

[illegible][illegible]

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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          II             SS
LLLLLLLLLLLL IIIIII          SSSSSSSS
LLLLLLLLLLLL IIIIII          SSSSSSSS

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(1)	55	DECLARATIONS
(1)	111	CONDITION TABLES
(1)	148	TM SETUP, TM CLEANUP
(1)	247	CONDITION SUBROUTINES - SETUP AND CLEANUP
(1)	335	FORM CONDS
(1)	428	VERIFY
(1)	578	VFY_CLEANUP


```
0000 1      .TITLE SATSSS36 SATS SYSTEM SERVICE TESTS $DELPRC (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 SATSSS36 TO TEST SUCCESSFUL
0000 36 :      OPERATION OF THE $DELPRC SYSTEM SERVICE. THE SERVICE IS INVOKED
0000 37 :      UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY
0000 38 :      SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT
0000 39 :      OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY
0000 40 :      CHECKING FOR AN SS$ 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: MAR, 1978
0000 47 :
0000 48 : MODIFIED BY:
0000 49 :
0000 50 :      V03-001 LDJ0001          Larry D. Jones,          23-Jun-1983
0000 51 :      Set quotas to ones to force the use of the sysboot minimum
0000 52 :      values so that they could be tested.
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 $PQLDEF ; PROCESS QUOTA CODES
0000 62 $PCBDEF ; PCB LABELS
0000 63 $MSGDEF ; MAILBOX MSG IDENTIFIERS
0000 64 $LOGDEF ; LOGICAL NAME TABLE TYPE SYMBOLS
0000 65 $DIBDEF ; DEVICE INFO BLOCK OFFSETS
0000 66 :
0000 67 : MACROS:
0000 68 :
0000 69 :
0000 70 : EQUATED SYMBOLS:
0000 71 :
0000 72 :
0000 73 : OWN STORAGE:
0000 74 :

```



```
00000000 76 .PSECT RODATA, RD, NOWRT, NOEXE, LONG
0000 77 TEST_MOD_NAME:: STRING C, <SATSSS36> ; TEST MODULE NAME
0009 78 TEST_MOD_NAME_D: STRING I, <SATSSS36> ; TEST MODULE NAME DESCRIPTOR
0019 79 MSG1_INP_CTL: STRING I, <SSDPC!4ZW: CONDITIONS:>
0039 80 ;
0039 81 MSG3_ERR_CTL:: STRING I, <*SSDPC!4ZW: !AS> ; FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR
0051 82 ;
0051 83 ONE_MIN: .LONG -10*1000*1000*60, -1 ; ONE MINUTE (WAKE-UP DELTA)
FFFFFFFF DC3CBA00 0059 84 CREATED_PRN: STRING I, <SATSSS36 CRE> ; PROCESS & MBX NAME FOR CREATED PROCESS
006D 85 IMAGNAM: STRING I, <SYSTST$RES: SATSUT14.EXE> ; IMAGE NAME FOR CREATED PROC
008C 86 LOGNAM_PID: STRING I, <SYSTST$PID> ; LOG NAME OF CREATING PID
00000004 009E 87 EQUIV_PID: .LONG 4 ; EQUIV NAME STRING DESCRIPTOR
00000114 00A2 88 .ADDRESS CREATING_PID ; ... OF CREATING PID
00A6 89 ;QUOTALIST: $QUOTA CPULM, 0 ; INFINITE CPU
00A6 90 : $QUOTA BYTLM, 1 ; Force minimums to be used
00A6 91 : $QUOTA FILLM, 1
00A6 92 : $QUOTA PGFLQUOTA, 1
00A6 93 : $QUOTA PRCLM, 1
00A6 94 : $QUOTA TQELM, 1
00A6 95 : $QUOTA LISTEND ; DEFINES END OF LIST
```


00000000	97	.PSECT	RWDATA, RD, WRT, NOEXE, LONG	
00000008	0000	98 PRIVMASK:	.BLKQ 1	; ADDR OF PRIVILEGE MASK (IN PHD)
0000000C	0008	99 MBXCHAN:	.BLKL 1	; CHAN NO. FOR MAILBOX FOR CREATED PROCESS
	000C	100 MBXCHANINFO:		; CHANNEL INFO RETURNED BY GETCHN
00000074	000C	101	.LONG DIB\$K_LENGTH	
00000014	0010	102	.ADDRESS +4	
00000088	0014	103	.BLKB DIB\$K_LENGTH	
0000008C	0088	104 MBXUNIT:	.BLKL 1	; SAVE AREA FOR MAILBOX UNIT NUMBER
	008C	105 MBXBUFF:	STRING 0,120	; MAILBOX BUFFER FOR CREATED PROCESS
00000110	010C	106 DEST_PIDADR:	.BLKL 1	; DESTINATION PID ADDR, WRITTEN BY SUBJ S.S.
00000114	0110	107 ZERO_PID:	.BLKL 1	; PID OF ZEROES
00000000	0114	108 CREATING_PID:	.LONG 0	; PID OF CREATING PROCESS
0000011C	0118	109 CREATED_PID:	.BLKL 1	; PID OF CREATED PROCESS


```
.SBTTL CONDITION TABLES
***** CONDITION TABLES FOR DELPRC SYSTEM SERVICE *****
COND 1,NOTARG,<PID ADDRESS>,-
      <NOT SPECIFIED>,-
      <SPECIFIED, NON-ZERO>,-
      <SPECIFIED, ZERO>,-
      .ADDRESS 0
      .ADDRESS CREATED_PID
      .ADDRESS ZEROPID
COND 2,NOTARG,<PROCESS NAME ADDRESS>,-
      <SPECIFIED>,-
      <NOT SPECIFIED>,-
      .ADDRESS CREATED_PRN
      .ADDRESS 0
COND 3,NOTARG,<CREATED PROCESS TYPE>,-
      <SUBPROCESS>,-
      <DETACHED, DIFFERENT GROUP>,-
      <DETACHED, SAME GROUP, SAME MEMBER>,-
      <DETACHED, SAME GROUP, DIFFERENT MEMBER>,-
      .LONG 0 : PSEUDO-UIC
      .BLKL 1 : UIC
      .BLKL 1 : UIC
      .BLKL 1 : UIC
COND 4,NULL
COND 5,NULL
.PSECT SATSSS36,RD,WRT,EXE
```

	011C	111
	011C	112 ;
	011C	113 ;
	011C	114 ;
	011C	115 ;
	011C	116
	011C	117
	011C	118
	011C	119
00000000	0167	120
00000118	016B	121
00000110	016F	122
	0173	123 ;
	0173	124 ;
	0173	125 ;
	0173	126 ;
	0173	127 ;
00000059	01A9	128
00000000	01AD	129
	01B1	130 ;
	01B1	131 ;
	01B1	132 ;
	01B1	133 ;
	01B1	134 ;
	01B1	135 ;
	01B1	136 ;
00000000	0245	137
0000024D	0249	138
00000251	024D	139
00000255	0251	140
	0255	141 ;
	0255	142 ;
	0256	143 ;
	0256	144 ;
	0257	145 ;
00000000		146

```
0000 148 .SBTTL TM_SETUP, TM_CLEANUP
0000 149 :++
0000 150 : FUNCTIONAL DESCRIPTION:
0000 151 :
0000 152 : TM_SETUP AND TM_CLEANUP ARE CALLED TO PERFORM
0000 153 : REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF
0000 154 : TEST MODULE EXECUTION.
0000 155 :
0000 156 : CALLING SEQUENCE:
0000 157 :
0000 158 : BSBW TM_SETUP BSBW TM_CLEANUP
0000 159 :
0000 160 : INPUT PARAMETERS:
0000 161 :
0000 162 : NONE
0000 163 :
0000 164 : IMPLICIT INPUTS:
0000 165 :
0000 166 : NONE
0000 167 :
0000 168 : OUTPUT PARAMETERS:
0000 169 :
0000 170 : NONE
0000 171 :
0000 172 : IMPLICIT OUTPUTS:
0000 173 :
0000 174 : TM_SETUP: COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED;
0000 175 : ALL PRIVILEGES ACQUIRED.
0000 176 :
0000 177 : COMPLETION CODES:
0000 178 :
0000 179 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0000 180 :
0000 181 : SIDE EFFECTS:
0000 182 :
0000 183 : SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
0000 184 : (VIA RSB) IF ERROR ENCOUNTERED.
0000 185 :
0000 186 :--
0000 187 :
0000 188 :
0000 189 :
0000 190 TM_SETUP::
52 D4 0000 191 CLRL R2 ; INITIALIZE
53 D4 0002 192 CLRL R3 ; .. CONDITION
54 D4 0004 193 CLRL R4 ; .... TABLE
55 D4 0006 194 CLRL R5 ; ..... INDEX
56 D4 0008 195 CLRL R6 ; ..... REGISTERS
00000000'EF 00000000'EF FFF3' 30 000A 196 BSBW MOD MSG PRINT ; PRINT TEST MODULE BEGIN MSG
03 00 00000000'8F FO 0018 197 MOVAL TEST_MOD_SUCC,TMD_ADDR ; ASSUME END MSG WILL SHOW SUCCESS
00000000'EF 0020 198 INSV #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
59 00000000'9F DO 0048 199 MODE TO,5$,KRNL ; KERNEL MODE TO ACCESS PHD
00000000'EF 69 DE 004F 200 MOVL @#CTL$GL_PHD,R9 ; GET PROCESS HEADER ADDRESS
0056 201 MOVAL PHD$Q,PRIVMSK(R9),PRIVMASK ; GET PRIV MASK ADDRESS
0057 202 MODE FROM,5$ ; BACK TO USER MODE
203 PRIV ADD,ALL ; GET ALL PRIVILEGES
```



```
0077 204 $SETPRN S TEST_MOD_NAME_D : SET PROCESS NAME
0084 205 SS_CHECK NORMAL : CHECK STATUS CODE RETURNED FROM SETPRN
00B2 206 $WAKE S PIDADR=CREATING_PID : GET MY PID
00C1 207 SS_CHECK NORMAL : CHECK FOR NORMAL RETURN
00EF 208 $HIBER S : UNDO ABOVE WAKE
00F6 209 SS_CHECK NORMAL : CHECK FOR NORMAL RETURN
0124 210 $CRELOG_S TBLFLG=#LOG$C_SYSTEM, : GET MY PID INTO LOG NAME TABLE
0124 211 LOGNAM=LOGNAM_PID, - : ... FOR USE BY CREATED PROCESS
0124 212 EQLNAM=EQUIV_PID
2E 50 E8 013B 213 BLBS R0,10$ : IF SUCCESSFUL, CONTINUE
013E 214 SS_CHECK NORMAL : USE SS_CHECK TO TERMINATE MODULE
016C 215 10$:
016C 216 :
016C 217 : THE FOLLOWING CODE ESTABLISHES UIC'S IN THE CONDITION 3 TABLE
016C 218 :
016C 219 MODE TO,20$,KRNL : KERNEL MODE TO ACCESS PCB
59 00000000'9F D0 018F 220 MOVL @#$CH$GL_CURPCB,R9 : GET CURRENT PCB ADDRESS
59 00BC C9 D0 0196 221 MOVL PCB$UIC(R9),R9 : PICK UP UIC FROM PCB
019B 222 MODE FROM,20$ : ... AND GET BACK TO USER MODE
019C 223 : R9 NOW CONTAINS 'MY' UIC
59 5A 01 9A 019C 224 MOVZBL #1,R10 : GET COND3 TABLE INDEX NUMBER INTO A REG
59 00010000 8F C1 019F 225 ADDL3 #^X10000,R9,COND3_E[R10] : PUT DIFF GROUP UIC INTO 2ND TABLE ELT
00000245'EF4A 5A D6 01AC 226 INCL R10 : POINT TO 3RD COND3 TABLE ELEMENT
00000245'EF4A 59 D0 01AE 227 MOVL R9,COND3_E[R10] : PUT MY UIC INTO TABLE
00000245'EF4A 5A D6 01B6 228 INCL R10 : POINT TO 4TH COND3 TABLE ELEMENT
00000245'EF4A 59 01 C1 01B8 229 ADDL3 #1,R9,COND3_E[R10] : PUT DIFF MEMBER UIC INTO THE TABLE
01C1 230 $CREMBX_S CHAN=MBXCHAN, LOGNAM=CREATED PRN, -
01C1 231 MAXMSG=#120, PROMSK=#0, BUFQ00=#240
01E6 232 : GET MAILBOX FOR PROCESS
01E6 233 SS_CHECK NORMAL : CHECK NORMAL COMPLETION
0214 234 $GETCHN_S CHAN=MBXCHAN, PRIBUF=MBXCHANINFO
022E 235 : GET CHAN INFO (UNIT NUMBER)
022E 236 SS_CHECK NORMAL : CHECK NORMAL COMPLETION
00000088'EF 00000020'EF 3C 025C 237 MOVZWL MBXCHANINFO+8+DIB$W_UNIT,MBXUNIT
0267 238 : SAVE MAILBOX UNIT NUMBER
05 0267 239 RSB : RETURN TO MAIN ROUTINE
0268 240 TM_CLEANUP::
0268 241 $DELMBX_S MBXCHAN : DELETE TERMINATION MAILBOX
0276 242 $DELLOG_S TBLFLG=#LOG$C_SYSTEM, - : DELETE LOG NAME ACQUIRED ABOVE
0276 243 LOGNAM=LOGNAM_PID
FD76' 30 0287 244 BSBW MOD_MSG_PRINT : PRINT TEST MODULE END MSG
05 028A 245 RSB : RETURN TO MAIN ROUTINE
```

```
028B 247 .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
028B 248 :++
028B 249 : FUNCTIONAL DESCRIPTION:
028B 250 :
028B 251 : COND X AND COND X CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED
028B 252 : BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW
028B 253 : CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON
028B 254 : ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE
028B 255 : CONDITION X TABLE IS INCLUDED IN THE COND X SUBROUTINE AND CLEANED
028B 256 : UP, IF NECESSARY, IN THE COND X CLEANUP SUBROUTINE. THIS INCLUDES,
028B 257 : ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO
028B 258 : OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO
028B 259 : VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE
028B 260 : (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
028B 261 :
028B 262 : CALLING SEQUENCE:
028B 263 :
028B 264 : BSBW COND X BSBW COND X_CLEANUP
028B 265 : WHERE X = 1,2,3,4,5
028B 266 :
028B 267 : INPUT PARAMETERS:
028B 268 :
028B 269 : CONFLICT = 0
028B 270 :
028B 271 : IMPLICIT INPUTS:
028B 272 :
028B 273 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
028B 274 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
028B 275 :
028B 276 : OUTPUT PARAMETERS:
028B 277 :
028B 278 : CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.
028B 279 :
028B 280 : IMPLICIT OUTPUTS:
028B 281 :
028B 282 : R2,3,4,5,6 PRESERVED
028B 283 :
028B 284 : COMPLETION CODES:
028B 285 :
028B 286 : NONE
028B 287 :
028B 288 : SIDE EFFECTS:
028B 289 :
028B 290 : NONE
028B 291 :
028B 292 : --
028B 293 :
028B 294 :
028B 295 :
028B 296 COND1::
05 028B 297 RSB ; RETURN TO MAIN ROUTINE
028C 298 COND1_CLEANUP::
05 028C 299 RSB ; RETURN TO MAIN ROUTINE
028D 300 COND2::
028D 301 CMPL #ZEROPID,COND1_E[R2] ; PID SPECIFIED AS 0 ??
12 0299 302 BNEQU COND2X ; NO -- NO CONFLICT
D5 029B 303 TSTL COND2_E[R3] ; YES -- IS THERE A PROCESS NAME ??
```



```
00000000'EF 00000000'OB 12 02A2 304 BNEQU COND2X ; YES -- NO CONFLICT
00000000'EF 00000000'EF 90 02A4 305 MOVB ONES,CONFLICT ; NO -- INDICATE CONFLICT BECAUSE THIS TYPE
02AF 306 ; ... OF DELPRC WOULD DELETE CREATING PROC
02AF 307 COND2X: ;
05 02AF 308 RSB ; RETURN TO MAIN ROUTINE
02B0 309 COND2_CLEANUP:: ;
05 02B0 310 RSB ; RETURN TO MAIN ROUTINE
02B1 311 COND3:: ;
00000167'EF42 00000118'8F D1 02B1 312 CMPL #CREATED_PID,COND1_E[R2] ; NON-ZERO PID SPECIFIED ?
19 13 02BD 313 BEQLU COND3X ; YES -- NO CONFLICT
000001A9'EF43 D5 02BF 314 TSTL COND2_E[R3] ; IS PROCESS NAME SPECIFIED ?
10 13 02C6 315 BEQL COND3X ; NO -- NO CONFLICT
02C8 316 ;
02C8 317 ; NOTE -- AT THIS POINT, PROCESS WILL BE REFERENCED BY PROCESS NAME.
02C8 318 ;
01 54 D1 02C8 319 CMPL R4,#1 ; DOES CONDITION 3 SPECIFY DIFFERENT GROUP ?
00000000'EF 00000000'EF 12 02CB 320 BNEQ COND3X ; NO -- NO CONFLICT
90 02CD 321 MOVB ONES,CONFLICT ; YES -- PROCESS NAME FOR DIFF GROUP IS CONF
02D8 322 COND3X: ;
05 02D8 323 RSB ; RETURN TO MAIN ROUTINE
02D9 324 COND3_CLEANUP:: ;
05 02D9 325 RSB ; RETURN TO MAIN ROUTINE
02DA 326 COND4:: ;
05 02DA 327 RSB ; RETURN TO MAIN ROUTINE
02DB 328 COND4_CLEANUP:: ;
05 02DB 329 RSB ; RETURN TO MAIN ROUTINE
02DC 330 COND5:: ;
05 02DC 331 RSB ; RETURN TO MAIN ROUTINE
02DD 332 COND5_CLEANUP:: ;
05 02DD 333 RSB ; RETURN TO MAIN ROUTINE
```

```
02DE 335 .SBTTL FORM_CONDS
02DE 336 :++
02DE 337 : FUNCTIONAL DESCRIPTION:
02DE 338 :
02DE 339 : FORM_CONDS FORMATS AND PRINTS INFORMATION ABOUT
02DE 340 : THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
02DE 341 :
02DE 342 : CALLING SEQUENCE:
02DE 343 :
02DE 344 : BSBW FORM_CONDS
02DE 345 :
02DE 346 : INPUT PARAMETERS:
02DE 347 :
02DE 348 : NONE
02DE 349 :
02DE 350 : IMPLICIT INPUTS:
02DE 351 :
02DE 352 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
02DE 353 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
02DE 354 : FOR X = 1,2,3,4,5 :
02DE 355 : COND_X_T - TITLE TEXT FOR CONDX TABLE
02DE 356 : COND_X_TAB - ELEMENT TEXT FOR CONDX TABLE
02DE 357 : COND_X_C - CONTEXT OF THE CONDX TABLE
02DE 358 : COND_X_E - DATA ELEMENTS OF THE CONDX TABLE
02DE 359 :
02DE 360 : OUTPUT PARAMETERS:
02DE 361 :
02DE 362 : NONE
02DE 363 :
02DE 364 : IMPLICIT OUTPUTS:
02DE 365 :
02DE 366 : NONE
02DE 367 :
02DE 368 : COMPLETION CODES:
02DE 369 :
02DE 370 : NONE
02DE 371 :
02DE 372 : SIDE EFFECTS:
02DE 373 :
02DE 374 : NONE
02DE 375 :
02DE 376 : --
02DE 377 :
02DE 378 :
02DE 379 :
02DE 380 FORM_CONDS::
02DE 381 $FAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
02FD 382 : FORMAT CONDITIONS HEADER MSG
02FD 383 BSBW OUTPUT_MSG : ... AND PRINT IT
14 FD00' 30 02FD 384 CMPB #COND1_C,#NULL : IS CONDITION 1 NULL ?
00 91 0300 385 BNEQU 10$ : NO -- CONTINUE
03 12 0303 386 BRW FORM_CONDSX : YES -- SUBROUTINE IS FINISHED
00BF 31 0305 387 10$:
00000000'EF 0000011C'EF DE 0308 388 MOVAL COND1_T,MSG_A : SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO
00000000'EF 00000129'EF42 D0 0313 389 MOVL COND1_TAB[R2],MSG_B : SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAO
00000000'EF 00 90 031F 390 MOVB #COND1_C,MSG_CTXT : SAVE CONDITION 1 CONTEXT FOR FAO
0326 391 MOV_VAL COND1_C,COND1_E[R2],MSG_DATA1 : GIVE COND 1 DATA VALUE TO FAO
```



```

      FCD7' 30 0326 392      BSBW WRITE_MSG2      ; FORMAT AND WRITE CONDITION 1 MSG
      14 00 91 0329 393      CMPB #COND2_C,#NULL    ; IS CONDITION 2 NULL ?
      03 12 032C 394      BNEQU 20$                ; NO -- CONTINUE
      0096 31 032E 395      BRW FORM_CONDSX          ; YES -- SUBROUTINE IS FINISHED
      0331 396 20$:
00000000'EF 00000173'EF DE 0331 397      MOVAL COND2_T,MSG_A      ; SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO
00000000'EF 00000189'EF43 D0 033C 398      MOVL COND2_TAB[R3],MSG_B    ; SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO
      00000000'EF 00 90 0348 399      MOVB #COND2_C,MSG_CTXT      ; SAVE CONDITION 2 CONTEXT FOR FAO
      FCAE' 30 034F 400      MOV VAL COND2_C,COND2_E[R3],MSG_DATA1 ; GIVE COND 2 DATA VALUE TO FAO
      14 00 91 0352 401      BSBW WRITE_MSG2      ; FORMAT AND WRITE CONDITION 2 MSG
      03 12 0355 402      CMPB #COND3_C,#NULL    ; IS CONDITION 3 NULL ?
      006D 31 0357 403      BNEQU 30$                ; NO -- CONTINUE
      035A 404      BRW FORM_CONDSX          ; YES -- SUBROUTINE IS FINISHED
      035A 405 30$:
00000000'EF 000001B1'EF DE 035A 406      MOVAL COND3_T,MSG_A      ; SAVE ADDRESS OF CONDITION 3 TITLE FOR FAO
00000000'EF 000001C7'EF44 D0 0365 407      MOVL COND3_TAB[R4],MSG_B    ; SAVE ADDR OF COND 3 CURR TEXT ELT FOR FAO
      00000000'EF 00 90 0371 408      MOVB #COND3_C,MSG_CTXT      ; SAVE CONDITION 3 CONTEXT FOR FAO
      FC85' 30 0378 409      MOV VAL COND3_C,COND3_E[R4],MSG_DATA1 ; GIVE COND 3 DATA VALUE TO FAO
      14 14 91 0378 410      BSBW WRITE_MSG2      ; FORMAT AND WRITE CONDITION 3 MSG
      47 13 037E 411      CMPB #COND4_C,#NULL    ; IS CONDITION 4 NULL ?
      00000000'EF 00000255'EF DE 0380 412      BEQLU FORM_CONDSX    ; YES -- SUBROUTINE IS FINISHED
00000000'EF 00000255'EF45 D0 038B 413      MOVAL COND4_T,MSG_A      ; SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO
      00000000'EF 14 90 0397 414      MOVL COND4_TAB[R5],MSG_B    ; SAVE ADDR OF COND 4 CURR TEXT ELT FOR FAO
      FC5F' 30 039E 415      MOVB #COND4_C,MSG_CTXT      ; SAVE CONDITION 4 CONTEXT FOR FAO
      14 14 91 039E 416      MOV VAL COND4_C,COND4_E[R5],MSG_DATA1 ; GIVE COND 4 DATA VALUE TO FAO
      21 13 03A1 417      BSBW WRITE_MSG2      ; FORMAT AND WRITE CONDITION 4 MSG
      00000000'EF 00000256'EF DE 03A6 418      CMPB #COND5_C,#NULL    ; IS CONDITION 5 NULL ?
00000000'EF 00000256'EF46 D0 03B1 419      BEQLU FORM_CONDSX    ; YES -- SUBROUTINE IS FINISHED
      00000000'EF 14 90 03BD 420      MOVAL COND5_T,MSG_A      ; SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
      FC39' 30 03C4 421      MOVL COND5_TAB[R6],MSG_B    ; SAVE ADDR OF COND 5 CURR TEXT ELT FOR FAO
      03C4 422      MOVB #COND5_C,MSG_CTXT      ; SAVE CONDITION 5 CONTEXT FOR FAO
      03C7 423      MOV VAL COND5_C,COND5_E[R6],MSG_DATA1 ; GIVE COND 5 DATA VALUE TO FAO
      05 03C7 424      BSBW WRITE_MSG2      ; FORMAT AND WRITE CONDITION 5 MSG
      425 FORM_CONDSX:
      426 RSB      ; RETURN TO CALLER
```

```
03C8 428 .SBTTL VERIFY
03C8 429 :++
03C8 430 : FUNCTIONAL DESCRIPTION:
03C8 431 :
03C8 432 :     VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION
03C8 433 :     TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR
03C8 434 :     COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS
03C8 435 :     SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE
03C8 436 :     ($DELPRC). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED
03C8 437 :     BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS
03C8 438 :     AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF
03C8 439 :     COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN
03C8 440 :     ERR_EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY,
03C8 441 :     THROUGH THE SS_CHECK MACRO); ERR_EXIT SETS EFLAG TO NON-ZERO,
03C8 442 :     PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER.
03C8 443 :     WHEN ERR_EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED,
03C8 444 :     AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.
03C8 445 :
03C8 446 :     CALLING SEQUENCE:
03C8 447 :
03C8 448 :         BSBW VERIFY
03C8 449 :
03C8 450 :     INPUT PARAMETERS:
03C8 451 :
03C8 452 :         NONE
03C8 453 :
03C8 454 :     IMPLICIT INPUTS:
03C8 455 :
03C8 456 :         R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
03C8 457 :         FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
03C8 458 :         FOR X = 1,2,3,4,5 :
03C8 459 :             CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
03C8 460 :             TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
03C8 461 :             ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
03C8 462 :             FOR CONDX_E.
03C8 463 :
03C8 464 :     OUTPUT PARAMETERS:
03C8 465 :
03C8 466 :         NONE
03C8 467 :
03C8 468 :     IMPLICIT OUTPUTS:
03C8 469 :
03C8 470 :         VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS,
03C8 471 :         IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING
03C8 472 :         ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA
03C8 473 :         AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED
03C8 474 :         ERRORS.
03C8 475 :
03C8 476 :     COMPLETION CODES:
03C8 477 :
03C8 478 :         EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
03C8 479 :
03C8 480 :     SIDE EFFECTS:
03C8 481 :
03C8 482 :         SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
03C8 483 :         (VIA RSB) IF ERROR ENCOUNTERED.
03C8 484 :
```



```
00000000'EF 95 03C8 485 ;--
03C8 486
03C8 487
03C8 488
03C8 489 VERIFY::
03C8 490 TSTB CFLAG ; SHOULD CONDITIONS BE PRINTED ?
03CE 491 BEQL 5$ ; NO -- CONTINUE
FF0B 30 03D0 492 BSBW FORM_CONDS ; YES -- FMT & PRINT ALL CONDS FOR THIS T.C.
00000110'EF D4 03D3 493 5$:
03D3 494 CLRL ZEROPID ; CLEAR ZERO PID
03D9 495 $CREPRC_S PIDADR=CREATED_PID, PRCNAM=CREATED_PRN, -
03D9 496 UIC=COND3_E[R4], IMAGE=IMAGNAM, -
03D9 497 MBXUNT=MBXUNIT;, QUOTA=QUOTALIST
0410 498 ; CREATE A PROCESS TO BE DELPRC'D
0410 499 SS_CHECK NORMAL ; ... AND MAKE SURE IT CREATED OK
043E 500 $SCHDWK_S DAYTIM=ONE_MIN ; WAKE SELF IN 1 MIN IF CREATED PROC DOESN'T
0451 501 SS_CHECK NORMAL ; CHECK FOR NORMAL RETURN
047F 502 $HIBER_S ; SLEEP UNTIL CREATED PROC IS FULLY CREATED
0486 503 SS_CHECK NORMAL ; EXPECT NORMAL RETURN
04B4 504 $CANWAK_S ; GET RID OF SCHEDULED WAKE-UP
04BF 505 SS_CHECK NORMAL ; CHECK FOR NORMAL STATUS RETURN
04ED 506 ;
04ED 507 ; SCHEDULED WAKE-UP WILL ONLY BE EFFECTED IF CREATED PROCESS DOES
04ED 508 ; NOT GET FULLY CREATED. IN THIS CASE, THE SUBJECT SYSTEM SERVICE
04ED 509 ; BELOW WILL FAIL WITH AN APPROPRIATE ERROR CONDITION.
04ED 510 ;
04ED 511 ;
04ED 512 ; THE FOLLOWING CODE LOOKS FOR THE SPECIAL CASE OF NO PID SPECIFIED
04ED 513 ; AND NO PROCESS NAME SPECIFIED IN CONDITION TABLES. IF THIS CASE
04ED 514 ; IS PRESENT, DELPRC IS NOT ISSUED HERE, BUT, INSTEAD, A $WAKE IS
04ED 515 ; ISSUED FOR THE CREATED PROCESS, WHICH, IN TURN, ISSUES A $DELPRC
04ED 516 ; TO DELETE ITSELF. FOR ALL OTHER CASES, THE CREATED PROCESS
04ED 517 ; IS DELETED BY A $DELPRC ISSUED HERE IN THIS PROCESS.
04ED 518 ;
00000167'EF42 D5 04ED 519 TSTL COND1_E[R2] ; IS PIDADR SPECIFIED ??
49 12 04F4 520 BNEQU 10$ ; YES -- NO SPECIAL CASE -- CONTINUE
000001A9'EF43 D5 04F6 521 TSTL COND2_E[R3] ; NO -- HOW ABOUT PROCESS NAME ??
40 12 04FD 522 BNEQU 10$ ; IT EXISTS -- A NORMAL CASE
04FF 523 $WAKE_S PIDADR=CREATED_PID ; NO PIDADR OR PIDADR SPECIFIED
050E 524 ; WAKE CREATED PROCESS TO DELETE ITSELF
050E 525 SS_CHECK NORMAL ; CHECK FOR NORMAL STATUS RETURN
00FD 31 053C 526 BRQ 20$ ; ... AND GO WAIT FOR ITS MAIL
053F 527 10$:
053F 528 ;
053F 529 ; SET UP TO ISSUE SUBJECT $DELPRC IN THIS PROCESS
053F 530 ;
0000010C'EF 00000167'EF42 D0 053F 531 MOVL COND1_E[R2],DEST_PIDADR ; GET PID ADDRESS OUT OF TABLE
59 000001A9'EF43 D0 054B 532 MOVL COND2_E[R3],R9 ; PRCNAM ADDRESS INTO REG FOR INDIRECT REF
0553 533 ;
0553 534 ; ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
0553 535 ;
0553 536 ;
00000000'8F 50 D1 0562 537 $DELPRC_S PIDADR=@DEST_PIDADR, PRCNAM=(R9)
61 13 0569 538 CMPL RO,#SS$_NORMAL ; CODE RECEIVED = CODE EXPECTED ?
00000000'EF 00000000'8F D0 056B 539 BEQLU 15$ ; YES -- CONTINUE
00000000'EF 50 D0 0576 540 MOVL #SS$_NORMAL,EXPV ; NO -- LOAD UP EXPECTED AND
057D 541 MOVL RO,RECV ; ... RECEIVED VALUES, THEN EXIT
ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM DELPRC>
```



```
0000010C'FF 00000118'EF 05 05CC 542 15$:
00000000'EF 00000118'EF 13 05D2 543 TSTL DEST_PIDADR ; PID RETURNED BY DELPRC ?
00000000'EF 0000010C'FF D1 05D4 544 BEQL 20$ ; NO -- KEEP GOING
00000000'EF 00000118'EF 13 05DF 545 CMPL CREATED_PID,@DEST_PIDADR ; YES -- IS IT THE CORRECT ONE ?
00000000'EF 0000010C'FF D0 05E1 546 BEQL 20$ ; YES -- CONTINUE
00000000'EF 00000118'EF D0 05EC 547 MOVL CREATED_PID,EXPV ; NO --LOAD UP EXPECTED AND
00000000'EF 0000010C'FF D0 05F7 548 MOVL @DEST_PIDADR,RCV ; ... RECEIVED VALUES, THEN EXIT
00000000'EF 0000010C'FF 063C 549 ERR_EXIT LONG,<INCORRECT PID RETURNED BY DELPRC>
00000000'EF 0000010C'FF 063C 550 20$:
00000000'EF 0000010C'FF 063C 551 :
00000000'EF 0000010C'FF 063C 552 : CREATED PROCESS HAS BEEN DELPRC'D (BY THIS PROCESS OR BY ITSELF)
00000000'EF 0000010C'FF 063C 553 :
00000000'EF 0000010C'FF 063C 554 $QIOW_S CHAN=MBXCHAN, FUNC=#IO$ READVBLK, -
00000000'EF 0000010C'FF 0665 555 P1=MBXBUFF+8, P2=MBXBUFF
00000000'EF 0000010C'FF 0665 556 :
00000000'EF 0000010C'FF 0665 557 SS CHECK NORMAL ; WAIT FOR CREATED PROCESS TO SEND MAIL
00000000'EF 0000010C'FF B1 0693 558 CMPW MBXBUFF+8,#MSG$ _DELPROC ; CHECK FOR NORMAL STATUS CODE
00000000'EF 0000010C'FF 13 069A 559 BEQLU 30$ ; DOES MAILBOX HAVE TERMINATION MSG ??
00000000'EF 0000010C'FF B0 069C 560 MOVW #MSG$ _DELPROC,EXPV ; YES -- AS EXPECTED
00000000'EF 0000010C'FF B0 06A3 561 MOVW MBXBUFF+8,RCV ; NO -- LOAD UP EXPECTED AND
00000000'EF 0000010C'FF 06AE 562 ERR_EXIT WORD,<INCORRECT MAILBOX MSG IDENTIFIER>
00000118'EF 0000009C'EF D1 06F3 563 30$:
00000000'EF 00000118'EF 13 06FE 564 CMPL MBXBUFF+16,CREATED_PID ; DOES MAILBOX MSG HAVE CORRECT PID ??
00000000'EF 0000009C'EF D0 0700 565 BEQLU 40$ ; YES -- AS EXPECTED
00000000'EF 0000009C'EF D0 070B 566 MOVL CREATED_PID,EXPV ; NO -- LOAD UP EXPECTED AND
00000000'EF 0000009C'EF D0 0716 567 MOVL MBXBUFF+16,RCV ; ... RECEIVED VALUES, THEN EXIT
00000000'EF 0000009C'EF 075C 568 ERR_EXIT LONG,<INCORRECT PID RETURNED IN MAILBOX>
00000000'EF 00000098'EF D5 075C 569 40$:
00000000'EF 00000098'EF 13 0762 570 TSTL MBXBUFF+12 ; DOES MAILBOX MSG INDICATE 0 STATUS CODE ??
00000000'EF 00000098'EF D4 0764 571 BEQLU VERIFYX ; YES -- ALL IS OK
00000000'EF 00000098'EF D0 076A 572 CLRL EXPV ; NO -- LOAD UP EXPECTED AND
00000000'EF 00000098'EF D0 0775 573 MOVL MBXBUFF+12,RCV ; ... RECEIVED VALUES, THEN EXIT
00000000'EF 00000098'EF 07C3 574 ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED IN MAILBOX>
00000000'EF 00000098'EF 05 07C3 575 VERIFYX:
00000000'EF 00000098'EF 05 07C3 576 RSB ; RETURN TO CALLER
```



```
07C4 578 .SBTTL VFY_CLEANUP
07C4 579 :++
07C4 580 : FUNCTIONAL DESCRIPTION:
07C4 581 :
07C4 582 : VFY_CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE
07C4 583 : EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY_CLEANUP MUST
07C4 584 : ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN
07C4 585 : ERROR IS FOUND). ALSO, VFY_CLEANUP MAY ISSUE SS_CHECK OR ERR_EXIT
07C4 586 : ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED
07C4 587 : IN THE EVENT THAT VFY_CLEANUP IS CALLED DURING ERROR PROCESSING,
07C4 588 : WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN
07C4 589 : POSSIBLY DISCOVERING A SECOND ERROR.
07C4 590 :
07C4 591 : CALLING SEQUENCE:
07C4 592 :
07C4 593 : BSBW VFY_CLEANUP
07C4 594 :
07C4 595 : INPUT PARAMETERS:
07C4 596 :
07C4 597 : NONE
07C4 598 :
07C4 599 : IMPLICIT INPUTS:
07C4 600 :
07C4 601 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
07C4 602 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
07C4 603 : FOR X = 1,2,3,4,5 :
07C4 604 : CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
07C4 605 : TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
07C4 606 : ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
07C4 607 : FOR CONDX_E.
07C4 608 :
07C4 609 : OUTPUT PARAMETERS:
07C4 610 :
07C4 611 : NONE
07C4 612 :
07C4 613 : IMPLICIT OUTPUTS:
07C4 614 :
07C4 615 : NONE
07C4 616 :
07C4 617 : COMPLETION CODES:
07C4 618 :
07C4 619 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
07C4 620 :
07C4 621 : SIDE EFFECTS:
07C4 622 :
07C4 623 : SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
07C4 624 : (VIA RSB) IF ERROR ENCOUNTERED.
07C4 625 :
07C4 626 : --
07C4 627 :
07C4 628 :
07C4 629 :
07C4 630 VFY_CLEANUP::
05 07D3 631 $DELPRC_S PRCNAM=CREATED_PRN ; DELETE CREATED PROCESS (IF STILL HERE)
07D4 632 RSB ; RETURN TO CALLER
07D4 633 .END
```


SATSSS36
Symbol table

F 12
SATS SYSTEM SERVICE TESTS \$DELPRC (SUCC 16-SEP-1984 00:51:07 VAX/VMS Macro V04-00
5-SEP-1984 04:30:43 [UETPSY.SRC]SATSSS36.MAR;1

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(1)

SYSSQIOW	*****	GX	04
SYSSSCHDWK	*****	GX	04
SYSSSETPRN	*****	GX	04
SYSSSETPRV	*****	GX	04
SYSSWAKE	*****	GX	04
TESTNUM	*****	X	04
TEST_MOD_NAME	00000000	RG	02
TEST_MOD_NAME_D	00000009	R	02
TEST_MOD_SUCC	*****	X	04
TMD_ADDR	*****	X	04
TM_CLEANUP	00000268	RG	04
TM_SETUP	00000000	RG	04
VERIFY	000003C8	RG	04
VERIFYX	000007C3	R	04
VFY_CLEANUP	000007C4	RG	04
WORD	= 00000002	G	
WRITE_MSG2	*****	X	04
ZEROPID	00000110	R	03

+-----+
! 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	000000A6 (166.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	00000257 (599.)	03 (3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
SATSSS36	000007D4 (2004.)	04 (4.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.10	00:00:00.65
Command processing	109	00:00:00.61	00:00:03.44
Pass 1	499	00:00:10.67	00:00:24.33
Symbol table sort	0	00:00:00.88	00:00:01.25
Pass 2	214	00:00:02.57	00:00:04.16
Symbol table output	17	00:00:00.12	00:00:00.12
Psect synopsis output	5	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	877	00:00:14.99	00:00:34.00

The working set limit was 900 pages.
56454 bytes (111 pages) of virtual memory were used to buffer the intermediate code.
There were 40 pages of symbol table space allocated to hold 577 non-local and 52 local symbols.
633 source lines were read in Pass 1, producing 26 object records in Pass 2.
51 pages of virtual memory were used to define 41 macros.

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

Macro library name

Macros defined

\$255\$DUA28:[SHRLIB]UETP.MLB;1
\$255\$DUA28:[SYS.OBJ]LIB.MLB;1
\$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

8
3
27
38

1000 GETS were required to define 38 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS36/OBJ=OBJ\$:SATSSS36 MSRC\$:SATSSS36/UPDATE=(ENH\$:SATSSS36)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

0422 AH-BT13A-SE
VAX/VMS V4.0

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