


```

SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  SSSSSSSS  666666  11
SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  SSSSSSSS  666666  11
SS          AA      AA      TT          SS          SS          66          1111
SS          AA      AA      TT          SS          SS          66          1111
SS          AA      AA      TT          SS          SS          66          11
SS          AA      AA      TT          SS          SS          66          11
SSSSSSS    AA      AA      TT          SSSSSSS    SSSSSSS    SSSSSSS    66666666  11
SSSSSSS    AA      AA      TT          SSSSSSS    SSSSSSS    SSSSSSS    66666666  11
          SS    AAAAAAAAAA  TT          SS          SS          66          66  11
          SS    AAAAAAAAAA  TT          SS          SS          66          66  11
          SS    AA      AA      TT          SS          SS          66          66  11
          SS    AA      AA      TT          SS          SS          66          66  11
SSSSSSSS  AA      AA      TT          SSSSSSSS  SSSSSSSS  SSSSSSSS  666666  111111  ....
SSSSSSSS  AA      AA      TT          SSSSSSSS  SSSSSSSS  SSSSSSSS  666666  111111  ....

```

```

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)	55	DECLARATIONS
(1)	119	CONDITION TABLES
(1)	167	TM SETUP, TM CLEANUP
(1)	260	CONDITION SUBROUTINES - SETUP AND CLEANUP
(1)	353	FORM CONDS
(1)	446	VERIFY
(1)	623	VFY CLEANUP
(2)	685	WATCH_AST

```

0000 1 .TITLE SATSSS61,SATS SYST SERV TESTS $SCH/CANWAK (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 SATSSS61 TO TEST SUCCESSFUL
0000 36 : OPERATION OF THE $SCH/CANWAK SYSTEM SERVICE. THE SERVICE IS INVOKED
0000 37 : UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY
0000 38 : SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT
0000 39 : OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY
0000 40 : CHECKING FOR AN SSS NORMAL STATUS CODE, EXPECTED RETURN ARGUMENTS
0000 41 : AND EXPECTED FUNCTIONALITY PERFORMED.
0000 42 :
0000 43 : ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE,
0000 44 : DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.
0000 45 :
0000 46 : AUTHOR: THOMAS L. CAFARELLA, CREATION DATE: APR, 1977
0000 47 :
0000 48 : MODIFIED BY:
0000 49 :
0000 50 : V03-001 LDJ0001 Larry D. Jones, 23-Jun-1983
0000 51 : Removed the quota list to force the use of the
0000 52 : default sysboot quotas.
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 $DIBDEF ; DEVICE INFO BLOCK OFFSETS
0000 64 :
0000 65 : MACROS:
0000 66 :
0000 67 :
0000 68 : EQUATED SYMBOLS:
0000 69 :
00989680 0000 70 ONE_SEC = 10*1000*1000 ; 10 MILLION 100-NANOSECOND UNITS (OR 1 SEC)
0000 71 :
0000 72 : OWN STORAGE:
0000 73 :
```

```

00000000 75 .PSECT RODATA, RD, NOWRT, NOEXE, LONG
0000 76 TEST_MOD_NAME:: STRING C, <SATSSS61> ; TEST MODULE NAME
0009 77 TEST_MOD_NAME_D: STRING I, <SATSSS61> ; TEST MODULE NAME DESCRIPTOR
0019 78 MSG1_INP_CTL: STRING I, <SSSCW!4ZW: CONDITIONS:>
0039 79 ;
0039 80 MSG3_ERR_CTL:: STRING I, <*SSSCW!4ZW: !AS> ; FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR
0051 81 ;
0051 82 SUBJPRN: STRING I, <SATSSS61 CRE> ; PROCESS & MBX NAME FOR CREATED PROCESS
0065 83 IMAGNAM: STRING I, <SYSTST$RES: SATSUT07.EXE> ; IMAGE NAME FOR CREATED PROC
31 36 53 53 0000008C'010E0000' 0084 84 CLUSTER: .ASCID /SS61/ ; STRING DESCRIPTOR FOR CLUSTER
0090 85 ; ... FOR CREATED PROCESS COMMUNICATION
0090 86 ;QUOTALIST: $QJOTA CPULM,0 ; INFINITE CPU
0090 87 : $QUOTA BYTLM,512 ; BYTE LIMIT FOR BUFFERED I/O
0090 88 : $QUOTA FILLM,2 ; OPEN FILE COUNT LIMIT
0090 89 : $QUOTA PGFLQUOTA,10 ; PAGING FILE QUOTA
0090 90 : $QUOTA PRCLM,2 ; SUBPROCESS QUOTA
0090 91 : $QUOTA TQELM,3 ; TIMER QUEUE ENT^ A
0090 92 : $QUOTA LISTEND ; DEFINES END OF L
FFFFFFFF FF676980 0090 93 DELTA_1SEC: .LONG -ONE_SEC,-1 ; DLLTA TIME VALUE FOR 1 SECOND
FFFFFFFF FECED300 0098 94 DELTA_2SEC: .LONG -2*ONE_SEC,-1 ; DELTA TIME VALUE FOR 2 SECONDS
FFFFFFFF FE363C80 00A0 95 DELTA_3SEC: .LONG -3*ONE_SEC,-1 ; DELTA TIME VALUE FOR 3 SECONDS
FFFFFFFF FA0A1F00 00A8 96 DELTA_10SEC: .LONG -10*ONE_SEC,-1 ; DELTA TIME VALUE FOR 10 SECONDS
FFFFFFFF FFD9DA60 00B0 97 DELTA_QSEC: .LONG -<ONE_SEC/4>,-1 ; DELTA TIME VALUE FOR A QUARTER-SECOND
00000000 01C9C380 00B8 98 POS_3SEC: .LONG 3*ONE_SEC,0 ; 3 SECONDS (POSITIVE VALUE)
00C0 99 TIME_PAST: STRING I, <25-DEC-1973 21:46:00.00> ; A TIME IN THE PAST

```

00000000	0000	101	.PSECT	RWDATA,RD,WRT,NOEXE, LONG	
00000008	0000	102	PRIVMASK:	.BLKQ 1	: ADDR OF PRIVILEGE MASK (IN PHD)
0000000C	0008	103	MBXCHAN:	.BLKL 1	: CHAN. NO. FOR MAILBOX FOR CREATED PROCESS
	000C	104	MBXCHANINFO:		: CHANNEL INFO RETURNED BY GETCHN
00000074	000C	105		.LONG DIB\$K_LENGTH	
00000014	0010	106		.ADDRESS +4	
00000088	0014	107		.BLKB DIB\$K_LENGTH	
0000008C	0088	108	MBXUNIT:	.BLKL 1	: SAVE AREA FOR MAILBOX UNIT NUMBER
	008C	109	MBXBUFF:	STRING 0,120	: MAILBOX BUFFER FOR CREATED PROCESS
00000110	010C	110	DEST_PIDADR:	.BLKL 1	: DESTINATION PID ADDR, WRITTEN BY S.S.
00000114	0110	111	ZEROPID:	.BLKL 1	: PID OF ZEROES
00000000	0114	112	SELPID:	.LONG 0	: PID OF THIS PROCESS
0000011C	0118	113	CREPID:	.BLKL 1	: PID OF CREATED PROCESS
00000120	011C	114	SUBJPID:	.BLKL 1	: PID OF SUBJECT PROCESS (SELF OR OTHER)
00000128	0120	115	ABS_3SEC:	.BLKQ 1	: WILL HOLD ABS TIME VALUE FOR NOW + 3 SECS
00000130	0128	116	ABS_PAST:	.BLKQ 1	: WILL HOLD ABS TIME VALUE FOR TIME IN PAST
00000131	0130	117	LONG_WAIT:	.BLKB 1	: LONG WAIT INDICATOR; 0=NO LONG WAIT

```

0131 119
0131 120
0131 121
0131 122
0131 123
0131 124
0131 125
0131 126
0131 127
00000000' 017C 128
0000011C' 0180 129
00000110' 0184 130
0188 131
0188 132
0188 133
0188 134
0188 135
00000051' 01BE 136
00000000' 01C2 137
01C6 138
01C6 139
01C6 140
01C6 141
01C6 142
01C6 143
01C6 144
01C6 145
FFFFFFF 025B 146
00000000 025F 147
00000267 0263 148
0000026B 0267 149
0000026F 026B 150
026F 151
026F 152
026F 153
026F 154
026F 155
026F 156
026F 157
00000090'00000120' 02EB 158
000000A0'00000090' 02F3 159
00000000'00000000' 02FB 160
00000000'00000090' 0303 161
030B 162
030B 163
030C 164
00000000 165

.SBTTL CONDITION TABLES
***** CONDITION TABLES FOR SCH/CANWAK SYSTEM SERVICE *****
COND 1,NOTARG,<PID ADDRESS>,-
      <NOT SPECIFIED>,-
      <SPECIFIED, NON-ZERO>,-
      <SPECIFIED, ZERO>,-
      .ADDRESS 0
      .ADDRESS SUBJPID
      .ADDRESS ZEROPID
COND 2,NOTARG,<PROCESS NAME ADDRESS>,-
      <SPECIFIED>,-
      <NOT SPECIFIED>,-
      .ADDRESS SUBJPRN
      .ADDRESS 0
COND 3,NOTARG,<PROCESS TYPE>,-
      <SELF>,-
      <SUBPROCESS>,-
      <DETACHED, DIFFERENT GROUP>,-
      <DETACHED, SAME GROUP, SAME MEMBER>,-
      <DETACHED, SAME GROUP, DIFFERENT MEMBER>,-
      .LONG ^XFFFFFFF : PSEUDO-UIC
      .LONG 0 : PSEUDO-UIC
      .BLKL 1 : UIC
      .BLKL 1 : UIC
      .BLKL 1 : UIC
COND 4,NOTARG,<ORDERING OF CANCEL/WAKE/REPEAT>,-
      <CANCEL, WAKE, REPEAT>,-
      <WAKE, CANCEL, REPEAT>,-
      <WAKE, REPEAT, CANCEL>,-
      <WAKE, CANCEL>,-
      .ADDRESS ABS_3SEC,DELTA_1SEC : DAYTIM, REPTIM ARG ADDRESSES
      .ADDRESS DELTA_1SEC,DELTA_3SEC : DAYTIM, REPTIM ARG ADDRESSES
      .ADDRESS ONES,ONES : DAYTIM, REPTIM ARG ADDRESSES
      .ADDRESS DELTA_1SEC,0 : DAYTIM, REPTIM ARG ADDRESSES
COND 5,NULL
.PSECT SATSSS61,RD,WRT,EXE

```



```
0245 260 .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
0245 261 :++
0245 262 : FUNCTIONAL DESCRIPTION:
0245 263 :
0245 264 : COND1 AND COND2 CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED
0245 265 : BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW
0245 266 : CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON
0245 267 : ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE
0245 268 : CONDITION X TABLE IS INCLUDED IN THE COND1 SUBROUTINE AND CLEANED
0245 269 : UP, IF NECESSARY, IN THE COND1 CLEANUP SUBROUTINE. THIS INCLUDES,
0245 270 : ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO
0245 271 : OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO
0245 272 : VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE
0245 273 : (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
0245 274 :
0245 275 : CALLING SEQUENCE:
0245 276 :
0245 277 : BSBW COND1 BSBW COND1_CLEANUP
0245 278 : WHERE X = 1,2,3,4,5
0245 279 :
0245 280 : INPUT PARAMETERS:
0245 281 :
0245 282 : CONFLICT = 0
0245 283 :
0245 284 : IMPLICIT INPUTS:
0245 285 :
0245 286 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0245 287 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0245 288 :
0245 289 : OUTPUT PARAMETERS:
0245 290 :
0245 291 : CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.
0245 292 :
0245 293 : IMPLICIT OUTPUTS:
0245 294 :
0245 295 : R2,3,4,5,6 PRESERVED
0245 296 :
0245 297 : COMPLETION CODES:
0245 298 :
0245 299 : NONE
0245 300 :
0245 301 : SIDE EFFECTS:
0245 302 :
0245 303 : NONE
0245 304 :
0245 305 : --
0245 306 :
0245 307 :
0245 308 :
05 0245 309 COND1:: RSB ; RETURN TO MAIN ROUTINE
0246 310 COND1_CLEANUP:: RSB ; RETURN TO MAIN ROUTINE
05 0246 311 COND2:: RSB ; RETURN TO MAIN ROUTINE
0247 312 COND2_CLEANUP:: RSB ; RETURN TO MAIN ROUTINE
05 0247 313 COND2_CLEANUP:: RSB ; RETURN TO MAIN ROUTINE
0248 314 COND2_CLEANUP:: RSB ; RETURN TO MAIN ROUTINE
05 0248 315 COND2_CLEANUP:: RSB ; RETURN TO MAIN ROUTINE
0248 316 COND2_CLEANUP:: RSB ; RETURN TO MAIN ROUTINE
```

K 10

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02 54 D1 0249 317 COND3::
    35 13 0249 318          CMPL   R4,#2          ; DOES CONDITION 3 SPECIFY DIFFERENT GROUP ?
000017C'EF42 000011C'8F D1 024C 319          BEQL   20$          ; YES -- THIS IS CONFLICT BECAUSE OF
    19 13 024E 320          ; ... USE OF COMMON CLUSTERS
00001BE'EF43 D1 024E 321          CMPL   #SUBJPID,COND1_E[R2] ; NON-ZERO PID SPECIFIED ?
    10 12 025A 322          BEQLU  10$          ; YES -- PROCESS IS 'OTHER'
    05 05 025C 323          TSTL   COND2_E[R3]    ; IS PROCESS NAME SPECIFIED ?
    12 12 0263 324          BNEQ   10$          ; YES -- SUBJECT PROCESS IS 'OTHER'
    0265 325 5$:
    0265 326          ;
    0265 327          ; PROCESS IS "SELF"
    0265 328          ;
000025B'EF44 0000000'EF D1 0265 329          CMPL   ONES,COND3_E[R4] ; DOES CONDITION 3 SPECIFY "SELF" ?
    1B 13 0271 330          BEQLU  COND3X          ; YES -- THEN ALL 3 CONDIT'NS ARE CONSISTENT
    0E 11 0273 331          BRB    20$          ; NO -- INDICATE CONFLICT & GET OUT
    0275 332 10$:
    0275 333          ;
    0275 334          ; PROCESS IS "OTHER"
    0275 335          ;
000025B'EF44 0000000'EF D1 0275 336          CMPL   ONES,COND3_E[R4] ; DOES CONDITION 3 SPECIFY "SELF" ?
    0B 12 0281 337          BNEQU  COND3X          ; NO -- THEN ALL 3 CONDITIONS ARE CONSISTENT
0000000'EF 0000000'EF 90 0283 338 20$:
    05 05 028E 340          MOVB   ONES,CONFLICT ; YES -- INDICATE CONFLICT
    05 05 028E 341          CONDX:  RSB          ; RETURN TO MAIN ROUTINE
    05 05 028F 342          COND3_CLEANUP:: RSB          ; RETURN TO MAIN ROUTINE
    05 05 028F 343          COND4::  RSB          ; RETURN TO MAIN ROUTINE
    05 05 0290 344          COND4_CLEANUP:: RSB          ; RETURN TO MAIN ROUTINE
    05 05 0291 345          CONDX:  RSB          ; RETURN TO MAIN ROUTINE
    05 05 0291 346          COND4_CLEANUP:: RSB          ; RETURN TO MAIN ROUTINE
    05 05 0292 347          CONDX:  RSB          ; RETURN TO MAIN ROUTINE
    05 05 0292 348          COND5::  RSB          ; RETURN TO MAIN ROUTINE
    05 05 0293 349          COND5_CLEANUP:: RSB          ; RETURN TO MAIN ROUTINE
    05 05 0293 350          COND5_CLEANUP:: RSB          ; RETURN TO MAIN ROUTINE
    05 05 0293 351          RSB          ; RETURN TO MAIN ROUTINE
```

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0294 353 .SBTTL FORM_CONDS
0294 354 :++
0294 355 : FUNCTIONAL DESCRIPTION:
0294 356 :
0294 357 : FORM CONDS FORMATS AND PRINTS INFORMATION ABOUT
0294 358 : THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
0294 359 :
0294 360 : CALLING SEQUENCE:
0294 361 :
0294 362 : BSBW FORM_CONDS
0294 363 :
0294 364 : INPUT PARAMETERS:
0294 365 :
0294 366 : NONE
0294 367 :
0294 368 : IMPLICIT INPUTS:
0294 369 :
0294 370 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0294 371 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0294 372 : FOR X = 1,2,3,4,5 :
0294 373 : COND1_T - TITLE TEXT FOR COND1 TABLE
0294 374 : COND1_TAB - ELEMENT TEXT FOR COND1 TABLE
0294 375 : COND1_C - CONTEXT OF THE COND1 TABLE
0294 376 : COND1_E - DATA ELEMENTS OF THE COND1 TABLE
0294 377 :
0294 378 : OUTPUT PARAMETERS:
0294 379 :
0294 380 : NONE
0294 381 :
0294 382 : IMPLICIT OUTPUTS:
0294 383 :
0294 384 : NONE
0294 385 :
0294 386 : COMPLETION CODES:
0294 387 :
0294 388 : NONE
0294 389 :
0294 390 : SIDE EFFECTS:
0294 391 :
0294 392 : NONE
0294 393 :
0294 394 :--
0294 395 :
0294 396 :
0294 397 :
0294 398 FORM_CONDS::
0294 399 $FAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
0283 400 : FORMAT CONDITIONS HEADER MSG
0283 401 BSBW OUTPUT_MSG : ... AND PRINT IT
14 00 91 0286 402 CMPB #COND1_C,#NULL : IS CONDITION 1 NULL ?
03 12 0289 403 BNEQU 10$ : NO -- CONTINUE
00BF 31 028B 404 BRW FORM_CONDSX : YES -- SUBROUTINE IS FINISHED
028E 405 10$:
00000000'EF 00000131'EF DE 028E 406 MOVAL COND1_T,MSG_A : SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO
00000000'EF 0000013E'EF42 D0 02C9 407 MOVL COND1_TAB[R2],MSG_B : SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAO
00000000'EF 00 90 02D5 408 MOVB #COND1_C,MSG_CTXT : SAVE CONDITION 1 CONTEXT FOR FAO
02DC 409 MOV_VAL COND1_C,COND1_E[R2],MSG_DATA1 : GIVE COND 1 DATA VALUE TO FAO

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14 FD21' 30 02DC 410 BSBW WRITE_MSG2 : FORMAT AND WRITE CONDITION 1 MSG
   00 91 02DF 411 CMPB #COND2_C,#NULL : IS CONDITION 2 NULL ?
   03 12 02E2 412 BNEQU 20$ : NO -- CONTINUE
0096 31 02E4 413 BRW FORM_CONDSX : YES -- SUBROUTINE IS FINISHED
   02E7 414 20$:
00000000'EF 00000188'EF DE 02E7 415 MOVAL COND2_T,MSG_A : SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO
00000000'EF 0000019E'EF43 D0 02F2 416 MOVL COND2_TAB[R3],MSG_B : SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO
   00000000'EF 00 90 02FE 417 MOVB #COND2_C,MSG_CTXT : SAVE CONDITION 2 CONTEXT FOR FAO
   FCF8' 30 0305 418 MOV_VAL COND2_C,COND2_E[R3],MSG_DATA1 : GIVE COND 2 DATA VALUE TO FAO
14 00 91 0305 419 BSBW WRITE_MSG2 : FORMAT AND WRITE CONDITION 2 MSG
   03 12 0308 420 CMPB #COND3_C,#NULL : IS CONDITION 3 NULL ?
006D 31 030B 421 BNEQU 30$ : NO -- CONTINUE
   030D 422 BRW FORM_CONDSX : YES -- SUBROUTINE IS FINISHED
   0310 423 30$:
00000000'EF 000001C6'EF DE 0310 424 MOVAL COND3_T,MSG_A : SAVE ADDRESS OF CONDITION 3 TITLE FOR FAO
00000000'EF 000001D4'EF44 D0 031B 425 MOVL COND3_TAB[R4],MSG_B : SAVE ADDR OF COND 3 CURR TEXT ELT FOR FAO
   00000000'EF 00 90 0327 426 MOVB #COND3_C,MSG_CTXT : SAVE CONDITION 3 CONTEXT FOR FAO
   FCCF' 30 032E 427 MOV_VAL COND3_C,COND3_E[R4],MSG_DATA1 : GIVE COND 3 DATA VALUE TO FAO
14 00 91 032E 428 BSBW WRITE_MSG2 : FORMAT AND WRITE CONDITION 3 MSG
   47 13 0334 429 CMPB #COND4_C,#NULL : IS CONDITION 4 NULL ?
00000000'EF 0000026F'EF DE 0336 430 BEQLU FORM_CONDSX : YES -- SUBROUTINE IS FINISHED
00000000'EF 0000028F'EF45 D0 0341 431 MOVAL COND4_T,MSG_A : SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO
   00000000'EF 00 90 034D 432 MOVL COND4_TAB[R5],MSG_B : SAVE ADDR OF COND 4 CURR TEXT ELT FOR FAO
   0354 433 MOVB #COND4_C,MSG_CTXT : SAVE CONDITION 4 CONTEXT FOR FAO
   FCA9' 30 0354 434 MOV_VAL COND4_C,COND4_E[R5],MSG_DATA1 : GIVE COND 4 DATA VALUE TO FAO
14 14 91 0354 435 BSBW WRITE_MSG2 : FORMAT AND WRITE CONDITION 4 MSG
   21 13 0357 436 CMPB #COND5_C,#NULL : IS CONDITION 5 NULL ?
00000000'EF 0000030B'EF DE 035A 437 BEQLU FORM_CONDSX : YES -- SUBROUTINE IS FINISHED
00000000'EF 0000030B'EF46 D0 035C 438 MOVAL COND5_T,MSG_A : SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
   00000000'EF 14 90 0367 439 MOVL COND5_TAB[R6],MSG_B : SAVE ADDR OF COND 5 CURR TEXT ELT FOR FAO
   0373 440 MOVB #COND5_C,MSG_CTXT : SAVE CONDITION 5 CONTEXT FOR FAO
   FC83' 30 037A 441 MOV_VAL COND5_C,COND5_E[R6],MSG_DATA1 : GIVE COND 5 DATA VALUE TO FAO
   037A 442 BSBW WRITE_MSG2 : FORMAT AND WRITE CONDITION 5 MSG
   037D 443 FORM_CONDSX:
05 037D 444 RSB : RETURN TO CALLER

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037E 446 .SBTTL VERIFY
037E 447 :++
037E 448 : FUNCTIONAL DESCRIPTION:
037E 449 :
037E 450 :         VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION
037E 451 : TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR
037E 452 : COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS
037E 453 : SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE
037E 454 : ($SCH/CANWAK). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED
037E 455 : BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS
037E 456 : AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF
037E 457 : COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN
037E 458 : ERR_EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY,
037E 459 : THROUGH THE SS_CHECK MACRO); ERR_EXIT SETS EFLAG TO NON-ZERO,
037E 460 : PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER.
037E 461 : WHEN ERR_EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED,
037E 462 : AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.
037E 463 :
037E 464 : CALLING SEQUENCE:
037E 465 :
037E 466 :         BSBW VERIFY
037E 467 :
037E 468 : INPUT PARAMETERS:
037E 469 :
037E 470 :         NONE
037E 471 :
037E 472 : IMPLICIT INPUTS:
037E 473 :
037E 474 :         R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
037E 475 :         FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
037E 476 :         FOR X = 1,2,3,4,5 :
037E 477 :         CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
037E 478 :         TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
037E 479 :         ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
037E 480 :         FOR CONDX_E.
037E 481 :
037E 482 : OUTPUT PARAMETERS:
037E 483 :
037E 484 :         NONE
037E 485 :
037E 486 : IMPLICIT OUTPUTS:
037E 487 :
037E 488 :         VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS,
037E 489 :         IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING
037E 490 :         ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA
037E 491 :         AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED
037E 492 :         ERRORS.
037E 493 :
037E 494 : COMPLETION CODES:
037E 495 :
037E 496 :         EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
037E 497 :
037E 498 : SIDE EFFECTS:
037E 499 :
037E 500 :         SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
037E 501 :         (VIA RSB) IF ERROR ENCOUNTERED.
037E 502 :
  
```

```

037E 503 ;--
037E 504
037E 505
037E 506
037E 507 VERIFY::
00000000'EF 95 037E 508 TSTB CFLAG ; SHOULD CONDITIONS BE PRINTED ?
03 13 0384 509 BEQL 5$ ; NO -- CONTINUE
FF0B 30 0386 510 BSBW FORM_CONDS ; YES -- FMT & PRINT ALL CONDS FOR THIS T.C.
0000011C'EF 00000114'EF D0 0389 511 5$:
00000110'EF D4 0394 512 MOVL SELFPID,SUBJPID ; ASSUME THE SUBJECT PID IS SELF
00000130'EF 94 039A 513 CLRL ZEROPIB ; CLEAR ZERO PID
0000025B'EF44 00000000'EF D1 03A0 514 CLRB LONG_WAIT ; INITIALIZE LONG WAIT INDICATOR
03 12 03AC 515 CMPL ONES,COND3_E[R4] ; IS PROCESS FOR THIS TEST CASE SELF ?
0070 31 03AE 516 BNEQU 7$ ; NO -- CONTINUE
03B1 517 BRW 10$ ; YES -- DON'T CREATE A PROCESS
03B1 518 7$:
03B1 519 $SCREPRC_S PIDADR=CREPID, PRCNAM=SUBJPRN, -
03B1 520 UIC=COND3_E[R4], IMAGE=IMAGNAM, -
03B1 521 MBXUNT=MBXUNIT;, QUOTA=QUOTALIST
03E8 522 ; CREATE THE SUBJECT PROCESS
0000011C'EF 00000118'EF D0 0416 523 SS CHECK NORMAL ; ... AND MAKE SURE IT CREATED OK
0421 524 MOVL CREPID,SUBJPID ; MAKE THE SUBJCT PID = THE ONE JUST CREATED
0000010C'EF 0000017C'EF42 D0 0421 525 10$:
59 000001BE'EF43 D0 042D 526 MOVL COND1_E[R2],DEST_PIDADR ; GET PID ADDRESS OUT OF TABLE
57 000002EB'EF45 7D 0435 527 MOVL COND2_E[R3],R9 ; PRCNAM ADDR INTO REG FOR INDIRECT REF'RNCE
043D 528 MOVQ COND4_E[R5],R7 ; GET DAYTIM, REPTIM ARG ADDRESSES INTO REGS
044C 529 $SCANWAK S SUBJPID ; ISSUE PRELIM CANWAK TO CLEAR THE DECKS
047A 530 SS CHECK NORMAL ; CHECK FOR NORMAL RETURN
047A 531 $SETIMR_S DAYTIM=DELTA_10SEC, - ; SET 'WATCHDOG' TIMER TO TRIP IF LONG WAIT
0491 532 ASTADR=WATCH_AST
04BF 533 SS CHECK NORMAL ; CHECK FOR NORMAL RETURN
04CC 534 $GETTIM S ABS_3SEC ; GET CURRENT TIME
00000120'EF 000000B8'EF C0 04FA 535 SS CHECK NORMAL ; CHECK FOR NORMAL RETURN
00000124'EF 000000BC'EF D8 0505 536 ADDL POS_3SEC,ABS_3SEC ; ADD 3 SECONDS TO LOWER LONGWORD
0510 537 ADWC POS_3SEC+4,ABS_3SEC+4 ; ADD POSSIBLE CARRY TO HIGHER LONGWORD
0510 538 ; ABS_3SEC IS NOW VALID IF USED IN $SCHDWK
0510 539 :
0510 540 : ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
0510 541 :
0510 542 $SCHDWK_S PIDADR=@DEST_PIDADR, PRCNAM=(R9), -
0510 543 DAYTIM=(R7), REPTIM=(R8)
00000000'8F 50 D1 0523 544 CMPL R0,#SS$_NORMAL ; CODE RECEIVED = CODE EXPECTED ?
61 13 052A 545 BEQLU 15$ ; YES -- CONTINUE
00000000'EF 00000000'8F D0 052C 546 MOVL #SS$_NORMAL,EXPV ; NO -- LOAD UP EXPECTED AND
00000000'EF 50 D0 0537 547 MOVL R0,RECV ; ... RECEIVED VALUES, THEN EXIT
053E 548 ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM SCHDWK>
058D 549 15$:
0000010C'EF D5 058D 550 TSTL DEST_PIDADR ; PID RETURNED BY SCHDWK ?
68 13 0593 551 BEQL 20$ ; NO -- KEEP GOING
0000010C'FF 0000011C'EF D1 0595 552 CMPL SUBJPID,@DEST_PIDADR ; YES -- IS IT THE CORRECT ONE ?
5B 13 05A0 553 BEQL 20$ ; YES -- CONTINUE
00000000'EF 0000011C'EF D0 05A2 554 MOVL SUBJPID,EXPV ; NO --LOAD UP EXPECTED AND
00000000'EF 0000010C'FF D0 05AD 555 MOVL @DEST_PIDADR,RECV ; ... RECEIVED VALUES, THEN EXIT
0588 556 ERR_EXIT LONG,<INCORRECT PID RETURNED BY SCHDWK>
05FD 557 20$:
2E 50 E8 0606 558 $CLREF_S EFN=#32 ; CLEAR EVENT FLAG 32
559 BLBS R0,25$ ; KEEP GOING IF OK

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0609 560          SJ_CHECK NORMAL          ; USE SS_CHECK MACRO TO TERMINATE TEST MOD
0637 561 25$:   $SETIMR_S EFN=#32, -      ; SET A 2-SECOND TIMER
0637 562         DAYTIM=DELTA_2SEC
0637 563         SS_CHECK NORMAL          ; CHECK FOR NORMAL RETURN
0648 564         $WAITFR S EFN=#32      ; WAIT 2 SECONDS TO ALLOW PROPER SYNCH'N
0676 565         SS_CHECK NORMAL          ; CHECK FOR NORMAL RETURN
067F 566         CLRL ZEROPID           ; CLEAR OUT ZERO PID SCHDWK MAY HAVE SET
00000110'EF D4 06AD 567
06B3 568 ;
06B3 569 ; ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
06B3 570 ;
06B3 571         $SCANWAK_S PIDADR=@DEST_PIDADR, PRONAM=(R9)
06C2 572         CANCEL SCHEDULED WAKE OR REPEAT
00000000'8F 50 D1 06C2 573         Cmpl RO,#SS$_NORMAL      ; CODE RECEIVED = CODE EXPECTED ?
61 13 06C9 574         BEQL 30$          ; YES -- CONTINUE
00000000'EF 00000000'8F D0 06CB 575         MOVL #SS$_NORMAL,EXPV ; NO -- LOAD UP EXPECTED AND
00000000'EF 50 D0 06D6 576         MOVL RO,RECV          ; ... RECEIVED VALUES, THEN EXIT
06DD 577         ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM CANWAK>
072C 578 30$:   TSTL DEST_PIDADR          ; PID RETURNED BY CANWAK ?
0000010C'EF D5 072C 579         BEQL 40$          ; NO -- KEEP GOING
68 13 0732 580         Cmpl SUBJPID,@DEST_PIDADR      ; YES -- IS IT THE CORRECT ONE ?
0000010C'FF 0000011C'EF D1 0734 581         BEQL 40$          ; YES -- CONTINUE
5B 13 073F 582         MOVL SUBJPID,EXPV          ; NO --LOAD UP EXPECTED AND
00000000'EF 0000011C'EF D0 0741 583         MOVL @DEST_PIDADR,RECV      ; ... RECEIVED VALUES, THEN EXIT
00000000'EF 0000010C'FF D0 074C 584         ERR_EXIT LONG,<INCORRECT PID RETURNED BY CANWAK>
0757 585
079C 586 40$:   Cmpl CREPID,SUBJPID          ; WAS A PROCESS CREATED ?
0000011C'EF 00000118'EF D1 079C 587         BEQLU 50$          ; YES -- GO WAIT FOR IT TO END
03 13 07A7 588         BRW 60$           ; NO -- GO ISSUE HIBER
014F 31 07A9 589
07AC 590 50$:   $ASCEFC S EFN=#64, NAME=CLUSTER ; ASSOC WITH CLUSTER FOR PROCESS SYNCHRO'N
07AC 591         SS_CHECK NORMAL          ; CHECK FOR NORMAL STATUS
07C3 592         $SETEF S EFN=#65      ; LET CREATED PROC EXIT
07F1 593         SS_CHECK WASCLR        ; BIT 65 SHOULD HAVE BEEN CLEAR
07FE 594         $WAITFR S EFN=#64      ; WAIT UNTIL CREATED PROC CAN HIBERNATE
082C 595         SS_CHECK NORMAL          ; CHECK FOR NORMAL RETURN
0839 596         $DACEFC S EFN=#64      ; DISASSOC CLUSTER
0867 597         SS_CHECK NORMAL          ; CHECK FOR NORMAL STATUS
0874 598         $QIOW_S CHAN=MBXCHAN, FUNC=#IOS READVBLK, -
08A2 599         P1=MBXBUFF+8, P2=MBXBUFF
08CB 601
08CB 602         SS_CHECK NORMAL          ; WAIT FOR CREATED PROCESS TO SEND MAIL
35 11 08F9 603         BRB 70$          ; CHECK FOR NORMAL STATUS CODE
08FB 604 60$:   $HIBER S                ; ... AND GO SEE IF WE WERE STUCK IN HIBER
08FB 605         SS_CHECK NORMAL          ; HIBERNATE TO SATISFY OUTSTANDING WAKE
0902 606         ; ... MAKE SURE IT FINISHED OK
0930 607 70$:   CHECK TO SEE IF STUCK IN HIBER ..... IF LONG WAIT
0930 608         IS SET AND DID NOT EXPECT LONG WAIT, ISSUE ERR_EXIT
0930 609         SAYING "STUCK IN HIBER".
0930 610
0930 611
0930 612
00000130'EF 95 0930 613         TSTB LONG WAIT          ; DID WE WAIT A LONG TIME ?
5C 13 0936 614         BEQL VERIFYX        ; NO -- THIS TEST CASE IS FINISHED
55 D5 0938 615         TSTL R5           ; YES -- DID WE EXPECT TO REMAIN IN HIB'N ?
58 13 093A 616         BEQL VERIFYX        ; YES -- THAT'S OK

```

```
00000000'EF 94 093C 617 CLR B EXPV ; NO -- SOMETHING WENT WRONG ...: LOAD UP  
00000000'EF 94 0942 618 CLR B RECV ; ... EXPECTED & RECEIVED VALUES, THEN EXIT  
0948 619 ERR_EXIT BYTE,<SUBJECT PROCESS WAS LEFT IN HIBERNATION>  
0994 620 VERIFYX:  
05 0994 621 RSB ; RETURN TO CALLER
```

```
0995 623 .SBTTL VFY_CLEANUP
0995 624 :++
0995 625 : FUNCTIONAL DESCRIPTION:
0995 626 :
0995 627 : VFY_CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE
0995 628 : EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY_CLEANUP MUST
0995 629 : ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN
0995 630 : ERROR IS FOUND). ALSO, VFY_CLEANUP MAY ISSUE SS CHECK OR ERR_EXIT
0995 631 : ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED
0995 632 : IN THE EVENT THAT VFY_CLEANUP IS CALLED DURING ERROR PROCESSING,
0995 633 : WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN
0995 634 : POSSIBLY DISCOVERING A SECOND ERROR.
0995 635 :
0995 636 : CALLING SEQUENCE:
0995 637 :
0995 638 : BSBW VFY_CLEANUP
0995 639 :
0995 640 : INPUT PARAMETERS:
0995 641 :
0995 642 : NONE
0995 643 :
0995 644 : IMPLICIT INPUTS:
0995 645 :
0995 646 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0995 647 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0995 648 : FOR X = 1,2,3,4,5 :
0995 649 : CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
0995 650 : TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
0995 651 : ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
0995 652 : FOR CONDX_E.
0995 653 :
0995 654 : OUTPUT PARAMETERS:
0995 655 :
0995 656 : NONE
0995 657 :
0995 658 : IMPLICIT OUTPUTS:
0995 659 :
0995 660 : NONE
0995 661 :
0995 662 : COMPLETION CODES:
0995 663 :
0995 664 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0995 665 :
```

```

0995 667 : SIDE EFFECTS:
0995 668 :
0995 669 : SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
0995 670 : (VIA RSB) IF ERROR ENCOUNTERED.
0995 671 :
0995 672 :--
0995 673 :
0995 674 :
0995 675 :
0995 676 VFY_CLEANUP::
0995 677     $CANWAK_S SUBJPID           ; CANCEL ANY POSSIBLE OUTSTANDING WAKES
09A4 678     $CANTIM_S             ; CANCEL WATCHDOG TIMER
D1 09AD 679     CMPL -CREPID, SUBJPID ; WAS A PROCESS CREATED FOR THIS TEST CASE ?
12 09B8 680     BNEQU VFY_CLEANUPX ; NO -- JUST EXIT
09BA 681     $DELPRC_S SUBJPID     ; YES -- DELETE IT
05 09C9 682 VFY_CLEANUPX:
09C9 683     RSB                   ; RETURN TO CALLER

```

0000011C'EF 00000118'EF
OF

```

09CA 685      .SBTTL WATCH_AST
09CA 686      :
09CA 687      : WATCH_AST SHOULD BE ENTERED ONLY WHEN THE CREATING OR CREATED
09CA 688      : PROCESS IS HIBERNATING. IT IS SCHEDULED WITH A 10-SECOND TIMER,
09CA 689      : WHICH IS CANCELED BEFORE DELIVERY IN ALL CASES EXCEPT WHEN THE
09CA 690      : SUBJECT PROCESS GOES INTO AN UNSATISFIED HIBERNATION. WHEN
09CA 691      : WATCH_AST IS ENTERED, IT SETS A FLAG INDICATING IT WAS ENTERED
09CA 692      : (LONG_WAIT) TO NON-ZERO, AND ISSUES A SWAKE FOR THE SUBJECT
09CA 693      : PROCESS; THIS SHOULD CLEAR THE HIBERNATION. BACK IN THE MAIN
09CA 694      : ROUTINE, A CHECK IS MADE TO SEE IF THE WATCH_AST WAS ENTERED
09CA 695      : AND WHETHER OR NOT SUCH ENTRY WAS EXPECTED. AN UNEXPECTED ENTRY
09CA 696      : TO WATCH_AST CAUSES AN ERR_EXIT.
09CA 697      :

```

00000130'E

00000000'EF

0000
00
04

```

09CA 698 WATCH_AST:
09CA 699      .WORD 0 ; ENTRY MASK
09CC 700      MOVB ONES, LONG_WAIT ; INDICATE THAT THE AST WAS ENTERED
09D7 701      SWAKE_S SUBJPID ; WAKE THE (PRESUMABLY) HIBERNATING PROCESS
09E6 702      RET ; ... AND GET OUT
09E7 703      .END

```

\$\$\$\$	= 00000952	R	04	CTL\$GL_PHD	*****	X	04
\$\$\$CHARS	= 00000027			DELTA_TOSEC	000000A8	R	02
\$\$\$CHARS1	= 00000014			DELTA_1SEC	00000090	R	02
\$\$\$CHARS2	= 00000014			DELTA_2SEC	00000098	R	02
\$\$\$CHARS3	= 00000014			DELTA_3SEC	000000A0	R	02
\$\$\$CHARS4	= 0000000C			DELTA_QSEC	000000B0	R	02
\$\$\$CHARS5	= 00000000			DESC	= 00000010	G	
\$\$\$COND A	= 00000003			DEST_PIDADR	0000010C	R	03
\$\$\$STRINGS	= 00000001			DIB\$R_LENGTH	= 00000074		
\$\$\$STRINGS2	= 00000005			DIB\$W_UNIT	= 0000000C		
\$T1	= 00000001			EFLAG	*****	X	04
\$T2	= 00000004			EXPV	*****	X	04
ABS_3SEC	00000120	R	03	FAO_DESC	*****	X	04
ABS_PAST	00000128	R	03	FAO_LEN	*****	X	04
BYTE	= 00000001	G		FORM_CONDS	00000294	RG	04
CFLAG	*****	X	04	FORM_CONDSX	0000037D	R	04
CHMRTN	*****	X	04	IMAGNAM	00000065	R	02
CHM_CONT	*****	X	04	IOS_READVBLK	*****	X	04
CLUSTER	00000084	R	02	LONG	= 00000004	G	
COMP_SC	*****	X	04	LONG_WAIT	00000130	R	03
COND1	00000245	RG	04	MBXBOFF	0000008C	R	03
COND1_C	= 00000000			MBXCHAN	00000008	R	03
COND1_CLEANUP	00000246	RG	04	MBXCHANINFO	0000000C	R	03
COND1_E	0000017C	R	03	MBXUNIT	00000088	R	03
COND1_H	0000013D	RG	03	MOD_MSG_CODE	*****	X	04
COND1_T	00000131	R	03	MOD_MSG_PRINT	*****	X	04
COND1_TAB	0000013E	R	03	MSGT_INP_CTL	00000019	R	02
COND2	00000247	PG	04	MSG3_ERR_CTL	00000039	RG	02
COND2_C	= 00000000			MSG_A	*****	X	04
COND2_CLEANUP	00000248	RG	04	MSG_B	*****	X	04
COND2_E	000001BE	R	03	MSG_CTXT	*****	X	04
COND2_H	0000019D	RG	03	NOTARG	= 00000000	G	
COND2_T	00000188	R	03	NULL	= 00000014	G	
COND2_TAB	0000019E	R	03	ONES	*****	X	03
COND3	00000249	RG	04	ONE_SEC	= 00989680		
COND3X	0000028E	R	04	OUTPUT_MSG	*****	X	04
COND3_C	= 00000000			PCBSL_OIC	= 000000BC		
COND3_CLEANUP	0000028F	RG	04	PCV	*****	X	04
COND3_E	0000025B	R	03	PHD\$Q_PRIVMSK	= 00000000		
COND3_H	000001D3	RG	03	POS_3SEC	000000B8	R	02
COND3_T	000001C6	R	03	PRIVMASK	00000000	R	03
COND3_TAB	000001D4	R	03	PRIV_ARGS	= 00000002		
COND4	00000290	RG	04	PROCESS_ERR	*****	X	04
COND4_C	= 00000000			QUAD	= 00000008	G	
COND4_CLEANUP	00000291	RG	04	RCV	*****	X	04
COND4_E	000002EB	R	03	REST_REGS	*****	X	04
COND4_H	0000028E	RG	03	SAVE_REGS	*****	X	04
COND4_T	0000026F	R	03	SCH\$GL_CURPCB	*****	X	04
COND4_TAB	0000028F	R	03	SELPID	00000114	R	03
COND5	00000292	RG	04	SS\$NORMAL	*****	X	04
COND5_C	= 00000014			SS\$WASCLR	* *****	X	04
COND5_CLEANUP	00000293	RG	04	SUBJPID	0000011C	R	03
COND5_H	0000030B	RG	03	SUBJPRN	00000051	R	02
COND5_T	0000030B	R	03	SUCCESS	*****	X	04
COND5_TAB	0000030B	R	03	SYSSASCEFC	*****	GX	04
CONFLICT	*****	X	04	SYSSBINTIM	*****	GX	04
CREPID	00000118	R	03	SYSSCANTIM	*****	GX	04

```

SYSSCANWAK      ***** GX 04
SYSSCLREF       ***** GX 04
SYSSCMKRNL      ***** GX 04
SYSSCREMBX      ***** GX 04
SYSSCREPRC      ***** GX 04
SYSSDACEFC      ***** GX 04
SYSSDELMBX      ***** GX 04
SYSSDELPRC      ***** GX 04
SYSSFAO         ***** X  04
SYSSGETCHN      ***** GX 04
SYSSGETTIM      ***** GX 04
SYSSHIBER       ***** GX 04
SYSSQIOW        ***** GX 04
SYSSSCHDWK      ***** GX 04
SYSSSETEF       ***** GX 04
SYSSSETIMR      ***** GX 04
SYSSSETPRN      ***** GX 04
SYSSSETPRV      ***** GX 04
SYSSWAITFR      ***** GX 04
SYSSWAKE        ***** GX 04
TESTNUM         ***** X  C4
TEST_MOD_NAME   00000000 RG 02
TEST_MOD_NAME_D 00000009 R  02
TEST_MOD_SUCC   ***** X  04
TIME_PAST       000000C0 R  02
TMD_ADDR        ***** X  04
TM_CLEANUP      0. 00233 RG 04
TM_SETUP        00000000 RG 04
VERIFY          0000037E RG 04
VERIFYX         00000994 R  04
VFY_CLEANUP     00000995 RG 04
VFY_CLEANUPX    000009C9 R  04
WATCH_AST       000009CA R  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	000000E0 (224.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	0000030C (780.)	03 (3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
SATSSS61	000009E7 (2535.)	04 (4.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.08	00:00:00.36
Command processing	113	00:00:00.63	00:00:02.52

Pass 1	329	00:00:10.90	00:00:18.26
Symbol table sort	0	00:00:00.88	00:00:00.96
Pass 2	160	00:00:02.72	00:00:42.82
Symbol table output	18	00:00:00.12	00:00:00.14
Psect synopsis output	2	00:00:00.02	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	653	00:00:15.35	00:01:05.09

The working set limit was 1500 pages.
 58672 bytes (115 pages) of virtual memory were used to buffer the intermediate code.
 There were 30 pages of symbol table space allocated to hold 512 non-local and 76 local symbols.
 703 source lines were read in Pass 1, producing 29 object records in Pass 2.
 56 pages of virtual memory were used to define 46 macros.

 ! Macro library statistics !

Macro library name	Macros defined
-\$255\$DUA28:[SHRLIB]UETP.MLB;1	8
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	2
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	33
TOTALS (all libraries)	43

943 GETS were required to define 43 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS61/OBJ=OBJ\$:SATSSS61 MSRC\$:SATSSS61/UPDATE=(ENH\$:SATSSS61)+EXECMLS/LIB+SHRLIB\$:UETP/LIB

0424 AH-BT13A-SE
VAX/VMS V4.0

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The image displays a grid of 144 small, faint images, likely representing individual data points or test results, arranged in a 12x12 pattern. The images are too small to read clearly, but some larger, more legible text is visible within the grid. These labels include:

- SATSS553 LIS
- SATSS554 LIS
- SATSS555 LIS
- SATSS556 LIS
- SATSS560 LIS
- SATSS561 LIS
- SATSS570 LIS
- SATSS571 LIS
- SATSS572 LIS
- SATSS573 LIS