



```

SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  SSSSSSSS  44  44  44  44
SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  SSSSSSSS  44  44  44  44
SS        AA      AA      TT        SS        SS        SS        44  44  44  44
SS        AA      AA      TT        SS        SS        SS        44  44  44  44
SS        AA      AA      TT        SS        SS        SS        44  44  44  44
SS        AA      AA      TT        SS        SS        SS        44  44  44  44
SSSSSSS   AA      AA      TT        SSSSSSS   SSSSSSS   SSSSSSS   4444444444  4444444444
SSSSSSS   AA      AA      TT        SSSSSSS   SSSSSSS   SSSSSSS   4444444444  4444444444
SS        AA      AA      TT        SS        SS        SS        44  44  44  44
SS        AA      AA      TT        SS        SS        SS        44  44  44  44
SS        AA      AA      TT        SS        SS        SS        44  44  44  44
SSSSSSSS  AA      AA      TT        SSSSSSSSS SSSSSSSSS SSSSSSSSS  44  44  44  44
SSSSSSSS  AA      AA      TT        SSSSSSSSS SSSSSSSSS SSSSSSSSS  44  44  44  44

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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        IIIIII  SSSSSSSS
LLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLL IIIIII  SSSSSSSS

```

(1)	54	DECLARATIONS
(1)	91	CONDITION TABLES
(1)	118	TM SETUP, TM CLEANUP
(1)	185	CONDITION SUBROUTINES - SETUP AND CLEANUP
(1)	255	FORM CONDS
(1)	348	VERIFY
(1)	454	VFY_CLEANUP

```

0000 1      .TITLE  SATSSS44 SATS SYSTEM SERVICE TESTS $SETPRN (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 SATSSS44 TO TEST SUCCESSFUL
0000 36 : OPERATION OF THE $SETPRN SYSTEM SERVICE. THE SERVICE IS INVOKED
0000 37 : UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY
0000 38 : SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT
0000 39 : OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY
0000 40 : CHECKING FOR AN SS$ 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: JUN, 1977
0000 47 :
0000 48 : MODIFIED BY:
0000 49 :
0000 50 :           : VERSION
0000 51 : 01      -
0000 52 : --

```



```

00000000 70 .PSECT RODATA, RD, NOWRT, NOEXE, LONG
0000 71 TEST_MOD_NAME:: STRING C, <SATSSS44> : TEST MODULE NAME
0009 72 TEST_MOD_NAME_D: STRING I, <SATSSS44> : TEST MODULE NAME DESCRIPTOR
0019 73 MSG1_INP_CTL: STRING I, <SSSPN!4ZW: CONDITIONS:>
0039 74 : FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
0039 75 MSG3_ERR_CTL:: STRING I, <*SSSPN!4ZW: !AS>
0051 76 : FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR
00000004 0051 77 PREVNAME: .LONG 4 : PREVIOUS PROCESS NAME STRING DESCRIPTOR
00000008' 0055 78 .ADDRESS THISPID : ..... (USE PID TO MAKE PRCNAM UNIQUE)
00000001 0059 79 CHAR1: .LONG 1 : PROCESS NAME STRING DESCRIPTOR (LENGTH 1)
0000000C' 005D 80 .ADDRESS PROCNAME : .....
00000007 0061 81 CHAR7: .LONG 7 : PROCESS NAME STRING DESCRIPTOR (LENGTH 7)
0000000C' 0065 82 .ADDRESS PROCNAME : .....
0000000F 0069 83 CHAR15: .LONG 15 : PROCESS NAME STRING DESCRIPTOR (LENGTH 15)
0000000C' 006D 84 .ADDRESS PROCNAME : .....

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SATSSS44  
V04-000

SATS SYSTEM SERVICE TESTS \$SETPRN (SUCC 16-SEP-1984 00:55:01 VAX/VMS Macro V04-00  
DECLARATIONS 5-SEP-1984 04:31:36 [UETPSY.SRC]SATSSS44.MAR;1

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(1)

```
00000000 86 .PSECT RWDATA,RD,WRT,NOEXE,LONG
00000008 0000 87 PRIVMASK: .BLKQ 1 ; ADDR OF PRIVILEGE MASK (IN PHD)
00000000 0008 88 THISPID: .LONG 0 ; PROCESS ID FOR THIS PROCESS
0000001B 000C 89 PROCNAME: .BLKB 15 ; PROCESS NAME FOR THIS PROCESS
```

```
001B 91 .SBTTL CONDITION TABLES
001B 92 :
001B 93 :
001B 94 :
001B 95 ***** CONDITION TABLES FOR SETPRN SYSTEM SERVICE *****
001B 96 COND 1,NOTARG,<PROCESS NAME SPECIFICATION>,-
001B 97 <SPECIFIED, 1 CHAR>,-
001B 98 <SPECIFIED, 7 CHARS>,-
001B 99 <SPECIFIED, 15 CHARS>,-
001B 100 <NOT SPECIFIED>,-
00000059' 008E 101 .ADDRESS CHAR1
00000061' 0092 102 .ADDRESS CHAR7
00000069' 0096 103 .ADDRESS CHAR15
00000000' 009A 104 .ADDRESS 0
009E 105 :
009E 106 COND 2,NOTARG,<PROCESS NAME EXISTENCE>,-
009E 107 <NAME PREVIOUSLY EXISTED>,-
009E 108 <NAME DID NOT EXIST PREVIOUSLY>,-
009E 109
00F4 110 COND 3,NULL
00F5 111
00F5 112 COND 4,NULL
00F6 113
00F6 114 COND 5,NULL
00F7 115
00000000 116 .PSECT SATSSS44,RD,WRT,EXE
```



```

0000 118 .SBTTL TM_SETUP, TM_CLEANUP
0000 119 :++
0000 120 : FUNCTIONAL DESCRIPTION:
0000 121 :
0000 122 : TM SETUP AND TM CLEANUP ARE CALLED TO PERFORM
0000 123 : REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF
0000 124 : TEST MODULE EXECUTION.
0000 125 :
0000 126 : CALLING SEQUENCE:
0000 127 :
0000 128 : BSBW TM_SETUP BSBW TM_CLEANUP
0000 129 :
0000 130 : INPUT PARAMETERS:
0000 131 :
0000 132 : NONE
0000 133 :
0000 134 : IMPLICIT INPUTS:
0000 135 :
0000 136 : NONE
0000 137 :
0000 138 : OUTPUT PARAMETERS:
0000 139 :
0000 140 : NONE
0000 141 :
0000 142 : IMPLICIT OUTPUTS:
0000 143 :
0000 144 : TM_SETUP: COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED;
0000 145 : ALL PRIVILEGES ACQUIRED.
0000 146 :
0000 147 : COMPLETION CODES:
0000 148 :
0000 149 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0000 150 :
0000 151 : SIDE EFFECTS:
0000 152 :
0000 153 : SS CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
0000 154 : (VIA RSB) IF ERROR ENCOUNTERED.
0000 155 :
0000 156 :--
0000 157 :
0000 158 :
0000 159 :
0000 160 TM_SETUP::
0000 161 CLRL R2 ; INITIALIZE
0000 162 CLRL R3 ; .. CONDITION
0000 163 CLRL R4 ; .... TABLE
0000 164 CLRL R5 ; ..... INDEX
0000 165 CLRL R6 ; ..... REGISTERS
0000 166 BSBW MOD MSG PRINT ; PRINT TEST MODULE BEGIN MSG
0000 167 MOVAL TEST MOD_SUCC,TMD_ADDR ; ASSUME END MSG WILL SHOW SUCCESS
0000 168 INSV #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
0000 169
0000 169 MODE TO,S$,KRNL ; KERNEL MODE TO ACCESS PHD
0000 170 MOVL @#CTL$GL PHD,R9 ; GET PROCESS HEADER ADDRESS
0000 171 MOVAL PHD$Q PRIVMSK(R9),PRIVMSK ; GET PRIV MASK ADDRESS
0000 172 MODE FROM,S$ ; BACK TO USER MODE
0000 173 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 FO 0C18
00000000'EF 0020
59 00000000'9F D0 0048
00000000'EF 69 DE 004F
0056
0057

```

	0077	174	\$SETPRN S TEST MOD_NAME_D	:	SET PROCESS NAME
	0084	175	SS CHECK NORMAL	:	CHECK STATUS CODE RETURNED FROM SETPRN
	00B2	176	\$WAKE S THISPID	:	GET 'MY' PID FOR LATER USE
	00C1	177	SS CHECK NORMAL	:	CHECK NORMAL RETURN
	00EF	178	\$HIBER S	:	UNDO WAKE
	00F6	179	SS CHECK NORMAL	:	CHECK NORMAL RETURN
05	0124	180	RSB	:	RETURN TO MAIN ROUTINE
	0125	181	TM_CLEANUP::		
FEDB'	30	0125	RSBW MOD_MSG_PRINT	:	PRINT TEST MODULE END MSG
05	0128	183	RSB	:	RETURN TO MAIN ROUTINE

```

0129 185 .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
0129 186 :++
0129 187 : FUNCTIONAL DESCRIPTION:
0129 188 :
0129 189 : CONDX AND CONDX CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED
0129 190 : BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW
0129 191 : CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON
0129 192 : ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE
0129 193 : CONDITION X TABLE IS INCLUDED IN THE CONDX SUBROUTINE AND CLEANED
0129 194 : UP, IF NECESSARY, IN THE CONDX CLEANUP SUBROUTINE. THIS INCLUDES,
0129 195 : ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO
0129 196 : OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO
0129 197 : VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE
0129 198 : (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
0129 199 :
0129 200 : CALLING SEQUENCE:
0129 201 :
0129 202 : BSBW CONDX BSBW CONDX_CLEANUP
0129 203 : WHERE X = 1,2,3,4,5
0129 204 :
0129 205 : INPUT PARAMETERS:
0129 206 :
0129 207 : CONFLICT = 0
0129 208 :
0129 209 : IMPLICIT INPUTS:
0129 210 :
0129 211 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0129 212 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0129 213 :
0129 214 : OUTPUT PARAMETERS:
0129 215 :
0129 216 : CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.
0129 217 :
0129 218 : IMPLICIT OUTPUTS:
0129 219 :
0129 220 : R2,3,4,5,6 PRESERVED
0129 221 :
0129 222 : COMPLETION CODES:
0129 223 :
0129 224 : NONE
0129 225 :
0129 226 : SIDE EFFECTS:
0129 227 :
0129 228 : NONE
0129 229 :
0129 230 : --
0129 231 :
0129 232 :
0129 233 :
05 0129 234 COND1:: ; RETURN TO MAIN ROUTINE
0129 235 RSB
05 012A 236 COND1_CLEANUP:: ; RETURN TO MAIN ROUTINE
0129 237 RSB
05 012B 238 COND2:: ; RETURN TO MAIN ROUTINE
0129 239 RSB
05 012C 240 COND2_CLEANUP:: ; RETURN TO MAIN ROUTINE
0129 241 RSB

```

```
05 012D 242 COND3::                                ; RETURN TO MAIN ROUTINE
    012D 243 RSB
05 012E 244 COND3_CLEANUP::                          ; RETURN TO MAIN ROUTINE
    012E 245 RSB
05 012F 246 COND4::                                ; RETURN TO MAIN ROUTINE
    012F 247 RSB
05 0130 248 COND4_CLEANUP::                          ; RETURN TO MAIN ROUTINE
    0130 249 RSB
05 0131 250 COND5::                                ; RETURN TO MAIN ROUTINE
    0131 251 RSB
05 0132 252 COND5_CLEANUP::                          ; RETURN TO MAIN ROUTINE
    0132 253 RSB
```

```

0133 255 .SBTTL FORM_CONDS
0133 256 :++
0133 257 : FUNCTIONAL DESCRIPTION:
0133 258 :
0133 259 : FORM CONDS FORMATS AND PRINTS INFORMATION ABOUT
0133 260 : THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
0133 261 :
0133 262 : CALLING SEQUENCE:
0133 263 :
0133 264 : BSBW FORM_CONDS
0133 265 :
0133 266 : INPUT PARAMETERS:
0133 267 :
0133 268 : NONE
0133 269 :
0133 270 : IMPLICIT INPUTS:
0133 271 :
0133 272 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0133 273 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0133 274 : FOR X = 1,2,3,4,5 :
0133 275 : CONDX_T - TITLE TEXT FOR CONDX TABLE
0133 276 : CONDX_TAB - ELEMENT TEXT FOR CONDX TABLE
0133 277 : CONDX_C - CONTEXT OF THE CONDX TABLE
0133 278 : CONDX_E - DATA ELEMENTS OF THE CONDX TABLE
0133 279 :
0133 280 : OUTPUT PARAMETERS:
0133 281 :
0133 282 : NONE
0133 283 :
0133 284 : IMPLICIT OUTPUTS:
0133 285 :
0133 286 : NONE
0133 287 :
0133 288 : COMPLETION CODES:
0133 289 :
0133 290 : NONE
0133 291 :
0133 292 : SIDE EFFECTS:
0133 293 :
0133 294 : NONE
0133 295 :
0133 296 : --
0133 297 :
0133 298 :
0133 299 :
0133 300 FORM_CONDS::
0133 301 $FAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
0152 302 :
0152 303 : FORMAT CONDITIONS HEADER MSG
14 FEAB' 30 0152 303 BSBW OUTPUT_MSG : ... AND PRINT IT
00 91 0155 304 CMPB #COND1_C,#NULL : IS CONDITION 1 NULL ?
03 12 0158 305 BNEQU 10$ : NO -- CONTINUE
00BF 31 015A 306 BRW FORM_CONDSX : YES -- SUBROUTINE IS FINISHED
0150 307 10$:
00000000'EF 0000001B'EF DE 015D 308 MOVAL COND1_T,MSG_A : SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO
00000000'EF 00000037'EF42 D0 0168 309 MOVL COND1_TAB[R2],MSG_B : SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAO
00000000'EF 00 90 0174 310 MOVB #COND1_C,MSG_TXT : SAVE CONDITION 1 CONTEXT FOR FAO
0178 311 MOV_VAL COND1_C,COND1_E[R2],MSG_DATA1 : GIVE COND 1 DATA VALUE TO FAO

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      14 FE82' 30 017B 312      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 1 MSG
      00 91 017E 313      CMPB  #COND2_C,#NULL    ; IS CONDITION 2 NULL ?
      03 12 0181 314      BNEQU 20$              ; NO -- CONTINUE
      0096 31 0183 315      BRW    FORM_CONDSX     ; YES -- SUBROUTINE IS FINISHED
                                0186 316 20$:
00000000'EF 0000009E'EF DE 0186 317      MOVAL  COND2_T,MSG_A      ; SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO
00000000'EF 000000B6'EF43 D0 0191 318      MOVL  COND2_TAB[R3],MSG_B ; SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO
      00000000'EF 00 90 019D 319      MOVB  #COND2_C,MSG_CTXT   ; SAVE CONDITION 2 CONTEXT FOR FAO
                                01A4 320      MOV VAL COND2_C,COND2_E[R3],MSG_DATA1 ; GIVE COND 2 DATA VALUE TO FAO
      FE59' 30 01A4 321      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 2 MSG
      14 14 91 01A7 322      CMPB  #COND3_C,#NULL    ; IS CONDITION 3 NULL ?
      03 12 01AA 323      BNEQU 30$              ; NO -- CONTINUE
      006D 31 01AC 324      BRW    FORM_CONDSX     ; YES -- SUBROUTINE IS FINISHED
                                01AF 325 30$:
00000000'EF 000000F4'EF DE 01AF 326      MOVAL  COND3_T,MSG_A      ; SAVE ADDRESS OF CONDITION 3 TITLE FOR FAO
00000000'EF 000000F4'EF44 D0 01BA 327      MOVL  COND3_TAB[R4],MSG_B ; SAVE ADDR OF COND 3 CURR TEXT ELT FOR FAO
      00000000'EF 14 90 01C6 328      MOVB  #COND3_C,MSG_CTXT   ; SAVE CONDITION 3 CONTEXT FOR FAO
                                01CD 329      MOV VAL COND3_C,COND3_E[R4],MSG_DATA1 ; GIVE COND 3 DATA VALUE TO FAO
      FE30' 30 01CD 330      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 3 MSG
      14 14 91 01D0 331      CMPB  #COND4_C,#NULL    ; IS CONDITION 4 NULL ?
      47 13 01D3 332      BEQLU FORM_CONDSX     ; YES -- SUBROUTINE IS FINISHED
00000000'EF 000000F5'EF DE 01D5 333      MOVAL  COND4_T,MSG_A      ; SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO
00000000'EF 000000F5'EF45 D0 01E0 334      MOVL  COND4_TAB[R5],MSG_B ; SAVE ADDR OF COND 4 CURR TEXT ELT FOR FAO
      00000000'EF 14 90 01EC 335      MOVB  #COND4_C,MSG_CTXT   ; SAVE CONDITION 4 CONTEXT FOR FAO
                                01F3 336      MOV VAL COND4_C,COND4_E[R5],MSG_DATA1 ; GIVE COND 4 DATA VALUE TO FAO
      FE0A' 30 01F3 337      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 4 MSG
      14 14 91 01F6 338      CMPB  #COND5_C,#NULL    ; IS CONDITION 5 NULL ?
      21 13 01F9 339      BEQLU FORM_CONDSX     ; YES -- SUBROUTINE IS FINISHED
00000000'EF 000000F6'EF DE 01FB 340      MOVAL  COND5_T,MSG_A      ; SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
00000000'EF 000000F6'EF46 D0 0206 341      MOVL  COND5_TAB[R6],MSG_B ; SAVE ADDR OF COND 5 CURR TEXT ELT FOR FAO
      00000000'EF 14 90 0212 342      MOVB  #COND5_C,MSG_CTXT   ; SAVE CONDITION 5 CONTEXT FOR FAO
                                0219 343      MOV VAL COND5_C,COND5_E[R6],MSG_DATA1 ; GIVE COND 5 DATA VALUE TO FAO
      FDE4' 30 0219 344      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 5 MSG
                                021C 345 FORM_CONDSX:
      05 021C 346      RSB                      ; RETURN TO CALLER

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```

021D 348 .SBTTL VERIFY
021D 349 :++
021D 350 : FUNCTIONAL DESCRIPTION:
021D 351 :
021D 352 : VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION
021D 353 : TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR
021D 354 : COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS
021D 355 : SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE
021D 356 : ($SETPRN). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED
021D 357 : BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS
021D 358 : AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF
021D 359 : COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN
021D 360 : ERR_EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY,
021D 361 : THROUGH THE SS_CHECK MACRO); ERR_EXIT SETS EFLAG TO NON-ZERO,
021D 362 : PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER.
021D 363 : WHEN ERR_EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED,
021D 364 : AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.
021D 365 :
021D 366 : CALLING SEQUENCE:
021D 367 :
021D 368 : BSBW VERIFY
021D 369 :
021D 370 : INPUT PARAMETERS:
021D 371 :
021D 372 : NONE
021D 373 :
021D 374 : IMPLICIT INPUTS:
021D 375 :
021D 376 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
021D 377 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
021D 378 : FOR X = 1,2,3,4,5 :
021D 379 : CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
021D 380 : TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
021D 381 : ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
021D 382 : FOR CONDX_E.
021D 383 :
021D 384 : OUTPUT PARAMETERS:
021D 385 :
021D 386 : NONE
021D 387 :
021D 388 : IMPLICIT OUTPUTS:
021D 389 :
021D 390 : VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS,
021D 391 : IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING
021D 392 : ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA
021D 393 : AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED
021D 394 : ERRORS.
021D 395 :
021D 396 : COMPLETION CODES:
021D 397 :
021D 398 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
021D 399 :
021D 400 : SIDE EFFECTS:
021D 401 :
021D 402 : SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
021D 403 : (VIA RSB) IF ERROR ENCOUNTERED.
021D 404 :

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```

021D 405 :--
021D 406
021D 407
021D 408
021D 409 VERIFY::
00000000'EF 95 021D 410 TSTB CFLAG ; SHOULD CONDITIONS BE PRINTED ?
03 13 0223 411 BEQL 5$ ; NO -- CONTINUE
FF0B 30 0225 412 BSBW FORM_CONDS ; YES -- FMT & PRINT ALL CONDS FOR THIS T.C.
0000000C'EF 00000000'EF B0 0228 413 5$:
53 D5 0233 414 MOVW TESTNUM,PROCNAME ; MAKE PROCESS NAME UNIQUE FOR EACH T.C.
3D 12 0233 415 TSTL R3 ; FIRST CONDITION 2 ELEMENT ?
0235 416 BNEQ 10$ ; NO -- GO PROCESS 2ND ELEMENT
0237 417 $SETPRN S PREVNAME ; YES -- ESTABLISH A 'PREVIOUS' NAME
0244 418 SS_CHECK NORMAL ; ... AND CHECK COMPLETION
37 11 0272 419 BRB 20$ ; ... CONTINUE
0274 420 10$:
0274 421 $SETPRN S ; DELETE ANY POSSIBLE NAME
027D 422 SS_CHECK NORMAL ; ... CHECK IT
58 0000008E'EF42 D0 02AB 423 20$:
02AB 424 MOVL COND1_E[R2],R8 ; GET PRCNAM ADDRESS OUT OF TABLE
02B3 425 :
02B3 426 : ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
02B3 427 :
02B3 428 $SETPRN_S (R8) ; ISSUE SUBJECT SETPRN
00000000'8F 50 D1 02BC 429 CMLP RO,#SS$_NORMAL ; CODE RECEIVED = CODE EXPECTED ?
03 12 02C3 430 BNEQU 23$ ; NO -- GO PROCESS ERROR
0061 31 02C5 431 BRW 27$ ; YES -- CONTINUE
00000000'EF 00000000'8F D0 02C8 432 23$:
00000000'EF 50 D0 02D3 434 MOVL #SS$_NORMAL,EXPV ; LOAD UP EXPECTED AND ...
ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM SETPRN>
0329 436 27$:
58 D5 0329 437 TSTL R8 ; WAS PROCESS NAME SPECIFIED ?
78 13 032B 438 BEQL 40$ ; NG -- GO DO SOME CHECKING
032D 439 : *
032D 440 : * IF FOLLOWING RESUME & SUSPND WORK TOGETHER, THEN PROCESS
032D 441 : * NAME WAS ESTABLISHED CORRECTLY.
032D 442 : *
032D 443 $RESUME S PRCNAM=(R8) ; RESUME USING PROCESS NAME
0338 444 SS_CHECK NORMAL ; ... AND CHECK RETURN
0366 445 $SOSPND S THISPID ; SUSPND THIS PROCESS USING PID
0375 446 SS_CHECK NORMAL ; ... CHECK RETURN
3D 11 03A3 447 BRB VERIFYX ; ... AND EXIT
03A5 448 40$:
03A5 449 $WAKE S PRCNAM=PREVNAME ; PRCNAM SHOULD NOT EXIST
03B4 450 SS_CHECK NONEXPR ; CHECK THAT IT DOESN'T
03E2 451 VERIFYX:
05 03E2 452 RSB ; RETURN TO CALLER

```



```

03E3 454 .SBTTL VFY_CLEANUP
03E3 455 :++
03E3 456 : FUNCTIONAL DESCRIPTION:
03E3 457 :
03E3 458 : VFY_CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE
03E3 459 : EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY_CLEANUP MUST
03E3 460 : ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN
03E3 461 : ERROR IS FOUND). ALSO, VFY_CLEANUP MAY ISSUE SS CHECK OR ERR_EXIT
03E3 462 : ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED
03E3 463 : IN THE EVENT THAT VFY_CLEANUP IS CALLED DURING ERROR PROCESSING,
03E3 464 : WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN
03E3 465 : POSSIBLY DISCOVERING A SECOND ERROR.
03E3 466 :
03E3 467 : CALLING SEQUENCE:
03E3 468 :
03E3 469 : BSBW VFY_CLEANUP
03E3 470 :
03E3 471 : INPUT PARAMETERS:
03E3 472 :
03E3 473 : NONE
03E3 474 :
03E3 475 : IMPLICIT INPUTS:
03E3 476 :
03E3 477 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
03E3 478 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
03E3 479 : FOR X = 1,2,3,4,5 :
03E3 480 : COND_X - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
03E3 481 : TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
03E3 482 : ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
03E3 483 : FOR CONDX_E.
03E3 484 :
03E3 485 : OUTPUT PARAMETERS:
03E3 486 :
03E3 487 : NONE
03E3 488 :
03E3 489 : IMPLICIT OUTPUTS:
03E3 490 :
03E3 491 : NONE
03E3 492 :
03E3 493 : COMPLETION CODES:
03E3 494 :
03E3 495 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
03E3 496 :
03E3 497 : SIDE EFFECTS:
03E3 498 :
03E3 499 : SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
03E3 500 : (VIA RSB) IF ERROR ENCOUNTERED.
03E3 501 :
03E3 502 : --
03E3 503 :
03E3 504 :
03E3 505 :
05 03E3 506 VFY_CLEANUP::
03E3 507 RSB ; RETURN TO CALLER
03E4 508 .END

```

```

SSSS = 000002E4 R 04
SSSCHARS = 0000002A
SSSCHARS1 = 00000017
SSSCHARS2 = 0000001D
SSSCHARS3 = 00000000
SSSCHARS4 = 00000000
SSSCHARS5 = 00000000
SSSCOND_A = 00000001
SSSTRINGS = 00000001
SSSTRINGS2 = 00000005
$T2 = 00000004
BYTE = 00000001
CFLAG ***** X 04
CHAR1 00000059 R 02
CHAR15 00000069 R 02
CHAR7 00000061 R 02
CHMRTN ***** X 04
CHM_CONT ***** X 04
COMP_SC ***** X 04
COND1 00000129 RG 04
COND1_C = 00000000
COND1_CLEANUP 0000012A RG 04
COND1_E 0000008E R 03
COND1_H 00000036 RG 03
COND1_T 0000001B R 03
COND1_TAB 00000037 R 03
COND2 0000012B RG 04
COND2_C = 00000000
COND2_CLEANUP 0000012C RG 04
COND2_E 000000F4 R 03
COND2_H 000000B5 RG 03
COND2_T 0000009E R 03
COND2_TAB 000000B6 R 03
COND3 0000012D RG 04
COND3_C = 00000014
COND3_CLEANUP 0000012E RG 04
COND3_H 000000F4 RG 03
COND3_T 000000F4 R 03
COND3_TAB 000000F4 R 03
COND4 0000012F RG 04
COND4_C = 00000014
COND4_CLEANUP 00000130 RG 04
COND4_H 000000F5 RG 03
COND4_T 000000F5 R 03
COND4_TAB 000000F5 R 03
COND5 00000131 RG 04
COND5_C = 00000014
COND5_CLEANUP 00000132 RG 04
COND5_H 000000F6 RG 03
COND5_T 000000F6 R 03
COND5_TAB 000000F6 R 03
CTLSGC_PHD ***** X 04
DESC = 00000010 G
EFLAG ***** X 04
EXPV ***** X 04
FAO_DESC ***** X 04
FAO_LEN ***** X 04

```

```

FORM_CONDS 00000133 RG 04
FORM_CONDSX 0000021C R 04
LONG = 000C0004 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
NOTARG = 00000000 G
NULL = 00000014 G
OUTPUT_MSG ***** X 04
PCV ***** X 04
PHDSQ_PRIVMSK = 00000000
PREVNAME 00000051 R 02
PRIVMASK 00000000 R 03
PRIV_ARGS = 00000002
PROCESS_ERR ***** X 04
PROCNAME = 0000000C R 03
QUAD = 00000008 G
RECV ***** X 04
REST_REGS ***** X 04
SAVE_REGS ***** X 04
SS$_NONEXPR ***** X 04
SS$_NORMAL ***** X 04
SUCCESS ***** X 04
SYSSCMKRNL ***** GX 04
SYSSFAO ***** X 04
SYSSHIBER ***** GX 04
SYSSRESUME ***** GX 04
SYSSSETPRN ***** GX 04
SYSSSETPRV ***** GX 04
SYSSSUSPND ***** GX 04
SYSSWAKE ***** GX 04
TESTNUM ***** X 04
TEST_MOD_NAME 00000000 RG 02
TEST_MOD_NAME_D 00000009 R 02
TEST_MOD_SUCC_D ***** X 04
THISPID 00000008 R 03
TMD_ADDR ***** X 04
TM_CLEANUP 00000125 RG 04
TM_SETUP 00000000 RG 04
VERIFY 0000021D RG 04
VFY_CLEANUP 000003E2 R 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
\$ABSS	00000000 ( 0.)	01 ( 1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
RODATA	00000071 ( 113.)	02 ( 2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	000000F7 ( 247.)	03 ( 3.)	NGPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
SATSSS44	000003E4 ( 996.)	04 ( 4.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.08	00:00:00.32
Command processing	136	00:00:00.71	00:00:01.65
Pass 1	232	00:00:05.75	00:00:13.47
Symbol table sort	0	00:00:00.45	00:00:00.99
Pass 2	105	00:00:01.57	00:00:03.44
Symbol table output	13	00:00:00.08	00:00:00.08
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	519	00:00:08.68	00:00:19.98

The working set limit was 1200 pages.  
29938 bytes (59 pages) of virtual memory were used to buffer the intermediate code.  
There were 20 pages of symbol table space allocated to hold 299 non-local and 34 local symbols.  
508 source lines were read in Pass 1, producing 23 object records in Pass 2.  
34 pages of virtual memory were used to define 25 macros.

-----  
! Macro library statistics !  
-----

Macro library name	Macros defined
-\$255\$DUA28:[SHRLIB]UETP.MLB;1	8
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	1
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	13
TOTALS (all libraries)	22

605 GETS were required to define 22 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS44/OBJ=OBJ\$:SATSSS44 MSRC\$:SATSSS44/UPDATE=(ENH\$:SATSSS44)+EXECMLS/LIB+SHRLIB\$:UETP/LIB

0423 AH-BT13A-SE  
VAX/VMS V4.0

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