


```

SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  SSSSSSSS  77777777  333333
SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  SSSSSSSS  77777777  333333
SS          AA      AA      TT          TT          TT          77          33          33
SS          AA      AA      TT          TT          TT          77          33          33
SS          AA      AA      TT          TT          TT          77          33          33
SS          AA      AA      TT          TT          TT          77          33          33
SSSSSSS    AA      AA      TT          TT          TT          77          33          33
SSSSSSS    AA      AA      TT          TT          TT          77          33          33
          SS  AAAAAAAAAA  TT          TT          TT          77          33          33
          SS  AAAAAAAAAA  TT          TT          TT          77          33          33
          SS  AA      AA      TT          TT          TT          77          33          33
          SS  AA      AA      TT          TT          TT          77          33          33
SSSSSSSS    AA      AA      TT          TT          TT          77          33          33
SSSSSSSS    AA      AA      TT          TT          TT          77          33          33
          .....
```

```

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
LLLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLLL IIIIII  SSSSSSSS
```

(1)	54	DECLARATIONS
(1)	92	CONDITION TABLES
(1)	135	TM SETUP, TM CLEANUP
(1)	198	CONDITION SUBROUTINES - SETUP AND CLEANUP
(1)	268	FORM CONDS
(1)	361	VERIFY
(1)	527	VFY_CLEANUP

```

0000 1      .TITLE  SATSSS73 SATS SYSTEM SERVICE TESTS $DELTV (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 SATSSS73 TO TEST SUCCESSFUL
0000 36 : OPERATION OF THE $DELTV 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 PRIVILFGE,
0000 44 :                DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.
0000 45
0000 46 : AUTHOR: THOMAS L. CAFARELLA,          CREATION DATE: JUN, 1977
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 $PSLDEF ; PROCESSOR STATUS LONGWORD DEFINITIONS
0000 61 :
0000 62 : MACROS:
0000 63 :
0000 64 :
0000 65 : EQUATED SYMBOLS:
0000 66 :
0000 67 :
0000 68 : OWN STORAGE:
0000 69 :
```

SATSSS73
V04-000

SATS SYSTEM SERVICE TESTS \$DELTV^{K 16} (SUCC 16-SEP-1984 01:02:24 VAX/VMS Macro V04-00 P e 3
DECLARATIONS 5-SEP-1984 04:33:17 [UETPSY.SRC]SATSSS73.MAR;1 (1)

```
00000000 71 .PSECT RODATA, RD, NOWRT, NOEXE, LONG
0000 72 TEST_MOD_NAME:: STRING C, <SATSSS73> ; TEST MODULE NAME
0009 73 TEST_MOD_NAME_D: STRING I, <SATSSS73> ; TEST MODULE NAME DESCRIPTOR
0019 74 MSG1_INP_CTL: STRING I, < SSDVA!4ZW: CONDITIONS:>
0039 75 ; FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
0039 76 MSG3_ERR_CTL:: STRING I, < *SSDVA!4ZW: !AS>
0051 77 ; FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR
0000200 0051 78 PAGESIZE: .LONG 512 ; PAGE SIZE IN BYTES
```

			.PSECT	RWDATA, RD, WRT, NOEXE, LONG	
00000000	80				
00000008	0000	81	PRIVMASK:	.BLKQ 1	: ADDR OF PRIVILEGE MASK (IN PHD)
0000000C	0008	82	PAGCNT_ERG:	.BLKL 1	: PAGCNT ARGUMENT FOR EXPREG
00000014	000C	83	RETADR_ERG:	.BLKQ 1	: RETADR ARGUMENT FOR EXPREG
0000001C	0014	84	INADR_CVA:	.BLKQ 1	: INADR ARGUMENT FOR PRELIM CRETVA
00000024	001C	85	INADR:	.BLKQ 1	: INADR ARGUMENT FOR SUBJECT DELTVA
0000002C	0024	86	RETADR:	.BLKQ 1	: RETADR ARGUMENT FOR SUBJECT DELTVA
00000030	002C	87	STARTADDR:	.BLKL 1	: STARTING ADDR OF DELETED AREA
00000034	0030	88	ENDADDR:	.BLKL 1	: ENDING ADDR OF DELETED AREA
00000038	0034	89	DISPL:	.BLKL 1	: NO. OF PAGES (DISPLACEMENT) TO DELETE
00000039	0038	90	NZERR:	.BLKB 1	: NON-ZERO ERROR FLAG: 0 MEANS NO N-Z ERROR

```

          0039 92
          0039 93 :
          0039 94 :
          0039 95 :
          0039 96
          0039 97
          0039 98
          0039 99
          0039 100
          00BC 101
          00BC 102
          00BC 103
          00BC 104
          012F 105
          012F 106
          012F 107
          012F 108
          012F 109
          012F 110
00000000 015E 111
00000001 0162 112
00000002 0166 113
00000003 016A 114
          016E 115 :
          016E 116
          016E 117
          016E 118
          016E 119
          016E 120
          016E 121
00000003 00000002 00000001 00000000 01F7 122
          0207 123 :
          0207 124
          0207 125
          0207 126
          0207 127
          0207 128
00000001 0240 129
00000005 0244 130
00000019 0248 131
          024C 132 :
          00000000 133

```

```

.SBTTL CONDITION TABLES
***** CONDITION TABLES FOR DELTVA SYSTEM SERVICE *****
COND 1,NOTARG,<PREVIOUS CONDITION OF DELETED PAGES>,-
      <PREVIOUSLY CREATED BY CRETVA>,-
      <PREVIOUSLY CREATED BY EXPREG>,-
      <PREVIOUSLY NON-EXISTENT>,-
COND 2,NOTARG,<ORDERING OF INADR PAIR>,-
      <1ST ADDR LESS THAN OR EQUAL TO 2ND ADDR>,-
      <1ST ADDR GREATER THAN OR EQUAL TO 2ND ADDR>,-
COND 3,LONG,<ACMODE>,-
      <KERNEL>,-
      <EXEC>,-
      <SUPER>,-
      <USER>,-
      .LONG PSL$C_KERNEL
      .LONG PSL$C_EXEC
      .LONG PSL$C_SUPER
      .LONG PSL$C_USER
COND 4,NOTARG,<LOCATION OF DELETED PAGES>,-
      <END OF PROGRAM REGION>,-
      <END OF CONTROL REGION>,-
      <MIDDLE OF PROGRAM REGION>,-
      <MIDDLE OF CONTROL REGION>,-
      .LONG 0,1,2,3
COND 5,NOTARG,<PAGE COUNT>,-
      <ONE PAGE>,-
      <SMALL COUNT>,-
      <LARGE COUNT>,-
      .LONG 1
      .LONG 5
      .LONG 25
.PSECT SATSSS73,RD,WRT,EXE

```



```

0000 135      .SBTTL  TM_SETUP, TM_CLEANUP
0000 136      :++
0000 137      : FUNCTIONAL DESCRIPTION:
0000 138      :
0000 139      :           TM SETUP AND TM CLEANUP ARE CALLED TO PERFORM
0000 140      : REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF
0000 141      : TEST MODULE EXECUTION.
0000 142      :
0000 143      : CALLING SEQUENCE:
0000 144      :
0000 145      :           BSBW TM_SETUP  BSBW TM_CLEANUP
0000 146      :
0000 147      : INPUT PARAMETERS:
0000 148      :
0000 149      :           NONE
0000 150      :
0000 151      : IMPLICIT INPUTS:
0000 152      :
0000 153      :           NONE
0000 154      :
0000 155      : OUTPUT PARAMETERS:
0000 156      :
0000 157      :           NONE
0000 158      :
0000 159      : IMPLICIT OUTPUTS:
0000 160      :
0000 161      :           TM_SETUP:  COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED;
0000 162      :                   ALL PRIVILEGES ACQUIRED.
0000 163      :
0000 164      : COMPLETION CODES:
0000 165      :
0000 166      :           EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0000 167      :
0000 168      : SIDE EFFECTS:
0000 169      :
0000 170      :           SS CHECK AND ERR EXIT MACROS CAUSE PREMATURE EXIT
0000 171      : (VIA RSB) IF ERROR ENCOUNTERED.
0000 172      :
0000 173      :--
0000 174      :
0000 175      :
0000 176      :
0000 177      TM_SETUP::
0000 178      CLRL  R2           ; INITIALIZE
0000 179      CLRL  R3           ; .. CONDITION
0000 180      CLRL  R4           ; .... TABLE
0000 181      CLRL  R5           ; ..... INDEX
0000 182      CLRL  R6           ; ..... REGISTERS
0000 183      BSBW  MOD MSG PRINT ; PRINT TEST MODULE BEGIN MSG
0000 184      MOVAL TEST MOD_SUCC,TMD_ADDR ; ASSUME END MSG WILL SHOW SUCCESS
0000 185      INSV  #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
0000 186      MODE  TO,5$,KRNL   ; KERNEL MODE TO ACCESS PHD
0000 187      MOVL  @#CTL$GL PHD,R9 ; GET PROCESS HEADER ADDRESS
0000 188      MOVAL PHD$Q PRIVMSK(R9),PRIVMSK ; GET PRIV MASK ADDRESS
0000 189      MODE  FROM,5$ ; BACK TO USER MODE
0000 190      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 189
0057 190

```

SATSSS73
V04-000

	0077	191	\$SETPRN S TEST MOD_NAME_D	:	SET PROCESS NAME
	0084	192	SS CHECK NORMAL	:	CHECK STATUS CODE RETURNED FROM SETPRN
05	00B2	193	RSB	:	RETURN TO MAIN ROUTINE
	00B3	194	TM_CLEANUP::		
FF4A'	30	00B3	BSBW MOD_MSG_PRINT	:	PRINT TEST MODULE END MSG
	05	00B6	RSB	:	RETURN TO MAIN ROUTINE

```

00B7 198 .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
00B7 199 :++
00B7 200 : FUNCTIONAL DESCRIPTION:
00B7 201 :
00B7 202 : COND X AND COND X CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED
00B7 203 : BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW
00B7 204 : CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON
00B7 205 : ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE
00B7 206 : CONDITION X TABLE IS INCLUDED IN THE COND X SUBROUTINE AND CLEANED
00B7 207 : UP, IF NECESSARY, IN THE COND X CLEANUP SUBROUTINE. THIS INCLUDES,
00B7 208 : ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO
00B7 209 : OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO
00B7 210 : VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE
00B7 211 : (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
00B7 212 :
00B7 213 : CALLING SEQUENCE:
00B7 214 :
00B7 215 : BSBW COND X BSBW COND X_CLEANUP
00B7 216 : WHERE X = 1,2,3,4,5
00B7 217 :
00B7 218 : INPUT PARAMETERS:
00B7 219 :
00B7 220 : CONFLICT = 0
00B7 221 :
00B7 222 : IMPLICIT INPUTS:
00B7 223 :
00B7 224 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
00B7 225 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
00B7 226 :
00B7 227 : OUTPUT PARAMETERS:
00B7 228 :
00B7 229 : CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.
00B7 230 :
00B7 231 : IMPLICIT OUTPUTS:
00B7 232 :
00B7 233 : R2,3,4,5,6 PRESERVED
00B7 234 :
00B7 235 : COMPLETION CODES:
00B7 236 :
00B7 237 : NONE
00B7 238 :
00B7 239 : SIDE EFFECTS:
00B7 240 :
00B7 241 : NONE
00B7 242 :
00B7 243 : --
00B7 244 :
00B7 245 :
00B7 246 :
00B7 247 COND1::
05 00B7 248 RSB ; RETURN TO MAIN ROUTINE
00B8 249 COND1_CLEANUP::
05 00B8 250 RSB ; RETURN TO MAIN ROUTINE
00B9 251 COND2::
05 00B9 252 RSB ; RETURN TO MAIN ROUTINE
00BA 253 COND2_CLEANUP::
05 00BA 254 RSB ; RETURN TO MAIN ROUTINE

```

```
05 00BB 255 COND3::
05 00BB 256 RSB ; RETURN TO MAIN ROUTINE
05 00BC 257 COND3_CLEANUP::
05 00BC 258 RSB ; RETURN TO MAIN ROUTINE
05 00BD 259 COND4::
05 00BD 260 RSB ; RETURN TO MAIN ROUTINE
05 00BE 261 COND4_CLEANUP::
05 00BE 262 RSB ; RETURN TO MAIN ROUTINE
05 00BF 263 COND5::
05 00BF 264 RSB ; RETURN TO MAIN ROUTINE
05 00C0 265 COND5_CLEANUP::
05 00C0 266 RSB ; RETURN TO MAIN ROUTINE
```

```

00C1 268 .SBTTL FORM_CONDS
00C1 269 :++
00C1 270 : FUNCTIONAL DESCRIPTION:
00C1 271 :
00C1 272 : FORM CONDS FORMATS AND PRINTS INFORMATION ABOUT
00C1 273 : THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
00C1 274 :
00C1 275 : CALLING SEQUENCE:
00C1 276 :
00C1 277 : BSBW FORM_CONDS
00C1 278 :
00C1 279 : INPUT PARAMETERS:
00C1 280 :
00C1 281 : NONE
00C1 282 :
00C1 283 : IMPLICIT INPUTS:
00C1 284 :
00C1 285 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
00C1 286 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
00C1 287 : FOR X = 1,2,3,4,5 :
00C1 288 : CONDX_T - TITLE TEXT FOR CONDX TABLE
00C1 289 : CONDX_TAB - ELEMENT TEXT FOR CONDX TABLE
00C1 290 : CONDX_C - CONTEXT OF THE CONDX TABLE
00C1 291 : CONDX_E - DATA ELEMENTS OF THE CONDX TABLE
00C1 292 :
00C1 293 : OUTPUT PARAMETERS:
00C1 294 :
00C1 295 : NONE
00C1 296 :
00C1 297 : IMPLICIT OUTPUTS:
00C1 298 :
00C1 299 : NONE
00C1 300 :
00C1 301 : COMPLETION CODES:
00C1 302 :
00C1 303 : NONE
00C1 304 :
00C1 305 : SIDE EFFECTS:
00C1 306 :
00C1 307 : NONE
00C1 308 :
00C1 309 : --
00C1 310 :
00C1 311 :
00C1 312 :
00C1 313 FORM_CONDS::
00C1 314 $FAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
00E0 315 : FORMAT CONDITIONS HEADER MSG
14 FF1D' 30 00E0 316 BSBW OUTPUT_MSG : ... AND PRINT IT
00 91 00E3 317 CMPB #COND1_C,#NULL : IS CONDITION 1 NULL ?
03 12 00E6 318 BNEQU 10$ : NO -- CONTINUE
00CB 31 00E8 319 BRW FORM_CONDSX : YES -- SUBROUTINE IS FINISHED
00EB 320 10$:
00E8 321 MOVAL COND1_T,MSG_A : SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO
00000000'EF 00000039'EF DE 00E8 321
00000000'EF 0000005E'EF42 60 00F6 322 MOVL COND1_TAB[R2],MSG_B : SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAO
00000000'EF 00 90 0102 323 MOVB #COND1_C,MSG_CTXT : SAVE CONDITION 1 CONTEXT FOR FAO
0109 324 MOV_VAL COND1_C,COND1_E[R2],MSG_DATA1 ; GIVE COND 1 DATA VALUE TO FAO

```

```

      FEF4' 30 0109 325      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 1 MSG
14  00 91 010C 326      CMPB  #COND2_C,#NULL      ; IS CONDITION 2 NULL ?
      03 12 010F 327      BNEQU 20$      ; NO -- CONTINUE
      00A2 31 0111 328      BRW  FORM_CONDSX      ; YES -- SUBROUTINE IS FINISHED
      0114 329 20$:
00000000'EF 000000BC'EF DE 0114 330      MOVAL  COND2_T,MSG_A      ; SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO
00000000'EF 000000D4'EF43 D0 011F 331      MOVL  COND2_TAB[R3],MSG_B      ; SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO
      00000000'EF 00 70 012B 332      MOVB  #COND2_C,MSG_CTXT      ; SAVE CONDITION 2 CONTEXT FOR FAO
      0132 333      MOV_VAL COND2_C,COND2_E[R3],MSG_DATA1 ; GIVE COND 2 DATA VALUE TO FAO
      FECB' 30 0132 334      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 2 MSG
14  04 91 0135 335      CMPB  #COND3_C,#NULL      ; IS CONDITION 3 NULL ?
      03 12 0138 336      BNEQU 30$      ; NO -- CONTINUE
      0079 31 013A 337      BRW  FORM_CONDSX      ; YES -- SUBROUTINE IS FINISHED
      013D 338 30$:
00000000'EF 0000012F'EF DE 013D 339      MOVAL  COND3_T,MSG_A      ; SAVE ADDRESS OF CONDITION 3 TITLE FOR FAO
00000000'EF 00000137'EF44 D0 0148 340      MOVL  COND3_TAB[R4],MSG_B      ; SAVE ADDR OF COND 3 CURR TEXT ELT FOR FAO
      00000000'EF 04 90 0154 341      MOVB  #COND3_C,MSG_CTXT      ; SAVE CONDITION 3 CONTEXT FOR FAO
      015B 342      MOV_VAL COND3_C,COND3_E[R4],MSG_DATA1 ; GIVE COND 3 DATA VALUE TO FAO
      FE96' 30 0167 343      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 3 MSG
14  00 91 016A 344      CMPB  #COND4_C,#NULL      ; IS CONDITION 4 NULL ?
      47 13 016D 345      BEQLU FORM_CONDSX      ; YES -- SUBROUTINE IS FINISHED
      00000000'EF 0000016E'EF DE 016F 346      MOVAL  COND4_T,MSG_A      ; SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO
00000000'EF 00000189'EF45 D0 017A 347      MOVL  COND4_TAB[R5],MSG_B      ; SAVE ADDR OF COND 4 CURR TEXT ELT FOR FAO
      00000000'EF 00 90 0186 348      MOVB  #COND4_C,MSG_CTXT      ; SAVE CONDITION 4 CONTEXT FOR FAO
      018D 349      MOV_VAL COND4_C,COND4_E[R5],MSG_DATA1 ; GIVE COND 4 DATA VALUE TO FAO
      FE70' 30 018D 350      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 4 MSG
14  00 91 0190 351      CMPB  #COND5_C,#NULL      ; IS CONDITION 5 NULL ?
      21 13 0193 352      BEQLU FORM_CONDSX      ; YES -- SUBROUTINE IS FINISHED
      00000000'EF 00000207'EF DE 0195 353      MOVAL  COND5_T,MSG_A      ; SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
00000000'E: 00000213'EF46 D0 01A0 354      MOVL  COND5_TAB[R6],MSG_B      ; SAVE ADDR OF COND 5 CURR TEXT ELT FOR FAO
      00000000'EF 00 90 01AC 355      MOVB  #COND5_C,MSG_CTXT      ; SAVE CONDITION 5 CONTEXT FOR FAO
      01B3 356      MOV_VAL COND5_C,COND5_E[R6] MSG_DATA1 ; GIVE COND 5 DATA VALUE TO FAO
      FE4A' 30 01B3 357      BSBW  WRITE_MSG2      ; FORMAT AND WRITE CONDITION 5 MSG
      01B6 358 FORM_CONDSX:
05 01B6 359      RSB      ; RETURN TO CALLER
```

```
01B7 361 .SBTTL VERIFY
01B7 362 :++
01B7 363 : FUNCTIONAL DESCRIPTION:
01B7 364 :
01B7 365 : VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION
01B7 366 : TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR
01B7 367 : COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS
01B7 368 : SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE
01B7 369 : ($DELTV). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED
01B7 370 : BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS
01B7 371 : AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF
01B7 372 : COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN
01B7 373 : ERR_EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY,
01B7 374 : THROUGH THE SS_CHECK MACRO); ERR_EXIT SETS EFLAG TO NON-ZERO,
01B7 375 : PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER.
01B7 376 : WHEN ERR_EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED,
01B7 377 : AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.
01B7 378 :
01B7 379 : CALLING SEQUENCE:
01B7 380 :
01B7 381 : BSBW VERIFY
01B7 382 :
01B7 383 : INPUT PARAMETERS:
01B7 384 :
01B7 385 : NONE
01B7 386 :
01B7 387 : IMPLICIT INPUTS:
01B7 388 :
01B7 389 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
01B7 390 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
01B7 391 : FOR X = 1,2,3,4,5 :
01B7 392 : CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
01B7 393 : TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
01B7 394 : ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
01B7 395 : FOR CONDX_E.
01B7 396 :
01B7 397 : OUTPUT PARAMETERS:
01B7 398 :
01B7 399 : NONE
01B7 400 :
01B7 401 : IMPLICIT OUTPUTS:
01B7 402 :
01B7 403 : VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS,
01B7 404 : IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING
01B7 405 : ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA
01B7 406 : AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED
01B7 407 : ERRORS.
01B7 408 :
01B7 409 : COMPLETION CODES:
01B7 410 :
01B7 411 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
01B7 412 :
01B7 413 : SIDE EFFECTS:
01B7 414 :
01B7 415 : SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
01B7 416 : (VIA RSB) IF ERROR ENCOUNTERED.
01B7 417 :
```

```
01B7 418 :--
01B7 419
01B7 420
01B7 421
01B7 422 VERIFY::
00000000'EF 95 01B7 423 TSTB CFLAG ; SHOULD CONDITIONS BE PRINTED ?
03 13 01BD 424 BEQL 5$ ; NO -- CONTINUE
FEFF 30 01BF 425 BSBW FORM_CONDS ; YES -- FMT & PRINT ALL CONDS FOR THIS T.C.
01C2 426 5$:
0000002C'EF D4 01C2 427 CLRL STARTADDR ; CLEAR STARTING ADDR OF AREA TO BE DELETED
0000008'EF 00000240'EF46 D0 01C8 428 MOVL COND5_E[R6],PAGCNT_ERG ; GET PAGE COUNT
00000034'EF 00000008'EF D0 01D4 429 MOVL PAGCNT_ERG,DISPL ; ... AND REMEMBER IT FOR LATER
01 000001F7'EF45 D1 01DF 430 CML COND4_E[R5],#1 ; ARE PAGES IN MIDDLE OF A REGION ?
07 15 01E7 431 BLEQ 10$ ; NO -- PAGCNT_ERG IS OK
00000008'EF 05 C0 01E9 432 ADDL2 #5,PAGCNT_ERG ; YES -- ADD SOME PAGES
01F0 433 10$:
01F0 434 MODE TO,20$,KRNL ; GO TO KERNEL MODE TO ISSUE SERVICE
0213 435 $EXPREG_S PAGCNT_ERG,RETADR_ERG, ; -
0213 436 ACMODE[R4],COND4_E[R5] ; ISSUE PRELIM S.S. TO GET SOME PAGES
0234 437 MODE FROM,20$ ; BACK TO USER MODE
0235 438 SS CHECK NORMAL ; CHECK FOR NORMAL RETURN
00000030'EF 00000010'EF D0 0263 439 MOVL RETADR_ERG+4,ENDADDR ; GET ENDING ADDR OF AREA TO BE DELETED
0000002C'EF 0000000C'EF D0 026E 440 MOVL RETADR_ERG,STARTADDR ; GET TENTATIVE START ADDR OF AREA
00000034'EF 00000008'EF D1 0279 441 CML PAGCNT_ERG,DISPL ; WERE 5 PAGES ADDED TO DISPLACEMENT ?
1C 13 0284 442 BEQL 45$ ; NO -- LEAVE STARTADDR ALONE
59 00000051'EF D0 0286 443 MOVL PAGESIZE,R9 ; YES -- STARTADDR TO BE MODIFIED
03 0000C1F7'EF45 E9 028D 444 BLBC COND4_E[R5],40$ ; IF PROGRAM REGION, LEAVE R9 ALONE
59 59 CE 0295 445 MNEGL R9,R9 ; PROGRAM REGION -- NEGATE R9
0298 446 40$:
0000002C'EF 59 05 C4 0298 447 MULL2 #5,R9 ; GET LENGTH OF 5 PAGES
59 CC 029B 448 ADDL2 R9,STARTADDR ; COMPUTE START ADDR OF AREA TO BE DELETED
02A2 449 45$:
00000030'FF 00000000'EF 90 02C5 451 MODE TO,50$,KRNL ; INTO KERNEL TO DO A STORE
02D0 452 MOVB ONES,@ENDADDR ; INDICATE WE WERE HERE
01 52 91 02D1 453 MODE FROM,50$ ; ... AND GET BACK TO USER
03 12 02D4 454 CMPB R2,#1 ; 2ND CONDITION 1 ELEMENT ?
015F 31 02D6 455 BNEQU 73$ ; NO -- CONTINUE
02D9 456 73$: BRW 71$ ; YES -- LEAVE EXPANDED REGION AS IS
02 52 91 02D9 457 CMPB R2,#2 ; 3RD CONDITION 1 ELEMENT ?
03 12 02DC 458 BNEQU 74$ ; NO -- CONTINUE
00E8 31 02DE 459 BRW 60$ ; YES -- GO CONTRACT REGION
02E1 460 74$:
00000014'EF 0000002C'EF D0 02E1 461 MOVL STARTADDR,INADR_CVA ; MUST BE 1ST COND 1 ELEMENT
00000018'EF 00000030'EF D0 02EC 462 MOVL ENDADDR,INADR_CVA+4 ; ... GET READY FOR DELTVA
02F7 463 MODE TO,69$,KRNL ; NEED KERNEL MODE
031A 464 $DELTV_S INADR=INADR_CVA, - ; -
031A 465 A' )DE=ACMODE[R4] ; DELETE EXPANDED AREA
0330 466 MODE FROM,69$ ; BACK TO USER MODE
0331 467 SS CHECK NORMAL ; DID IT GO OK ?
035F 468 MODE TO,70$,KRNL ; INTO KERNEL FOR A PRELIM CRETVA
0382 469 $CRETV_S INADR=INADR_CVA, ACMODE=ACMODE[R4] ; -
0398 470 MODE FROM,70$ ; USER MODE
0399 471 SS CHECK NORMAL ; CHECK FOR NORMAL RETURN
6F 11 03C7 472 BRB 71$ ; ... AND GO DETERMINE ORDER OF INADR PAIR
03C9 473 60$:
03C9 474 MODE TO,68$,KRNL ; KERNEL MODE FOR CNTREG
```



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03EC 475 $CNTREG_S DISPL,,ACMODE[R4],COND4_E[R5]
0409 476 : CONTRACT REQUESTED SIZE (NOT THE EXTRA 5)
0409 477 : ... AND GET BACK TO USER MODE
040A 478 : CHECK FOR NORMAL RETURN
0438 479 71$:
0438 480 : CMPL STARTADDR,ENDADDR : FIND LARGER ADDRESS
1A 0443 481 : BGTRU 72$ : STARTADDR LARGER
5A 0000002C'EF 10 D0 0445 482 : MOVL STARTADDR,R10 : SMALLER VALUE IN R10,
5B 00000030'EF 11 D0 044C 483 : MOVL ENDADDR,R11 : ... LARGER IN R11
OE 0453 484 : BRB 75$ : CONTINUE
0455 485 72$:
5A 00000030'EF D0 0455 486 : MOVL ENDADDR,R10 : SMALLER VALUE IN R10,
5B 0000002C'EF D0 045C 487 : MOVL STARTADDR,R11 : ... LARGER IN R11
0463 488 75$:
53 95 0463 489 : TSTB R3 : 1ST CONDITION 2 ELEMENT ?
10 13 0465 490 : BEQL 77$ : YES -- LOWER ADDRESS GOES FIRST
0000001C'EF 5B D0 0467 491 : MOVL R11,INADR : NO -- HIGHER ADDRESS GOES FIRST
00000020'EF 5A D0 046E 492 : MOVL R10,INADR+4 :
OE 11 0475 493 : BRB 79$ : CONTINUE
0477 494 77$:
0000001C'EF 5A D0 0477 495 : MOVL R10,INADR : LOWER ADDRESS GOES FIRST
00000020'EF 5B D0 047E 496 : MOVL R11,INADR+4 : .....
0485 497 79$:
0485 498 : MODE TO,80$,KRNL : INTO KERNEL MODE
04A8 499 :
04A8 500 : ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
04A8 501 :
04A8 502 : $DELTA_S INADR,RETADR,ACMODE[R4]
04C2 503 : MODE FROM,80$ : BACK TO USER
00000000'8F 50 D1 04C3 504 : CMPL R0,#SS$ _NORMAL : CODE RECEIVED = CODE EXPECTED ?
61 13 04CA 505 : BEQLU 81$ : YES -- MORE VERIFYING
00000000'EF 00000000'8F D0 04CC 506 : MOVL #SS$ _NORMAL,EXPV : NO -- LOAD UP EXPECTED AND
00000000'EF 50 D0 04D7 507 : MOVL R0,RECV : ... RECEIVED VALUES, THEN EXIT
04DE 508 : ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM DELTVA>
052D 509 81$:
02 52 91 052D 510 : CMPB R2,#2 : 3RD CONDITION 1 ELEMENT ?
03 12 0530 511 : BNEQU 83$ : NO -- CONTINUE
0083 31 0532 512 : BRW VERIFYX : YES -- DON'T CHECK UNPREDICTABLE RETADR
0535 513 83$:
00000024'EF 0000001C'EF D1 0535 514 : CMPL INADR,RETADR : DID DELTVA DELETE THE 1ST PAGE ?
OF 12 0540 515 : BNEQU 85$ : NO -- ERROR
00000028'EF 00000020'EF D1 0542 516 : CMPL INADR+4,RETADR+4 : HOW ABOUT THE WHOLE RANGE ?
02 12 054D 517 : BNEQU 85$ : NO -- ERROR
67 11 054F 518 : BRB VERIFYX : CONTINUE
0551 519 85$:
00000000'EF 0000001C'EF 7D 0551 520 : MOVQ INADR,EXPV : LOAD UP EXPECTED AND
00000000'EF 00000024'EF 7D 055C 521 : MOVQ RETADR,RECV : ... RECEIVED VALUES, THEN EXIT
0567 522 : ERR_EXIT QUAD,<UNEXPECTED VALUE FROM DELTVA FOR>,-
0567 523 : < RETADR PAIR>
0588 524 VERIFYX:
05 0588 525 : RSB : RETURN TO CALLER

```

```

0589 527 .SBTTL VFY_CLEANUP
0589 528 :++
0589 529 : FUNCTIONAL DESCRIPTION:
0589 530 :
0589 531 : VFY_CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE
0589 532 : EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY_CLEANUP MUST
0589 533 : ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN
0589 534 : ERROR IS FOUND). ALSO, VFY_CLEANUP MAY ISSUE SS CHECK OR ERR_EXIT
0589 535 : ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED
0589 536 : IN THE EVENT THAT VFY_CLEANUP IS CALLED DURING ERROR PROCESSING,
0589 537 : WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN
0589 538 : POSSIBLY DISCOVERING A SECOND ERROR.
0589 539 :
0589 540 : CALLING SEQUENCE:
0589 541 :
0589 542 : BSBW VFY_CLEANUP
0589 543 :
0589 544 : INPUT PARAMETERS:
0589 545 :
0589 546 : NONE
0589 547 :
0589 548 : IMPLICIT INPUTS:
0589 549 :
0589 550 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0589 551 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0589 552 : FOR X = 1,2,3,4,5 :
0589 553 : CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
0589 554 : TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
0589 555 : ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
0589 556 : FOR CONDX_E.
0589 557 :
0589 558 : OUTPUT PARAMETERS:
0589 559 :
0589 560 : NONE
0589 561 :
0589 562 : IMPLICIT OUTPUTS:
0589 563 :
0589 564 : NONE
0589 565 :
0589 566 : COMPLETION CODES:
0589 567 :
0589 568 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0589 569 :
0589 570 : SIDE EFFECTS:
0589 571 :
0589 572 : SS CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
0589 573 : (VIA RSB) IF ERROR ENCOUNTERED.
0589 574 :
0589 575 : --
0589 576 :
0589 577 :
0589 578 :
0589 579 VFY_CLEANUP::
0589 580 TSTL STARTADDR ; DID REGION EVER GET ACQUIRED ?
0589 581 BNEQ 5$ ; YES -- CONTINUE
0589 582 BRW VFY_CLEANUPX ; NO -- JUST GET OUT NOW
0589 583 5$:

```

```

0000002C'EF D5
          03 12
          00F3 31

```

```
0000001C'EF 0000002C'EF D0 05C4 584      MOVL  STARTADDR,INADR      ; READY FOR DELTVA IN CASE SUBJ NEVER ISSUED
00000020'EF 00000030'EF D0 05CF 585      MOVL  ENDADDR,INADR+4      ;
05DA 586      MODE  TO,10$,KRNL      ; KERNEL MODE FOR DELETE
05FD 587      $DELTVÄ_S INADR=INADR, ACMODE=ACMODE[R4] ;
0613 588      ; DELETE EXPANDED AREA
0613 589      MODE  FROM,10$      ; BACK TO USER MODE
0614 590      SS CHECK NORMAL      ; CHECK FOR NORMAL RETURN
01 000001F7'EF45 D1 0642 591      CML  COND4_E[R5],#1      ; WAS AREA IN 'MIDDLE' OF A REGION ?
68 1B 064A 592      BLEQU VFY_CLEANUPX      ; NO -- TIME TO EXIT
064C 593      MODE  TO,20$,KRNL      ; YES -- KERNEL MODE TO ISSUE CNTREG
066F 594      $CNTREG_S #5,ACMODE[R4],COND4_E[R5] ; GET RID OF THE EXTRA 5 PAGES
0688 595      MODE  FROM,20$      ; BACK TO USER MODE
0689 596      SS CHECK NORMAL      ; CHECK FOR NORMAL RETURN
06B7 597      VFY_CLEANUPX:
05 06B7 598      RSB
06B8 599      .END      ; RETURN TO CALLER
```

SATSSS73
Symbol table

SSSS	= 00000571	F	04	ENDADDR	00000030	R	03
SSSCHARS	= 0000002C			EXPV	*****	X	04
SSSCHARS1	= 00000008			FAO_DESC	*****	X	04
SSSCHARS2	= 0000000B			FAO_LEN	*****	X	04
SSSCHARS3	= 0000000B			FORM_CONDS	000000C1	RG	04
SSSCHARS4	= 00000000			FORM_CONDSX	000001B6	R	04
SSSCHARS5	= 00000000			INADR	0000001C	R	03
SSSCOND A	= 00000002			INADR_CVA	00000014	R	03
SSSTRINGS	= 00000001			LONG	= 00000004	G	
SSSTRINGS2	= 00000005			MOD_MSG_CODE	*****	X	04
SST1	= 00000000			MOD_MSG_PRINT	*****	X	04
SST2	= 00000004			MSGT_INP_CTL	00000019	R	02
ACMODE	0000015E	R	03	MSG3_ERR_CTL	00000039	RG	02
BYTE	= 00000001	G		MSG_A	*****	X	04
CFLAG	*****	X	04	MSG_B	*****	X	04
CHMRTN	*****	X	04	MSG_CTXT	*****	X	04
CHM CONT	*****	X	04	MSG_DATA1	*****	X	04
COMP_SC	*****	X	04	NOTARG	= 00000000	G	
COND1	000000B7	RG	04	NULL	= 00000014	G	
COND1_C	= 0000000C			NZERR	00000038	R	03
COND1_CLEANUP	000000B8	RG	04	ONES	*****	X	04
COND1_E	000000BC	R	03	OUTPUT_MSG	*****	X	04
COND1_H	00000051	RG	03	PAGCNT_ERG	00000008	R	03
COND1_T	00000039	R	03	PAGESIZE	00000051	R	02
COND1_TAB	0000005E	R	03	PCV	*****	X	04
COND2	000000B9	RG	04	PHD\$Q PRIVMSK	= 00000000		
COND2_C	= 00000000			PRIVMSK	00000000	R	03
COND2_CLEANUP	000000BA	RG	04	PRIV_ARGS	= 00000002		
COND2_E	0000012F	R	03	PROCESS_ERR	*****	X	04
COND2_H	000000D3	RG	03	PSL\$C_EXEC	= 00000001		
COND2_T	000000BC	R	03	PSL\$C_KERNEL	= 00000000		
COND2_TAB	000000D4	R	03	PSL\$C_SUPER	= 00000002		
COND3	000000BB	RG	04	PSL\$C_USER	= 00000003		
COND3_C	= 00000004			QUAD	= 00000008	G	
COND3_CLEANUP	000000BC	RG	04	RECV	*****	X	04
COND3_E	0000015E	R	03	REST_REGS	*****	X	04
COND3_H	00000136	RG	03	RETADR	00000024	R	03
COND3_T	0000012F	R	03	RETADR_ERG	0C00000C	R	03
COND3_TAB	00000137	R	03	SAVE_REGS	*****	X	04
COND4	000000BD	RG	04	SS\$ NORMAL	*****	X	04
COND4_C	= 00000000			STARTADDR	0000002C	R	03
COND4_CLEANUP	000000BE	RG	04	SUCCESS	*****	X	04
COND4_E	000001F7	R	03	SYSSCMKRNL	*****	GX	04
COND4_H	00000188	RG	03	SYSSCNTREG	*****	GX	04
COND4_T	0000016E	R	03	SYSSCRETVA	*****	GX	04
COND4_TAB	00000189	R	03	SYSSDELTA	*****	GX	04
COND5	000000BF	RG	04	SYSSXPREG	*****	GX	04
COND5_C	= 00000000			SYSSFAO	*****	X	04
COND5_CLEANUP	000000C0	RG	04	SYSSSETPRN	*****	GX	04
COND5_E	00000240	R	03	SYSSSETPRV	*****	GX	04
COND5_H	00000212	RG	03	TESTNUM	*****	X	04
COND5_T	00000207	R	03	TEST_MOD_NAME	00000000	RG	02
COND5_TAB	00000213	R	03	TEST_MOD_NAME_D	00000009	R	02
CTL\$GC_PHD	*****	X	04	TEST_MOD_SUCC	*****	X	04
DESC	= 00000010	G		TMD_ADDR	*****	X	04
DISPL	00000034	R	03	TM_CLEANUP	000000B3	RG	04
EFLAG	*****	X	04	TM_SETUP	00000000	RG	04

SATSSS73
Symbol table

VERIFY	000001B7	RG	04
VERIFYX	000005B8	R	04
VFY_CLEANUP	000005B9	RG	04
VFY_CLEANUPX	000006B7	R	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	00000055 (85.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	0000024C (588.)	03 (3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
SATSSS73	000006B8 (1720.)	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	00:00:00.51
Command processing	119	00:00:00.67	00:00:02.35
Pass 1	269	00:00:08.13	00:00:17.34
Symbol table sort	0	00:00:00.56	00:00:01.16
Pass 2	167	00:00:02.17	00:00:05.83
Symbol table output	18	00:00:00.10	00:00:00.10
Psect synopsis output	5	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	609	00:00:11.74	00:00:27.32

The working set limit was 900 pages.
 43984 bytes (86 pages) of virtual memory were used to buffer the intermediate code.
 There were 20 pages of symbol table space allocated to hold 349 non-local and 69 local symbols.
 599 source lines were read in Pass 1, producing 26 object records in Pass 2.
 37 pages of virtual memory were used to define 28 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	15
TOTALS (all libraries)	25

671 GETS were required to define 25 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS73/OBJ=OBJ\$:SATSSS73 MSRC\$:SATSSS73/UPDATE=(ENH\$:SATSSS73)+EXECMLS/LIB+SHRLIB\$:UETP/LIB

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The image displays a grid of 15 columns and 12 rows of terminal windows. Each window contains a different type of data, including text, tables, and graphs. Several windows are highlighted with larger text labels:

- SAT5553 LIS
- SAT5554 LIS
- SAT5555 LIS
- SAT5556 LIS
- SAT5557 LIS
- SAT5558 LIS
- SAT5559 LIS
- SAT5561 LIS

0425 AH-BT13A-SE
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