


```

SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  SSSSSSSS  888888  333333
SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  SSSSSSSS  888888  333333
SS        AA      AA      TT        SS        SS        SS        88      88      33      33
SS        AA      AA      TT        SS        SS        SS        88      88      33      33
SS        AA      AA      TT        SS        SS        SS        88      88      33      33
SS        AA      AA      TT        SS        SS        SS        88      88      33      33
SSSSSSS   AA      AA      TT        SSSSSS   SSSSSS   SSSSSS   888888  33      33
SSSSSSS   AA      AA      TT        SSSSSS   SSSSSS   SSSSSS   888888  33      33
SS        AA      AA      TT        SS        SS        SS        88      88      33      33
SS        AA      AA      TT        SS        SS        SS        88      88      33      33
SS        AA      AA      TT        SS        SS        SS        88      88      33      33
SS        AA      AA      TT        SS        SS        SS        88      88      33      33
SSSSSSSS  AA      AA      TT        SSSSSSSS  SSSSSSSS  SSSSSSSS  888888  333333
SSSSSSSS  AA      AA      TT        SSSSSSSS  SSSSSSSS  SSSSSSSS  888888  333333

```

```

LL        IIIIII  SSSSSSSS
LL        IIIIII  SSSSSSSS
LL        II      SS
LL        II      SS
LL        II      SS
LL        II      SS
LL        II      SSSSSS
LL        II      SSSSSS
LL        II      SS
LL        II      SS
LL        II      SS
LL        II      SS
LLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLL IIIIII  SSSSSSSS

```

(1)	56	DECLARATIONS
(1)	86	CONDITION TABLES
(1)	112	TM SETUP, TM CLEANUP
(1)	175	CONDITION SUBROUTINES - SETUP AND CLEANUP
(1)	245	FORM CONDS
(1)	338	VERIFY
(1)	420	VFY_CLEANUP

```

0000 1 .TITLE SATSSS83 SATS SYSTEM SERVICE TESTS $SETSWM (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 SATSSS83 TO TEST SUCCESSFUL
0000 36 OPERATION OF THE $SETSWM 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: JUL, 1977
0000 47
0000 48 MODIFIED BY:
0000 49
0000 50 V03-001 KDM0002 Kathleen D. Morse 28-Jun-1982
0000 51 Added $$$DEF.
0000 52
0000 53 01 -
0000 54 --

```

```
0000 56 .SBTTL DECLARATIONS
0000 57 :
0000 58 : INCLUDE FILES:
0000 59 :
0000 60 $PRVDEF ; PRIVILEGE BIT DEFINITIONS
0000 61 $PHDDEF ; PROCESS HEADER OFFSETS
0000 62 $SSDEF ; SYSTEM STATUS CODES
0000 63 :
0000 64 : MACROS:
0000 65 :
0000 66 :
0000 67 : EQUATED SYMBOLS:
0000 68 :
0000 69 :
0000 70 : OWN STORAGE:
0000 71 :
```

SATSSS83
V04-000

```
00000000 73 .PSECT RODATA, RD, NOWRT, NOEXE, LONG
0000 74 TEST_MOD_NAME:: STRING C, <SATSSS83> ; TEST MODULE NAME
0009 75 TEST_MOD_NAME_D: STRING I, <SATSSS83> ; TEST MODULE NAME DESCRIPTOR
0019 76 MSG1_INP_CTL: STRING I, < SSSSM!4ZW: CONDITIONS:>
0039 77 ; FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
0039 78 MSG3_ERR_CTL: STRING I, < *SSSSM!4ZW: !AS>
0051 79 ; FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR
```

SATSSS83
V04-000

F 11
SATS SYSTEM SERVICE TESTS \$SETSWM (SUCC 16-SEP-1984 01:06:07 VAX/VMS Macro V04-00
DECLARATIONS 5-SEP-1984 04:34:00 [UETPSY.SRC]SATSSS83.MAR;1

Page 4
(1)

00000000	81	.PSECT	RWDATA, RD, WRT, NOEXE, LONG	
00000008	82	PRIVMASK:	.BLKQ 1	: ADDR OF PRIVILEGE MASK (IN PHD)
09 01	83	STATCODES:	.BYTE SSS_WASCLR, -	: EXPECTED
000A	84		SSS_WASSET	: ... STATUS CODES

```
000A 86 .SBTTL CONDITION TABLES
000A 87 :
000A 88 ***** CONDITION TABLES FOR SETSWM SYSTEM SERVICE *****
000A 89 :
000A 90 COND 1, LONG, <SWPFLG>, -
000A 91 <SWAPPING DISABLED>, -
000A 92 <SWAPPING ENABLED>, -
000A 93
00000000 003D 94 .LONG 0 ; DISABLED
00000001 0041 95 .LONG 1 ; ENABLED
0045 96 :
0045 97 COND 2, NOTARG, <PREVIOUS SWAP MODE>, -
0045 98 <SWAPPING PREVIOUSLY DISABLED>, -
0045 99 <SWAPPING PREVIOUSLY ENABLED>, -
0045 100
00000000 009A 101 .LONG 0 ; DISABLED
00000001 009E 102 .LONG 1 ; ENABLED
00A2 103 :
00A2 104 COND 3, NULL
00A3 105 COND 4, NULL
00A3 106 COND 5, NULL
00A4 107
00A4 108
00A5 109
00000000 110 .PSECT SATSSS83, RD, WRT, EXE
```



```

0000 112 .SBTTL TM_SETUP, TM_CLEANUP
0000 113 :++
0000 114 : FUNCTIONAL DESCRIPTION:
0000 115 :
0000 116 : TM SETUP AND TM CLEANUP ARE CALLED TO PERFORM
0000 117 : REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF
0000 118 : TEST MODULE EXECUTION.
0000 119 :
0000 120 : CALLING SEQUENCE:
0000 121 :
0000 122 : BSBW TM_SETUP BSBW TM_CLEANUP
0000 123 :
0000 124 : INPUT PARAMETERS:
0000 125 :
0000 126 : NONE
0000 127 :
0000 128 : IMPLICIT INPUTS:
0000 129 :
0000 130 : NONE
0000 131 :
0000 132 : OUTPUT PARAMETERS:
0000 133 :
0000 134 : NONE
0000 135 :
0000 136 : IMPLICIT OUTPUTS:
0000 137 :
0000 138 : TM_SETUP: COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED;
0000 139 : ALL PRIVILEGES ACQUIRED.
0000 140 :
0000 141 : COMPLETION CODES:
0000 142 :
0000 143 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0000 144 :
0000 145 : SIDE EFFECTS:
0000 146 :
0000 147 : SS CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
0000 148 : (VIA RSB) IF ERROR ENCOUNTERED.
0000 149 :
0000 150 :--
0000 151 :
0000 152 :
0000 153 :
0000 154 :

```

```

00000000'EF 00000000'EF 00000000'8F 00000000'EF
03 00 00000000'8F F0 0018 162
0020
52 D4 0000 155 CLRL R2 ; INITIALIZE
53 D4 0002 156 CLRL R3 ; .. CONDITION
54 D4 0004 157 CLRL R4 ; .... TABLE
55 D4 0006 158 CLRL R5 ; ..... INDEX
56 D4 0008 159 CLRL R6 ; ..... REGISTERS
FFF3' 30 000A 160 BSBW MOD MSG PRINT ; PRINT TEST MODULE BEGIN MSG
00000000'EF DE 000D 161 MOVAL TEST_MOD_SUCC,TMD_ADDR ; ASSUME END MSG WILL SHOW SUCCESS
03 00 00000000'8F F0 0018 162 INSV #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
0020
59 00000000'9F D0 0048 163 MODE TO,5$,KRNL ; KERNEL MODE TO ACCESS PHD
00000000'EF 69 DE 004F 164 MOVL #CTL$GL PHD,R9 ; GET PROCESS HEADER ADDRESS
0056 165 MOVAL PHD$Q PRIVMSK(R9),PRIVMASK ; GET PRIV MASK ADDRESS
0057 166 MODE FROM,5$ ; BACK TO USER MODE
167 PRIV ADD,ALL ; GET ALL PRIVILEGES

```

	0077	168	\$SETPRN S TEST_MOD_NAME_D	:	SET PROCESS NAME
	0084	169	SS_CHECK NORMAL	:	CHECK STATUS CODE RETURNED FROM SETPRN
05	00AE	170	RSB	:	RETURN TO MAIN ROUTINE
	00AF	171	TM_CLEANUP::		
FF4E'	30	00AF	BSBW MOD_MSG_PRINT	:	PRINT TEST MODULE END MSG
	05	00B2	RSB	:	RETURN TO MAIN ROUTINE

```

00B3 175 .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
00B3 176 :++
00B3 177 : FUNCTIONAL DESCRIPTION:
00B3 178 :
00B3 179 : COND1 AND COND2 CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED
00B3 180 : BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW
00B3 181 : CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON
00B3 182 : ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE
00B3 183 : CONDITION X TABLE IS INCLUDED IN THE COND1 SUBROUTINE AND CLEANED
00B3 184 : UP, IF NECESSARY, IN THE COND2 CLEANUP SUBROUTINE. THIS INCLUDES,
00B3 185 : ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO
00B3 186 : OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO
00B3 187 : VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE
00B3 188 : (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
00B3 189 :
00B3 190 : CALLING SEQUENCE:
00B3 191 :
00B3 192 : BSBW COND1 BSBW COND2_CLEANUP
00B3 193 : WHERE X = 1,2,3,4,5
00B3 194 :
00B3 195 : INPUT PARAMETERS:
00B3 196 :
00B3 197 : CONFLICT = 0
00B3 198 :
00B3 199 : IMPLICIT INPUTS:
00B3 200 :
00B3 201 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
00B3 202 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
00B3 203 :
00B3 204 : OUTPUT PARAMETERS:
00B3 205 :
00B3 206 : CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.
00B3 207 :
00B3 208 : IMPLICIT OUTPUTS:
00B3 209 :
00B3 210 : R2,3,4,5,6 PRESERVED
00B3 211 :
00B3 212 : COMPLETION CODES:
00B3 213 :
00B3 214 : NONE
00B3 215 :
00B3 216 : SIDE EFFECTS:
00B3 217 :
00B3 218 : NONE
00B3 219 :
00B3 220 :--
00B3 221 :
00B3 222 :
00B3 223 :
00B3 224 COND1::
05 00B3 225 RSB ; RETURN TO MAIN ROUTINE
00B4 226 COND1_CLEANUP::
05 00B4 227 RSB ; RETURN TO MAIN ROUTINE
00B5 228 COND2::
05 00B5 229 RSB ; RETURN TO MAIN ROUTINE
00B6 230 COND2_CLEANUP::
05 00B6 231 RSB ; RETURN TO MAIN ROUTINE

```

SATSSS83
V04-000

SATS SYSTEM SERVICE TESTS \$SETSWM (SUCC 16-SEP-1984 01:06:07 VAX/VMS Macro V04-00
CONDITION SUBROUTINES - SETUP AND CLEANU 5-SEP-1984 04:34:00 [UETPSY.SRC]SATSSS83.MAR;1

Page 9
(1)

```

05 00B7 232 COND3::
05 00B7 233 RSB ; RETURN TO MAIN ROUTINE
05 00B8 234 COND3_CLEANUP::
05 00B8 235 RSB ; RETURN TO MAIN ROUTINE
05 00B9 236 COND4::
05 00B9 237 RSB ; RETURN TO MAIN ROUTINE
05 00BA 238 COND4_CLEANUP::
05 00BA 239 RSB ; RETURN TO MAIN ROUTINE
05 00BB 240 COND5::
05 00BB 241 RSB ; RETURN TO MAIN ROUTINE
05 00BC 242 COND5_CLEANUP::
05 00BC 243 RSB ; RETURN TO MAIN ROUTINE
```

```

00BD 245 .SBTTL FORM_CONDS
00BD 246 :++
00BD 247 : FUNCTIONAL DESCRIPTION:
00BD 248 :
00BD 249 : FORM_CONDS FORMATS AND PRINTS INFORMATION ABOUT
00BD 250 : THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
00BD 251 :
00BD 252 : CALLING SEQUENCE:
00BD 253 :
00BD 254 : BSBW FORM_CONDS
00BD 255 :
00BD 256 : INPUT PARAMETERS:
00BD 257 :
00BD 258 : NONE
00BD 259 :
00BD 260 : IMPLICIT INPUTS:
00BD 261 :
00BD 262 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
00BD 263 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
00BD 264 : FOR X = 1,2,3,4,5 :
00BD 265 : COND_X_T - TITLE TEXT FOR CONDX TABLE
00BD 266 : COND_X_TAB - ELEMENT TEXT FOR CONDX TABLE
00BD 267 : COND_X_C - CONTEXT OF THE CONDX TABLE
00BD 268 : COND_X_E - DATA ELEMENTS OF THE CONDX TABLE
00BD 269 :
00BD 270 : OUTPUT PARAMETERS:
00BD 271 :
00BD 272 : NONE
00BD 273 :
00BD 274 : IMPLICIT OUTPUTS:
00BD 275 :
00BD 276 : NONE
00BD 277 :
00BD 278 : COMPLETION CODES:
00BD 279 :
00BD 280 : NONE
00BD 281 :
00BD 282 : SIDE EFFECTS:
00BD 283 :
00BD 284 : NONE
00BD 285 :
00BD 286 : --
00BD 287 :
00BD 288 :
00BD 289 :
00BD 290 FORM_CONDS::
00BD 291 $FAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
00DC 292 : FORMAT CONDITIONS HEADER MSG
00DC 293 BSBW OUTPUT_MSG : ... AND PRINT IT
14 FF21' 30 00DC 294 CMPB #COND1_C,#NULL : IS CONDITION 1 NULL ?
03 12 00E2 295 BNEQU 10$ : NO -- CONTINUE
00CB 31 00E4 296 BRW FORM_CONDSX : YES -- SUBROUTINE IS FINISHED
00E7 297 10$:
00E7 298 MOVAL COND1_T,MSG_A : SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO
00000000'EF 0000000A'EF DE 00E7 298
00000000'EF 00000012'EF42 DO 00F2 299
00000000'EF 04 90 00FE 300
0105 301 MOV_VAL COND1_C,COND1_E[R2],MSG_DATA1 ; GIVE COND 1 DATA VALUE TO FAO

```

```

    FEEC' 30 0111 302      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 1 MSG
    14 00 91 0114 303      CMPB  #COND2_C,#NULL    ; IS CONDITION 2 NULL ?
    03 12 0117 304      BNEQU 20$             ; NO -- CONTINUE
    0096 31 0119 305      BRW    FORM_CONDSX      ; YES -- SUBROUTINE IS FINISHED
                                011C 306 20$:
00000000'EF 00000045'EF DE 011C 307      MOVAL COND2_T,MSG_A      ; SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO
00000000'EF 00000059'EF43 D0 0127 308      MOVL  COND2_TAB[R3],MSG_B ; SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO
00000000'EF 00000000'EF 00 90 0133 309      MOVB  #COND2_C,MSG_CTXT  ; SAVE CONDITION 2 CONTEXT FOR FAO
                                013A 310      MOV VAL COND2_C,COND2_E[R3],MSG_DATA1 ; GIVE COND 2 DATA VALUE TO FAO
    FE3' 30 013A 311      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 2 MSG
    14 14 91 013D 312      CMPB  #COND3_C,#NULL    ; IS CONDITION 3 NULL ?
    03 12 0140 313      BNEQU 30$             ; NO -- CONTINUE
    006D 31 0142 314      BRW    FORM_CONDSX      ; YES -- SUBROUTINE IS FINISHED
                                0145 315 30$:
00000000'EF 000000A2'EF DE 0145 316      MOVAL COND3_T,MSG_A      ; SAVE ADDRESS OF CONDITION 3 TITLE FOR FAO
00000000'EF 000000A2'EF44 D0 0150 317      MOVL  COND3_TAB[R4],MSG_B ; SAVE ADDR OF COND 3 CURR TEXT ELT FOR FAO
00000000'EF 00000000'EF 14 90 015C 318      MOVB  #COND3_C,MSG_CTXT  ; SAVE CONDITION 3 CONTEXT FOR FAO
                                0163 319      MOV VAL COND3_C,COND3_E[R4],MSG_DATA1 ; GIVE COND 3 DATA VALUE TO FAO
    FE9A' 30 0163 320      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 3 MSG
    14 14 91 0166 321      CMPB  #COND4_C,#NULL    ; IS CONDITION 4 NULL ?
    47 13 0169 322      BEQLU  FORM_CONDSX      ; YES -- SUBROUTINE IS FINISHED
00000000'EF 000000A3'EF DE 016B 323      MOVAL COND4_T,MSG_A      ; SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO
00000000'EF 000000A3'EF45 D0 0176 324      MOVL  COND4_TAB[R5],MSG_B ; SAVE ADDR OF COND 4 CURR TEXT ELT FOR FAO
00000000'EF 00000000'EF 14 90 0182 325      MOVB  #COND4_C,MSG_CTXT  ; SAVE CONDITION 4 CONTEXT FOR FAO
                                0189 326      MOV VAL COND4_C,COND4_E[R5],MSG_DATA1 ; GIVE COND 4 DATA VALUE TO FAO
    FE74' 30 0189 327      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 4 MSG
    14 14 91 018C 328      CMPB  #COND5_C,#NULL    ; IS CONDITION 5 NULL ?
    21 13 018F 329      BEQLU  FORM_CONDSX      ; YES -- SUBROUTINE IS FINISHED
00000000'EF 000000A4'EF DE 0191 330      MOVAL COND5_T,MSG_A      ; SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
00000000'EF 000000A4'EF46 D0 019C 331      MOVL  COND5_TAB[R6],MSG_B ; SAVE ADDR OF COND 5 CURR TEXT ELT FOR FAO
00000000'EF 00000000'EF 14 90 01A8 332      MOVB  #COND5_C,MSG_CTXT  ; SAVE CONDITION 5 CONTEXT FOR FAO
                                01AF 333      MOV VAL COND5_C,COND5_E[R6],MSG_DATA1 ; GIVE COND 5 DATA VALUE TO FAO
    FE4E' 30 01AF 334      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 5 MSG
                                01B2 335 FORM_CONDSX:
    05 01B2 336      RSB    ; RETURN TO CALLER

```

```

0183 338 .SBTTL VERIFY
0183 339 :++
0183 340 : FUNCTIONAL DESCRIPTION:
0183 341 :
0183 342 : VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION
0183 343 : TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR
0183 344 : COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS
0183 345 : SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE
0183 346 : ($SETSWM). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED
0183 347 : BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS
0183 348 : AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF
0183 349 : COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN
0183 350 : ERR_EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY,
0183 351 : THROUGH THE SS_CHECK MACRO); ERR_EXIT SETS EFLAG TO NON-ZERO,
0183 352 : PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER.
0183 353 : WHEN ERR_EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED,
0183 354 : AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.
0183 355 :
0183 356 : CALLING SEQUENCE:
0183 357 :
0183 358 : BSBW VERIFY
0183 359 :
0183 360 : INPUT PARAMETERS:
0183 361 :
0183 362 : NONE
0183 363 :
0183 364 : IMPLICIT INPUTS:
0183 365 :
0183 366 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0183 367 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0183 368 : FOR X = 1,2,3,4,5 :
0183 369 : CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
0183 370 : TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
0183 371 : ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
0183 372 : FOR CONDX_E.
0183 373 :
0183 374 : OUTPUT PARAMETERS:
0183 375 :
0183 376 : NONE
0183 377 :
0183 378 : IMPLICIT OUTPUTS:
0183 379 :
0183 380 : VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS,
0183 381 : IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING
0183 382 : ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA
0183 383 : AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED
0183 384 : ERRORS.
0183 385 :
0183 386 : COMPLETION CODES:
0183 387 :
0183 388 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0183 389 :
0183 390 : SIDE EFFECTS:
0183 391 :
0183 392 : SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
0183 393 : (VIA RSB) IF ERROR ENCOUNTERED.
0183 394 :
  
```

```
01B3 395 :--
01B3 396
01B3 397
01B3 398
01B3 399 VERIFY::
00000000'EF 95 01B3 400 TSTB CFLAG ; SHOULD CONDITIONS BE PRINTED ?
03 13 01B9 401 BEQL 5$ ; NO -- CONTINUE
FEFF 30 01BB 402 BSBW FORM_CONDS ; YES -- FMT & PRINT ALL CONDS FOR THIS T.C.
01BE 403 5$: $SETSWM_S COND2_E[R3] ; ISSU PRELIM SERV TO ESTAB 'PREV' CONDITION
01BE 404
01CC 405 :
01CC 406 : ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
01CC 407 :
01CC 408 $SETSWM_S SWPFLG[R2] ; ISSUE SUBJECT SERVICE
59 00000008'EF43 9A 01DA 409 MOVZBL -STATCODES[R3],R9 ; GET EXPECTED STATUS CODE
59 50 D1 01E2 410 CML R0,R9 ; CODE RECEIVED = CODE EXPECTED ?
03 12 01E5 411 BNEQ 10$ ; NO -- GO PROCESS ERROR
005B 31 01E7 412 BRW VERIFYX ; YES -- ALL FINISHED
01EA 413 10$:
00000000'EF 59 D0 01EA 414 MOVL R9,EXPV ; LOAD UP EXPECTED AND
00000000'EF 50 D0 01F1 415 MOVL R0,RCV ; ... RECEIVED VALUES, THEN EXIT
01F8 416 ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED BY SETSWM>
0245 417 VERIFYX:
05 0245 418 RSB ; RETURN TO CALLER
```



```

0246 420      .SBTTL VFY_CLEANUP
0246 421      :++
0246 422      : FUNCTIONAL DESCRIPTION:
0246 423      :
0246 424      :           VFY_CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE
0246 425      : EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY_CLEANUP MUST
0246 426      : ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN
0246 427      : ERROR IS FOUND). ALSO, VFY_CLEANUP MAY ISSUE SS_CHECK OR ERR_EXIT
0246 428      : ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED
0246 429      : IN THE EVENT THAT VFY_CLEANUP IS CALLED DURING ERROR PROCESSING,
0246 430      : WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN
0246 431      : POSSIBLY DISCOVERING A SECOND ERROR.
0246 432      :
0246 433      : CALLING SEQUENCE:
0246 434      :
0246 435      :           BSBW VFY_CLEANUP
0246 436      :
0246 437      : INPUT PARAMETERS:
0246 438      :
0246 439      :           NONE
0246 440      :
0246 441      : IMPLICIT INPUTS:
0246 442      :
0246 443      :           R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0246 444      :           FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0246 445      :           FOR X = 1,2,3,4,5 :
0246 446      :           COND_X E - ADDRESS OF TABLE OF DATA VALUES FOR COND_X
0246 447      :           TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
0246 448      :           ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
0246 449      :           FOR COND_X_E.
0246 450      :
0246 451      : OUTPUT PARAMETERS:
0246 452      :
0246 453      :           NONE
0246 454      :
0246 455      : IMPLICIT OUTPUTS:
0246 456      :
0246 457      :           NONE
0246 458      :
0246 459      : COMPLETION CODES:
0246 460      :
0246 461      :           EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0246 462      :
0246 463      : SIDE EFFECTS:
0246 464      :
0246 465      :           SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
0246 466      :           (VIA RSB) IF ERROR ENCOUNTERED.
0246 467      :
0246 468      : --
0246 469      :
0246 470      :
0246 471      :
0246 472      VFY_CLEANUP::
0246 473      $SETSWM_S #1           ; MAKE SURE SWAPPING IS ENABLED
05 0246 474      RSB           ; RETURN TO CALLER
0250 475      .END

```

SSSS	= 00000202	R	04	MOD_MSG_CODE	*****	X	04
SSSCHARS	= 00000028			MOD_MSG_PRINT	*****	X	04
SSSCHARS1	= 0000001C			MSGT_INP_CTL	00000019	R	02
SSSCHARS2	= 0000001B			MSG3_ERR_CTL	00000039	RG	02
SSSCHARS3	= 00000000			MSG_A	*****	X	04
SSSCHARS4	= 00000000			MSG_B	*****	X	04
SSSCHARS5	= 00000000			MSG_CTXT	*****	X	04
SSSCOND_A	= 00000001			MSG_DATA1	*****	X	04
SSSTRINGS	= 00000001			NOTARG	= 00000000	G	
SSSTRINGS2	= 00000005			NULL	= 00000014	G	
SS12	= 00000004			OUTPUT_MSG	*****	X	04
BYTE	= 00000001	G		PCV	*****	X	04
CFLAG	*****	X	04	PHD\$Q_PRIVMSK	= 00000000		
CHMRTN	*****	X	04	PRIVMSK	00000000	R	03
CHM_CONT	*****	X	04	PRIV_ARGS	= 00000002		
COMP_SC	*****	X	04	PROCESS_ERR	*****	X	04
COND1	000000B3	RG	04	QUAD	= 00000008	G	
COND1_C	= 00000004			RECV	*****	X	04
COND1_CLEANUP	000000B4	RG	04	REST_REGS	*****	X	04
COND1_E	0000003D	R	03	SAVE_REGS	*****	X	04
COND1_H	00000011	RG	03	SS\$NORMAL	= 00000001		
COND1_T	0000000A	R	03	SS\$WASCLR	= 00000001		
COND1_TAB	00000012	R	03	SS\$WASSET	= 00000009		
COND2	000000B5	RG	04	STATCODES	00000008	R	03
COND2_C	= 00000000			SUCCESS	*****	X	04
COND2_CLEANUP	000000B6	RG	04	SWPFLG	0000003D	R	03
COND2_E	0000009A	R	03	SYSSCMKRNL	*****	GX	04
COND2_H	00000058	RG	03	SYSSFAO	*****	X	04
COND2_T	00000045	R	03	SYSSSETPRN	*****	GX	04
COND2_TAB	00000059	R	03	SYSSSETPRV	*****	GX	04
COND3	000000B7	RG	04	SYSSSETSWM	*****	GX	04
COND3_C	= 00000014			TESTNUM	*****	X	04
COND3_CLEANUP	000000B8	RG	04	TEST_MOD_NAME	00000000	RG	02
COND3_H	000000A2	RG	03	TEST_MOD_NAME_D	00000009	R	02
COND3_T	000000A2	R	03	TEST_MOD_SUCC_D	*****	X	04
COND3_TAB	000000A2	R	03	TMD_ADDR	*****	X	04
COND4	000000B9	RG	04	TM_CLEANUP	000000AF	RG	04
COND4_C	= 00000014			TM_SETUP	00000000	RG	04
COND4_CLEANUP	000000BA	RG	04	VERIFY	000001B3	RG	04
COND4_H	000000A3	RG	03	VERIFYX	00000245	R	04
COND4_T	000000A3	R	03	VFY_CLEANUP	00000246	RG	04
COND4_TAB	000000A3	R	03	WORD	= 00000002	G	
COND5	000000B8	RG	04	WRITE_MSG2	*****	X	04
COND5_C	= 00000014						
COND5_CLEANUP	000000BC	RG	04				
COND5_H	000000A4	RG	03				
COND5_T	000000A4	R	03				
COND5_TAB	000000A4	R	03				
CTL\$GC_PHD	*****	X	04				
DESC	= 00000010	G					
EFLAG	*****	X	04				
EXPV	*****	X	04				
FAO_DESC	*****	X	04				
FAO_LEN	*****	X	04				
FORM_CONDS	000000BD	RG	04				
FORM_CONDSX	000001B2	R	04				
LONG	= 00000004	G					

+-----+
! 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	00000051 (81.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	000000A5 (165.)	03 (3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
SATSSS83	00000250 (592.)	04 (4.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	35	00:00:00.08	00:00:00.65
Command processing	133	00:00:00.69	00:00:03.39
Pass 1	282	00:00:08.42	00:00:15.16
Symbol table sort	0	00:00:01.08	00:00:01.19
Pass 2	98	00:00:01.81	00:00:04.76
Symbol table output	12	00:00:00.13	00:00:00.36
Psect synopsis output	3	00:00:00.03	00:00:00.04
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	565	00:00:12.24	00:00:25.55

The working set limit was 1500 pages.
44664 bytes (88 pages) of virtual memory were used to buffer the intermediate code.
There were 40 pages of symbol table space allocated to hold 698 non-local and 14 local symbols.
475 source lines were read in Pass 1, producing 20 object records in Pass 2.
33 pages of virtual memory were used to define 24 macros.

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

Macro library name	Macros defined
-\$255\$DUA28:[SHRLIB]UETP.MLB;1	9
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	1
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	11
TOTALS (all libraries)	21

1005 GETS were required to define 21 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS83/OBJ=OBJ\$:SATSSS83 MSRC\$:SATSSS83/UPDATE=(ENH\$:SATSSS83)+EXECMLS/LIB+SHRLIB\$:UETP/LIB

