

```

UUU      UUU      EEEEEEEEEEEEEEE      TTTTTTTTTTTTTTTT      PPPPPPPPPPPP      SSSSSSSSSSSSS      YYY      YYY
UUU      UUU      EEEEEEEEEEEEEEEEE      TTTTTTTTTTTTTTTT      PPPPPPPPPPPP      SSSSSSSSSSSSS      YYY      YYY
UUU      UUU      EEEEEEEEEEEEEEEEE      TTTTTTTTTTTTTTTT      PPΓPPPPPPPPP      SSSSSSSSSSSSS      YYY      YYY
UUU      UUU      EEE                      TTT          PPP          PPP      SSS          YYY      YYY
UUU      UUU      EEE                      TTT          PPP          PPP      SSS          YYY      YYY
UUU      UUU      EEE                      TTT          PPP          PPP      SSS          YYY      YYY
UUU      UUU      EEE                      TTT          PPP          PPP      SSS          YYY      YYY
UUU      UUU      EEE                      TTT          PPP          PPP      SSS          YYY      YYY
UUU      UUU      EEE                      TTT          PPP          PPP      SSS          YYY      YYY
UUU      UUU      EEE                      TTT          PPP          PPP      SSS          YYY      YYY
UUU      UUU      EEE                      TTT          PPP          PPP      SSS          YYY      YYY
UUU      UUU      EEE                      TTT          PPP          PPP      SSS          YYY      YYY
UUU      UUU      EEEEEEEEEEEEEEE      TTT          PPPPPPPPPPPPP      SSSSSSSSSSS      YYY
UUU      UUU      EEEEEEEEEEEEEEE      TTT          PPPPPPPPPPPPP      SSSSSSSSSSS      YYY
UUU      UUU      EEEEEEEEEEEEEEE      TTT          PPPPPPPPPPPPP      SSSSSSSSSSS      YYY
UUU      UUU      EEE                      TTT          PPP          SSS          YYY
UUU      UUU      EEE                      TTT          PPP          SSS          YYY
UUU      UUU      EEE                      TTT          PPP          SSS          YYY
UUU      UUU      EEE                      TTT          PPP          SSS          YYY
UUU      UUU      EEE                      TTT          PPP          SSS          YYY
UUU      UUU      EEE                      TTT          PPP          SSS          YYY
UUU      UUU      EEE                      TTT          PPP          SSS          YYY
UUU      UUU      EEE                      TTT          PPP          SSS          YYY
UUUUUUUUUUUUUUUUUU      EEEEEEEEEEEEEEEEE      TTT          PPP          SSSSSSSSSSSSS      YYY
UUUUUUUUUUUUUUUUUU      EEEEEEEEEEEEEEEEE      TTT          PPP          SSSSSSSSSSSSS      YYY
UUUUUUUUUUUUUUUUUU      EEEEEEEEEEEEEEEEE      TTT          PPP          SSSSSSSSSSSSS      YYY

```

[illegible]

SSSSSSSS	AAAAAA	TTTTTTTT	SSSSSSSS	SSSSSSSS	SSSSSSSS	77777777	999999	
SSSSSSSS	AAAAAA	TTTTTTTT	SSSSSSSS	SSSSSSSS	SSSSSSSS	77777777	999999	
SS	AA	AA	SS	SS	SS	77	99	99
SS	AA	AA	SS	SS	SS	77	99	99
SS	AA	AA	SS	SS	SS	77	99	99
SS	AA	AA	SS	SS	SS	77	99	99
SSSSSS	AA	AA	SSSSSS	SSSSSS	SSSSSS	77	99999999	
SSSSSS	AA	AA	SSSSSS	SSSSSS	SSSSSS	77	99999999	
	AAAAAAAAA	TT						99
SS	AAAAAAAAA	TT	SS		SS	77		99
SS	AA	TT	SS		SS	77		99
SS	AA	TT	SS		SS	77		99
SSSSSSSS	AA	TT	SSSSSSSS	SSSSSSSS	SSSSSSSS	77	999999	
SSSSSSSS	AA	TT	SSSSSSSS	SSSSSSSS	SSSSSSSS	77	999999	

```

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
LLLLLLLLLLLL IIIIII          SSSSSSSS
LLLLLLLLLLLL IIIIII          SSSSSSSS

```

(1)	54	DECLARATIONS
(1)	87	CONDITION TABLES
(1)	118	TM SETUP, TM CLEANUP
(1)	181	CONDITION SUBROUTINES - SETUP AND CLEANUP
(1)	258	FORM CONDS
(1)	351	VERIFY
(1)	521	VFY_CLEANUP

```
0000 1 .TITLE SATSSS79 SATS SYST SERV TESTS $LCK/ULKPAG (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 SATSSS79 TO TEST SUCCESSFUL
0000 36 OPERATION OF THE $LCK/ULKPAG SYSTEM SERVICES. EACH SERVICE IS INVOKED
0000 37 UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY
0000 38 SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT
0000 39 OPERATION OF EACH SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY
0000 40 CHECKING FOR AN SS$ NORMAL STATUS CODE, EXPECTED RETURN ARGUMENTS
0000 41 AND EXPECTED FUNCTIONALITY PERFORMED.
0000 42
0000 43 ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE,
0000 44 DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.
0000 45
0000 46 AUTHOR: THOMAS L. CAFARELLA, CREATION DATE: APR, 1978
0000 47
0000 48 MODIFIED BY:
0000 49
0000 50 : VERSION
0000 51 01 -
0000 52 --
```

SATSSS79
V04-000

SATS SYST SERV TESTS \$LCK/ULK^{D 5}PAG (SUCC 16-SEP-1984 01:03:44 VAX/VMS Macro V04-00
DECLARATIONS 5-SEP-1984 04:33:36 [UETPSY.SRC]SATSSS79.MAR;1 Page 2
(1)

```
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 :
```

SATSSS79
V04-000

SATS SYST SERV TESTS \$LCK/ULKPAG (SUCC 16-SEP-1984 01:03:44 VAX/VMS Macro V04-00 Page 3
DECLARATIONS 5-SEP-1984 04:33:36 [UETPSY.SRC]SATSSS79.MAR;1 (1)

```
00000000 71 .PSECT RODATA, RD, NOWRT, NOEXE, LONG
0000 72 TEST_MOD_NAME:: STRING C, <SATSSS79> ; TEST MODULE NAME
0009 73 TEST_MOD_NAME_D: STRING I, <SATSSS79> ; TEST MODULE NAME DESCRIPTOR
0019 74 MSG1_INP_CTL: STRING I, < SSLUP!4ZW: CONDITIONS:>
0039 75 ; FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
0039 76 MSG3_ERR_CTL:: STRING I, < *SSLUP!4ZW: !AS>
0051 77 ; FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR
```

SATSSS79
V04-000

SATS SYST SERV TESTS \$LCK/ULKPG (SUCC 16-SEP-1984 01:03:44 VAX/VMS Macro V04-00 Page 4
DECLARATIONS 5-SEP-1984 04:33:36 [UETPSY.SRC]SATSSS79.MAR;1 (1)

00000000	79	.PSECT	RWDATA, RD, WRT, NOEXE, LONG	
00000008 0000	80	PRIVMASK:	.BLKQ	1 ; ADDR OF PRIVILEGE MASK (IN PHD)
0000000C 0008	81	PAGCNT_ERG:	.BLKL	1 ; PAGCNT ARGUMENT FOR EXPREG
00000010 000C	82	REGION_ERG:	.BLKL	1 ; REGION ARGUMENT FOR EXPREG
00000014 0010	83	ACMODE_ERG:	.BLKL	1 ; ACMODE ARGUMENT FOR EXPREG
0000001C 0014	84	RETADR:	.BLKQ	1 ; RETADR ARG FOR SUBJ \$LCKPAG & \$ULKPG
0000001D 001C	85	LOCKMODE:	.BLKB	1 ; SAVE AREA FOR MODE OF LCKPAG/ULKPG ISSUER

```
00000000'00000000'00000000'00000000'00000000'00000000'00000000'00000000'
00000000'00000000'00000000'00000000'00000000'00000000'00000000'00000000'
00000000'00000000'00000000'00000000'00000000'00000000'00000000'00000000'

001D 87 .SBTTL CONDITION TABLES
001D 88 :
001D 89 :
001D 90 :
001D 91 :
001D 92 :
001D 93 :
001D 94 :
001D 95 :
001D 96 :
001D 97 :
00C9 98 .LONG TM_SETUP, TM_SETUP
00D1 99 .LONG 0[8]

00F1 100 :
00F1 101 :
00F1 102 :
00F1 103 :
00F1 104 :
00F1 105 :
00 00 0141 106 .BYTE PSL$C_KERNEL, PSL$C_KERNEL
00 03 0143 107 .BYTE PSL$C_USER, PSL$C_KERNEL
03 03 0145 108 .BYTE PSL$C_USER, PSL$C_USER
0147 109 :
0147 110 :
0148 111 :
0148 112 :
0149 113 :
0149 114 :
014A 115 :
00000000 116 .PSECT SATSSS79, RD, WRT, EXE

COND 1, QUAD, <INADR>, -
    <CURRENT IMAGE PAGE>, -
    <PROGRAM REGION -- SINGLE PAGE>, -
    <PROGRAM REGION -- MULTIPLE PAGES>, -
    <CONTROL REGION -- SINGLE PAGE>, -
    <CONTROL REGION -- MULTIPLE PAGES>, -

COND 2, NOTARG, <PAGE OWNER/LOCKER ACCESS MODES>, -
    <KERNEL/KERNEL>, -
    <USER/KERNEL>, -
    <USER/USER>, -

COND 3, NULL
COND 4, NULL
COND 5, NULL
```

```
0000 118 .SBTTL TM_SETUP, TM_CLEANUP
0000 119 :++
0000 120 : FUNCTIONAL DESCRIPTION:
0000 121 :
0000 122 : TM_SETUP AND TM_CLEANUP ARE CALLED TO PERFORM
0000 123 : REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF
0000 124 : TEST MODULE EXECUTION.
0000 125 :
0000 126 : CALLING SEQUENCE:
0000 127 :
0000 128 : BSBW TM_SETUP BSBW TM_CLEANUP
0000 129 :
0000 130 : INPUT PARAMETERS:
0000 131 :
0000 132 : NONE
0000 133 :
0000 134 : IMPLICIT INPUTS:
0000 135 :
0000 136 : NONE
0000 137 :
0000 138 : OUTPUT PARAMETERS:
0000 139 :
0000 140 : NONE
0000 141 :
0000 142 : IMPLICIT OUTPUTS:
0000 143 :
0000 144 : TM_SETUP: COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED;
0000 145 : ALL PRIVILEGES ACQUIRED.
0000 146 :
0000 147 : COMPLETION CODES:
0000 148 :
0000 149 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0000 150 :
0000 151 : SIDE EFFECTS:
0000 152 :
0000 153 : SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
0000 154 : (VIA RSB) IF ERROR ENCOUNTERED.
0000 155 :
0000 156 :--
0000 157 :
0000 158 :
0000 159 :
0000 160 TM_SETUP::
52 D4 0000 161 CLRL R2 ; INITIALIZE
53 D4 0002 162 CLRL R3 ; .. CONDITION
54 D4 0004 163 CLRL R4 ; .... TABLE
55 D4 0006 164 CLRL R5 ; ..... INDEX
56 D4 0008 165 CLRL R6 ; ..... REGISTERS
FFF3' 30 000A 166 BSBW MOD MSG PRINT ; PRINT TEST MODULE BEGIN MSG
00000000'EF 00000000'EF DE 000D 167 MOVAL TEST MOD_SUCC,TMD_ADDR ; ASSUME END MSG WILL SHOW SUCCESS
03 00 00000000'8F FO 0018 168 INSV #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
00000000'EF 00000000'EF 0020
0025 169 MODE TO,5$,KRNL ; KERNEL MODE TO ACCESS PHD
59 00000000'9F DO 0048 170 MOVL @#CTL$GL_PHD,R9 ; GET PROCESS HEADER ADDRESS
00000000'EF 69 DE 004F 171 MOVAL PHD$Q_PRIVMSK(R9),PRIVMASK ; GET PRIV MASK ADDRESS
0056 172 MODE FROM,5$ ; BACK TO USER MODE
0057 173 PRIV ADD,ALL ; GET ALL PRIVILEGES
```

SATSSS79
V04-000

SATS SYST SERV TESTS		\$LCK/ULK ¹ PAG ⁵	(SUCC	16-SEP-1984 01:03:44	VAX/VMS Macro V04-00	Page 7
TM_SETUP, TM_CLEANUP				5-SEP-1984 04:33:36	[UETPSY.SRC]SATSSS79.MAR;1	(1)
	0077	174	\$SETPRN S	TEST MOD_NAME_D	:	SET PROCESS NAME
	0084	175	SS CHECK	NORMAL	:	CHECK STATUS CODE RETURNED FROM SETPRN
05	00B2	176	RSB		:	RETURN TO MAIN ROUTINE
	00B3	177	TM_CLEANUP::			
FF4A'	30	00B3	BSBW	MOD_MSG_PRINT	:	PRINT TEST MODULE END MSG
05	00B6	179	RSB		:	RETURN TO MAIN ROUTINE

```
00B7 181 .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
00B7 182 :++
00B7 183 : FUNCTIONAL DESCRIPTION:
00B7 184 :
00B7 185 : CONDX AND CONDX CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED
00B7 186 : BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW
00B7 187 : CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON
00B7 188 : ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE
00B7 189 : CONDITION X TABLE IS INCLUDED IN THE CONDX SUBROUTINE AND CLEANED
00B7 190 : UP, IF NECESSARY, IN THE CONDX CLEANUP SUBROUTINE. THIS INCLUDES,
00B7 191 : ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO
00B7 192 : OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO
00B7 193 : VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE
00B7 194 : (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
00B7 195 :
00B7 196 : CALLING SEQUENCE:
00B7 197 :
00B7 198 : BSBW CONDX BSBW CONDX_CLEANUP
00B7 199 : WHERE X = 1,2,3,4,5
00B7 200 :
00B7 201 : INPUT PARAMETERS:
00B7 202 :
00B7 203 : CONFLICT = 0
00B7 204 :
00B7 205 : IMPLICIT INPUTS:
00B7 206 :
00B7 207 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
00B7 208 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
00B7 209 :
00B7 210 : OUTPUT PARAMETERS:
00B7 211 :
00B7 212 : CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.
00B7 213 :
00B7 214 : IMPLICIT OUTPUTS:
00B7 215 :
00B7 216 : R2,3,4,5,6 PRESERVED
00B7 217 :
00B7 218 : COMPLETION CODES:
00B7 219 :
00B7 220 : NONE
00B7 221 :
00B7 222 : SIDE EFFECTS:
00B7 223 :
00B7 224 : NONE
00B7 225 :
00B7 226 : --
00B7 227 :
00B7 228 :
00B7 229 :
00B7 230 COND1::
05 00B7 231 RSB ; RETURN TO MAIN ROUTINE
00B8 232 COND1_CLEANUP::
05 00B8 233 RSB ; RETURN TO MAIN ROUTINE
00B9 234 COND2::
52 D5 00B9 235 TSTL R2 ; FIRST COND 1 ELEMENT ??
OF 12 00B8 236 BNEQ COND2X ; NO -- NO CONFLICT
53 D5 00BD 237 TSTL R3 ; YES -- FIRST COND 2 ELEMENT ALSO ??
```

SATSSS79
V04-000

SATS SYST SERV TESTS \$LCK/ULK^{K 5}PAG (SUCC 16-SEP-1984 01:03:44 VAX/VMS Macro V04-00
CONDITION SUBROUTINES - SETUP AND CLEANU 5-SEP-1984 04:33:36 [UETPSY.SRC]SATSSS79.MAR;1 Page 9
(1)

```
00000000'EF 00000000'EF 12 00BF 238 BNEQ COND2X ; NO -- NO CONFLICT
90 00C1 239 MOVB ONES,CONFLICT ; YES -- INDICATE CONFLICT BECAUSE ...
00CC 240 ; ... CURRENT IMAGE PAGE NOT OWNED BY KRNL
00CC 241 COND2X: ; RETURN TO MAIN ROUTINE
05 00CC 242 RSB ; RETURN TO MAIN ROUTINE
00CD 243 COND2_CLEANUP:: ; RETURN TO MAIN ROUTINE
05 00CD 244 RSB ; RETURN TO MAIN ROUTINE
00CE 245 COND3:: ; RETURN TO MAIN ROUTINE
05 00CE 246 RSB ; RETURN TO MAIN ROUTINE
00CF 247 COND3_CLEANUP:: ; RETURN TO MAIN ROUTINE
05 00CF 248 RSB ; RETURN TO MAIN ROUTINE
00D0 249 COND4:: ; RETURN TO MAIN ROUTINE
05 00D0 250 RSB ; RETURN TO MAIN ROUTINE
00D1 251 COND4_CLEANUP:: ; RETURN TO MAIN ROUTINE
05 00D1 252 RSB ; RETURN TO MAIN ROUTINE
00D2 253 COND5:: ; RETURN TO MAIN ROUTINE
05 00D2 254 RSB ; RETURN TO MAIN ROUTINE
00D3 255 COND5_CLEANUP:: ; RETURN TO MAIN ROUTINE
05 00D3 256 RSB ; RETURN TO MAIN ROUTINE
```

```
00D4 258 .SBTTL FORM_CONDS
00D4 259 :++
00D4 260 : FUNCTIONAL DESCRIPTION:
00D4 261 :
00D4 262 : FORM CONDS FORMATS AND PRINTS INFORMATION ABOUT
00D4 263 : THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
00D4 264 :
00D4 265 : CALLING SEQUENCE:
00D4 266 :
00D4 267 : BSBW FORM_CONDS
00D4 268 :
00D4 269 : INPUT PARAMETERS:
00D4 270 :
00D4 271 : NONE
00D4 272 :
00D4 273 : IMPLICIT INPUTS:
00D4 274 :
00D4 275 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
00D4 276 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
00D4 277 : FOR X = 1,2,3,4,5 :
00D4 278 : CONDX_T - TITLE TEXT FOR CONDX TABLE
00D4 279 : CONDX_TAB - ELEMENT TEXT FOR CONDX TABLE
00D4 280 : CONDX_C - CONTEXT OF THE CONDX TABLE
00D4 281 : CONDX_E - DATA ELEMENTS OF THE CONDX TABLE
00D4 282 :
00D4 283 : OUTPUT PARAMETERS:
00D4 284 :
00D4 285 : NONE
00D4 286 :
00D4 287 : IMPLICIT OUTPUTS:
00D4 288 :
00D4 289 : NONE
00D4 290 :
00D4 291 : COMPLETION CODES:
00D4 292 :
00D4 293 : NONE
00D4 294 :
00D4 295 : SIDE EFFECTS:
00D4 296 :
00D4 297 : NONE
00D4 298 :
00D4 299 :--
00D4 300 :
00D4 301 :
00D4 302 :
00D4 303 FORM_CONDS::
00D4 304 $FAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
00F3 305 : FORMAT CONDITIONS HEADER MSG
00F3 306 BSBW OUTPUT_MSG : ... AND PRINT IT
14 08 91 00F6 307 CMPB #COND1_C,#NULL : IS CONDITION 1 NULL ?
03 12 00F9 308 BNEQU 10$ : NO -- CONTINUE
00CB 31 00FB 309 BRW FORM_CONDSX : YES -- SUBROUTINE IS FINISHED
00FE 310 10$:
00FE 311 MOVAL COND1_T,MSG_A : SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO
00000000'EF 0000001D'EF DE 00FE 311
00000000'EF 00000024'EF D0 0109 312
00000000'EF 08 90 0115 313
011C 314 MOV_VAL COND1_C,COND1_E[R2],MSG_DATA1 ; GIVE COND 1 DATA VALUE TO FAO
```

```

      FED5' 30 0128 315      BSBW WRITE_MSG2      : FORMAT AND WRITE CONDITION 1 MSG
      14 00 91 012B 316      CMPB #COND2_C,#NULL    : IS CONDITION 2 NULL ?
      03 12 012E 317      BNEQU 20$                : NO -- CONTINUE
      0096 31 0130 318      BRW FORM_CONDSX          : YES -- SUBROUTINE IS FINISHED
      00000000'EF 000000F1'EF DE 0133 319 20$:      MOVAL COND2_T,MSG_A      : SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO
      00000000'EF 00000111'EF43 D0 013E 320      MOVL COND2_TAB[R3],MSG_B    : SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO
      00000000'EF 00 90 014A 321      MOVB #COND2_C,MSG_CTXT      : SAVE CONDITION 2 CONTEXT FOR FAO
      FEAC' 30 0151 323      MOV VAL COND2_C,COND2_E[R3],MSG_DATA1 : GIVE COND 2 DATA VALUE TO FAO
      14 14 91 0151 324      BSBW WRITE_MSG2      : FORMAT AND WRITE CONDITION 2 MSG
      03 12 0154 325      CMPB #COND3_C,#NULL    : IS CONDITION 3 NULL ?
      006D 31 0157 326      BNEQU 30$                : NO -- CONTINUE
      0159 327      BRW FORM_CONDSX          : YES -- SUBROUTINE IS FINISHED
      015C 328 30$:      MOVAL COND3_T,MSG_A      : SAVE ADDRESS OF CONDITION 3 TITLE FOR FAO
      00000000'EF 00000147'EF DE 015C 329      MOVL COND3_TAB[R4],MSG_B    : SAVE ADDR OF COND 3 CURR TEXT ELT FOR FAO
      00000000'EF 00000147'EF44 D0 0167 330      MOVB #COND3_C,MSG_CTXT      : SAVE CONDITION 3 CONTEXT FOR FAO
      00000000'EF 14 90 0173 331      MOV VAL COND3_C,COND3_E[R4],MSG_DATA1 : GIVE COND 3 DATA VALUE TO FAO
      FE83' 30 017A 332      BSBW WRITE_MSG2      : FORMAT AND WRITE CONDITION 3 MSG
      14 14 91 017D 333      CMPB #COND4_C,#NULL    : IS CONDITION 4 NULL ?
      47 13 0180 334      BEQLU FORM_CONDSX        : YES -- SUBROUTINE IS FINISHED
      00000000'EF 00000148'EF DE 0182 335      MOVAL COND4_T,MSG_A      : SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO
      00000000'EF 00000148'EF45 D0 018D 336      MOVL COND4_TAB[R5],MSG_B    : SAVE ADDR OF COND 4 CURR TEXT ELT FOR FAO
      00000000'EF 14 90 0199 337      MOVB #COND4_C,MSG_CTXT      : SAVE CONDITION 4 CONTEXT FOR FAO
      01A0 338      MOV VAL COND4_C,COND4_E[R5],MSG_DATA1 : GIVE COND 4 DATA VALUE TO FAO
      FE5D' 30 01A0 339      BSBW WRITE_MSG2      : FORMAT AND WRITE CONDITION 4 MSG
      14 14 91 01A3 340      CMPB #COND5_C,#NULL    : IS CONDITION 5 NULL ?
      21 13 01A6 341      BEQLU FORM_CONDSX        : YES -- SUBROUTINE IS FINISHED
      00000000'EF 00000149'EF DE 01A8 342      MOVAL COND5_T,MSG_A      : SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
      00000000'EF 00000149'EF46 D0 01B3 343      MOVL COND5_TAB[R6],MSG_B    : SAVE ADDR OF COND 5 CURR TEXT ELT FOR FAO
      00000000'EF 14 90 01BF 344      MOVB #COND5_C,MSG_CTXT      : SAVE CONDITION 5 CONTEXT FOR FAO
      FE37' 30 01C6 345      MOV VAL COND5_C,COND5_E[R6],MSG_DATA1 : GIVE COND 5 DATA VALUE TO FAO
      01C6 346      BSBW WRITE_MSG2      : FORMAT AND WRITE CONDITION 5 MSG
      01C9 347      FORM_CONDSX:
      05 01C9 348      RSB
      349      : RETURN TO CALLER
```

```
01CA 351 .SBTTL VERIFY
01CA 352 :++
01CA 353 : FUNCTIONAL DESCRIPTION:
01CA 354 :
01CA 355 :     VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION
01CA 356 :     TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR
01CA 357 :     COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS
01CA 358 :     SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICES
01CA 359 :     ($LCKPG & $ULKPG). THEN, THE SUCCESSFUL OPERATION OF THE SERVICES IS
01CA 360 :     VERIFIED BY EXAMINING THE STATUS CODES RETURNED, THE VALUES FOR RETURN ARGS
01CA 361 :     AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF
01CA 362 :     COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN
01CA 363 :     ERR_EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY,
01CA 364 :     THROUGH THE SS_CHECK MACRO); ERR_EXIT SETS EFLAG TO NON-ZERO,
01CA 365 :     PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER.
01CA 366 :     WHEN ERR_EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED,
01CA 367 :     AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.
01CA 368 :
01CA 369 :     CALLING SEQUENCE:
01CA 370 :
01CA 371 :         BSBW VERIFY
01CA 372 :
01CA 373 :     INPUT PARAMETERS:
01CA 374 :
01CA 375 :         NONE
01CA 376 :
01CA 377 :     IMPLICIT INPUTS:
01CA 378 :
01CA 379 :         R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
01CA 380 :         FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
01CA 381 :         FOR X = 1,2,3,4,5 :
01CA 382 :             CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
01CA 383 :             TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
01CA 384 :             ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
01CA 385 :             FOR CONDX_E.
01CA 386 :
01CA 387 :     OUTPUT PARAMETERS:
01CA 388 :
01CA 389 :         NONE
01CA 390 :
01CA 391 :     IMPLICIT OUTPUTS:
01CA 392 :
01CA 393 :         VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS,
01CA 394 :         IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING
01CA 395 :         ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA
01CA 396 :         AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED
01CA 397 :         ERRORS.
01CA 398 :
01CA 399 :     COMPLETION CODES:
01CA 400 :
01CA 401 :         EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
01CA 402 :
01CA 403 :     SIDE EFFECTS:
01CA 404 :
01CA 405 :         SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
01CA 406 :         (VIA RSB) IF ERROR ENCOUNTERED.
01CA 407 :
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01CA 408 :--
01CA 409
01CA 410
01CA 411
01CA 412 VERIFY::
00000000'EF 95 01CA 413 TSTB CFLAG ; SHOULD CONDITIONS BE PRINTED ?
03 13 01D0 414 BEQL 5$ ; NO -- CONTINUE
FEFF 30 01D2 415 BSBW FORM_CONDS ; YES -- FMT & PRINT ALL CONDS FOR THIS T.C.
57 00000141'EF43 B0 01D5 416 5$: MOVW COND2 E[R3],R7 ; GET CURRENT ACMODE SETTINGS
00000010'EF 57 9A 01DD 417 MOVZBL R7,ACMODE_ERG ; ISOLATE PAGE OWNER ACMODE FOR $EXPREG
57 57 F8 8F 78 01E4 418 ASHL #-8,R7,R7 ; SHIFT LOCKER'S MODE TO LOW-ORDER BYTE
0000001C'EF 57 90 01E9 419 MOVW R7,LOCKMODE ; ... AND REMEMBER LOCKER'S MODE
01F0 420
01F0 421 : SET UP INADR ARGUMENT IN COND 1 TABLE BY ISSUING $EXPREG
01F0 422
01F0 423
52 D5 01F0 424 TSTL R2 ; FIRST COND 1 ELEMENT ??
03 12 01F2 425 BNEQ 10$ ; NO -- CONTINUE
00A3 31 01F4 426 BRW 40$ ; YES -- INADR ALREADY SET UP
01F7 427 10$: CLRQ INADR[R2] ; CLEAR $EXPREG RETURN AREA
000000C9'EF42 7C 01F7 428 CLRL REGION_ERG ; ASSUME PROGRAM REGION
0000000C'EF D4 01FE 429 MOVZBL #1,PAGCNT_ERG ; ... AND SINGLE PAGE COUNT
00000008'EF 01 9A 0204 430 CMPL R2,#2 ; IS IT PROGRAM REGION ??
02 52 D1 020B 431 BLEQ 15$ ; YES -- GO CHECK PAGE COUNT
0000000C'EF 01 9A 0210 432 MOVZBL #1,REGION_ERG ; NO -- MUST BE CONTROL REGION
01 52 D1 0217 433 15$: CMPL R2,#1 ; IS IT SINGLE PAGE ??
03 0C 13 021A 434 BEQL 20$ ; YES -- GO ESTABLISH MODE
03 52 D1 021C 435 CMPL R2,#3 ; COULD STILL BE SINGLE PAGE
07 13 021F 436 BEQL 20$ ; IT IS -- GO ESTABLISH MODE
00000008'EF 0A 9A 0221 437 MOVZBL #10,PAGCNT_ERG ; MULTIPLE PAGES
0228 438
0228 439 20$: MODE TO,30$,KRNL ; GET KERNEL MODE, SO ACMODE ARG WORKS
024B 440 $EXPREG_S REGION=REGION_ERG, PAGCNT=PAGCNT_ERG, -
024B 441 ACMODE=ACMODE_ERG, RETADR=INADR[R2]
026B 442 MODE FROM,30$ ; BACK TO USER MODE
026C 443 SS_CHECK NORMAL ; CHECK FOR NORMAL STATUS RETURN
029A 444 40$:
029A 445
029A 446 : ***** SYSTEM SERVICE CALLS WHICH ARE THE SUBJECT OF THIS TEST CASE *****
029A 447
029A 448
00 0000001C'EF 91 029A 449
3C 12 02A1 450 CMPB LOCKMODE,#PSL$C_KERNEL ; IS LOCKER'S MODE KERNEL ??
02A3 451 BNEQ 50$ ; NO -- SIMPLY ISSUE IT IN USER
02C6 452 MODE TO,60$,KRNL ; YES -- ISSUE SERVICE IN KERNEL MODE
02DC 453 $LCKPAG_S INADR=INADR[R2], RETADR=RETADR
16 11 02DD 454 MODE FROM,60$ ; BACK TO USER MODE
02DF 455 BRB 70$ ; GO CHECK STATUS RETURN VALUE
02DF 456 50$:
02F5 457 $LCKPAG_S INADR=INADR[R2], RETADR=RETADR
00000000'8F 50 D1 02F5 458 70$: CMPL R0,#SS$_WASCLR ; CODE RECEIVED = CODE EXPECTED ?
00000000'EF 00000000'8F 61 13 02FC 459 BEQL 80$ ; YES -- CONTINUE
00000000'EF 50 D0 02FE 460 MOVL #SS$_WASCLR,EXPV ; NO -- LOAD UP EXPECTED AND
D0 0309 461 MOVL R0,RCV ; ... RECEIVED VALUES, THEN EXIT
0310 462 ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM LCKPAG>
035F 463 80$:
035F 464
```

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035F 465 :
035F 466 : COMPARE INADR AGAINST RETADR (EXCEPT LOW-ORDER 9 BITS) AND,
035F 467 : IF OK, GO ISSUE $ULKPAG.
035F 468 :
57 000000C9'EF42 7D 035F 469 : MOVQ INADR[R2],R7 : GET INADR PAIR INTO REGS
57 00000014'EF 17 09 EF 0367 470 : EXTZV #9,#23,R7,R7 : SHIFT RIGHT 9 BITS
57 00000014'EF 17 09 ED 036C 471 : CMPZV #9,#23,RETADR,R7 : INADR = RETADR (FIRST OF PAIR) ??
12 0375 472 : BNEQU 90$ : NO -- ERROR
58 00000018'EF 17 09 EF 0377 473 : EXTZV #9,#23,R8,R8 : SHIFT RIGHT 9 BITS
58 00000018'EF 17 09 ED 037C 474 : CMPZV #9,#23,RETADR+4,R8 : INADR = RETADR (2ND OF PAIR) ??
12 0385 475 : BNEQU 90$ : NO -- ERROR
0068 31 0387 476 : BRW 100$ : YES -- SKIP ERROR PROCESSING
038A 477 90$:
00000000'EF 000000C9'EF42 7D 038A 478 : MOVQ INADR[R2],EXPV : LOAD UP EXPECTED AND
00000000'EF 00000014'EF 7D 0396 479 : MOVQ RETADR,RCV : ... RECEIVED VALUES, THEN EXIT
03A1 480 : ERR_EXIT QUAD,<UNEXPECTED VALUE FROM LCKPAG FOR>,-
03A1 481 : < RETADR PAIR>
03F2 482 100$:
03F2 483 :
03F2 484 : SET UP TO ISSUE $ULKPAG
03F2 485 :
00 0000001C'EF 91 03F2 486 : CMPB LOCKMODE,#PSL$C_KERNEL : IS LOCKER'S MODE KERNEL ??
3C 12 03F9 487 : BNEQ 120$ : NO -- SIMPLY ISSUE IT IN USER
03FB 488 : MODE TO,110$,KRNL : YES -- ISSUE SERVICE IN KERNEL MODE
041E 489 : $ULKPAG_S INADR=INADR[R2], RETADR=RETADR
0434 490 : MODE FROM,110$ : BACK TO USER MODE
16 11 0435 491 : BRB 130$ : GO CHECK STATUS RETURN VALUE
0437 492 120$:
0437 493 : $ULKPAG_S INADR=INADR[R2], RETADR=RETADR
044D 494 130$:
00000000'8F 50 D1 044D 495 : CMPL R0,$SS$_WASSET : CODE RECEIVED = CODE EXPECTED ?
00000000'EF 00000000'8F 13 0454 496 : BEQLU 140$ : YES -- CONTINUE
00000000'EF 50 D0 0456 497 : MOVL #SS$_WASSET,EXPV : NO -- LOAD UP EXPECTED AND
0461 498 : MOVL R0,RCV : ... RECEIVED VALUES, THEN EXIT
0468 499 : ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM ULKPAG>
04B7 500 140$:
04B7 501 :
04B7 502 : COMPARE INADR AGAINST RETADR (EXCEPT LOW-ORDER 9 BITS) AND,
04B7 503 : IF OK, VERIFY ROUTINE IS COMPLETE, GO DO ANOTHER TEST CASE.
04B7 504 :
57 000000C9'EF42 7D 04B7 505 : MOVQ INADR[R2],R7 : GET INADR PAIR INTO REGS
57 00000014'EF 17 09 EF 04BF 506 : EXTZV #9,#23,R7,R7 : SHIFT RIGHT 9 BITS
57 00000014'EF 17 09 ED 04C4 507 : CMPZV #9,#23,RETADR,R7 : INADR = RETADR (FIRST OF PAIR) ??
12 04CD 508 : BNEQU 150$ : NO -- ERROR
58 00000018'EF 17 09 EF 04CF 509 : EXTZV #9,#23,R8,R8 : SHIFT RIGHT 9 BITS
58 00000018'EF 17 09 ED 04D4 510 : CMPZV #9,#23,RETADR+4,R8 : INADR = RETADR (2ND OF PAIR) ??
12 04DD 511 : BNEQU 150$ : NO -- ERROR
0068 31 04DF 512 : BRW VERIFYX : YES -- SKIP ERROR PROCESSING
04E2 513 150$:
00000000'EF 000000C9'EF42 7D 04E2 514 : MOVQ INADR[R2],EXPV : LOAD UP EXPECTED AND
00000000'EF 00000014'EF 7D 04EE 515 : MOVQ RETADR,RCV : ... RECEIVED VALUES, THEN EXIT
04F9 516 : ERR_EXIT QUAD,<UNEXPECTED VALUE FROM ULKPAG FOR>,-
04F9 517 : < RETADR PAIR>
054A 518 VERIFYX:
05 054A 519 : RSB : RETURN TO CALLER
```

```
054B 521 .SBTTL VFY_CLEANUP
054B 522 :++
054B 523 : FUNCTIONAL DESCRIPTION:
054B 524 :
054B 525 : VFY_CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE
054B 526 : EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY_CLEANUP MUST
054B 527 : ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN
054B 528 : ERROR IS FOUND). ALSO, VFY_CLEANUP MAY ISSUE SS_CHECK OR ERR_EXIT
054B 529 : ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED
054B 530 : IN THE EVENT THAT VFY_CLEANUP IS CALLED DURING ERROR PROCESSING,
054B 531 : WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN
054B 532 : POSSIBLY DISCOVERING A SECOND ERROR.
054B 533 :
054B 534 : CALLING SEQUENCE:
054B 535 :
054B 536 : BSBW VFY_CLEANUP
054B 537 :
054B 538 : INPUT PARAMETERS:
054B 539 :
054B 540 : NONE
054B 541 :
054B 542 : IMPLICIT INPUTS:
054B 543 :
054B 544 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
054B 545 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
054B 546 : FOR X = 1,2,3,4,5 :
054B 547 : CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
054B 548 : TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
054B 549 : ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
054B 550 : FOR CONDX_E.
054B 551 :
054B 552 : OUTPUT PARAMETERS:
054B 553 :
054B 554 : NONE
054B 555 :
054B 556 : IMPLICIT OUTPUTS:
054B 557 :
054B 558 : NONE
054B 559 :
054B 560 : COMPLETION CODES:
054B 561 :
054B 562 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
054B 563 :
054B 564 : SIDE EFFECTS:
054B 565 :
054B 566 : SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
054B 567 : (VIA RSB) IF ERROR ENCOUNTERED.
054B 568 :
054B 569 : --
054B 570 :
054B 571 :
054B 572 :
054B 573 VFY_CLEANUP::
054B 574 TSTL R2 ; FIRST COND 1 ELEMENT ??
054B 575 BNEQ 10$ ; NO -- CONTINUE
054B 576 BRW VFY_CLEANUPX ; YES -- NO PAGES TO DELETE
0552 577 10$:
```

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52 DS
03 12
0077 31
```

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57 000000C9'EF42 7D 0552 578 MOVQ INADR[R2],R7 ; AVOID INDEX MODE, USE REGS
      57 055A 579 TSTL R7 ; DID $EXPREG GET SOME SPACE ABOVE ??
      03 12 055C 580 BNEQU 20$ ; YES -- CONTINUE
      0068 31 055E 581 BRW VFY_CLEANUPX ; NO -- NO PAGES TO DELETE
      0561 582 20$: ;
      0561 583 MODE TO,30$,KRNL ; KRNL MODE TO DELETE ACQUIRED PAGES
      0584 584 $DELTVA_S INADR=INADR[R2], -
      0584 585 ACMODE=ACMODE_ERG ;
      059A 586 MODE FROM,30$ ; BACK TO USER MODE
      059B 587 SS CHECK NORMAL ; CHECK RETURN STATUS VALUE
      05C9 588 VFY_CLEANUPX: ;
      05 05C9 589 RSB ; RETURN TO CALLER
      05CA 590 .END

```

SATSSS79
Symbol table

SATS SYST SERV TESTS \$LCK/ULK/PAG (SUCC

F 6

16-SEP-1984 01:03:44 VAX/VMS Macro V04-00
5-SEP-1984 04:33:36 [UETPSY.SRC]SATSSS79.MAR;1

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(1)

\$\$\$\$	= 00000503	R	04	FAO_LEN	*****	X	04
\$\$\$\$CHARS	= 0000002C			FORM_CONDS	000000D4	RG	04
\$\$\$\$CHARS1	= 0000000D			FORM_CONDSX	000001C9	R	04
\$\$\$\$CHARS2	= 0000000B			INADR	000000C9	R	03
\$\$\$\$CHARS3	= 00000009			LOCKMODE	0000001C	R	03
\$\$\$\$CHARS4	= 00000000			LONG	= 00000004	G	
\$\$\$\$CHARS5	= 00000000			MOD_MSG_CODE	*****	X	04
\$\$\$\$COND_A	= 00000002			MOD_MSG_PRINT	*****	X	04
\$\$\$\$STRINGS	= 00000001			MSGT_INP_CTL	00000019	R	02
\$\$\$\$STRINGS2	= 00000005			MSG3_ERR_CTL	00000039	RG	02
\$\$T1	= 00000000			MSG_A	*****	X	04
\$\$T2	= 00000004			MSG_B	*****	X	04
ACMODE_ERG	= 00000010	R	03	MSG_CTXT	*****	X	04
BYTE	= 00000001	G		MSG_DATA1	*****	X	04
CFLAG	*****	X	04	NOTARG	= 00000000	G	
CHMRTN	*****	X	04	NULL	= 00000014	G	
CHM_CONT	*****	X	04	ONES	*****	X	04
COMP_SC	*****	X	04	OUTPUT_MSG	*****	X	04
COND1	= 000000B7	RG	04	PAGCNT_ERG	00000008	R	03
COND1_C	= 00000008			PCV	*****	X	04
COND1_CLEANUP	000000B8	RG	04	PHD\$Q_PRIVMSK	= 00000000		
COND1_E	000000C9	R	03	PRIVMASK	00000000	R	03
COND1_H	00000023	RG	03	PRIV_ARGS	= 00000002		
COND1_T	0000001D	R	03	PROCESS_ERR	*****	X	04
COND1_TAB	00000024	R	03	PSL\$C_KERNEL	= 00000000		
COND2	000000B9	RG	04	PSL\$C_USER	= 00000003		
COND2X	000000CC	R	04	QUAD	= 00000008	G	
COND2_C	= 00000000			RECV	*****	X	04
COND2_CLEANUP	000000CD	RG	04	REGION_ERG	0000000C	R	03
COND2_E	00000141	R	03	REST_REGS	*****	X	04
COND2_H	00000110	RG	03	RETA\$R	00000014	R	03
COND2_T	000000F1	R	03	SAVE_REGS	*****	X	04
COND2_TAB	00000111	R	03	SS\$NORMAL	*****	X	04
COND3	000000CE	RG	04	SS\$WASCLR	*****	X	04
COND3_C	= 00000014			SS\$WASSET	*****	X	04
COND3_CLEANUP	000000CF	RG	04	SUCCESS	*****	X	04
COND3_H	00000147	RG	03	SYSSCMKRN	*****	GX	04
COND3_T	00000147	R	03	SYSSDELTV	*****	GX	04
COND3_TAB	00000147	R	03	SYSS\$EXPREG	*****	GX	04
COND4	000000D0	RG	04	SYSS\$FAO	*****	X	04
COND4_C	= 00000014			SYSS\$LCKPAG	*****	GX	04
COND4_CLEANUP	000000D1	RG	04	SYSS\$SETPRN	*****	GX	04
COND4_H	00000148	RG	03	SYSS\$SETPRV	*****	GX	04
COND4_T	00000148	R	03	SYSS\$ULKPAG	*****	GX	04
COND4_TAB	00000148	R	03	TESTNUM	*****	X	04
COND5	000000D2	RG	04	TEST_MOD_NAME	00000000	RG	02
COND5_C	= 00000014			TEST_MOD_NAME_D	00000009	R	02
COND5_CLEANUP	000000D3	RG	04	TEST_MOD_SUCC	*****	X	04
COND5_H	00000149	RG	03	TMD_ADDR	*****	X	04
COND5_T	00000149	R	03	TM_CLEANUP	000000B3	RG	04
COND5_TAB	00000149	R	03	TM_SETUP	00000000	RG	04
CONFLICT	*****	X	04	VERIFY	000001CA	RG	04
CTL\$GL_PHD	*****	X	04	VERIFYX	0000054A	R	04
DESC	= 00000010	G		VFY_CLEANUP	0000054B	RG	04
EFLAG	*****	X	04	VFY_CLEANUPX	000005C9	R	04
EXPV	*****	X	04	WORD	= 00000002	G	
FAO_DESC	*****	X	04	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
\$AB\$\$	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
RODATA	00000051 (81.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	0000014A (330.)	03 (3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
SATSSS79	000005CA (1482.)	04 (4.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	38	00:00:00.06	00:00:00.35
Command processing	148	00:00:00.62	00:00:02.35
Pass 1	249	00:00:06.92	00:00:15.19
Symbol table sort	0	00:00:00.54	00:00:00.69
Pass 2	120	00:00:01.90	00:00:03.20
Symbol table output	14	00:00:00.09	00:00:00.09
Psect synopsis output	3	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	574	00:00:10.16	00:00:21.90

The working set limit was 1500 pages.
37087 bytes (73 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 345 non-local and 47 local symbols.
590 source lines were read in Pass 1, producing 24 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\$:SATSSS79/OBJ=OBJ\$:SATSSS79 MSRC\$:SATSSS79/UPDATE=(ENH\$:SATSSS79)+EXECMLS/LIB+SHRLIB\$:UETP/LIB

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

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