

[illegible]

```
SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  SSSSSSSS  77777777  44  44
SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  SSSSSSSS  77777777  44  44
SS        AA      AA      TT      SS        SS        SS        77  44  44
SS        AA      AA      TT      SS        SS        SS        77  44  44
SS        AA      AA      TT      SS        SS        SS        77  44  44
SS        AA      AA      TT      SS        SS        SS        77  44  44
SSSSSSS  AA      AA      TT      SSSSSS  SSSSSS  SSSSSS  77  44  44
SSSSSSS  AA      AA      TT      SSSSSS  SSSSSS  SSSSSS  77  44  44
SS        AAAAAAAAAA  TT      SS        SS        SS        77  44  44
SS        AAAAAAAAAA  TT      SS        SS        SS        77  44  44
SS        AA      AA      TT      SS        SS        SS        77  44  44
SSSSSSSS  AA      AA      TT      SSSSSSSS  SSSSSSSS  SSSSSSSS  77  44  44
SSSSSSSS  AA      AA      TT      SSSSSSSS  SSSSSSSS  SSSSSSSS  77  44  44

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)	81	CONDITION TABLES
(1)	97	TM SETUP, TM CLEANUP
(1)	160	CONDITION SUBROUTINES - SETUP AND CLEANUP
(1)	230	FORM CONDS
(1)	323	VERIFY
(1)	394	VFY_CLEANUP

```
0000 1 .TITLE SATSSS74,SATS SYST SRV TESTS GBL SEC SRVS (SUCC S.C.)
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 *****
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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 SATSSS74 TO TEST SUCCESSFUL
0000 36 OPERATION OF THE GBL SEC SYSTEM SERVICES. EACH 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: MMM, 1978
0000 47
0000 48 MODIFIED BY:
0000 49
0000 50 : VERSION
0000 51 01 -
0000 52 --
```

SATSSS74
V04-000

SATS SYST SRV TESTS GBL SEC SRVS (SUCC 16-SEP-1984 01:02:55 VAX/VMS Macro V04-00
DECLARATIONS 5-SEP-1984 04:33:24 [UETPSY.SRC]SATSSS74.MAR;1

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```
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 :
0000 61 : MACROS:
0000 62 :
0000 63 :
0000 64 : EQUATED SYMBOLS:
0000 65 :
0000 66 :
0000 67 : OWN STORAGE:
0000 68 :
```

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V04-000

SATS SYST SRV TESTS GBL SEC SRVS (SUCC 16-SEP-1984 01:02:55 VAX/VMS Macro V04-00 Page 3
DECLARATIONS 5-SEP-1984 04:33:24 [UETPSY.SRC]SATSSS74.MAR;1 (1)

```
00000000 70 .PSECT RODATA, RD, NOWRT, NOEXE, LONG
          0000 71 TEST_MOD_NAME:: STRING C, <SATSSS74> ; TEST MODULE NAME
          0009 72 TEST_MOD_NAME_D: STRING I, <SATSSS74> ; TEST MODULE NAME DESCRIPTOR
          0019 73 MSG1_INP_CTL: STRING I, <SSGBS!4ZW: CONDITIONS:>
          0039 74 ; FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
          0039 75 MSG3_ERR_CTL:: STRING I, <*SSGBS!4ZW: !AS>
          0051 76 ; FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR
```

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V04-000

SATS SYST SRV TESTS GBL SEC SRVS^{6 2} (SUCC 16-SEP-1984 01:02:55 VAX/VMS Macro V04-00
DECLARATIONS 5-SEP-1984 04:33:24 [UETPSY.SRC]SATSSS74.MAR;1 Page 4
(1)

00000000 78 .PSECT RWDATA,RD,WRT,NOEXE, LONG
00000008 0000 79 PRIVMASK: .BLKQ 1 ; ADDR OF PRIVILEGE MASK (IN PHD)

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SATS SYST SRV TESTS GBL SEC SRVS H 2 (SUCC 16-SEP-1984 01:02:55 VAX/VMS Macro V04-00 Page 5
CONDITION TABLES 5-SEP-1984 04:33:24 [UETPSY.SRC]SATSSS74.MAR;1 (1)

0008	81	.SBTTL	CONDITION TABLES
0008	82		
0008	83	*****	CONDITION TABLES FOR GBL SEC SYSTEM SERVICES *****
0008	84		
0008	85	COND	1,NULL
0009	86		
0009	87	COND	2,NULL
000A	88		
000A	89	COND	3,NULL
000B	90		
000B	91	COND	4,NULL
000C	92		
000C	93	COND	5,NULL
000D	94		
00000000	95	.PSECT	SATSSS74,RD,WRT,EXE

```
0000 97 .SBTTL TM_SETUP, TM_CLEANUP
0000 98 :++
0000 99 : FUNCTIONAL DESCRIPTION:
0000 100 :
0000 101 : TM SETUP AND TM_CLEANUP ARE CALLED TO PERFORM
0000 102 : REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF
0000 103 : TEST MODULE EXECUTION.
0000 104 :
0000 105 : CALLING SEQUENCE:
0000 106 :
0000 107 : BSBW TM_SETUP BSBW TM_CLEANUP
0000 108 :
0000 109 : INPUT PARAMETERS:
0000 110 :
0000 111 : NONE
0000 112 :
0000 113 : IMPLICIT INPUTS:
0000 114 :
0000 115 : NONE
0000 116 :
0000 117 : OUTPUT PARAMETERS:
0000 118 :
0000 119 : NONE
0000 120 :
0000 121 : IMPLICIT OUTPUTS:
0000 122 :
0000 123 : TM_SETUP: COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED;
0000 124 : ALL PRIVILEGES ACQUIRED.
0000 125 :
0000 126 : COMPLETION CODES:
0000 127 :
0000 128 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0000 129 :
0000 130 : SIDE EFFECTS:
0000 131 :
0000 132 : SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
0000 133 : (VIA RSB) IF ERROR ENCOUNTERED.
0000 134 :
0000 135 : --
0000 136 :
0000 137 :
0000 138 :
0000 139 TM_SETUP::
52 D4 0000 140 CLRL R2 ; INITIALIZE
53 D4 0002 141 CLRL R3 ; .. CONDITION
54 D4 0004 142 CLRL R4 ; .... TABLE
55 D4 0006 143 CLRL R5 ; ..... INDEX
56 D4 0008 144 CLRL R6 ; ..... REGISTERS
FFF3' 30 000A 145 BSBW MOD_MSG_PRINT ; PRINT TEST MODULE BEGIN MSG
00000000'EF 00000000'EF DE 000D 146 MOVAL TEST_MOD_SUCC,TMD_ADDR ; ASSUME END MSG WILL SHOW SUCCESS
03 00 00000000'8F FO 0018 147 INSV #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
00000000'EF 0020
59 00000000'9F DO 0048 148 MODE TO,5$,KRNL ; KERNEL MODE TO ACCESS PHD
00000000'EF 69 DE 004F 149 MOVL @#CTL$GL PHD,R9 ; GET PROCESS HEADER ADDRESS
0056 150 MOVAL PHD$Q PRIVMSK(R9),PRIVMASK ; GET PRIV MASK ADDRESS
0057 151 MODE FROM,5$ ; BACK TO USER MODE
152 PRIV ADD,ALL ; GET ALL PRIVILEGES
```

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SATS SYST SRV TESTS GBL SEC SRVS^{J 2} (SUCC 16-SEP-1984 01:02:55 VAX/VMS Macro V04-00 Page 7
TM_SETUP, TM_CLEANUP 5-SEP-1984 04:33:24 [UETPSY.SRC]SATSSS74.MAR;1 (1)

	0077	153		\$SETPRN S TEST MOD_NAME_D	; SET PROCESS NAME
	0084	154		SS_CHECK NORMAL	; CHECK STATUS CODE RETURNED FROM SETPRN
05	0082	155		RSB	; RETURN TO MAIN ROUTINE
	0083	156	TM_CLEANUP::		
FF4A'	30	0083	157	BSBW MOD_MSG_PRINT	; PRINT TEST MODULE END MSG
05	0086	158		RSB	; RETURN TO MAIN ROUTINE

```
00B7 160 .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
00B7 161 :++
00B7 162 : FUNCTIONAL DESCRIPTION:
00B7 163 :
00B7 164 : COND1 AND COND2 CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED
00B7 165 : BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW
00B7 166 : CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON
00B7 167 : ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE
00B7 168 : CONDITION X TABLE IS INCLUDED IN THE COND1 SUBROUTINE AND CLEANED
00B7 169 : UP, IF NECESSARY, IN THE COND2 CLEANUP SUBROUTINE. THIS INCLUDES,
00B7 170 : ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO
00B7 171 : OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO
00B7 172 : VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE
00B7 173 : (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
00B7 174 :
00B7 175 : CALLING SEQUENCE:
00B7 176 :
00B7 177 : BSBW COND1 BSBW COND2_CLEANUP
00B7 178 : WHERE X = 1,2,3,4,5
00B7 179 :
00B7 180 : INPUT PARAMETERS:
00B7 181 :
00B7 182 : CONFLICT = 0
00B7 183 :
00B7 184 : IMPLICIT INPUTS:
00B7 185 :
00B7 186 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
00B7 187 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
00B7 188 :
00B7 189 : OUTPUT PARAMETERS:
00B7 190 :
00B7 191 : CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.
00B7 192 :
00B7 193 : IMPLICIT OUTPUTS:
00B7 194 :
00B7 195 : R2,3,4,5,6 PRESERVED
00B7 196 :
00B7 197 : COMPLETION CODES:
00B7 198 :
00B7 199 : NONE
00B7 200 :
00B7 201 : SIDE EFFECTS:
00B7 202 :
00B7 203 : NONE
00B7 204 :
00B7 205 : --
00B7 206 :
00B7 207 :
00B7 208 :
05 00B7 209 COND1::
00B7 210 RSB ; RETURN TO MAIN ROUTINE
00B8 211 COND1_CLEANUP::
00B8 212 RSB ; RETURN TO MAIN ROUTINE
00B9 213 COND2::
00B9 214 RSB ; RETURN TO MAIN ROUTINE
00BA 215 COND2_CLEANUP::
00BA 216 RSB ; RETURN TO MAIN ROUTINE
```

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V04-000

SATS SYST SRV TESTS GBL SEC SRVS (SUCC 16-SEP-1984 01:02:55 VAX/VMS Macro V04-00
CONDITION SUBROUTINES - SETUP AND CLEANU 5-SEP-1984 04:33:24 [UETPSY.SRC]SATSSS74.MAR;1

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	00BB	217	COND3::		
05	00BB	218	RSB		; RETURN TO MAIN ROUTINE
	00BC	219	COND3_CLEANUP::		
05	00BC	220	RSB		; RETURN TO MAIN ROUTINE
	00BD	221	COND4::		
05	00BD	222	RSB		; RETURN TO MAIN ROUTINE
	00BE	223	COND4_CLEANUP::		
05	00BE	224	RSB		; RETURN TO MAIN ROUTINE
	00BF	225	COND5::		
05	00BF	226	RSB		; RETURN TO MAIN ROUTINE
	00C0	227	COND5_CLEANUP::		
05	00C0	228	RSB		; RETURN TO MAIN ROUTINE

```
00C1 230 .SBTTL FORM_CONDS
00C1 231 :++
00C1 232 : FUNCTIONAL DESCRIPTION:
00C1 233 :
00C1 234 : FORM_CONDS FORMATS AND PRINTS INFORMATION ABOUT
00C1 235 : THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
00C1 236 :
00C1 237 : CALLING SEQUENCE:
00C1 238 :
00C1 239 : BSBW FORM_CONDS
00C1 240 :
00C1 241 : INPUT PARAMETERS:
00C1 242 :
00C1 243 : NONE
00C1 244 :
00C1 245 : IMPLICIT INPUTS:
00C1 246 :
00C1 247 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
00C1 248 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
00C1 249 : FOR X = 1,2,3,4,5 :
00C1 250 : COND1_T - TITLE TEXT FOR COND1 TABLE
00C1 251 : COND1_TAB - ELEMENT TEXT FOR COND1 TABLE
00C1 252 : COND1_C - CONTEXT OF THE COND1 TABLE
00C1 253 : COND1_E - DATA ELEMENTS OF THE COND1 TABLE
00C1 254 :
00C1 255 : OUTPUT PARAMETERS:
00C1 256 :
00C1 257 : NONE
00C1 258 :
00C1 259 : IMPLICIT OUTPUTS:
00C1 260 :
00C1 261 : NONE
00C1 262 :
00C1 263 : COMPLETION CODES:
00C1 264 :
00C1 265 : NONE
00C1 266 :
00C1 267 : SIDE EFFECTS:
00C1 268 :
00C1 269 : NONE
00C1 270 :
00C1 271 : --
00C1 272 :
00C1 273 :
00C1 274 :
00C1 275 FORM_CONDS::
00C1 276 $FAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
00E0 277 :
14 FF1D' 30 00E0 278 BSBW OUTPUT_MSG :
14 14 91 00E3 279 CMPB #COND1_C,#NULL :
03 12 00E6 280 BNEQU 10$ :
00BF 31 00E8 281 BRW FORM_CONDSX :
00EB 282 10$: :
00EB 283 MOVAL COND1_T,MSG_A :
00F6 284 MOVL COND1_TAB[R2],MSG_B :
0102 285 MOVB #COND1_C,MSG_CTXT :
0109 286 MOV_VAL COND1_C,COND1_E[R2],MSG_DATA1 :
00000000'EF 00000008'EF DE 00EB 283 :
00000000'EF 00000008'EF42 D0 00F6 284 :
00000000'EF 14 90 0102 285 :
00000000'EF 14 90 0109 286 :
```

```

      FEF4' 30 0109 287      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 1 MSG
    14 14 91 010C 288      CMPB  #COND2_C,#NULL      ; IS CONDITION 2 NULL ?
      03 12 010F 289      BNEQU 20$                ; NO -- CONTINUE
    0096 31 0111 290      BRW    FORM_CONDSX         ; YES -- SUBROUTINE IS FINISHED
      0114 291 20$:
00000000'EF 00000009'EF DE 0114 292      MOVAL  COND2_T,MSG_A      ; SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO
00000000'EF 00000009'EF43 D0 011F 293      MOVL   COND2_TAB[R3],MSG_B    ; SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO
      00000000'EF 14 90 012B 294      MOV    #COND2_C,MSG_CTXT      ; SAVE CONDITION 2 CONTEXT FOR FAO
      0132 295      MOV VAL COND2_C,COND2_E[R3],MSG_DATA1 ; GIVE COND 2 DATA VALUE TO FAO
      FECB' 30 0132 296      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 2 MSG
    14 14 91 0135 297      CMPB  #COND3_C,#NULL      ; IS CONDITION 3 NULL ?
      03 12 0138 298      BNEQU 30$                ; NO -- CONTINUE
    006D 31 013A 299      BRW    FORM_CONDSX         ; YES -- SUBROUTINE IS FINISHED
      013D 300 30$:
00000000'EF 0000000A'EF DE 013D 301      MOVAL  COND3_T,MSG_A      ; SAVE ADDRESS OF CONDITION 3 TITLE FOR FAO
00000000'EF 0000000A'EF44 D0 0148 302      MOVL   COND3_TAB[R4],MSG_B    ; SAVE ADDR OF COND 3 CURR TEXT ELT FOR FAO
      00000000'EF 14 90 0154 303      MOV    #COND3_C,MSG_CTXT      ; SAVE CONDITION 3 CONTEXT FOR FAO
      015B 304      MOV VAL COND3_C,COND3_E[R4],MSG_DATA1 ; GIVE COND 3 DATA VALUE TO FAO
      FEA2' 30 015B 305      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 3 MSG
    14 14 91 015E 306      CMPB  #COND4_C,#NULL      ; IS CONDITION 4 NULL ?
      47 13 0161 307      BEQLU  FORM_CONDSX         ; YES -- SUBROUTINE IS FINISHED
00000000'EF 0000000B'EF DE 0163 308      MOVAL  COND4_T,MSG_A      ; SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO
00000000'EF 0000000B'EF45 D0 016E 309      MOVL   COND4_TAB[R5],MSG_B    ; SAVE ADDR OF COND 4 CURR TEXT ELT FOR FAO
      00000000'EF 14 90 017A 310      MOV    #COND4_C,MSG_CTXT      ; SAVE CONDITION 4 CONTEXT FOR FAO
      0181 311      MOV VAL COND4_C,COND4_E[R5],MSG_DATA1 ; GIVE COND 4 DATA VALUE TO FAO
      FE7C' 30 0181 312      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 4 MSG
    14 14 91 0184 313      CMPB  #COND5_C,#NULL      ; IS CONDITION 5 NULL ?
      21 13 0187 314      BEQLU  FORM_CONDSX         ; YES -- SUBROUTINE IS FINISHED
00000000'EF 0000000C'EF DE 0189 315      MOVAL  COND5_T,MSG_A      ; SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
00000000'EF 0000000C'EF46 D0 0194 316      MOVL   COND5_TAB[R6],MSG_B    ; SAVE ADDR OF COND 5 CURR TEXT ELT FOR FAO
      00000000'EF 14 90 01A0 317      MOV    #COND5_C,MSG_CTXT      ; SAVE CONDITION 5 CONTEXT FOR FAO
      01A7 318      MOV VAL COND5_C,COND5_E[R6],MSG_DATA1 ; GIVE COND 5 DATA VALUE TO FAO
      FE56' 30 01A7 319      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 5 MSG
      01AA 320 FORM_CONDSX:
    05 01AA 321      RSB                                ; RETURN TO CALLER
```

```
01AB 323      .SBTTL VERIFY
01AB 324      :++
01AB 325      : FUNCTIONAL DESCRIPTION:
01AB 326      :
01AB 327      :     VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION
01AB 328      :     TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR
01AB 329      :     COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS
01AB 330      :     SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE.
01AB 331      :     THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED
01AB 332      :     BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS
01AB 333      :     AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF
01AB 334      :     COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN
01AB 335      :     ERR_EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY,
01AB 336      :     THROUGH THE SS_CHECK MACRO); ERR_EXIT SETS EFLAG TO NON-ZERO,
01AB 337      :     PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER.
01AB 338      :     WHEN ERR_EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED,
01AB 339      :     AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.
01AB 340      :
01AB 341      : CALLING SEQUENCE:
01AB 342      :
01AB 343      :     BSBW VERIFY
01AB 344      :
01AB 345      : INPUT PARAMETERS:
01AB 346      :
01AB 347      :     NONE
01AB 348      :
01AB 349      : IMPLICIT INPUTS:
01AB 350      :
01AB 351      :     R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
01AB 352      :     FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
01AB 353      :     FOR X = 1,2,3,4,5 :
01AB 354      :         CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
01AB 355      :         TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
01AB 356      :         ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
01AB 357      :         FOR CONDX_E.
01AB 358      :
01AB 359      : OUTPUT PARAMETERS:
01AB 360      :
01AB 361      :     NONE
01AB 362      :
01AB 363      : IMPLICIT OUTPUTS:
01AB 364      :
01AB 365      :     VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS,
01AB 366      :     IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING
01AB 367      :     ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA
01AB 368      :     AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED
01AB 369      :     ERRORS.
01AB 370      :
01AB 371      : COMPLETION CODES:
01AB 372      :
01AB 373      :     EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
01AB 374      :
01AB 375      : SIDE EFFECTS:
01AB 376      :
01AB 377      :     SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
01AB 378      :     (VIA RSB) IF ERROR ENCOUNTERED.
01AB 379      :
```

SATSSS74
V04-000

SATS SYST SRV TESTS GBL SEC SRVS^{C 3} (SUCC 16-SEP-1984 01:02:55 VAX/VMS Macro V04-00 Page 13
VERIFY 5-SEP-1984 04:33:24 [UETPSY.SRC]SATSSS74.MAR;1 (1)

```
00000000'EF 95 01AB 380 ;--
                01AB 381
                01AB 382
                01AB 383
                01AB 384 VERIFY::
                01AB 385 TSTB CFLAG ; SHOULD CONDITIONS BE PRINTED ?
                03 13 01B1 386 BEQL 5$ ; NO -- CONTINUE
                FFOB 30 01B3 387 BSBW FORM_CONDS ; YES -- FMT & PRINT ALL CONDS FOR THIS T.C.
                01B6 388 5$:
                01B6 389 ;
                01B6 390 ; ***** VERIFY SUBROUTINE BEING DEBUGGED OFFLINE *****
                01B6 391 ;
                05 01B6 392 RSB ; RETURN TO CALLER
```

```
01B7 394 .SBTTL VFY_CLEANUP
01B7 395 :++
01B7 396 : FUNCTIONAL DESCRIPTION:
01B7 397 :
01B7 398 : VFY_CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE
01B7 399 : EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY_CLEANUP MUST
01B7 400 : ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN
01B7 401 : ERROR IS FOUND). ALSO, VFY_CLEANUP MAY ISSUE SS_CHECK OR ERR_EXIT
01B7 402 : ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED
01B7 403 : IN THE EVENT THAT VFY_CLEANUP IS CALLED DURING ERROR PROCESSING,
01B7 404 : WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN
01B7 405 : POSSIBLY DISCOVERING A SECOND ERROR.
01B7 406 :
01B7 407 : CALLING SEQUENCE:
01B7 408 :
01B7 409 : BSBW VFY_CLEANUP
01B7 410 :
01B7 411 : INPUT PARAMETERS:
01B7 412 :
01B7 413 : NONE
01B7 414 :
01B7 415 : IMPLICIT INPUTS:
01B7 416 :
01B7 417 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
01B7 418 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
01B7 419 : FOR X = 1,2,3,4,5 :
01B7 420 : CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
01B7 421 : TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
01B7 422 : ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
01B7 423 : FOR CONDX_E.
01B7 424 :
01B7 425 : OUTPUT PARAMETERS:
01B7 426 :
01B7 427 : NONE
01B7 428 :
01B7 429 : IMPLICIT OUTPUTS:
01B7 430 :
01B7 431 : NONE
01B7 432 :
01B7 433 : COMPLETION CODES:
01B7 434 :
01B7 435 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
01B7 436 :
01B7 437 : SIDE EFFECTS:
01B7 438 :
01B7 439 : SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
01B7 440 : (VIA RSB) IF ERROR ENCOUNTERED.
01B7 441 :
01B7 442 : --
01B7 443 :
01B7 444 :
01B7 445 :
05 01B7 446 VFY_CLEANUP::
01B7 447 RSB ; RETURN TO CALLER
01B8 448 .END
```

SATSSS74
Symbol table

SATS SYST SRV TESTS GBL SEC SRVS (SUCC E 3

16-SEP-1984 01:02:55 VAX/VMS Macro V04-00
5-SEP-1984 04:33:24 [UETPSY.SRC]SATSSS74.MAR;1

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(1)

\$\$\$CHARS	= 00000010		
\$\$\$STRINGS	= 00000000		
\$\$T2	= 00000004		
BYTE	= 00000001	G	
CFLAG	*****	X	04
CHMRTN	*****	X	04
CHM_CONT	*****	X	04
COMP_SC	*****	X	04
CONDT	000000B7	RG	04
COND1_C	= 00000014		
COND1_CLEANUP	000000B8	RG	04
COND1_H	00000008	RG	03
COND1_T	00000008	R	03
COND1_TAB	00000008	R	03
COND2	000000B9	RG	04
COND2_C	= 00000014		
COND2_CLEANUP	000000BA	RG	04
COND2_H	00000009	RG	03
COND2_T	00000009	R	03
COND2_TAB	00000009	R	03
COND3	000000BB	RG	04
COND3_C	= 00000014		
COND3_CLEANUP	000000BC	RG	04
COND3_H	0000000A	RG	03
COND3_T	0000000A	R	03
COND3_TAB	0000000A	R	03
COND4	000000BD	RG	04
COND4_C	= 00000014		
COND4_CLEANUP	000000BE	RG	04
COND4_H	0000000B	RG	03
COND4_T	0000000B	R	03
COND4_TAB	0000000B	R	03
COND5	000000BF	RG	04
COND5_C	= 00000014		
COND5_CLEANUP	000000C0	RG	04
COND5_H	0000000C	RG	03
COND5_T	0000000C	R	03
COND5_TAB	0000000C	R	03
CTL\$GL_PHD	*****	X	04
DESC	= 00000010	G	
EFLAG	*****	X	04
EXPV	*****	X	04
FAO_DESC	*****	X	04
FAO_LEN	*****	X	04
FORM_CONDS	000000C1	RG	04
FORM_CONDSX	000001AA	R	04
LONG	= 00000004	G	
MOD_MSG_CODE	*****	X	04
MOD_MSG_PRINT	*****	X	04
MSGT_INP_CTL	00000019	R	02
MSG3_ERR_CTL	00000039	RG	02
MSG_A	*****	X	04
MSG_B	*****	X	04
MSG_TXT	*****	X	04
NOTARG	= 00000000	G	
NULL	= 00000014	G	
OUTPUT_MSG	*****	X	04

PCV
PHD\$Q PRIVMSK
PRIVMSK
PRIV_ARGS
QUAD
RECV
REST_REGS
SAVE_REGS
SS\$ NORMAL
SUCCESS
SYSSCMKRNL
SYSSFAO
SYSSSETPRN
SYSSSETPRV
TESTNUM
TEST_MOD_NAME
TEST_MOD_NAME_D
TEST_MOD_SUCC
TMD_ADDR
TM_CLEANUP
TM_SETUP
VERIFY
VFY_CLEANUP
WORD
WRITE_MSG2

*****	X	04
= 00000000		
00000000	R	03
= 00000002		
= 00000008	G	
*****	X	04
*****	X	04
*****	X	04
*****	X	04
*****	X	04
*****	X	04
*****	X	04
*****	GX	04
*****	X	04
*****	GX	04
*****	GX	04
*****	X	04
00000000	RG	02
00000009	R	02
*****	X	04
*****	X	04
000000B3	RG	04
00000000	RG	04
000001AB	RG	04
000001B7	RG	04
= 00000002	G	
*****	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	00000051 (81.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	0000000D (13.)	03 (3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
SATSSS74	000001B8 (440.)	04 (4.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	36	00:00:00.06	00:00:00.31
Command processing	141	00:00:00.61	00:00:01.68
Pass 1	197	00:00:04.22	00:00:09.01
Symbol table sort	0	00:00:00.35	00:00:00.75
Pass 2	92	00:00:01.25	00:00:02.36
Symbol table output	11	00:00:00.10	00:00:00.22
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	481	00:00:06.62	00:00:14.38

The working set limit was 1350 pages.
21376 bytes (42 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 276 non-local and 8 local symbols.
448 source lines were read in Pass 1, producing 19 object records in Pass 2.
24 pages of virtual memory were used to define 19 macros.

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

Macro library name	Macros defined
_\$255\$DUA28:[SHRLIB]UETP.MLB;1	6
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	1
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	9
TOTALS (all libraries)	16

455 GETS were required to define 16 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS74/OBJ=OBJ\$:SATSSS74 MSRC\$:SATSSS74/UPDATE=(ENH\$:SATSSS74)+EXECMLS/LIB+SHRLIB\$:UETP/LIB

0425 AH-BT13A-SE
VAX/VMS V4.0

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