


```

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  4444444444
SSSSSSS   AA      AA      TT         SSSSSS   SSSSSS   SSSSSS   77  4444444444
          SS  AAAAAAAAAA  TT         SS         SS         SS         77  44
          SS  AAAAAAAAAA  TT         SS         SS         SS         77  44
          SS  AA      AA      TT         SS         SS         SS         77  44
SSSSSSSS  AA      AA      TT         SSSSSSSS  SSSSSSSS  SSSSSSSS  77  44
SSSSSSSS  AA      AA      TT         SSSSSSSS  SSSSSSSS  SSSSSSSS  77  44

```

```

LL         IIIIII  SSSSSSSS
LL         IIIIII  SSSSSSSS
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 :*****
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 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 SSS NORMAL STATUS CODE, EXPECTED RETURN ARGUMENTS
0000 41 : AND EXPECTED FUNCTIONALITY PERFORMED.
0000 42 :
0000 43 : ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE,
0000 44 : DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.
0000 45 :
0000 46 : AUTHOR: THOMAS L. CAFARELLA, CREATION DATE: MMM, 1978
0000 47 :
0000 48 : MODIFIED BY:
0000 49 :
0000 50 : : VERSION
0000 51 : 01 -
0000 52 : --
```


SATSSS74
V04-000

```
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
```

SATSS574
V04-000

SATS SYST SRV TESTS GBL SEC SRVS^{G 2} (SUCC 16-SEP-1984 01:02:55 VAX/VMS Macro V04-00
DECLARATIONS 5-SEP-1984 04:33:24 [UETPSY.SRC]SATSS574.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)

SATSSS74
V04-000

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

Page 5
(1)

```
0008 81 .SBTTL CONDITION TABLES
0008 82 :
0008 83 :
0008 84 :
0008 85 :
0009 86
0009 87 COND 1,NULL
000A 88
000A 89 COND 2,NULL
000B 90
000B 91 COND 3,NULL
000C 92
000C 93 COND 4,NULL
000D 94
00000000 95 COND 5,NULL
.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 :--
C 70 136
C 70 137
0 70 138
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 F0 0018 147 INSV #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
0020
0025 148 MODE TO,5$,KRNL ; KERNEL MODE TO ACCESS PHD
59 00000000'9F D0 0048 149 MOVL @CTL$GL PHD,R9 ; GET PROCESS HEADER ADDRESS
00000000'EF 69 DE 004F 150 MOVAL PHD$Q PRIVMSK(R9),PRIVMASK ; GET PRIV MASK ADDRESS
0056 151 MODE FROM,5$ ; BACK TO USER MODE
0057 152 PRIV ADD,ALL ; GET ALL PRIVILEGES

```

SATSSS74
V04-000

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          :          CONDX AND CONDX 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 CONDX SUBROUTINE AND CLEANED
00B7 169          : UP, IF NECESSARY, IN THE CONDX 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 CONDX  BSBW CONDX_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
05 00B9 213 COND2::
00B9 214          RSB          ; RETURN TO MAIN ROUTINE
05 00BA 215 COND2_CLEANUP::
00BA 216          RSB          ; RETURN TO MAIN ROUTINE

```

SATSSS74
V04-000

SATS SYST SRV TESTS GBL SEC SRVS^{L 2} (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

Page 9
(1)

```
05 00BB 217 COND3::
05 00BB 218 RSB ; RETURN TO MAIN ROUTINE
05 00BC 219 COND3_CLEANUP::
05 00BC 220 RSB ; RETURN TO MAIN ROUTINE
05 00BD 221 COND4::
05 00BD 222 RSB ; RETURN TO MAIN ROUTINE
05 00BE 223 COND4_CLEANUP::
05 00BE 224 RSB ; RETURN TO MAIN ROUTINE
05 00BF 225 COND5::
05 00BF 226 RSB ; RETURN TO MAIN ROUTINE
05 00CO 227 COND5_CLEANUP::
05 00CO 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 : CONDX_T - TITLE TEXT FOR CONDX TABLE
00C1 251 : CONDX_TAB - ELEMENT TEXT FOR CONDX TABLE
00C1 252 : CONDX_C - CONTEXT OF THE CONDX TABLE
00C1 253 : CONDX_E - DATA ELEMENTS OF THE CONDX 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 $FAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
00E0 277 :
14 FF1D' 30 00E0 278 BSBW OUTPUT_MSG : FORMAT CONDITIONS HEADER MSG
00E3 279 CMPB #COND1_C,#NULL : ... AND PRINT IT
00E6 280 BNEQU 10$ : IS CONDITION 1 NULL ?
00BF 31 00E8 281 BRW FORM_CONDSX : NO -- CONTINUE
00EB 282 10$: : YES -- SUBROUTINE IS FINISHED
00E8 283 MOVAL COND1_T,MSG_A : SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO
00F6 284 MOVL COND1_TAB[R2],MSG_B : SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAO
0102 285 MOVB #COND1_C,MSG_CTXT : SAVE CONDITION 1 CONTEXT FOR FAO
0109 286 MOV_VAL COND1_C,COND1_E[R2],MSG_DATA1 ; GIVE COND 1 DATA VALUE TO FAO

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```

14 FEF4' 30 0109 287 BSBW WRITE_MSG2 ; FORMAT AND WRITE CONDITION 1 MSG
    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$:
00000000'EF 00000009'EF DE 0114 292 MOVAL COND2_T,MSG_A ; SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO
00000000'EF 00000009'EF43 D0 011F 293 MOVL COND2_TAB[R3],MSG_B ; SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO
    00000000'EF 14 90 012B 294 MOVB #COND2_C,MSG_CTXT ; SAVE CONDITION 2 CONTEXT FOR FAO
    0132 295 MOV VAL COND2_C,COND2_E[R3],MSG_DATA1 ; GIVE COND 2 DATA VALUE TO FAO
    FECB' 30 0132 296 BSBW WRITE_MSG2 ; FORMAT AND WRITE CONDITION 2 MSG
    14 14 91 0135 297 CMPB #COND3_C,#NULL ; IS CONDITION 3 NULL ?
    03 12 0138 298 BNEQU 30$ ; 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 MOVB #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
    00000009'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 MOVB #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 MOVB #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      :

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```

01AB 380 ;--
01AB 381
01AB 382
01AB 383
01AB 384 VERIFY::
00000000'EF 95 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 [JETPSY.SRC]SATSSS74.MAR;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$GC_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_IMP_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

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PCV              *****  X  04
PHD$Q_PRIVMSK   = 00000000
PRIVMSK          = 00000000  R   03
PRIV_ARGS        = 00000002
QUAD             = 00000008  G
RECV             *****  X  04
REST_REGS        *****  X  04
SAVE_REGS        *****  X  04
SS$NORMAL        *****  X  04
SUCCESS          *****  X  04
SYSSCMKRNL      *****  GX  04
SYSSFAO          *****  X  04
SYSSSETPRN       *****  GX  04
SYSSSETPRV       *****  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       = 000000B3  RG  04
TM_SETUP         = 00000000  RG  04
VERIFY           = 000001AB  RG  04
VFY_CLEANUP      = 000001B7  RG  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 | 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 MSRCS\$:SATSSS74/UPDATE=(ENH\$:SATSSS74)+EXECMLS/LIB+SHRLIB\$:UETP/LIB

