


```

SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  SSSSSSSS  666666  000000
SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  SSSSSSSS  666666  000000
SS        AA      AA      TT      SS        SS        SS        66        00      00
SS        AA      AA      TT      SS        SS        SS        66        00      00
SS        AA      AA      TT      SS        SS        SS        66        00      00
SS        AA      AA      TT      SS        SS        SS        66        00      00
SSSSSSS   AA      AA      TT      SSSSSS   SSSSSS   SSSSSS   66666666  00  00  00
SSSSSSS   AA      AA      TT      SSSSSS   SSSSSS   SSSSSS   66666666  00  00  00
SS        AA      AA      TT      SS        SS        SS        66        66  0000  00
SS        AA      AA      TT      SS        SS        SS        66        66  0000  00
SS        AA      AA      TT      SS        SS        SS        66        66  00    00
SS        AA      AA      TT      SS        SS        SS        66        66  00    00
SSSSSSSS  AA      AA      TT      SSSSSSSS  SSSSSSSS  SSSSSSSS  666666  000000
SSSSSSSS  AA      AA      TT      SSSSSSSS  SSSSSSSS  SSSSSSSS  666666  000000

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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
LLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLL IIIIII  SSSSSSSS

```

(1)	54	DECLARATIONS
(1)	143	CONDITION TABLES
(1)	179	TM SETUP, TM CLEANUP
(1)	242	CONDITION SUBROUTINES - SETUP AND CLEANUP
(1)	312	FORM CONDS
(1)	405	VERIFY
(1)	589	VFY_CLEANUP

```

0000 1      .TITLE  SATSSS60 SATS SYST SRV TESTS  TIME SERVS (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 SATSSS60 TO TEST SUCCESSFUL
0000 36 : OPERATION OF THE TIME 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 PRIVILEGF.
0000 44 :                DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.
0000 45
0000 46 : AUTHOR: THOMAS L. CAFARELLA,          CREATION DATE: JUN, 1978
0000 47
0000 48 : MODIFIED BY:
0000 49
0000 50 :           : VERSION
0000 51 : 01      :
0000 52 :--

```

```
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 :
00000001 0000 66 SHORT_ASC = 1 ; INDICATOR FOR SHORT $ASCTIM OUTPUT
00000000 0000 67 LONG_ASC = 0 ; INDICATOR FOR LONG $ASCTIM OUTPUT
0000 68 :
0000 69 : OWN STORAGE:
0000 70 :
```

```

00000000 72 .PSECT RODATA, RD, NOWRT, NOEXE, LONG
0000 73 TEST_MOD_NAME:: STRING C, <SATSSS60> ; TEST MODULE NAME
0009 74 TEST_MOD_NAME_D: STRING I, <SATSSS60> ; TEST MODULE NAME DESCRIPTOR
0019 75 MSG1_INP_CTL: STRING I, < SSTIM!4ZW: CONDITIONS:>
0039 76 ; FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
0039 77 MSG3_ERR_CTL:: STRING I, < *SSTIM!4ZW: !AS>
0051 78 ; FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR
0051 79 ;
0051 80 ; TABLE OF TIMBUF STRINGS FOR COND1 TABLE
0051 81 ;
20 33 37 39 31 2D 43 45 44 2D 35 32 0051 82 C1_ELT1: .ASCII \25-DEC-1973 21:46:00.05\
35 30 2E 30 30 3A 36 34 3A 31 32 005D
20 31 30 30 32 2D 47 55 41 2D 31 33 0068 83 C1_ELT2: .ASCII \31-AUG-2001 01:32:29.94\
34 39 2E 39 32 3A 32 33 3A 31 30 20 0074
3A 38 31 20 20 20 33 35 37 35 20 20 0080 84 C1_ELT3: .ASCII \ 5753 18:56:01.13 \
20 33 31 2E 31 30 3A 36 35 008C
2D 2D 0095 85 C1_ELT4: .ASCII \--\
0097 86 ;
0097 87 STD_TIMADR_BTM: ; TABLE OF STANDARD TIMADR ARGUMENT
0097 88 ; ... VALUES OUTPUT BY $BINTIM
0097 89 ;
A2C67D20 0097 90 .LONG ^XA2C67D20 ; LOW-ORDER LONGWORD ... 1ST COND 1 ELEMENT
00810CAC 009B 91 .LONG ^X00810CAC ; HIGH-ORDER LONGWORD ... 1ST COND 1 ELEMENT
4347A340 009F 92 .LONG ^X4347A340 ; LOW-ORDER LONGWORD ... 2ND COND 1 ELEMENT
00A01545 00A3 93 .LONG ^X00A01545 ; HIGH-ORDER LONGWORD ... 2ND COND 1 ELEMENT
2A513360 00A7 94 .LONG ^X2A513360 ; LOW-ORDER LONGWORD ... 3RD COND 1 ELEMENT
FFEE56A7 00AB 95 .LONG ^XFFEE56A7 ; HIGH-ORDER LONGWORD ... 3RD COND 1 ELEMENT
00AF 96 ;
00AF 97 STD_TIMBUF_ATMS: ; TABLE OF STANDARD TIMBUF ARGUMENT
00AF 98 ; ... VALUES OUTPUT BY $ASCTIM (SHORT)
00AF 99 ; NOTE -- WILL SKIP CHECKING HUNDREDTHS
00AF 100 ; ... OF A SECOND DUE TO ROUNDING ERROR
00AF 101 ;
000000EB'0000000A 00AF 102 .LONG 10,S_T_A_DATA+12 ; STRING DESCRIPTOR FOR 1ST COND 1 ELEMENT
00000101'0000000A 00B7 103 .LONG 10,S_T_A_DATA+34 ; STRING DESCRIPTOR FOR 2ND COND 1 ELEMENT
00000110'0000000A 00BF 104 .LONG 10,S_T_A_DATA+49 ; STRING DESCRIPTOR FOR 3RD COND 1 ELEMENT
00C7 105 ;
00C7 106 STD_TIMBUF_ATML: ; TABLE OF STANDARD TIMBUF ARGUMENT
00C7 107 ; ... VALUES OUTPUT BY $ASCTIM (LONG)
00C7 108 ; NOTE -- WILL SKIP CHECKING HUNDREDTHS
00C7 109 ; ... OF A SECOND DUE TO ROUNDING ERROR
00C7 110 ;
000000DF'00000016 00C7 111 .LONG 22,S_T_A_DATA ; STRING DESCRIPTOR FOR 1ST COND 1 ELEMENT
000000F5'00000016 00CF 112 .LONG 22,S_T_A_DATA+22 ; STRING DESCRIPTOR FOR 2ND COND 1 ELEMENT
0000010B'0000000F 00D7 113 .LONG 15,S_T_A_DATA+44 ; STRING DESCRIPTOR FOR 3RD COND 1 ELEMENT
00DF 114 ;
00DF 115 S_T_A_DATA: ; TABLE OF STRINGS FOR THE STD_TIMBUF_ATM
00DF 116 ; ... DESCRIPTORS ABOVE
00DF 117 ;
20 33 37 39 31 2D 43 45 44 2D 35 32 00DF 118 .ASCII \25-DEC-1973 21:46:00.0\
30 2E 30 30 3A 36 34 3A 31 32 00EB
20 31 30 30 32 2D 47 55 41 2D 31 33 00F5 119 .ASCII \31-AUG-2001 01:32:29.9\
39 2E 39 32 3A 32 33 3A 31 30 0101
30 3A 36 35 3A 38 31 20 33 35 37 35 010B 120 .ASCII \5753 18:56:01.1\
31 2E 31 0117
011A 121 ;
011A 122 STD_TIMBUF_NMT: ; TABLE OF ADDRESSES FOR STANDARD TIMBUF

```

```

                                011A 123 ; ... ARGUMENT VALUES OUTPUT BY $NUMTIM
                                011A 124 ;
00000126' 011A 125 ; .ADDRESS S_T_N_DATA ; ADDRESS OF BUFFER FOR 1ST COND 1 ELEMENT
00000134' 011E 126 ; .ADDRESS S_T_N_DATA+14 ; ADDRESS OF BUFFER FOR 2ND COND 1 ELEMENT
00000142' 0122 127 ; .ADDRESS S_T_N_DATA+28 ; ADDRESS OF BUFFER FOR 3RD COND 1 ELEMENT
                                0126 128 ;
                                0126 129 $_T_N_DATA: ; TABLE OF 7-WORD BUFFERS POINTED TO BY
                                0126 130 ; ... THE STD_TIMBUF_NMT ADDRESSES ABOVE
                                0126 131 ;
0005 0000 002E 0015 0019 000C 07B5 0126 132 ; .WORD 1973,12,25,21,46,0,5
005E 001D 0020 0001 001F 0008 07D1 0134 133 ; .WORD 2001,8,31,1,32,29,64
000D 0001 0038 0012 1679 0000 0000 0142 134 ; .WORD 0,0,5753,18,56,1,13

```



```

0040 143 .SBTTL CONDITION TABLES
0040 144 :
0040 145 :
0040 146 :
0040 147 :
0040 148 ***** CONDITION TABLES FOR TIME SYSTEM SERVICES *****
0040 149 COND 1,DESC,<TIMBUF>,-
0040 150 <DATE IN PAST (INPUT TO $BINTIM)>,-
0040 151 <DATE IN FUTURE (INPUT TO $BINTIM)>,-
0040 152 <DELTA TIME INTERVAL (INPUT TO $BINTIM)>,-
0040 153 <CURRENT TIME (INPUT TO $BINTIM)>,-
0040 154 <CURRENT TIME (FROM $GETTIM)>,-
00000017 0101 154 .LONG 23 ; LENGTH OF STRING
00000051 0105 155 .ADDRESS C1_ELT1 ; ADDRESS OF STRING
00000018 0109 156 .LONG 24 ; LENGTH OF STRING
00000068 010D 157 .ADDRESS C1_ELT2 ; ADDRESS OF STRING
00000015 0111 158 .LONG 21 ; LENGTH OF STRING
00000080 0115 159 .ADDRESS C1_ELT3 ; ADDRESS OF STRING
00000002 0119 160 .LONG 2 ; LENGTH OF STRING
00000095 011D 161 .ADDRESS C1_ELT4 ; ADDRESS OF STRING
00000000 00000000 0121 162 .LONG 0,0 ; NO DESCRIPTOR FOR THIS TABLE ELEMENT
0129 163 :
0129 164 COND 2,LONG,<CVTFLG>,-
0129 165 <SHORT FORM OF $ASCTIM OUTPUT>,-
0129 166 <LONG FORM OF $ASCTIM OUTPUT>,-
0129 167
00000001 0172 168 .LONG SHORT_ASC ; THE SHORT AND ...
00000000 0176 169 .LONG LONG_ASC ; ... LONG OF IT
017A 170 :
017A 171 COND 3,NULL
017B 172 COND 4,NULL
017B 173
017C 174 COND 5,NULL
017C 175
017D 176
00000000 177 .PSECT SATSSS60,RD,WRT,EXE

```

SA
Sy
VE
VF
WO
WR
PS
--
SA
RO
RW
SA
Ph
--
In
Co
Pa
Sy
Pa
Sy
Ps
Cr
As
Th
37
Th
64
35
Ma
--
--
--
--
TO
61
Th
MA

```

0000 179 .SBTTL TM_SETUP, TM_CLEANUP
0000 180 :++
0000 181 : FUNCTIONAL DESCRIPTION:
0000 182 :
0000 183 : TM SETUP AND TM_CLEANUP ARE CALLED TO PERFORM
0000 184 : REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF
0000 185 : TEST MODULE EXECUTION.
0000 186 :
0000 187 : CALLING SEQUENCE:
0000 188 :
0000 189 : BSBW TM_SETUP BSBW TM_CLEANUP
0000 190 :
0000 191 : INPUT PARAMETERS:
0000 192 :
0000 193 : NONE
0000 194 :
0000 195 : IMPLICIT INPUTS:
0000 196 :
0000 197 : NONE
0000 198 :
0000 199 : OUTPUT PARAMETERS:
0000 200 :
0000 201 : NONE
0000 202 :
0000 203 : IMPLICIT OUTPUTS:
0000 204 :
0000 205 : TM_SETUP: COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED;
0000 206 : ALL PRIVILEGES ACQUIRED.
0000 207 :
0000 208 : COMPLETION CODES:
0000 209 :
0000 210 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0000 211 :
0000 212 : SIDE EFFECTS:
0000 213 :
0000 214 : SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
0000 215 : (VIA RSB) IF ERROR ENCOUNTERED.
0000 216 :
0000 217 :--
0000 218 :
0000 219 :
0000 220 :

```

```

0000 221 TM_SETUP::
0000 222 CLRL R2 ; INITIALIZE
0000 223 CLRL R3 ; .. CONDITION
0000 224 CLRL R4 ; .... TABLE
0000 225 CLRL R5 ; ..... INDEX
0000 226 CLRL R6 ; ..... REGISTERS
0000 227 BSBW MOD MSG PRINT ; PRINT TEST MODULE BEGIN MSG
0000 228 MOVAL TEST_MOD_SUCC,TMD_ADDR ; ASSUME END MSG WILL SHOW SUCCESS
0000 229 INSV #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
0000 230
0000 231 MODE TO,5$,KRNL ; KERNEL MODE TO ACCESS PHD
0000 232 MOVL @#CTL$GL,PHD,R9 ; GET PROCESS HEADER ADDRESS
0000 233 MOVAL PHD$Q,PRIVMSK(R9),PRIVMASK ; GET PRIV MASK ADDRESS
0000 234 MODE FROM,5$ ; BACK TO USER MODE
0000 235 PRIV ADD,ALL ; GET ALL PRIVILEGES

```

```

52 D4 0000
53 D4 0002
54 D4 0004
55 D4 0006
56 D4 0008
FFF3' 30 000A
00000000'EF 00000000'EF DE 000D
03 00 00000000'8F FO 0018
00000000'EF 0020
59 00000000'9F DO 0048
00000000'EF 69 DE 004F
0056
0057

```

```
0077 235 $SETPRN S TEST MOD_NAME_D ; SET PROCESS NAME
0084 236 SS CHECK NORMAL ; CHECK STATUS CODE RETURNED FROM SETPRN
05 00B2 237 RSB ; RETURN TO MAIN ROUTINE
FF4A' 30 00B3 238 TM_CLEANUP::
05 00B6 240 BSBW MOD_MSG_PRINT ; PRINT TEST MODULE END MSG
RSB ; RETURN TO MAIN ROUTINE
```

```

00B7 242 .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
00B7 243 :++
00B7 244 : FUNCTIONAL DESCRIPTION:
00B7 245 :
00B7 246 : COND X AND COND X CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED
00B7 247 : BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW
00B7 248 : CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON
00B7 249 : ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE
00B7 250 : CONDITION X TABLE IS INCLUDED IN THE COND X SUBROUTINE AND CLEANED
00B7 251 : UP, IF NECESSARY, IN THE COND X CLEANUP SUBROUTINE. THIS INCLUDES,
00B7 252 : ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO
00B7 253 : OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO
00B7 254 : VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE
00B7 255 : (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
00B7 256 :
00B7 257 : CALLING SEQUENCE:
00B7 258 :
00B7 259 : BSBW COND X BSBW COND X_CLEANUP
00B7 260 : WHERE X = 1,2,3,4,5
00B7 261 :
00B7 262 : INPUT PARAMETERS:
00B7 263 :
00B7 264 : CONFLICT = 0
00B7 265 :
00B7 266 : IMPLICIT INPUTS:
00B7 267 :
00B7 268 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
00B7 269 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
00B7 270 :
00B7 271 : OUTPUT PARAMETERS:
00B7 272 :
00B7 273 : CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.
00B7 274 :
00B7 275 : IMPLICIT OUTPUTS:
00B7 276 :
00B7 277 : R2,3,4,5,6 PRESERVED
00B7 278 :
00B7 279 : COMPLETION CODES:
00B7 280 :
00B7 281 : NONE
00B7 282 :
00B7 283 : SIDE EFFECTS:
00B7 284 :
00B7 285 : NONE
00B7 286 :
00B7 287 : --
00B7 288 :
00B7 289 :
00B7 290 :
05 00B7 291 COND1:: ; RETURN TO MAIN ROUTINE
00B7 292 RSB
00B8 293 COND1_CLEANUP:: ; RETURN TO MAIN ROUTINE
05 00B8 294 RSB
00B9 295 COND2:: ; RETURN TO MAIN ROUTINE
05 00B9 296 RSB
00BA 297 COND2_CLEANUP:: ; RETURN TO MAIN ROUTINE
05 00BA 298 RSB

```

```
05 00BB 299 COND3::
05 00BB 300 RSB ; RETURN TO MAIN ROUTINE
05 00BC 301 COND3_CLEANUP::
05 00BC 302 RSB ; RETURN TO MAIN ROUTINE
05 00BD 303 COND4::
05 00BD 304 RSB ; RETURN TO MAIN ROUTINE
05 00BE 305 COND4_CLEANUP::
05 00BE 306 RSB ; RETURN TO MAIN ROUTINE
05 00BF 307 COND5::
05 00BF 308 RSB ; RETURN TO MAIN ROUTINE
05 00C0 309 COND5_CLEANUP::
05 00C0 310 RSB ; RETURN TO MAIN ROUTINE
```

```

00C1 312 .SBTTL FORM_CONDS
00C1 313 :++
00C1 314 : FUNCTIONAL DESCRIPTION:
00C1 315 :
00C1 316 : FORM CONDS FORMATS AND PRINTS INFORMATION ABOUT
00C1 317 : THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
00C1 318 :
00C1 319 : CALLING SEQUENCE:
00C1 320 :
00C1 321 : BSBW FORM_CONDS
00C1 322 :
00C1 323 : INPUT PARAMETERS:
00C1 324 :
00C1 325 : NONE
00C1 326 :
00C1 327 : IMPLICIT INPUTS:
00C1 328 :
00C1 329 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
00C1 330 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
00C1 331 : FOR X = 1,2,3,4,5 :
00C1 332 : CONDX_T - TITLE TEXT FOR CONDX TABLE
00C1 333 : CONDX_TAB - ELEMENT TEXT FOR CONDX TABLE
00C1 334 : CONDX_C - CONTEXT OF THE CONDX TABLE
00C1 335 : CONDX_E - DATA ELEMENTS OF THE CONDX TABLE
00C1 336 :
00C1 337 : OUTPUT PARAMETERS:
00C1 338 :
00C1 339 : NONE
00C1 340 :
00C1 341 : IMPLICIT OUTPUTS:
00C1 342 :
00C1 343 : NONE
00C1 344 :
00C1 345 : COMPLETION CODES:
00C1 346 :
00C1 347 : NONE
00C1 348 :
00C1 349 : SIDE EFFECTS:
00C1 350 :
00C1 351 : NONE
00C1 352 :
00C1 353 : --
00C1 354 :
00C1 355 :
00C1 356 :
00C1 357 FORM_CONDS::
00C1 358 $FAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
00E0 359 : FORMAT CONDITIONS HEADER MSG
00E0 360 BSBW OUTPUT_MSG : ... AND PRINT IT
14 10 91 00E3 361 CMPB #COND1_C,#NULL : IS CONDITION 1 NULL ?
00E6 362 BNEQU 10$ : NO -- CONTINUE
00D7 31 00E8 363 BRW FORM_CONDSX : YES -- SUBROUTINE IS FINISHED
00E8 364 10$:
00E8 365 MOVAL COND1_T,MSG_A : SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO
00F6 366 MOVL COND1_TAB[R2],MSG_B : SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAO
0102 367 MOVB #COND1_C,MSG_CTXT : SAVE CONDITION 1 CONTEXT FOR FAO
0109 368 MOV_VAL COND1_C,COND1_E[R2],MSG_DATA1 : GIVE COND 1 DATA VALUE TO FAO

```

```

FF1D' 30
14 10 91
03 12
00D7 31
00E0
00E3
00E6
00E8
00EB
DE 00EB
00000000'EF 00000040'EF
00000000'EF 00000048'EF42
00000000'EF 10 90
0102
0109

```

```

      FEEB' 30 0115 369      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 1 MSG
    14 04 91 0118 370      CMPB  #COND2_C,#NULL    ; IS CONDITION 2 NULL ?
      03 12 011B 371      BNEQU 20$          ; NO -- CONTINUE
    OOA2 31 011D 372      BRW    FORM_CONDSX    ; YES -- SUBROUTINE IS FINISHED
      0120 373 20$:
00000000'EF 00000129'EF DE 0120 374      MOVAL  COND2_T,MSG_A      ; SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO
00000000'EF 00000131'EF43 D0 012B 375      MOVL  COND2_TAB[R3],MSG_B ; SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO
      00000000'EF 04 90 0137 376      MOVB  #COND2_C,MSG_CTXT  ; SAVE CONDITION 2 CONTEXT FOR FAO
      013E 377      MOV_VAL COND2_C,COND2_E[R3],MSG_DATA1 ; GIVE COND 2 DATA VALUE TO FAO
    FEB3' 30 014A 378      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 2 MSG
    14 14 91 014D 379      CMPB  #COND3_C,#NULL    ; IS CONDITION 3 NULL ?
      03 12 0150 380      BNEQU 30$          ; NO -- CONTINUE
    006D 31 0152 381      BRW    FORM_CONDSX    ; YES -- SUBROUTINE IS FINISHED
      0155 382 30$:
00000000'EF 0000017A'EF DE 0155 383      MOVAL  COND3_T,MSG_A      ; SAVE ADDRESS OF CONDITION 3 TITLE FOR FAO
00000000'EF 0000017A'EF44 D0 0160 384      MOVL  COND3_TAB[R4],MSG_B ; SAVE ADDR OF COND 3 CURR TEXT ELT FOR FAO
      00000000'EF 14 90 016C 385      MOVB  #COND3_C,MSG_CTXT  ; SAVE CONDITION 3 CONTEXT FOR FAO
      0173 386      MOV_VAL COND3_C,COND3_E[R4],MSG_DATA1 ; GIVE COND 3 DATA VALUE TO FAO
    FE8A' 30 0173 387      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 3 MSG
    14 14 91 0176 388      CMPB  #COND4_C,#NULL    ; IS CONDITION 4 NULL ?
      47 13 0179 389      BEQLU FORM_CONDSX    ; YES -- SUBROUTINE IS FINISHED
00000000'EF 0000017B'EF DE 017B 390      MOVAL  COND4_T,MSG_A      ; SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO
00000000'EF 0000017B'EF45 D0 0186 391      MOVL  COND4_TAB[R5],MSG_B ; SAVE ADDR OF COND 4 CURR TEXT ELT FOR FAO
      00000000'EF 14 90 0192 392      MOVB  #COND4_C,MSG_CTXT  ; SAVE CONDITION 4 CONTEXT FOR FAO
      0199 393      MOV_VAL COND4_C,COND4_E[R5],MSG_DATA1 ; GIVE COND 4 DATA VALUE TO FAO
    FE64' 30 0199 394      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 4 MSG
    14 14 91 019C 395      CMPB  #COND5_C,#NULL    ; IS CONDITION 5 NULL ?
      21 13 019F 396      BEQLU FORM_CONDSX    ; YES -- SUBROUTINE IS FINISHED
00000000'EF 0000017C'EF DE 01A1 397      MOVAL  COND5_T,MSG_A      ; SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
00000000'EF 0000017C'EF46 D0 01AC 398      MOVL  COND5_TAB[R6],MSG_B ; SAVE ADDR OF COND 5 CURR TEXT ELT FOR FAO
      00000000'EF 14 90 01B8 399      MOVB  #COND5_C,MSG_CTXT  ; SAVE CONDITION 5 CONTEXT FOR FAO
    FE3E' 30 01BF 400      MOV_VAL COND5_C,COND5_E[R6],MSG_DATA1 ; GIVE COND 5 DATA VALUE TO FAO
      01BF 401      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 5 MSG
      01C2 402 FORM_CONDSX:
    05 01C2 403      RSB          ; RETURN TO CALLER

```

```
01C3 405 .SBTTL VERIFY
01C3 406 :++
01C3 407 : FUNCTIONAL DESCRIPTION:
01C3 408 :
01C3 409 : VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION
01C3 410 : TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR
01C3 411 : COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS
01C3 412 : SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE.
01C3 413 : THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED
01C3 414 : BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS
01C3 415 : AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF
01C3 416 : COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN
01C3 417 : ERR_EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY,
01C3 418 : THROUGH THE SS_CHECK MACRO); ERR_EXIT SETS EFLAG TO NON-ZERO,
01C3 419 : PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER.
01C3 420 : WHEN ERR_EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED,
01C3 421 : AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.
01C3 422 :
01C3 423 : CALLING SEQUENCE:
01C3 424 :
01C3 425 : BSBW VERIFY
01C3 426 :
01C3 427 : INPUT PARAMETERS:
01C3 428 :
01C3 429 : NONE
01C3 430 :
01C3 431 : IMPLICIT INPUTS:
01C3 432 :
01C3 433 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
01C3 434 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
01C3 435 : FOR X = 1,2,3,4,5 :
01C3 436 : CONDX_F - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
01C3 437 : TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
01C3 438 : ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
01C3 439 : FOR CONDX_E.
01C3 440 :
01C3 441 : OUTPUT PARAMETERS:
01C3 442 :
01C3 443 : NONE
01C3 444 :
01C3 445 : IMPLICIT OUTPUTS:
01C3 446 :
01C3 447 : VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS,
01C3 448 : IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING
01C3 449 : ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA
01C3 450 : AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED
01C3 451 : ERRORS.
01C3 452 :
01C3 453 : COMPLETION CODES:
01C3 454 :
01C3 455 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
01C3 456 :
01C3 457 : SIDE EFFECTS:
01C3 458 :
01C3 459 : SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
01C3 460 : (VIA RSB) IF ERROR ENCOUNTERED.
01C3 461 :
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01C3 462 :--
01C3 463
01C3 464
01C3 465
01C3 466 VERIFY::
00000000'EF 95 01C3 467 TSTB CFLAG ; SHOULD CONDITIONS BE PRINTED ?
03 13 01C9 468 BEQL 5$ ; NO -- CONTINUE
FEF3 30 01CB 469 BSBW FORM_CONDS ; YES -- FMT & PRINT ALL CONDS FOR THIS T.C.
04 52 D1 01CE 470 5$: CMPL R2,#4 ; 5TH COND 1 ELEMENT ?
03 13 01D1 471 BEQL 8$ ; YES -- ISSUE $GETTIM INSTEAD OF $BINTIM
007A 31 01D3 472 BRW 15$ ; NO -- GO ISSUE $BINTIM
01D6 473
01D6 474 8$:
01D6 475
01D6 476 : ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
01D6 477
01D6 478 $GETTIM_S TIMADR=TIMADR_BTM
00000000'8F 50 D1 01E3 479 CMPL RO,#SS$ _NORMAL ; CODE RECEIVED = CODE EXPECTED ?
03 12 01EA 480 BNEQU 12$ ; NO -- PROCESS ERROR
016E 31 01EC 481 BRW 30$ ; YES -- CONTINUE WITH $ASCTIM
01EF 482 12$:
00000000'EF 00000000'8F D0 01E5 483 MOVL #SS$ _NORMAL,EXPV ; NO -- LOAD UP EXPECTED AND
00000000'EF 50 D0 01FA 484 MOVL RO,RECV ; ... RECEIVED VALUES, THEN EXIT
0201 485 ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM GETTIM>
0250 486 15$:
0250 487
0250 488 : ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
0250 489
0250 490 $BINTIM_S TIMBUF=TIMBUF[R2], -
00000000'8F 50 D1 0264 491 CMPL RO,#SS$ _NORMAL ; CODE RECEIVED = CODE EXPECTED ?
61 13 026B 493 BEQLU 20$ ; YES -- CONTINUE
00000000'EF 00000000'8F D0 026D 494 MOVL #SS$ _NORMAL,EXPV ; NO -- LOAD UP EXPECTED AND
00000000'EF 50 D0 0278 495 MOVL RO,RECV ; ... RECEIVED VALUES, THEN EXIT
027F 496 ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM BINTIM>
02CE 497 20$:
02 52 D1 02CE 498 CMPL R2,#2 ; LOOKING AT CURRENT TIME ?
03 15 02D1 499 BLEQ 25$ ; NO -- COMPARE AGAINST STANDARDS
0087 31 02D3 500 BRW 30$ ; YES -- SKIP COMPARE
02D6 501 25$:
57 00000097'EF42 7E 02D6 502 MOVAQ STD_TIMADR_BTM[R2],R7 ; AVOID INDEX MODE IN CMPC
0000'8F 8B 02DE 503 PUSHR #CMPC_SAV ; SAVE SOME REGS USED BY CMPC (R2 AND R3)
67 00000008'EF 08 29 02E2 504 CMPC #8,TIMADR_BTM,(R7) ; DID $BINTIM PRODUCE EXPECTED RESULT ?
0000'8F 8A 02EA 505 POPR #CMPC_SAV ; RESTORE SOME REGS USED BY CMPC (R2 AND R3)
6D 13 02EE 506 BEQLU 30$ ; YES -- CONTINUE
00000000'EF 00000097'EF42 7D 02F0 507 MOVAQ STD_TIMADR_BTM[R2],EXPV ; NO -- LOAD UP EXPECTED AND
00000000'EF 00000008'EF 7D 02FC 508 MOVAQ TIMADR_BTM,RECV ; ... RECEIVED VALUES, THEN EXIT
0307 509 ERR_EXIT QUAD,<UNEXPECTED VALUE FOR TIMADR ARGUMENT >, -
0307 510
0350 511 30$:
00 00000172'EF43 D1 0350 512 CMPL CVTFLG[R3],#LONG_ASC ; LONG $ASCTIM OUTPUT INDICATED ?
11 13 0365 513 BEQL 33$ ; YES -- GO GET STD TABLE OF LONG VALUES
59 000000AF'EF42 7E 0367 514 MOVAQ STD_TIMBUF_ATMS[R2],R9 ; NO -- GET STD TABLE OF SHORT TIMBUF VALUES
036F 515 ; (R9 USED LATER FOR CMPC INSTR)
00000010'EF 0B D0 036F 516 MOVL #11,TIMBUF_ATM ; ... AND USE A SHORT BUFFER
OF 11 0376 517 BRB 37$ ; GO ISSUE $ASCTIM
0378 518 33$:

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59 000000C7'EF42 7E 0378 519      MOVAQ   STD_TIMBUF_ATML[R2],R9  ; GE^ STD TABLE OF LONG TIMBUF VALUES
   00000010'EF  18  D0 0380 520      MOVL    #24,TIMBUF_ATM        ; ... AND USE A LONG BUFFER
   0387 521 37$:
   0387 522 :
   0387 523 : ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
   0387 524 :
   0387 525      $ASCTIM_S TIMLEN=TIMLEN_ATM, -
   0387 526      TIMBUF=TIMBUF_ATM, -
   0387 527      TIMADR=TIMADR_BTM, -
   0387 528      CVTFLG=CVTFLG[R3]
00000000'8F  50  D1 03A7 529      CMPL    R0,#SS$ _NORMAL        ; CODE RECEIVED = CODE EXPECTED ?
00000000'EF  61  13 03AE 530      BEQLU   40$                    ; YES -- CONTINUE
00000000'8F  50  D0 03B0 531      MOVL    #SS$ _NORMAL,EXPV      ; NO -- LOAD UP EXPECTED AND
00000000'EF  50  D0 03BB 532      MOVL    R0,RCV                 ; ... RECEIVED VALUES, THEN EXIT
03C2 533      ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM ASCTIM>
   0411 534 40$:
   02  52  D1 0411 535      CMPL    R2,#2                  ; LOOKING AT CURRENT TIME ?
   03  15  15 0414 536      BLEQ    45$                    ; NO -- COMPARE AGAINST STANDARDS
   007B 31  31 0416 537      BRW     50$                    ; YES -- SKIP COMPARE
   0419 538 45$:
   00000014'FF  04  B9  69 29 041D 540      PUSHR   #CMPC_SAV              ; SAVE R2 & R3 BEFORE CMPC
   0000'8F  04  BA  69 29 041D 540      CMPC    (R9),#4(R9),@TIMBUF_ATM+4 ; DID $ASCTIM PRODUCE EXPECTED RESULT ?
   0000'8F  04  BA  69 29 0426 541      POPR    #CMPC_SAV              ; RESTORE R2 & R3 AFTER CMPC
   0000'8F  04  BA  69 29 0426 541      BEQLU   50$                    ; YES -- GO ON TO $NUMTIM
00000000'EF  69  7D 042C 543      MOVQ    (R9),EXPV              ; NO -- LOAD UP EXPECTED AND
00000000'EF  00000010'EF 7D 0433 544      MOVQ    TIMBUF_ATM,RCV         ; ... RECEIVED VALUES, THEN EXIT
043E 545      ERR_EXIT DESC,<UNEXPECTED VALUE FOR TIMBUF ARGUMENT >, -
043E 546      <FROM $ASCTIM>
   0494 547 50$:
   0494 548 :
   0494 549 : ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
   0494 550 :
   0494 551      $NUMTIM_S TIMBUF=TIMBUF_NMT, -
   0494 552      TIMADR=TIMADR_BTM
00000000'8F  50  D1 04A7 553      CMPL    R0,#SS$ _NORMAL        ; CODE RECEIVED = CODE EXPECTED ?
00000000'EF  61  13 04AE 554      BEQLU   60$                    ; YES -- CONTINUE
00000000'8F  50  D0 04B0 555      MOVL    #SS$ _NORMAL,EXPV      ; NO -- LOAD UP EXPECTED AND
00000000'EF  50  D0 04BB 556      MOVL    R0,RCV                 ; ... RECEIVED VALUES, THEN EXIT
04C2 557      ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM NUMTIM>
   0511 558 60$:
   02  52  D1 0511 559      CMPL    R2,#2                  ; LOOKING AT CURRENT TIME ?
   03  15  15 0514 560      BLEQ    65$                    ; NO -- COMPARE AGAINST STANDARDS
   017C 31  31 0516 561      BRW     VERIFYX                ; YES -- SKIP COMPARE
   0519 562 65$:
57 0000011A'EF42 D0 0519 563      MOVL    STD_TIMBUF_NMT[R2],R7  ; GET READY FOR ...
58 00000032'EF DE 0521 564      MOVAL   TIMBUF_NMT,R8          ; ... SERIES OF COMPARES
   68  67  D1 0528 565      CMPL    (R7),(R8)              ; DO WORDS 1 & 2 OF TIMBUF MATCH STD ?
   72  13  13 052B 566      BEQLU   70$                    ; YES -- GO LOOK AT MORE OF TIMBUF
00000000'EF  67  D0 052D 567      MOVL    (R7),EXPV              ; NO -- LOAD UP EXPECTED AND
00000000'EF  68  D0 0534 568      MOVL    (R8),RCV               ; ... RECEIVED VALUES, THEN EXIT
053B 569      ERR_EXIT LONG,<UNEXPECTED VALUE FOR TIMBUF ARGUMENT >, -
053B 570      <(WORDS 1 & 2) FROM $NUMTIM>
   059F 571 70$:
   04  A8  04  A7  D1 059F 572      CMPL    4(R7),4(R8)            ; DO WORDS 3 & 4 OF TIMBUF MATCH STD ?
00000000'EF  74  13 05A4 573      BEQLU   80$                    ; YES -- GO LOOK AT MORE OF TIMBUF
00000000'EF  04  A7  D0 05A6 574      MOVL    4(R7),EXPV             ; NO -- LOAD UP EXPECTED AND
00000000'EF  04  A8  D0 05AE 575      MOVL    4(R8),RCV             ; ... RECEIVED VALUES, THEN EXIT

```

			05B6	576	ERR_EXIT LONG,<UNEXPECTED VALUE FOR TIMBUF ARGUMENT >, -	
			05B6	577	<<WORDS 3 & 4> FROM \$NUMTIM>	
			061A	578	80\$:	
08 AB	08 A7	D'	061A	579	CMPL 8(R7),8(R8)	: DO WORDS 5 & 6 OF TIMBUF MATCH STD ?
	74	13	061F	580	BEQLU VERIFYX	: YES -- DON'T LOOK AT WORD 7 ...
			0621	581		: ... BECAUSE OF ROUNDING ERROR
00000000'EF	08 A7	DO	0621	582	MOVL 8(R7),EXPV	: NO -- LOAD UP EXPECTED AND
00000000'EF	08 AB	DO	0629	583	MOVL 8(R8),RCV	: ... RECEIVED VALUES, THEN EXIT
			0631	584	ERR_EXIT LONG,<UNEXPECTED VALUE FOR TIMBUF ARGUMENT >, -	
			0631	585	<<WORDS 5 & 6> FROM \$NUMTIM>	
			0695	586	VERIFYX:	
	05		0695	587	RSB	: RETURN TO CALLER

```

0696 589      .SBTTL VFY_CLEANUP
0696 590      :++
0696 591      : FUNCTIONAL DESCRIPTION:
0696 592      :
0696 593      :           VFY_CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE
0696 594      : EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY_CLEANUP MUST
0696 595      : ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN
0696 596      : ERROR IS FOUND). ALSO, VFY_CLEANUP MAY ISSUE SS_CHECK OR ERR_EXIT
0696 597      : ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED
0696 598      : IN THE EVENT THAT VFY_CLEANUP IS CALLED DURING ERROR PROCESSING,
0696 599      : WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN
0696 600      : POSSIBLY DISCOVERING A SECOND ERROR.
0696 601      :
0696 602      : CALLING SEQUENCE:
0696 603      :
0696 604      :           BSBW VFY_CLEANUP
0696 605      :
0696 606      : INPUT PARAMETERS:
0696 607      :
0696 608      :           NONE
0696 609      :
0696 610      : IMPLICIT INPUTS:
0696 611      :
0696 612      :           R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0696 613      :           FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0696 614      :           FOR X = 1,2,3,4,5 :
0696 615      :           COND_X E - ADDRESS OF TABLE OF DATA VALUES FOR COND_X
0696 616      :           TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
0696 617      :           ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
0696 618      :           FOR COND_X_E.
0696 619      :
0696 620      : OUTPUT PARAMETERS:
0696 621      :
0696 622      :           NONE
0696 623      :
0696 624      : IMPLICIT OUTPUTS:
0696 625      :
0696 626      :           NONE
0696 627      :
0696 628      : COMPLETION CODES:
0696 629      :
0696 630      :           EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0696 631      :
0696 632      : SIDE EFFECTS:
0696 633      :
0696 634      :           SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
0696 635      :           (VIA RSB) IF ERROR ENCOUNTERED.
0696 636      :
0696 637      : --
0696 638      :
0696 639      :
05 0696 641 VFY_CLEANUP::
0696 642      RSB
0696 643      .END
; RETURN TO CALLER

```

SSSS	= 0000063B	R	04	EXPV	*****	X	04
SSSCHARS	= 0000003F			FAO_DESC	*****	X	04
SSSCHARS1	= 0000001C			FAO_LEN	*****	X	04
SSSCHARS2	= 00000018			FORM_CONDS	000000C1	RG	04
SSSCHARS3	= 00000000			FORM_CONDSX	000001C2	R	04
SSSCHARS4	= 00000000			LONG	= 00000004	G	
SSSCHARS5	= 00000000			LONG_ASC	= 00000000		
SSSCOND_A	= 00000001			MOD_MSG_CODE	*****	X	04
SSSTRINGS	= 00000001			MOD_MSG_PRINT	*****	X	04
SSSTRINGS2	= 00000005			MSGT_INP_CTL	00000019	R	02
SST2	= 00000004			MSG3_ERR_CTL	00000039	RG	02
BYTE	= 00000001	G		MSG_A	*****	X	04
C1_ELT1	00000051	R	02	MSG_B	*****	X	04
C1_ELT2	00000068	R	02	MSG_CTXT	*****	X	04
C1_ELT3	00000080	R	02	MSG_DATA1	*****	X	04
C1_ELT4	00000095	R	02	NOTARG	= 00000000	G	
CF[AG	*****	X	04	NULL	= 00000014	G	
CHMRN	*****	X	04	OUTPUT_MSG	*****	X	04
CHM_CONT	*****	X	04	PCV	*****	X	04
CMPC_SAV	*****	X	04	PHDSQ_PRIVMSK	= 00000000		
COMP_SC	*****	X	04	PRIVMSK	00000000	R	03
COND1	000000B7	RG	04	F_IV_ARGS	= 00000002		
COND1_C	= 00000010			F_JCESS_ERR	*****	X	04
COND1_CLEANUP	000000B8	RG	04	QUAD	= 00000008	G	
COND1_E	00000101	R	03	RECV	*****	X	04
COND1_H	00000047	RG	03	REST_REGS	*****	X	04
COND1_T	00000040	R	03	SAVE_REGS	*****	X	04
COND1_TAB	00000048	R	03	SHORT_ASC	= 00000001		
COND2	000000B9	RG	04	SS\$NORMAL	*****	X	04
COND2_C	= 00000004			STD_TIMADR_BTM	00000097	R	02
COND2_CLEANUP	000000BA	RG	04	STD_TIMBUF_ATML	000000C7	R	02
COND2_E	00000172	R	03	STD_TIMBUF_ATMS	000000AF	R	02
COND2_H	00000130	RG	03	STD_TIMBUF_NMT	0000011A	R	02
COND2_T	00000129	R	03	SUCCESS	*****	X	04
COND2_TAB	00000131	R	03	SYSSASCTIM	*****	GX	04
COND3	000000BB	RG	04	SYSSBINTIM	*****	GX	04
COND3_C	= 00000014			SYSSCMKRNL	*****	GX	04
COND3_CLEANUP	000000BC	RG	04	SYSSFAO	*****	X	04
COND3_H	0000017A	RG	03	SYSSGETTIM	*****	GX	04
COND3_T	0000017A	R	03	SYSSNUMTIM	*****	GX	04
COND3_TAB	0000017A	R	03	SYSSSETPRN	*****	GX	04
COND4	000000BD	RG	04	SYSSSETPRV	*****	GX	04
COND4_C	= 00000014			S_T_A_DATA	000000DF	R	02
COND4_CLEANUP	000000BE	RG	04	S_T_N_DATA	00000126	R	02
COND4_H	0000017B	RG	03	TESTNOM	*****	X	04
COND4_T	0000017B	R	03	TEST_MOD_NAME	00000000	RG	02
COND4_TAB	0000017B	R	03	TEST_MOD_NAME_D	00000009	R	02
COND5	000000BF	RG	04	TEST_MOD_SUCC	*****	X	04
COND5_C	= 00000014			TIMADR_BTM	00000008	R	03
COND5_CLEANUP	000000C0	RG	04	TIMBUF	00000101	R	03
COND5_H	0000017C	RG	03	TIMBUF_ATM	00000010	R	03
COND5_T	0000017C	R	03	TIMBUF_NMT	00000032	R	03
COND5_TAB	0000017C	R	03	TIMLEN_ATM	00000030	R	03
CTL\$GC_PHD	*****	X	04	TMD_ADDR	*****	X	04
CVTFLG	00000172	R	03	TM_CLEANUP	000000B3	RG	04
DESC	= 00000010	G		TM_SETUP	00000000	RG	04
EFLAG	*****	X	04	VERIFY	000001C3	RG	04

SATSSS60
Symbol table

VERIFYX
VFY_CLEANUP
WORD
WRITE_MSG2

00000695 R 04
00000696 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	00000150 (336.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	0000017D (381.)	03 (3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
SATSSS60	00000697 (1687.)	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	00:00:00.42
Command processing	133	00:00:00.69	00:00:01.94
Pass 1	248	00:00:06.94	00:00:14.48
Symbol table sort	0	00:00:00.49	00:00:00.49
Pass 2	135	00:00:01.95	00:00:03.33
Symbol table output	15	00:00:00.10	00:00:00.10
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	570	00:00:10.27	00:00:20.79

The working set limit was 1500 pages.
37385 bytes (74 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 312 non-local and 39 local symbols.
643 source lines were read in Pass 1, producing 25 object records in Pass 2.
35 pages of virtual memory were used to define 26 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	13
TOTALS (all libraries)	23

611 GETS were required to define 23 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS60/OBJ=OBJ\$:SATSSS60 MSRC\$:SATSSS60/UPDATE=(ENH\$:SATSSS60)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

