. *
0000 10 :*
0000 11 :* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *
0000 12 :* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE *
0000 13 :* INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER *
0000 14 :* COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *
0000 15 :* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY *
0000 16 :* TRANSFERRED. *
0000 17 :*
0000 18 :* THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE *
0000 19 :* AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT *
0000 20 :* CORPORATION. *
0000 21 :*
0000 22 :* DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS *
0000 23 :* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
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 SSS 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 $BRDCST MSGS ... THANK >, -
009A 82 <YOU FOR YOUR PATIENCE>
00D6 83 TERM_DATA: ; 250-CHARACTER MESSAGE
00D6 84 .ASCII %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56 00E2
2F 58 41 56 20 53 4D 56 2F 58 41 56 00EE 85 .ASCII %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56 00FA
2F 58 41 56 20 53 4D 56 2F 58 41 56 0106 86 .ASCII %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56 0112
2F 58 41 56 20 53 4D 56 2F 58 41 56 011E 87 .ASCII %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56 012A
2F 58 41 56 20 53 4D 56 2F 58 41 56 0136 88 .ASCII %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56 0142
2F 58 41 56 20 53 4D 56 2F 58 41 56 014E 89 .ASCII %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56 015A
2F 58 41 56 20 53 4D 56 2F 58 41 56 0166 90 .ASCII %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56 0172
2F 58 41 56 20 53 4D 56 2F 58 41 56 017E 91 .ASCII %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56 018A
2F 58 41 56 20 53 4D 56 2F 58 41 56 0196 92 .ASCII %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56 01A2
2F 58 41 56 20 53 4D 56 2F 58 41 56 01AE 93 .ASCII %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56 01BA
20 53 41 56 20 53 4D 56 2F 58 41 56 01C6 94 .ASCII %VAX/VMS VAX%
00000000 01D0 95 ZERODESC: .LONG 0 ; ZERO LENGTH STRING DESCRIPTOR
000001D0 01D4 96 .ADDRESS ZERODESC ;
01D8 97 OPDEV: STRING I, <OPAO> ; OPER'S CONSOLE (SHOULD BE ON EVERY SYSTEM)
01E5 98 OPDEVLOG: STRING I, <SYSTST$OPER> ; LOGICAL NAME FOR OPERATOR'S CONSOLE

```

```
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
0000000A 000A 103 FAOCTRSTR: STRING 0,30 ; FAO CONTROL STRING
0000000A 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
0000003A 003A 108 BRDBUF: STRING 0,80 ; BUFFER FOR INTRO & EXIT BRDCST MSGS
```

```
.SBTTL CONDITION TABLES
***** CONDITION TABLES FOR BRDCST SYSTEM SERVICE *****
COND 1,NOTARG,<MESSAGE LENGTH>,-
      <NULL LENGTH>,-
      <MIN LENGTH>,-
      <AVG LENGTH>,-
      <MAX LENGTH>,-
      .BYTE 0,1,80,250
COND 2,NOTARG,<MESSAGE RECIPIENT SET>,-
      <ALL TERMINALS>,-
      <ALL TERMINALS ALLOCATED TO PROCESSES>,-
      <A SINGLE TERMINAL (BY DEVICE NAME)>,-
      <A SINGLE TERMINAL (BY LOGICAL NAME)>,-
      .ADDRESS 0 ; ZERO ARGUMENT => ALL TERMINALS
      .ADDRESS ZERODESC ; ZERO LENGTH DESCR => ALL PROCESS TERMS
      .ADDRESS OPDEV ; OPERATOR'S CONSOLE
      .ADDRESS OPDEVLOG ; OPERATOR'S CONSOLE (BY LOG NAME)
COND 3,NULL
COND 4,NULL
COND 5,NULL
.PSECT SATSSS08,RD,WRT,EXE

0092 110
0092 111 :
0092 112 :
0092 113 :
0092 114
0092 115
0092 116
0092 117
0092 118
0092 119
FA 50 01 00 00DF 120
00E3 121 :
00E3 122
00E3 123
00E3 124
00E3 125
00E3 126
00E3 127
00000000' 0184 128
000001D0' 0188 129
000001D8' 018C 130
000001E5' 0190 131
0194 132 :
0194 133
0195 134
0195 135
0196 136
0196 137
0197 138
00000000 139
```



```

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::
0000 184      : CLRL  R2      ; INITIALIZE
0000 185      : CLRL  R3      : .. CONDITION
0000 186      : CLRL  R4      : .... TABLE
0000 187      : CLRL  R5      : ..... INDEX
0000 188      : CLRL  R6      : ..... REGISTERS
0000 189      : BSBW  MOD MSG PRINT ; PRINT TEST MODULE BEGIN MSG
0000 190      : MOVAL TEST_MOD_SUCC,TMD_ADDR ; ASSUME END MSG WILL SHOW SUCCESS
0000 191      : INSV  #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
0000 192      :
0000 193      : MODE  TO,5$,KRNL ; KERNEL MODE TO ACCESS PHD
0000 194      : MOVL  @#CTL$GL_PHD,R9 ; GET PROCESS HEADER ADDRESS
0000 195      : MOVAL PHD$Q_PRIVMSK(R9),PRIVMSK ; GET PRIV MASK ADDRESS
0000 196      : MODE  FROM,5$ ; BACK TO USER MODE
0000 197      : PRIV  ADD,ALL ; GET ALL PRIVILEGES

```

```

52 D4 0000
53 D4 0002
54 D4 0004
55 D4 0006
56 D4 0008
FFF3' 30 000A
00000000'EF 00000000'EF DE 000D
03 00 00000000'8F F0 0018
00000000'EF 0020
59 00000000'9F D0 0048
00000000'EF 69 DE 004F
0056
0057

```

```

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 RO,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=#UETPS_TEXT,MSGLEN=CTRSTRLEN, -
00FA 205 BUFADR=FAOCTRSTR ; GET UETPS_TEXT MSG
0117 206 SS_CHECK NORMAL ; CHECK FOR NORMAL RETURN
000000A'EF 0000008'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
0000003A'EF 00000038'EF 3C 016F 210 SS_CHECK NORMAL ; MAKE SURE IT WORKED
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
0000003A'EF 50 8F 9A 01EA 215 TM_CLEANUP::
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
    
```

```

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 :
05 0244 275 COND1::                                ; RETURN TO MAIN ROUTINE
0244 276 RSB
05 0245 277 COND1_CLEANUP::                          ; RETURN TO MAIN ROUTINE
0245 278 RSB
05 0246 279 COND2::                                ; RETURN TO MAIN ROUTINE
0246 280 RSB
05 0247 281 COND2_CLEANUP::                          ; RETURN TO MAIN ROUTINE
0247 282 RSB

```

SATSSS08  
V04-000

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

Page 9  
(1)

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

```

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      :
024E 341      : FORM_CONDS::
024E 342      : $FAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
026D 343      :           : FORMAT CONDITIONS HEADER MSG
024E 344      : BSBW OUTPUT_MSG           : ... AND PRINT IT
0270 345      : CMPB #COND1_C,#NULL       : IS CONDITION 1 NULL ?
0273 346      : BNEQU 10$                 : NO -- CONTINUE
0275 347      : BRW FORM_CONDSX          : YES -- SUBROUTINE IS FINISHED
0278 348      : 10$:
0278 349      : MOVAL COND1_T,MSG_A       : SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO
0283 350      : MOVL COND1_TAB[R2],MSG_B  : SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAO
028F 351      : MOVB #COND1_C,MSG_CTXT    : SAVE CONDITION 1 CONTEXT FOR FAO
0296 352      : MOV_VAL COND1_C,(COND1_E[R2]),MSG_DATA1 ; GIVE COND 1 DATA VALUE TO FAO

```

```

FD90' 30
14 00 91
03 12
00BF 31

```

```

00000000'EF 00000092'EF DE
00000000'EF 000000A2'EF42 DO
00000000'EF 00 90

```

```

21
6E
7C
2E
74
4C
41
74
2C
64
5E
65
64
2C
2E
77
77
2C
64
64
27

```

```

      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
```

```

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::
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.
00000030'EF 000000DF'EF42 9A 0343 454 5$:
59 00000184'EF43 D0 0343 455 MOVZBL COND1_E[R2],TERM_DESCR ; GET LENGTH INTO DESCRIPTOR
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 $BRDCST_S MSGBUF=TERM_DESCR, DEVNAM=(R9)
00000000'8F 50 D1 036A 461 Cmpl -R0,#SS$_NORMAL ; CODE RECEIVED = CODE EXPECTED ?
61 13 0371 462 BEQLU VERIFYX- ; YES -- CONTINUE
00000000'EF 00000000'8F D0 0373 463 MOVL #SS$_NORMAL,EXPV ; NO -- LOAD UP EXPECTED AND
00000000'EF 50 D0 037E 464 MOVL R0,RCV ; ... 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
```



```

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      :           COND_X_E - ADDRESS OF TABLE OF DATA VALUES FOR COND_X
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 COND_X_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      :
05 03D5 521 VFY_CLEANUP::
03D5 522      RSB
03D5 523      .END
                                ; RETURN TO CALLER

```

\$\$\$\$	= 0000038F	R	04	FAOCTRSTR	0000000A	R	03
\$\$\$CHARS	= 0000002A			FAO_DESC	*****	X	04
\$\$\$CHARS1	= 00000000			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
COND1	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	PRIVMSK	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	SYSSBRDCST	*****	GX	04
COND3_C	= 00000014			SYSSCMKRN	*****	GX	04
COND3_CLEANUP	00000249	RG	04	SYSSCRELOG	*****	GX	04
COND3_H	00000194	RG	03	SYSSDELLOG	*****	GX	04
COND3_T	00000194	R	03	SYSSFAO	*****	X	04
COND3_TAB	00000194	R	03	SYSSGETMSG	*****	GX	04
COND4	0000024A	RG	04	SYSSSETPRN	*****	GX	04
COND4_C	= 00000014			SYSSSETPRV	*****	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-D	*****	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	UETPS TEXT	= 00741133		
CTL\$GC_PHD	*****	X	04	VERIFY	00000338	RG	04
CTRSTR\$EN	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
\$ABSS	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

The image displays a grid of 15 columns and 15 rows of small, illegible text fragments. These fragments appear to be individual data points or small documents arranged in a structured layout. Some fragments are more legible than others, showing alphanumeric strings and symbols. For example, in the 10th row, 10th column, the text "SATSS505 LIS" is visible. In the 10th row, 14th column, "SATSS522 LIS" is visible. In the 14th row, 1st column, "SATSS501 LIS" is visible. In the 14th row, 10th column, "SATSS507 LIS" is visible. In the 14th row, 14th column, "SATSS508 LIS" is visible. The overall appearance is that of a large, dense data table or a series of small documents arranged in a grid.