


```

SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  FFFFFFFFFF  11  44  44
SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  FFFFFFFFFF  11  44  44
SS        AA      AA      TT        SS        SS        FF        1111  44  44
SS        AA      AA      TT        SS        SS        FF        1111  44  44
SS        AA      AA      TT        SS        SS        FF        11    44  44
SSSSSS    AA      AA      TT        SSSSSS    SSSSSS    FFFFFFFF  11    44  44
SSSSSS    AA      AA      TT        SSSSSS    SSSSSS    FFFFFFFF  11    4444444444
SS        AA      AA      TT        SS        SS        FF        11    44  44
SS        AA      AA      TT        SS        SS        FF        11    44  44
SS        AA      AA      TT        SS        SS        FF        11    44  44
SSSSSSSS  AA      AA      TT        SSSSSSSS  SSSSSSSS  FFFFFFFF  111111  44  44
SSSSSSSS  AA      AA      TT        SSSSSSSS  SSSSSSSS  FFFFFFFF  111111  44  44

```

```

LL        IIIIII  SSSSSSSS
LL        IIIIII  SSSSSSSS
LL        II      SS
LL        II      SS
LL        II      SS
LL        II      SS
LL        II      SSSSSS
LL        II      SSSSSS
LL        II      SS
LL        II      SS
LL        II      SS
LL        II      SS
LLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLL IIIIII  SSSSSSSS

```

....
....
....
....

(1)	52	DECLARATIONS
(1)	210	SATSSF14
(1)	297	SFLWS10
(1)	320	SFLWS11
(1)	347	SFLWS12
(1)	372	SFLWS13
(1)	394	SFLWS14
(1)	417	SFLWS20
(1)	439	SFLWS21
(1)	461	SFLWS22
(1)	488	SFUWS10
(1)	511	SFUWS11
(1)	537	SFUWS12
(1)	562	SFUWS13
(1)	584	SFUWS14
(1)	607	SFUWS20
(1)	629	SFUWS21
(1)	651	SFUWS22
(2)	679	SFLKP10
(2)	702	SFLKP11
(2)	729	SFLKP12
(2)	754	SFLKP13
(2)	776	SFLKP14
(2)	799	SFLKP20
(2)	821	SFLKP21
(2)	843	SFLKP22
(2)	870	SFULP10
(2)	893	SFULP11
(2)	919	SFULP12
(2)	944	SFULP13
(2)	966	SFULP14
(2)	989	SFULP20
(2)	1011	SFULP21
(2)	1033	SFULP22
(2)	1135	EXECUTE & CLEANUP
(2)	1144	TC CONTROL
(2)	1225	SUBROUTINES

```
0000 1 .TITLE SATSSF14 - SATS SYSTEM SERVICE TESTS (FAILING 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: SATS SYSTEM SERVICE TESTS
0000 31 :
0000 32 : ABSTRACT: THE SATSSF14 MODULE TESTS THE EXECUTION OF CERTAIN
0000 33 : VMS SYSTEM SERVICES, INVOKED IN SUCH A WAY AS TO EXPECT FAILING
0000 34 : STATUS CODES. THE SYSTEM SERVICES TESTED AND THE STATUS CODES
0000 35 : EXPECTED ARE SUMMARIZED AS ARGUMENTS TO THE TESTSERV MACROS
0000 36 : WHICH APPEAR NEAR THE END OF THIS LISTING. SUCCESSFUL STATUS
0000 37 : CODES ARE TESTED IN OTHER MODULES.
0000 38 :
0000 39 :
0000 40 : ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE,
0000 41 : DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.
0000 42 :
0000 43 : AUTHOR: THOMAS L. CAFARELLA, CREATION DATE: MMM, 1978
0000 44 : PAUL D. FAY (DISPSERV & TESTSERV MACROS)
0000 45 :
0000 46 : MODIFIED BY:
0000 47 :
0000 48 : : VERSION
0000 49 : 01 -
0000 50 :--
```

```

0000 52          .SBTTL  DECLARATIONS
0000 53          :
0000 54          : INCLUDE FILES:
0000 55          :
0000 56          $PHDDEF          : PROCESS HEADER OFFSET SYMBOLS
0000 57          $PCBDEF          : PROCESS CONTROL BLOCK OFFSET SYMBS
0000 58          $STSDEF          : STATUS MESSAGE SYMBOLS
0000 59          $PRVDEF          : SYMBOL DEFS FOR PRIVILEGES
0000 60          $UETPDEF         : UETP MSG CODE DEFINITIONS
0000 61          $$HR_MESSAGES UETP,116,<<TEXT,INFO>>
0000 62          :
0000 63          : DEFINE UETP$ TEXT
0000 64          $PSLDEF          : GET RID OF MACRO DEFINITIONS
0000 65          : ACCESS MODE SYMBOLS
0000 66          :
0000 67          : MACROS:
0000 68          :
0000 69          : EQUATED SYMBOLS:
0000 70          :
00000000 0000 71 WARNING          = 0          : WARNING SEVERITY VALUE FOR MSGS
00000001 0000 72 SUCCESS          = 1          : SUCCESS SEVERITY VALUE FOR MSGS
00000002 0000 73 ERROR           = 2          : ERROR SEVERITY VALUE FOR MSGS
00000003 0000 74 INFO            = 3          : INFORMATIONAL SEV VALUE FOR MSGS
00000004 0000 75 SEVERE          = 4          : SEVERE (FATAL) SEV VALUE FOR MSGS
00000000 0000 76 TCG_NO          = 0          : INITIALIZE TEST CASE GROUP NUMBER
00000000 0000 77 GRP_TOTAL        = 0          : INITIALIZE TEST CASE GROUP TOTAL
00007FFF 0000 78 RO_THRU_SP          = ^M<R0,R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP,SP>
00000000 0000 79 INADR_LWS12         = 0          : INADR ARG FOR LKWSET (LOCATION 0)
00000001 0000 80 RETADR_LWS20         = 1          : RETADR ARG FOR LKWSET (LOCATION 1)
00000000 0000 81 INADR_OWS12         = 0          : INADR ARG FOR ULWSET (LOCATION 0)
00000001 0000 82 RETADR_UWS20         = 1          : RETADR ARG FOR ULWSET (LOCATION 1)
00000000 0000 83 INADR_LKP12         = 0          : INADR ARG FOR LCKPAG (LOCATION 0)
00000001 0000 84 RETADR_LKP20         = 1          : RETADR ARG FOR LCKPAG (LOCATION 1)
00000000 0000 85 INADR_OLP12         = 0          : INADR ARG FOR ULKPAG (LOCATION 0)
00000001 0000 86 RETADR_ULP20         = 1          : RETADR ARG FOR ULKPAG (LOCATION 1)
0000 87          :
0000 88          : OWN STORAGE:
0000 89          :

```

```

00000000 91 .PSECT RODATA, RD, NOWRT, NOEXE, LONG
BFFC 0000 92 REG_COMP_MASK: .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP> ! ^X8000 -
0002 93 : REG COMPARE MASK (HIGH-ORDER ...
0002 94 : ... BIT MUST BE ON
0002 95 ERR_MSG_FAOCTL: STRING I, <!/!AC!1ZB!1ZB: REGISTER !2UW CONTENTS ALTERED>, -
0002 96 <: BEFORE SERVICE CALL: !8XL AFTER SERVICE CALL: !8XL>
006E 97 TEST_MOD_NAME: STRING C, <SATSSF14> : TEST MODULE NAME
0077 98 TEST_MOD_BEG: STRING C, <begun> : DISPOSITION FIELD OF TEST MOD MSG
007D 99 TEST_MOD_SUCC: STRING C, <successful> : DISPOSITION FIELD OF TEST MOD MSG
0088 100 TEST_MOD_FAIL: STRING C, <failed> : DISPOSITION FIELD OF TEST MOD MSG
008F 101 TEST_MOD_NAME_D: STRING I, <SATSSF14> : TEST MODULE NAME DESCRIPTOR
009F 102 TTNAME: STRING I, <TT> : TERMINAL LOGICAL NAME
00000000'00000000' 00A9 103 INADR: .LONG NOACCESS, NOACCESS : PAGE ADDRESS OF NOACCESS PSECT
00000000'00000000' 00B1 104 PROT: .LONG PRTSC_NA : PROTECTION CODE FOR NOACCESS PSECT
FFFFFFFF FFFFFFFF 00B5 105 ONES: .LONG -1, -1 : A QUADWORD OF 1-BITS
00BD 106 INADR_LWS10: : INADR ARGUMENT FOR LKWSET
00BD 107 INADR_UWS10: : INADR ARGUMENT FOR ULWSET
80000000' 00BD 108 :.ADDRESS ^X80000000 :
BF000000' 00C1 109 :.ADDRESS ^XBF000000 :
00C5 110 INADR_LKP10: : INADR ARGUMENT FOR LCKPAG
000000C9'000000C5' 00C5 111 :.ADDRESS ... :
00CD 112 RETADR_LWS21: : RETADR ARGUMENT FOR LKWSET
00CD 113 RETADR_UWS21: : RETADR ARGUMENT FOR ULWSET
00CD 114 RETADR_LKP21: : RETADR ARGUMENT FOR LCKPAG
00CD 115 RETADR_ULP21: : RETADR ARGUMENT FOR ULKPAG
000000D5 00CD 116 :.BLKL 2 :
00D5 117 ACMODE_LWS: : ACMODE ARGUMENT FOR LKWSET
00D5 118 ACMODE_UWS: : ACMODE ARGUMENT FOR ULWSET
00000003 00D5 119 :.LONG PSL$C_USER

```

```
00000000 121 .PSECT RWDATA, RD, WRT, NOEXE
00000004 0000 122 TPID: .BLKL 1 ; PROCESS ID FOR THIS PROCESS
00000008 0004 123 CURRENT TC: .BLKL 1 ; PTR TO CURRENT TEST CASE
00000044 0008 124 REG_SAVE_AREA: .BLKL 15 ; SAVE AREA FOR ALL REGS (SANS PC)
007480D9 0044 125 MOD_MSG_CODE: .LONG UETPS_SATSMS ; TEST MODULE MSG CODE FOR PUTMSG
0000004C 0048 126 CLOB_REG_NO: .BLKL 1 ; CLOBBERED REG NO (FOR FAO ERR MSG)
00000050 004C 127 REG_BEFORE_SS: .BLKL 1 ; REG CONTENTS BEFORE S.S.
00000054 0050 128 ; ... (FOR FAO ERR MSG)
00000054 0050 129 REG_AFTER_SS: .BLKL 1 ; REG CONTENTS AFTER S.S.
00000054 0054 130 ; ... (FOR FAO ERROR MSG)
00000054 0054 131 $$STSTN$$: STRING C, < SF > ; ASCII PORTION OF TEST CASE NAME
0000006E 005C 132 TMN_ADDR: .ADDRESS TEST_MOD_NAME ; ADDR OF TEST MOD NAME FOR FAO
00000077 0060 133 TMD_ADDR: .ADDRESS TEST_MOD_BEG ; ADDR OF T.M. DISP FIELD FOR FAO
00000068 0064 134 TS_EP: .BLKL 1 ; ENTRY PNT FOR CURR TESTSERV MACRO
00000070 0068 135 RETADR: .BLKL 2 ; RETURN LONGWORDS FOR SETPRT
00000071 0070 136 PRVPRT: .BLKB 1 ; PROT RETURN BYTE FOR SETPRT
00000079 0071 137 PRIVMASK: .BLKQ 1 ; ADDR OF PRIVILEGE MASK (IN PHD)
0000007D 0079 138 CHM_CONT: .BLKL 1 ; CHANGE MODE CONTINUE ADDRESS
00000091 007D 139 REGS: .BLKL 5 ; AREA FOR COND INDEX REGS (R2-R6)
00000099 0091 140 INADR_LWS: .BLKL 2 ; INADR ARGUMENT FOR LKWSET SERVICE
000000A1 0099 141 INADR_LWS11: .BLKL 2 ; INADR ARGUMENT FOR LKWSET SERVICE
000000A9 00A1 142 RETADR_LWS: .BLKL 2 ; RETADR ARGUMENT FOR LKWSET SERVICE
000000B1 00A9 143 INADR_UWS: .BLKL 2 ; INADR ARGUMENT FOR ULWSET SERVICE
000000B9 00B1 144 INADR_UWS11: .BLKL 2 ; INADR ARGUMENT FOR ULWSET SERVICE
000000C1 00B9 145 RETADR_UWS: .BLKL 2 ; RETADR ARGUMENT FOR ULWSET SERVICE
000000C9 00C1 146 INADR_LKP: .BLKL 2 ; INADR ARGUMENT FOR LCKPAG SERVICE
000000D1 00C9 147 INADR_LKP11: .BLKL 2 ; INADR ARGUMENT FOR LCKPAG SERVICE
000000D9 00D1 148 RETADR_LKP: .BLKL 2 ; RETADR ARGUMENT FOR LCKPAG SERVICE
000000E1 00D9 149 INADR_OLP: .BLKL 2 ; INADR ARGUMENT FOR ULKPAG SERVICE
000000E9 00E1 150 INADR_ULP11: .BLKL 2 ; INADR ARGUMENT FOR ULKPAG SERVICE
000000F1 00E9 151 RETADR_ULP: .BLKL 2 ; RETADR ARGUMENT FOR ULKPAG SERVICE
```

```

00000000 153 .PSECT SATS ACCVIO_1,RD,WRT,NOEXE,PAGE
00000200 0000 154 EMPTY: .BLKB 512 ; RESERVE A PAGE OF SPACE
0200 155 :
0200 156 : +
0200 157 : *****
0200 158 : *
0200 159 : * THE ORDER OF STATEMENTS IN THIS PSECT IS CRITICAL. *
0200 160 : * DO NOT RE-ARRANGE THE VARIABLES. CONSULT SATS *
0200 161 : * FUNCTIONAL SPECIFICATION FOR A DESCRIPTION OF THE USE *
0200 162 : * OF THE EMPTY PSECT (AND ITS COMPANION PSECT, NOACCESS). *
0200 163 : *
0200 164 : *****
0200 165 : -
0200 166 :
0200 167 : TYPE AAAAA_SSSX1 (TYPE AAAAA_SSSX2 IF NOT DESC) GO HERE:
000001FF 0200 168 INADR_ULP10 = . - 1 ; INADR ARG FOR ULKPAG (LAST BYTE IN PAGE)
000001F9 0200 169 INADR_LWS14 = . - 7 ; INADR ARGUMENT FOR LKWSET
000001F9 0200 170 RETADR_LWS22 = . - 7 ; RETADR ARGUMENT FOR LKWSET
000001F9 0200 171 INADR_UWS14 = . - 7 ; INADR ARGUMENT FOR ULWSET
000001F9 0200 172 RETADR_UWS22 = . - 7 ; RETADR ARGUMENT FOR ULWSET
000001F9 0200 173 INADR_LKP14 = . - 7 ; INADR ARGUMENT FOR LCKPAG
000001F9 0200 174 RETADR_LKP22 = . - 7 ; RETADR ARGUMENT FOR LCKPAG
000001F9 0200 175 INADR_OLP14 = . - 7 ; INADR ARGUMENT FOR ULKPAG
000001F9 0200 176 RETADR_ULP22 = . - 7 ; RETADR ARGUMENT FOR ULKPAG
000001F3 0200 177 = . - 13 ; ALLOW ROOM FOR STRING DESCRIPTOR
01F3 178 ; TYPE AAAAA_SSSX5 GO HERE:
00000006 01F3 179 .LONG 6 ; STRING LENGTH (WILL CROSS PSECT BOUNDARY)
000001FB' 01F7 180 .ADDRESS +4 ; STRING ADDRESS
01FB 181 ; TYPE AAAAA_SSSX3 GO HERE:
000001FC 01FB 182 .BLKB 1 ; LOW-ORDER BYTE OF STRING LENGTH
01FC 183 ; TYPE AAAAA_SSSX2 GO HERE:
00000200 01FC 184 .BLKL 1 ; STRING LENGTH
0200 185 :
0200 186 :
0200 187 :
0200 188 :
00000000 189 .PSECT SATS ACCVIO_2,RD,WRT,NOEXE,PAGE
00000200 0000 190 NOACCESS: .BLKB 512 ; RESERVE A PAGE OF SPACE
00000000 0200 191 = . - 512 ; RETURN LOC CTR TO BEGINNING OF PSECT
00000000' 0000 192 .ADDRESS EMPTY ; ADDRESS OF ACCESSIBLE STRING
00000000' 0004 193 .ADDRESS EMPTY/^X100 ; ADDRESS OF ACCESSIBLE STRING
0008 194 : +
0008 195 : *** NOTE -- DO NOT CHANGE LOCATION OR SEQUENCE OF ABOVE STATEMENTS!
0008 196 : *** THIS PSECT (NOACCESS) MUST APPEAR IN MEMORY IMMEDIATELY
0008 197 : *** FOLLOWING THE EMPTY PSECT. PSECT NAMES AND OPTIONS WILL BE
0008 198 : *** CHOSEN TO FORCE THE DESIRED PSECT ORDERING.
0008 199 : -
0008 200 :
00000010 0008 201 INADR_LWS13: .BLKL 2 ; INADR ARGUMENT FOR LKWSET
00000018 0010 202 INADR_UWS13: .BLKL 2 ; INADR ARGUMENT FOR ULWSET
00000020 0018 203 INADR_LKP13: .BLKL 2 ; INADR ARGUMENT FOR LCKPAG
00000028 0020 204 INADR_ULP13: .BLKL 2 ; INADR ARGUMENT FOR ULKPAG
0028 205 :
0028 206 :
0028 207 :
00000000 208 .PSECT SATSSF14,RD,WRT,EXE, LONG

```



```
0000 210 .SBTTL SATSSF14
0000 211 :++
0000 212 : FUNCTIONAL DESCRIPTION:
0000 213 :
0000 214 : AFTER PERFORMING SOME INITIAL HOUSEKEEPING, SUCH AS
0000 215 : PRINTING THE MODULE BEGIN MESSAGE AND ACQUIRING ALL PRIVILEGES,
0000 216 : THE SATSSF14 ROUTINE EXECUTES THE TEST SERV EXEC MACRO TO RUN
0000 217 : ALL TEST CASES. WHEN THE MACRO COMPLETES ITS EXECUTION, SATSSF14
0000 218 : PRINTS A TEST MODULE SUCCESS OR FAIL MESSAGE AND EXITS TO THE
0000 219 : OPERATING SYSTEM. TEST SERV EXEC CALLS THE TC CONTROL/TESTSERV
0000 220 : CO-ROUTINE PAIR ONCE PER TEST CASE GROUP TO EXECUTE ALL TEST
0000 221 : CASES IN THAT GROUP. EACH TEST CASE GROUP IS DEFINED BY BOUNDING
0000 222 : ITS TEST CASES WITH A TC_GROUP MACRO BEFORE THE FIRST TEST CASE
0000 223 : AND A TCEND MACRO AFTER THE LAST ONE. THE TEST CASES THEMSELVES
0000 224 : ARE DEFINED WITHIN THESE BOUNDS BY PRECEDING EACH WITH A
0000 225 : NEXT_TEST_CASE MACRO. TC_CONTROL/TESTSERV EXECUTES THE CODE
0000 226 : FOLLOWING EACH NEXT_TEST_CASE MACRO IMMEDIATELY BEFORE ISSUING
0000 227 : THE SYSTEM SERVICE AS REQUESTED IN THE TESTSERV MACRO. TC_CONTROL/
0000 228 : TESTSERV ALSO CHECKS THE RESULTS OF THE SERVICE WITH RESPECT
0000 229 : TO ITS EXPECTED STATUS CODE AND PRINTS ANY REQUIRED FAILURE
0000 230 : MESSAGES FOR THE TEST CASE. THE CODE APPEARING AFTER EACH
0000 231 : NEXT_TEST_CASE MACRO IS MERELY TO SET UP CONDITIONS REQUIRED
0000 232 : FOR THE SYSTEM SERVICE AND TO CLEAN UP ANY RESOURCES ACQUIRED
0000 233 : BY THE PREVIOUS TEST CASE.
0000 234 :
0000 235 : CALLING SEQUENCE:
0000 236 :
0000 237 : $ RUN SATSSF14 ... (DCL COMMAND)
0000 238 :
0000 239 : INPUT PARAMETERS:
0000 240 :
0000 241 : NONE
0000 242 :
0000 243 : IMPLICIT INPUTS:
0000 244 :
0000 245 : NONE
0000 246 :
0000 247 : OUTPUT PARAMETERS:
0000 248 :
0000 249 : NONE
0000 250 :
0000 251 : IMPLICIT OUTPUTS:
0000 252 :
0000 253 : MESSAGES TO SYSS$OUTPUT ARE THE ONLY OUTPUT FROM SATSSF14.
0000 254 : THEY ARE OF THE FORM:
0000 255 :
0000 256 : %UETP-S-SATSMS, TEST MODULE SATSSF14 BEGUN ... (BEGIN MSG)
0000 257 : %UETP-S-SATSMS, TEST MODULE SATSSF14 SUCCESSFUL ... (END MSG)
0000 258 : %UETP-E-SATSMS, TEST MODULE SATSSF14 FAILED ... (END MSG)
0000 259 : %UETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
0000 260 :
0000 261 : COMPLETION CODES:
0000 262 :
0000 263 : THE SATSSF14 ROUTINE TERMINATES WITH A $EXIT TO THE
0000 264 : OPERATING SYSTEM WITH A STATUS CODE DEFINED BY UETP$_SATSMS.
0000 265 :
0000 266 : SIDE EFFECTS:
```

```

0000 267 :
0000 268 : NONE
0000 269 :
0000 270 :--
0000 271 :
0000 272 :
0000 273 :
0000 274 SATSSF14:
OFFC 0000 275 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
0002 276 : ENTRY MASK
0002 277 $WAKE S TPID : GET PID OF THIS PROCESS
0011 278 $HIBER S : UNDO WAKE
0018 279 $SETPRN_S TEST MOD NAME_D : SET PROCESS NAME
0025 280 BSBW MOD MSG PRINT : PRINT TEST MODULE BEGIN MSG
0028 281 MOVAL TEST MOD_SUCC,TMD ADDR : ASSUME END MSG WILL SHOW SUCCESS
0033 282 INSV #SUCCESS,#0,#3,MOD_MSG_CODE : ADJUST STATUS CODE FOR SUCCESS
003C 283 MODE TO,10$,KRNL,NOREGS : KERNEL MODE TO ACCESS PHD
59 00000000'9F DO 0059 284 MOVL @#CTL$GL PHD,R9 : GET PROCESS HEADER ADDRESS
00000044'EF 03 00 01 FO 0033 282
00000071'EF 69 DE 0060 285 MOVAL PHD$Q PRIVMSK(R9),PRIVMASK : GET PRIV MASK ADDRESS
0067 286 MODE FROM,T0$ : GET BACK TO USER MODE
0068 287 PRIV ADD,ALL : GET ALL PRIVILEGES
0088 288 DISPSERV : SET UP DISPLAY INFO FOR TESTSERV
021D 289 $SETPRT_S INADR=INADR, RETADR=RETADR, -
021E 290 PROT=PROT, PRVPRT=PRVPRT
023E 291 : SET NOACCESS PSECT ...
023E 292 : ... FOR NO USER ACCESS
OB5C 31 023E 293 BRW EXECUTE : GO EXECUTE ALL TEST CASES
0241 294 :
0241 295 : TC_GROUP LWS,1,TS1
0268 296 :
0268 297 : NEXT_TEST_CASE SFLWS10

```

```
0268 298 :  
0268 299 :++  
0268 300 :*****  
0268 301 :*  
0268 302 :* TEST CASE NAME: SFLWS10  
0268 303 :*  
0268 304 :* SYSTEM SERVICE: LKWSET  
0268 305 :*  
0268 306 :* ARGUMENT UNDER TEST: INADR_LWS10  
0268 307 :*  
0268 308 :* INPUT CONDITIONS:  
0268 309 :* ISSUE LKWSET WITH RANGE OF ADDRESSES IN  
0268 310 :* SYSTEM SPACE.  
0268 311 :*  
0268 312 :* EXPECTED RESULTS:  
0268 313 :* 1) SYSTEM STATUS CODE: NOPRIV  
0268 314 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0268 315 :*  
0268 316 :*  
0268 317 :*  
0268 318 :*  
0268 319 :*  
0268 320 :* NEXT_TEST_CASE SFLWS11
```

```
0274 321 :  
0274 322 :  
0274 323 :*****  
0274 324 :*  
0274 325 :* TEST CASE NAME: SFLWS11  
0274 326 :*  
0274 327 :* SYSTEM SERVICE: LKWSET  
0274 328 :*  
0274 329 :* ARGUMENT UNDER TEST: INADR_LWS11  
0274 330 :*  
0274 331 :* INPUT CONDITIONS:  
0274 332 :* LOCK INTO WORKING SET A PAGE ALREADY  
0274 333 :* OWNED BY EXEC MODE.  
0274 334 :*  
0274 335 :* EXPECTED RESULTS:  
0274 336 :* 1) SYSTEM STATUS CODE: ACCVIO  
0274 337 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0274 338 :*  
0274 339 :*****  
0274 340 :--  
0274 341 :  
0274 342 : MODE TO,10$,EXEC,NOREGS ; GET INTO EXEC MODE FOR EXPREG  
0291 343 : $EXPREG_S PAGCNT=#1, RETADR=INADR_LWS11  
02A4 344 : ; GET A 1-PAGE REGION OWNED BY EXEC MODE  
02A4 345 : MODE FROM,10$ ; BACK TO USER MODE  
02A5 346 :  
02A5 347 : NEXT_TEST_CASE SFLWS12
```

```
02B1 348 :  
02B1 349 :+  
02B1 350 :*****  
02B1 351 :*  
02B1 352 :* TEST CASE NAME: SFLWS12  
02B1 353 :*  
02B1 354 :* SYSTEM SERVICE: LKWSET  
02B1 355 :*  
02B1 356 :* ARGUMENT UNDER TEST: INADR_LWS12  
02B1 357 :*  
02B1 358 :* INPUT CONDITIONS:  
02B1 359 :* INPUT ADDRESS FIELD AT LOCATION 0.  
02B1 360 :*  
02B1 361 :* EXPECTED RESULTS:  
02B1 362 :* 1) SYSTEM STATUS CODE: ACCVIO  
02B1 363 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
02B1 364 :*  
02B1 365 :*****  
02B1 366 :--  
02B1 367 :  
02B1 368 : MODE TO,20$,EXEC,NOREGS ; INTO EXEC MODE FOR CNTREG  
02CE 369 : $CNTREG_S PAGCNT=#1 ; GIVE BACK PAGE ACQUIRED BY SFLWS11  
02DD 370 : MODE FROM,20$ ; BACK TO USER MODE  
02DE 371 :  
02DE 372 : NEXT_TEST_CASE SFLWS13
```

```
02EA 373 :
02EA 374 :+
02EA 375 :*****
02EA 376 :*
02EA 377 :* TEST CASE NAME: SFLWS13
02EA 378 :*
02EA 379 :* SYSTEM SERVICE: LKWSET
02EA 380 :*
02EA 381 :* ARGUMENT UNDER TEST: INADR_LWS13
02EA 382 :*
02EA 383 :* INPUT CONDITIONS:
02EA 384 :* INPUT ADDRESS FIELD IN NON-ACCESSIBLE PSECT.
02EA 385 :*
02EA 386 :* EXPECTED RESULTS:
02EA 387 :* 1) SYSTEM STATUS CODE: ACCVIC
02EA 388 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
02EA 389 :*
02EA 390 :*****
02EA 391 :--
02EA 392 :
02EA 393 :
02EA 394 : NEXT_TEST_CASE SFLWS14
```

```
02F6 395 :  
02F6 396 :+  
02F6 397 :*****  
02F6 398 :*  
02F6 399 :* TEST CASE NAME: SFLWS14  
02F6 400 :*  
02F6 401 :* SYSTEM SERVICE: LKWSET  
02F6 402 :*  
02F6 403 :* ARGUMENT UNDER TEST: INADR_LWS14  
02F6 404 :*  
02F6 405 :* INPUT CONDITIONS:  
02F6 406 :* SECOND LONGWORD OF INPUT ADDRESS FIELD BEGINS IN  
02F6 407 :* ACCESSIBLE PSECT, ENDS IN NON-ACCESSIBLE PSECT.  
02F6 408 :*  
02F6 409 :* EXPECTED RESULTS:  
02F6 410 :* 1) SYSTEM STATUS CODE: ACCVIO  
02F6 411 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
02F6 412 :*  
02F6 413 :*****  
02F6 414 :--  
02F6 415 :  
02F6 416 :  
02F6 417 : NEXT_TEST_CASE SFLWS20
```

```
0302 418 :  
0302 419 :++  
0302 420 :*****  
0302 421 :*  
0302 422 :* TEST CASE NAME: SFLWS20  
0302 423 :*  
0302 424 :* SYSTEM SERVICE: LKWSET  
0302 425 :*  
0302 426 :* ARGUMENT UNDER TEST: RETADR_LWS20  
0302 427 :*  
0302 428 :* INPUT CONDITIONS:  
0302 429 :* RETURN ADDRESS FIELD AT LOCATION 1.  
0302 430 :*  
0302 431 :* EXPECTED RESULTS:  
0302 432 :* 1) SYSTEM STATUS CODE: ACCVIO  
0302 433 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0302 434 :*  
0302 435 :* *****  
0302 436 :*  
0302 437 :*  
0302 438 :*  
0302 439 :* NEXT_TEST_CASE SFLWS21
```



```
030E 440 :
030E 441 :++
030E 442 :*****
030E 443 :*
030E 444 :* TEST CASE NAME: SFLWS21
030E 445 :*
030E 446 :* SYSTEM SERVICE: LKWSET
030E 447 :*
030E 448 :* ARGUMENT UNDER TEST: RETADR_LWS21
030E 449 :*
030E 450 :* INPUT CONDITIONS:
030E 451 :* RETURN ADDRESS FIELD IN READ-ONLY PSECT.
030E 452 :*
030E 453 :* EXPECTED RESULTS:
030E 454 :* 1) SYSTEM STATUS CODE: ACCVIO
030E 455 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
030E 456 :*
030E 457 :*-----
030E 458 :--
030E 459 :
030E 460 :
030E 461 : NEXT_TEST_CASE SFLWS22
```

```
031A 462 :  
031A 463 :+  
031A 464 :*****  
031A 465 :*  
031A 466 :* TEST CASE NAME: SFLWS22  
031A 467 :*  
031A 468 :* SYSTEM SERVICE: LKWSET  
031A 469 :*  
031A 470 :* ARGUMENT UNDER TEST: RETADR_LWS22  
031A 471 :*  
031A 472 :* INPUT CONDITIONS:  
031A 473 :* SECOND LONGWORD OF RETURN ADDRESS FIELD BEGINS IN  
031A 474 :* ACCESSIBLE PSECT, ENDS IN NON-ACCESSIBLE PSECT.  
031A 475 :*  
031A 476 :* EXPECTED RESULTS:  
031A 477 :* 1) SYSTEM STATUS CODE: ACCVIO  
031A 478 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
031A 479 :*  
031A 480 :*****  
031A 481 :--  
031A 482 :  
031A 483 :  
031A 484 : TCEND
```

SATSSF14
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. ^{M 10} 16-SEP-1984 00:42:33 VAX/VMS Macro V04-00
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031B	485	:		
031B	486	:	TC_GROUP	UWS.1.TS2
0342	487	:		
0342	488	:	NEXT_TEST_CASE	SFUWS10

```
0342 489 :  
0342 490 :++  
0342 491 :*****  
0342 492 :*  
0342 493 :* TEST CASE NAME: SFUWS10  
0342 494 :*  
0342 495 :* SYSTEM SERVICE: ULWSET  
0342 496 :*  
0342 497 :* ARGUMENT UNDER TEST: INADR_UWS10  
0342 498 :*  
0342 499 :* INPUT CONDITIONS:  
0342 500 :* ISSUE ULWSET WITH RANGE OF ADDRESSES IN  
0342 501 :* SYSTEM SPACE.  
0342 502 :*  
0342 503 :* EXPECTED RESULTS:  
0342 504 :* 1) SYSTEM STATUS CODE: NOPRIV  
0342 505 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0342 506 :*  
0342 507 :******  
0342 508 :*  
0342 509 :*  
0342 510 :*  
0342 511 :*  
NEXT_TEST_CASE SFUWS11
```

```
034E 512 :  
034E 513 :++  
034E 514 :*****  
034E 515 :*  
034E 516 :* TEST CASE NAME: SFUWS11  
034E 517 :*  
034E 518 :* SYSTEM SERVICE: ULWSET  
034E 519 :*  
034E 520 :* ARGUMENT UNDER TEST: INADR_UWS11  
034E 521 :*  
034E 522 :* INPUT CONDITIONS:  
034E 523 :* UNLOCK A PAGE ALREADY OWNED BY EXEC MODE.  
034E 524 :*  
034E 525 :* EXPECTED RESULTS:  
034E 526 :* 1) SYSTEM STATUS CODE: ACCVIO  
034E 527 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
034E 528 :*  
034E 529 :*****  
034E 530 :--  
034E 531 :  
034E 532 :* MODE TO,10$,EXEC,NOREGS ; GET INTO EXEC MODE FOR EXPREG  
036B 533 :* $EXPREG_S PAGCNT=#1, RETADR=INADR_UWS11 ;  
037E 534 :* ; GET A 1-PAGE REGION OWNED BY EXEC MODE  
037E 535 :* MODE FROM,10$ ; BACK TO USER MODE  
037F 536 :  
037F 537 : NEXT_TEST_CASE SFUWS12
```

```
0388 538 :  
0388 539 :++  
0388 540 :*****  
0388 541 :*  
0388 542 :* TEST CASE NAME: SFUWS12  
0388 543 :*  
0388 544 :* SYSTEM SERVICE: ULWSET  
0388 545 :*  
0388 546 :* ARGUMENT UNDER TEST: INADR_UWS12  
0388 547 :*  
0388 548 :* INPUT CONDITIONS:  
0388 549 :* INPUT ADDRESS FIELD AT LOCATION 0.  
0388 550 :*  
0388 551 :* EXPECTED RESULTS:  
0388 552 :* 1) SYSTEM STATUS CODE: ACCVIO  
0388 553 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0388 554 :*  
0388 555 :*****  
0388 556 :--  
0388 557 :  
0388 558 : MODE TO,20$,EXEC,NOREGS ; INTO EXEC MODE FOR CNTREG  
03A8 559 : $CNTREG_S PAGCNT=#1 ; GIVE BACK PAGE ACQUIRED BY SFUWS11  
03B7 560 : MODE FROM,20$ ; BACK TO USER MODE  
0388 561 :  
0388 562 : NEXT_TEST_CASE SFUWS13
```

```
03C4 563 :
03C4 564 :++
03C4 565 :*****
03C4 566 :*
03C4 567 :* TEST CASE NAME: SFUWS13
03C4 568 :*
03C4 569 :* SYSTEM SERVICE: ULWSET
03C4 570 :*
03C4 571 :* ARGUMENT UNDER TEST: INADR_UWS13
03C4 572 :*
03C4 573 :* INPUT CONDITIONS:
03C4 574 :* INPUT ADDRESS FIELD IN NON-ACCESSIBLE PSECT.
03C4 575 :*
03C4 576 :* EXPECTED RESULTS:
03C4 577 :* 1) SYSTEM STATUS CODE: ACCVIO
03C4 578 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
03C4 579 :*
03C4 580 :*****
03C4 581 :--
03C4 582 :
03C4 583 :
03C4 584 : NEXT_TEST_CASE SFUWS14
```

```
03D0 585 :  
03D0 586 :++  
03D0 587 :*****  
03D0 588 :*  
03D0 589 :* TEST CASE NAME: SFUWS14  
03D0 590 :*  
03D0 591 :* SYSTEM SERVICE: ULWSET  
03D0 592 :*  
03D0 593 :* ARGUMENT UNDER TEST: INADR_UWS14  
03D0 594 :*  
03D0 595 :* INPUT CONDITIONS:  
03D0 596 :* SECOND LONGWORD OF INPUT ADDRESS FIELD BEGINS IN  
03D0 597 :* ACCESSIBLE PSECT, ENDS IN NON-ACCESSIBLE PSECT.  
03D0 598 :*  
03D0 599 :* EXPECTED RESULTS:  
03D0 600 :* 1) SYSTEM STATUS CODE: ACCVIO  
03D0 601 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
03D0 602 :*  
03D0 603 :*****  
03D0 604 :--  
03D0 605 :  
03D0 606 :  
03D0 607 : NEXT_TEST_CASE SFUWS20
```



```
03DC 608 :  
03DC 609 :++  
03DC 610 :*****  
03DC 611 :*  
03DC 612 :* TEST CASE NAME: SFUWS20  
03DC 613 :*  
03DC 614 :* SYSTEM SERVICE: ULWSET  
03DC 615 :*  
03DC 616 :* ARGUMENT UNDER TEST: RETADR_UWS20  
03DC 617 :*  
03DC 618 :* INPUT CONDITIONS:  
03DC 619 :* RETURN ADDRESS FIELD AT LOCATION 1.  
03DC 620 :*  
03DC 621 :* EXPECTED RESULTS:  
03DC 622 :* 1) SYSTEM STATUS CODE: ACCVIO  
03DC 623 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
03DC 624 :*  
03DC 625 :*****  
03DC 626 :--  
03DC 627 :  
03DC 628 :  
03DC 629 : NEXT_TEST_CASE SFUWS21
```

```
03E8 630 :  
03E8 631 :++  
03E8 632 :*****  
03E8 633 :*  
03E8 634 :* TEST CASE NAME: SFUWS21  
03E8 635 :*  
03E8 636 :* SYSTEM SERVICE: ULWSET  
03E8 637 :*  
03E8 638 :* ARGUMENT UNDER TEST: RETADR_UWS21  
03E8 639 :*  
03E8 640 :* INPUT CONDITIONS:  
03E8 641 :* RETURN ADDRESS FIELD IN READ-ONLY PSECT.  
03E8 642 :*  
03E8 643 :* EXPECTED RESULTS:  
03E8 644 :* 1) SYSTEM STATUS CODE: ACCVIO  
03E8 645 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
03E8 646 :*  
03E8 647 :*****  
03E8 648 :--  
03E8 649 :  
03E8 650 :  
03E8 651 : NEXT_TEST_CASE SFUWS22
```

03F4 652 :
03F4 653 :++
03F4 654 :*****
03F4 655 :*
03F4 656 :* TEST CASE NAME: SFUWS22
03F4 657 :*
03F4 658 :* SYSTEM SERVICE: ULWSET

```
03F4 660 : *  
03F4 661 : * ARGUMENT UNDER TEST:      RETADR_UWS22  
03F4 662 : *  
03F4 663 : * INPUT CONDITIONS:  
03F4 664 : *   SECOND LONGWORD OF RETURN ADDRESS FIELD BEGINS IN  
03F4 665 : *   ACCESSIBLE PSECT, ENDS IN NON-ACCESSIBLE PSECT.  
03F4 666 : *  
03F4 667 : * EXPECTED RESULTS:  
03F4 668 : *   1) SYSTEM STATUS CODE:  ACCVIO  
03F4 669 : *   2) REGISTERS R2 THROUGH FP UNCHANGED  
03F4 670 : *  
03F4 671 : * *****  
03F4 672 : *  
03F4 673 : *  
03F4 674 : *  
03F4 675 : *  
TCEND
```

SATSSF14
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. ^{J 11} 16-SEP-1984 00:42:33 VAX/VMS Macro V04-00 Page 26
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03F5	676 :		
03F5	677 :	TC_GROUP	LKP,1,TS3
041C	678 :		
041C	679 :	NEXT_TEST_CASE	SFLKP10

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```
041C 680 :  
041C 681 :++  
041C 682 :*****  
041C 683 :*  
041C 684 :* TEST CASE NAME: SFLKP10  
041C 685 :*  
041C 686 :* SYSTEM SERVICE: LCKPAG  
041C 687 :*  
041C 688 :* ARGUMENT UNDER TEST: INADR_LKP10  
041C 689 :*  
041C 690 :* INPUT CONDITIONS:  
041C 691 :* LOCK PAGE INTO MEMORY WITHOUT PROPER PRIVILEGE.  
041C 692 :*  
041C 693 :* EXPECTED RESULTS:  
041C 694 :* 1) SYSTEM STATUS CODE: NOPRIV  
041C 695 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
041C 696 :*  
041C 697 :*****  
041C 698 :--  
041C 699 :  
041C 700 : PRIV REM,PSWAPM ; REMOVE PRIV REQUIRED TO LOCK PAGES  
043C 701 :  
043C 702 : NEXT_TEST_CASE SFLKP11
```

```
0448 703 :
0448 704 :++
0448 705 :*****
0448 706 :*
0448 707 :* TEST CASE NAME:          SFLKP11
0448 708 :*
0448 709 :* SYSTEM SERVICE:         LCKPAG
0448 710 :*
0448 711 :* ARGUMENT UNDER TEST:   INADR_LKP11
0448 712 :*
0448 713 :* INPUT CONDITIONS:
0448 714 :*   LOCK A PAGE ALREADY OWNED BY EXEC MODE.
0448 715 :*
0448 716 :* EXPECTED RESULTS:
0448 717 :*   1) SYSTEM STATUS CODE: ACCVIO
0448 718 :*   2) REGISTERS R2 THROUGH FP UNCHANGED
0448 719 :*
0448 720 :*****
0448 721 :--
0448 722 :
0448 723 :   PRIV  ADD,PSWAPM          ; GET BACK PRIVILEGE REMOVED BY SFLKP10
0468 724 :   MODE  TO,10$,EXEC,NOREGS ; GET INTO EXEC MODE FOR EXPREG
0485 725 :   $EXPREG_S PAGCNT=#1, RETADR=INADR_LKP11
0498 726 :   ; GET A 1-PAGE REGION OWNED BY EXEC MODE
0498 727 :   MODE  FROM,10$          ; BACK TO USER MODE
0499 728 :
0499 729 :   NEXT_TEST_CASE  SFLKP12
```

```
04A5 730 :
04A5 731 :++
04A5 732 :*****
04A5 733 :*
04A5 734 :* TEST CASE NAME:          SFLKP12
04A5 735 :*
04A5 736 :* SYSTEM SERVICE:          LCKPAG
04A5 737 :*
04A5 738 :* ARGUMENT UNDER TEST:     INADR_LKP12
04A5 739 :*
04A5 740 :* INPUT CONDITIONS:
04A5 741 :*   INPUT ADDRESS FIELD AT LOCATION 0.
04A5 742 :*
04A5 743 :* EXPECTED RESULTS:
04A5 744 :*   1) SYSTEM STATUS CODE: ACCVIO
04A5 745 :*   2) REGISTERS R2 THROUGH FP UNCHANGED
04A5 746 :*
04A5 747 :*****
04A5 748 :--
04A5 749 :
04A5 750 :   MODE      TO,20$,EXEC,NOREGS      ; INTO EXEC MODE FOR CNTREG
04C2 751 :   $CNTREG_S PAGCNT=#1              ; GIVE BACK PAGE ACQUIRED BY SFLKP11
04D1 752 :   MODE      FROM,20$                ; BACK TO USER MODE
04D2 753 :
04D2 754 :   NEXT_TEST_CASE  SFLKP13
```



```
04DE 755 :  
04DE 756 :++  
04DE 757 :*****  
04DE 758 :*  
04DE 759 :* TEST CASE NAME: SFLKP13  
04DE 760 :*  
04DE 761 :* SYSTEM SERVICE: LCKPAG  
04DE 762 :*  
04DE 763 :* ARGUMENT UNDER TEST: INADR_LKP13  
04DE 764 :*  
04DE 765 :* INPUT CONDITIONS:  
04DE 766 :* INPUT ADDRESS FIELD IN NON-ACCESSIBLE PSECT.  
04DE 767 :*  
04DE 768 :* EXPECTED RESULTS:  
04DE 769 :* 1) SYSTEM STATUS CODE: ACCVIO  
04DE 770 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
04DE 771 :*  
04DE 772 :*****  
04DE 773 :--  
04DE 774 :*  
04DE 775 :*  
04DE 776 :* NEXT_TEST_CASE SFLKP14
```

```
04EA 777 :  
04EA 778 :++  
04EA 779 :*****  
04EA 780 :*  
04EA 781 :* TEST CASE NAME: SFLKP14  
04EA 782 :*  
04EA 783 :* SYSTEM SERVICE: LCKPAG  
04EA 784 :*  
04EA 785 :* ARGUMENT UNDER TEST: INADR_LKP14  
04EA 786 :*  
04EA 787 :* INPUT CONDITIONS:  
04EA 788 :* SECOND LONGWORD OF INPUT ADDRESS FIELD BEGINS IN  
04EA 789 :* ACCESSIBLE PSECT, ENDS IN NON-ACCESSIBLE PSECT.  
04EA 790 :*  
04EA 791 :* EXPECTED RESULTS:  
04EA 792 :* 1) SYSTEM STATUS CODE: ACCVIO  
04EA 793 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
04EA 794 :*  
04EA 795 :*****  
04EA 796 :--  
04EA 797 :  
04EA 798 :  
04EA 799 : NEXT_TEST_CASE SFLKP20
```

```
04F6 800 :  
04F6 801 :++  
04F6 802 :*****  
04F6 803 :*  
04F6 804 :* TEST CASE NAME: SFLKP20  
04F6 805 :*  
04F6 806 :* SYSTEM SERVICE: LCKPAG  
04F6 807 :*  
04F6 808 :* ARGUMENT UNDER TEST: RETADR_LKP20  
04F6 809 :*  
04F6 810 :* INPUT CONDITIONS:  
04F6 811 :* RETURN ADDRESS FIELD AT LOCATION 1.  
04F6 812 :*  
04F6 813 :* EXPECTED RESULTS:  
04F6 814 :* 1) SYSTEM STATUS CODE: ACCVIO  
04F6 815 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
04F6 816 :*  
04F6 817 :*****  
04F6 818 :--  
04F6 819 :  
04F6 820 :  
04F6 821 : NEXT_TEST_CASE SFLKP21
```

```
0502 822 :  
0502 823 :++  
0502 824 :*****  
0502 825 :*  
0502 826 :* TEST CASE NAME: SFLKP21  
0502 827 :*  
0502 828 :* SYSTEM SERVICE: LCKPAG  
0502 829 :*  
0502 830 :* ARGUMENT UNDER TEST: RETADR_LKP21  
0502 831 :*  
0502 832 :* INPUT CONDITIONS:  
0502 833 :* RETURN ADDRESS FIELD IN READ-ONLY PSECT.  
0502 834 :*  
0502 835 :* EXPECTED RESULTS:  
0502 836 :* 1) SYSTEM STATUS CODE: ACCVIO  
0502 837 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0502 838 :*  
0502 839 :*****  
0502 840 :--  
0502 841 :  
0502 842 :  
0502 843 : NEXT_TEST_CASE SFLKP22
```

```
050E 844 :  
050E 845 :++  
050E 846 :*****  
050E 847 :*  
050E 848 :* TEST CASE NAME: SFLKP22  
050E 849 :*  
050E 850 :* SYSTEM SERVICE: LCKPAG  
050E 851 :*  
050E 852 :* ARGUMENT UNDER TEST: RETADR_LKP22  
050E 853 :*  
050E 854 :* INPUT CONDITIONS:  
050E 855 :* SECOND LONGWORD OF RETURN ADDRESS FIELD BEGINS IN  
050E 856 :* ACCESSIBLE PSECT, ENDS IN NON-ACCESSIBLE PSECT.  
050E 857 :*  
050E 858 :* EXPECTED RESULTS:  
050E 859 :* 1) SYSTEM STATUS CODE: ACCVIO  
050E 860 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
050E 861 :*  
050E 862 :*****  
050E 863 :--  
050E 864 :  
050E 865 :  
050E 866 : TCEND
```

SATSSF14
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. ^{F 12} 16-SEP-1984 00:42:33 VAX/VMS Macro V04-00
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050F	867	:		
050F	868	:	TC_GROUP	ULP,1,TS4
0536	869	:		
0536	870	:	NEXT_TEST_CASE	SFULP10

```
0536 871 :  
0536 872 :++  
0536 873 :*****  
0536 874 :*  
0536 875 :* TEST CASE NAME: SFULP10  
0536 876 :*  
0536 877 :* SYSTEM SERVICE: ULKPAG  
0536 878 :*  
0536 879 :* ARGUMENT UNDER TEST: INADR_ULP10  
0536 880 :*  
0536 881 :* INPUT CONDITIONS:  
0536 882 :* FIRST LONGWORD OF INPUT ADDRESS ARRAY BEGINS IN  
0536 883 :* ACCESSIBLE PSECT, ENDS IN NON-ACCESSIBLE PSECT.  
0536 884 :*  
0536 885 :* EXPECTED RESULTS:  
0536 886 :* 1) SYSTEM STATUS CODE: ACCVIO  
0536 887 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0536 888 :*  
0536 889 :*****  
0536 890 :--  
0536 891 :  
0536 892 :  
0536 893 : NEXT_TEST_CASE SFULP11
```

```
0542 894 :  
0542 895 :++  
0542 896 :*****  
0542 897 :*  
0542 898 :* TEST CASE NAME: SFULP11  
0542 899 :*  
0542 900 :* SYSTEM SERVICE: ULKPAG  
0542 901 :*  
0542 902 :* ARGUMENT UNDER TEST: INADR_ULP11  
0542 903 :*  
0542 904 :* INPUT CONDITIONS:  
0542 905 :* UNLOCK A PAGE ALREADY OWNED BY EXEC MODE.  
0542 906 :*  
0542 907 :* EXPECTED RESULTS:  
0542 908 :* 1) SYSTEM STATUS CODE: ACCVIO  
0542 909 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0542 910 :*  
0542 911 :*****  
0542 912 :--  
0542 913 :*  
0542 914 :* MODE TO,10$,EXEC,NOREGS ; GET INTO EXEC MODE FOR EXPREG  
055F 915 :* $EXPREG_S PAGCNT=#1, RETADR=INADR_ULP11 ;  
0572 916 :* ; GET A 1-PAGE REGION OWNED BY EXEC MODE  
0572 917 :* MODE FROM,10$ ; BACK TO USER MODE  
0573 918 :*  
0573 919 :* NEXT_TEST_CASE SFULP12
```



```
057F 920 :  
057F 921 :++  
057F 922 :*****  
057F 923 :*  
057F 924 :* TEST CASE NAME: SFULP12  
057F 925 :*  
057F 926 :* SYSTEM SERVICE: ULKPAG  
057F 927 :*  
057F 928 :* ARGUMENT UNDER TEST: INADR_ULP12  
057F 929 :*  
057F 930 :* INPUT CONDITIONS:  
057F 931 :* INPUT ADDRESS FIELD AT LOCATION 0.  
057F 932 :*  
057F 933 :* EXPECTED RESULTS:  
057F 934 :* 1) SYSTEM STATUS CODE: ACCVIO  
057F 935 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
057F 936 :*  
057F 937 :*****  
057F 938 :--  
057F 939 :  
057F 940 : MODE TO,20$,EXEC,NOREGS ; INTO EXEC MODE FOR CNTREG  
059C 941 : $CNTREG_S PAGCNT=#1 ; GIVE BACK PAGE ACQUIRED BY SFULP11  
05AB 942 : MODE FROM,20$ ; BACK TO USER MODE  
05AC 943 :  
05AC 944 : NEXT_TEST_CASE SFULP13
```

```
0588 945 :
0588 946 :++
0588 947 :*****
0588 948 :*
0588 949 :* TEST CASE NAME: SFULP13
0588 950 :*
0588 951 :* SYSTEM SERVICE: ULKPAG
0588 952 :*
0588 953 :* ARGUMENT UNDER TEST: INADR_ULP13
0588 954 :*
0588 955 :* INPUT CONDITIONS:
0588 956 :* INPUT ADDRESS FIELD IN NON-ACCESSIBLE PSECT.
0588 957 :*
0588 958 :* EXPECTED RESULTS:
0588 959 :* 1) SYSTEM STATUS CODE: ACCVIO
0588 960 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
0588 961 :*
0588 962 :*****
0588 963 :--
0588 964 :
0588 965 :
0588 966 : NEXT_TEST_CASE SFULP14
```

```
05C4 967 :  
05C4 968 :++  
05C4 969 :*****  
05C4 970 :*  
05C4 971 :* TEST CASE NAME: SFULP14  
05C4 972 :*  
05C4 973 :* SYSTEM SERVICE: ULKPAG  
05C4 974 :*  
05C4 975 :* ARGUMENT UNDER TEST: INADR_ULP14  
05C4 976 :*  
05C4 977 :* INPUT CONDITIONS:  
05C4 978 :* SECOND LONGWORD OF INPUT ADDRESS FIELD BEGINS IN  
05C4 979 :* ACCESSIBLE PSECT, ENDS IN NON-ACCESSIBLE PSECT.  
05C4 980 :*  
05C4 981 :* EXPECTED RESULTS:  
05C4 982 :* 1) SYSTEM STATUS CODE: ACCVIO  
05C4 983 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
05C4 984 :*  
05C4 985 :*****  
05C4 986 :--  
05C4 987 :  
05C4 988 :  
05C4 989 : NEXT_TEST_CASE SFULP20
```

```
05D0 990 :  
05D0 991 :++  
05D0 992 :*****  
05D0 993 :*  
05D0 994 :* TEST CASE NAME: SFULP20  
05D0 995 :*  
05D0 996 :* SYSTEM SERVICE: ULKPAG  
05D0 997 :*  
05D0 998 :* ARGUMENT UNDER TEST: RETADR_ULP20  
05D0 999 :*  
05D0 1000 :* INPUT CONDITIONS:  
05D0 1001 :* RETURN ADDRESS FIELD AT LOCATION 1.  
05D0 1002 :*  
05D0 1003 :* EXPECTED RESULTS:  
05D0 1004 :* 1) SYSTEM STATUS CODE: ACCVIO  
05D0 1005 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
05D0 1006 :*  
05D0 1007 :*****  
05D0 1008 :--  
05D0 1009 :  
05D0 1010 :  
05D0 1011 : NEXT_TEST_CASE SFULP21
```



```
05E8 1034 :  
05E8 1035 :++  
05E8 1036 :*****  
05E8 1037 :*  
05E8 1038 :* TEST CASE NAME: SFULP22  
05E8 1039 :*  
05E8 1040 :* SYSTEM SERVICE: ULKPAG  
05E8 1041 :*  
05E8 1042 :* ARGUMENT UNDER TEST: RETADR_ULP22  
05E8 1043 :*  
05E8 1044 :* INPUT CONDITIONS:  
05E8 1045 :* SECOND LONGWORD OF RETURN ADDRESS FIELD BEGINS IN  
05E8 1046 :* ACCESSIBLE PSECT, ENDS IN NON-ACCESSIBLE PSECT.  
05E8 1047 :*  
05E8 1048 :* EXPECTED RESULTS:  
05E8 1049 :* 1) SYSTEM STATUS CODE: ACCVIO  
05E8 1050 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
05E8 1051 :*  
05E8 1052 :*****  
05E8 1053 :--  
05E8 1054 :  
05E8 1055 :  
05E8 1056 : TCEND
```

SA
SY
SY
SY
SY
SY
SY
SY
SY
SY
SY
SY
SY
SY
SY
SY
TC
TC
TC
TC
TC
TC
TE
TE
TE
TE
TM
TM
TP
TS
TS
TS
TS
TT
UE
UE
WA

PS
--
:
SA
RO
RW
SA
SA
SA

```
05E9 1057 TS1:
05E9 1058 TESTSERV LKWSET,ERR,SATS,
05E9 1059
05E9 1060 <1,INADR_LWS,
05E9 1061 INADR_LWS10,NOPRIV, - ; SFLWS10
05E9 1062 INADR_LWS11,ACCVIO, - ; SFLWS11
05E9 1063 INADR_LWS12,ACCVIO, - ; SFLWS12
05E9 1064 INADR_LWS13,ACCVIO, - ; SFLWS13
05E9 1065 INADR_LWS14,ACCVIO, - ; SFLWS14
05E9 1066 >,
05E9 1067
05E9 1068 <1,RETADR_LWS,
05E9 1069 RETADR_LWS20,ACCVIO, - ; SFLWS20
05E9 1070 RETADR_LWS21,ACCVIO, - ; SFLWS21
05E9 1071 RETADR_LWS22,ACCVIO, - ; SFLWS22
05E9 1072 >,
05E9 1073
05E9 1074 <1,ACMODE_LWS,
05E9 1075 >,
05E9 1076
07FB 1077 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

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081B 1078 TS2:
081B 1079 TESTSERV      ULWSET,ERR,SATS,
081B 1080
081B 1081      <1,INADR_UWS,
081B 1082          INADR_UWS10,NOPRIV,      - : SFUWS10
081B 1083          INADR_UWS11,ACCVIO,      - : SFUWS11
081B 1084          INADR_UWS12,ACCVIO,      - : SFUWS12
081B 1085          INADR_UWS13,ACCVIO,      - : SFUWS13
081B 1086          INADR_UWS14,ACCVIO,      - : SFUWS14
081B 1087          >,
081B 1088
081B 1089      <1,RETADR_UWS,
081B 1090          RETADR_UWS20,ACCVIO,      - : SFUWS20
081B 1091          RETADR_UWS21,ACCVIO,      - : SFUWS21
081B 1092          RETADR_UWS22,ACCVIO,      - : SFUWS22
081B 1093          >,
081B 1094
081B 1095      <1,ACMODE_UWS,
081B 1096          >,
081B 1097
0A2D 1098      TS_CLEANUP          : CLEAN UP & RETURN TO TEST_SERV_EXEC
```



```
0A4D 1099 TS3:
0A4D 1100 TESTSERV LCKPAG,ERR,SATS, -
0A4D 1101 - -
0A4D 1102 <1,INADR_LKP, -
0A4D 1103 INADR_LKP10,NOPRIV, - : SFLKP10
0A4D 1104 INADR_LKP11,ACCVIO, - : SFLKP11
0A4D 1105 INADR_LKP12,ACCVIO, - : SFLKP12
0A4D 1106 INADR_LKP13,ACCVIO, - : SFLKP13
0A4D 1107 INADR_LKP14,ACCVIO, - : SFLKP14
0A4D 1108 >, -
0A4D 1109 - -
0A4D 1110 <1,RETADR_LKP, -
0A4D 1111 RETADR_LKP20,ACCVIO, - : SFLKP20
0A4D 1112 RETADR_LKP21,ACCVIO, - : SFLKP21
0A4D 1113 RETADR_LKP22,ACCVIO, - : SFLKP22
0A4D 1114 >, -
0BDS 1116 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
OBF5 1117 TS4:
OBF5 1118 TESTSERV      ULKPAG,ERR,SATS,      -
OBF5 1119
OBF5 1120 <1,INADR_ULP,      -
OBF5 1121             INADR_ULP10,ACCVIO,      - ; SFULP10
OBF5 1122             INADR_ULP11,ACCVIO,      - ; SFULP11
OBF5 1123             INADR_ULP12,ACCVIO,      - ; SFULP12
OBF5 1124             INADR_ULP13,ACCVIO,      - ; SFULP13
OBF5 1125             INADR_ULP14,ACCVIO,      - ; SFULP14
OBF5 1126             >,      -
OBF5 1127
OBF5 1128 <1,RETADR_ULP,      -
OBF5 1129             RETADR_ULP20,ACCVIO,      - ; SFULP20
OBF5 1130             RETADR_ULP21,ACCVIO,      - ; SFULP21
OBF5 1131             RETADR_ULP22,ACCVIO,      - ; SFULP22
OBF5 1132             >,      -
OBF5 1133
OD7D 1134 TS_CLEANUP      ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

00000044'EF 01 1C 0138 30
01 01 FO

```

OD9D 1135 .SBTTL EXECUTE & CLEANUP
OD9D 1136 EXECUTE:
OD9D 1137 TEST_SERV_EXEC ; EXECUTE ALL T. CASES IN ALL GROUPS
ODC5 1138 CLEANUP:
ODC5 1139 BSBW MOD MSG PRINT ; PRINT TEST MODULE END MSG
ODC8 1140 INSV #1,STSSV_INHIB_MSG,#1,MOD MSG CODE ; INHIBIT PRINTING
ODD1 1141 ; INHIBIT PRINTING
ODD1 1142 $EXIT_S MOD_MSG_CODE ; EXIT TO OP SYS WITH MSG CODE

```

```

ODDE 1144 .SBTTL TC_CONTROL
ODDE 1145 :++
ODDE 1146 : FUNCTIONAL DESCRIPTION:
ODDE 1147 :
ODDE 1148 : THE TC CONTROL SUBROUTINE IS CALLED BY THE TEST_SERV_EXEC
ODDE 1149 : MACRO TO EXECUTE A GROUP OF TEST CASES. A GROUP IS DEFINED BY A TC_GROUP
ODDE 1150 : MACRO. FOR EACH TC_GROUP MACRO, THERE IS A CORRESPONDING TESTSERV MACRO.
ODDE 1151 : TESTSERV CONTAINS CODE TO EXECUTE SYSTEM SERVICES AND CHECK THE RETURNED
ODDE 1152 : STATUS CODE VALUES. TESTSERV ARGUMENTS ARE CODED TO SPECIFY ALL THE SYSTEM
ODDE 1153 : SERVICE ARGUMENT VALUES AND THE EXPECTED STATUS CODE FOR EACH TEST CASE
ODDE 1154 : DEFINED BY A NEXT TEST CASE MACRO WITHIN THE GROUP. TC CONTROL USES A
ODDE 1155 : CO-ROUTINE INTERFACE TO ENTER THE CODE OF THE APPROPRIATE TESTSERV MACRO
ODDE 1156 : IN VARIOUS PLACES. THE FIRST ENTRY OCCURS ONCE PER GROUP TO ALLOW TESTSERV
ODDE 1157 : TO DO SOME INITIALIZATION. THEN TWO ENTRIES ARE MADE FOR EACH TEST CASE IN
ODDE 1158 : THE GROUP. THE FIRST ALLOWS TESTSERV TO ISSUE THE SUBJECT SYSTEM SERVICE.
ODDE 1159 : THE SECOND ENTRY FOR THE TEST CASE CAUSES TESTSERV TO CHECK THE RETURNED
ODDE 1160 : STATUS CODE, PRINTING A FAILURE MESSAGE IF IT IS NOT THE EXPECTED CODE.
ODDE 1161 : IF THERE ARE NO MORE TEST CASES IN THE CURRENT GROUP, TESTSERV (NOT TC CONTROL)
ODDE 1162 : RETURNS DIRECTLY TO TEST_SERV_EXEC (RSB ACTUALLY ISSUED IN TS_CLEANUP MACRO)
ODDE 1163 : FROM THIS SECOND ENTRY; OTHERWISE, CONTROL RETURNS TO TC CONTROL WHICH
ODDE 1164 : IN TURN ENTERS TESTSERV AGAIN FOR THE NEXT TEST CASE. THE FAILURE OF A
ODDE 1165 : TEST CASE DOES NOT CAUSE TERMINATION OF THE TEST MODULE.
ODDE 1166 :
ODDE 1167 : CALLING SEQUENCE:
ODDE 1168 :
ODDE 1169 : BSBW TC_CONTROL (ISSUED WITHIN THE TEST_SERV_EXEC MACRO)
ODDE 1170 : (RSB IS ISSUED WITHIN THE TS_CLEANUP MACRO)
ODDE 1171 :
ODDE 1172 : INPUT PARAMETERS:
ODDE 1173 :
ODDE 1174 : NONE
ODDE 1175 :
ODDE 1176 : IMPLICIT INPUTS:
ODDE 1177 :
ODDE 1178 : ARGUMENTS SPECIFIED ON EACH TESTSERV MACRO MAY BE VIEWED AS
ODDE 1179 : INPUTS, SINCE TC_CONTROL AND TESTSERV ACT AS CO-ROUTINES.
ODDE 1180 :
ODDE 1181 : OUTPUT PARAMETERS:
ODDE 1182 :
ODDE 1183 : SEVERITY CODE FIELD OF MOD MSG CODE (BITS 0,1,2) IS SET TO ERROR
ODDE 1184 : IF ANY TEST CASE IN THE CURRENT GROUP FAILS; OTHERWISE IT REMAINS
ODDE 1185 : SET TO SUCCESSFUL.
ODDE 1186 :
ODDE 1187 : IMPLICIT OUTPUTS:
ODDE 1188 :
ODDE 1189 : XUETP-I-TEXT, ERROR MESSAGES ARE WRITTEN TO SYSS$OUTPUT BY
ODDE 1190 : THE TESTSERV MACRO (CO-ROUTINE WITH TC_CONTROL)
ODDE 1191 :
ODDE 1192 : COMPLETION CODES:
ODDE 1193 :
ODDE 1194 : NONE
ODDE 1195 :
ODDE 1196 : SIDE EFFECTS:
ODDE 1197 :
ODDE 1198 : NONE
ODDE 1199 :
ODDE 1200 :--

```

```

00000064'EF DD ODDE 1201
          9E 16 ODDE 1202
00000056'EF 20 90 ODDE 1203
          002F 30 ODDE 1204 TC_CONTROL:
00000004'FF 16 16 ODE4 1205 PUSHL TS_EP
          0037 30 ODE6 1206 JSB @ (SP)+
          9E 16 ODE6 1207 10$: MOVB #^A/ /,$$TSTN$$+2
          0042 30 ODED 1208 BSBW REG_SAVE
00000056'EF 2A 91 OE00 1209 JSB @CURRENT_TC
          DD 12 OE07 1210 BSBW REG_REST
00000060'EF 00000088'EF DE OE09 1211 JSB @ (SP)+
00000044'EF 03 00 02 FO OE14 1212 BSBW REG_COMP
          C7 11 OE1D 1213
          OE1F 1214
          OE1F 1215 JSB @ (S) / +
          OE1F 1216 CMPB #^A/ * /,$$TSTN$$+2
          OE1F 1217 BNEQU 10$
          OE1F 1218 MOVAL TEST MOD FAIL,TMD ADDR
          OE1F 1219 INSV #ERROR,#0,#3,MOD_MSG_CODE
          OE1F 1220 BRB 10$
          OE1F 1221 :
          OE1F 1222 :
          OE1F 1223 :

```

TC_CONTROL RETURNS TO TEST_SERV_EXEC VIA TESTSERV (IN TS_CLEANUP MACRO)

```

: PUSH TESTSERV ENTRY POINT
: ENTER TESTSERV INITIALIZATION
: PROCESS NEXT TEST CASE
: MAKE SURE T.C. NAME HAS A BLANK
: SAVE REGISTERS
: JUMP TO CURRENT TEST CASE
: RESTORE REGS FOR TESTSERV
: LET TESTSERV ISSUE SYSTEM SERVICE
: COMPARE REGS TO SEE IF ...
: ... SYSTEM SERVICE CHANGED ANY
: LET TESTSERV CHEK S.S. STATUS CODE
: HAS TESTSERV INDICATED FAILURE ?
: NO -- PROCESS NEXT TEST CASE
: YES -- INDICATE FAILED IN END MSG
: ADJUST STATUS CODE FOR ERROR
: LOOP BAK TO PROCESS NEXT TEST CASE

```

```

      OE1F 1225      .SBTTL SUBROUTINES
      OE1F 1226 REG_SAVE:
      OE1F 1227 :
      OE1F 1228 :*****
      OE1F 1229 :
      OE1F 1230 : * SAVES R0 THRU SP IN REG_SAVE_AREA
      OE1F 1231 : *
      OE1F 1232 :*****
      OE1F 1233 :
      00000008'EF 7FFF 8F BB OE1F 1234 PUSHR #R0_THRU_SP ; SAVE ALL REGS ON STACK
                  6E 3C 28 OE23 1235 MOV C3 #60,(SP),REG_SAVE_AREA ; SAVE REGS (BEFORE S.S.)
                  7FFF 8F BA OE2B 1236 POPR #R0_THRU_SP ; CLEAN UP STACK
                  05 OE2F 1237 RSB ; .... AND RETURN
      OE30 1238 :
      OE30 1239 :
      OE30 1240 :
      OE30 1241 :
      OE30 1242 REG_REST:
      OE30 1243 :
      OE30 1244 :*****
      OE30 1245 :
      OE30 1246 : * RESTORES R0 THRU SP FROM REG_SAVE_AREA
      OE30 1247 : *
      OE30 1248 :*****
      OE30 1249 :
      6E 00000008'EF 5E 3C C2 OE30 1251 SUBL2 #60,SP ; MOVE SP TO MAKE ROOM FOR REGS
                  EF 3C 28 OE33 1252 MOV C3 #60,REG_SAVE_AREA,(SP) ; MOVE REGS ONTO STACK FOR POP
                  7FFF 8F BA OE3B 1253 POPR #R0_THRU_SP ; RESTORE ALL REGS FOR TESTSERV
                  05 OE3F 1254 RSB ; ... AND RETURN

```

```

OE40 1256 REG_COMP:
OE40 1257 :
OE40 1258 : *****
OE40 1259 : *
OE40 1260 : * 1) PUSHES ALL REGS ONTO STACK *
OE40 1261 : * 2) COMPARES REGISTER IMAGES FROM STACK WITH CORRESPONDING *
OE40 1262 : * IMAGES FROM REG_SAVE_AREA FOR ALL REGISTERS SPECIFIED *
OE40 1263 : * IN REG_COMP_MASK. *
OE40 1264 : * 3) FOR EACH UNEQUAL COMPARE, AN ERROR MESSAGE IS PRINTED *
OE40 1265 : * (USING $FAO AND $OUTPUT SYSTEM SERVICES). *
OE40 1266 : * 4) POPS ALL REGS OFF OF STACK *
OE40 1267 : *
OE40 1268 : *****
OE40 1269 :
56 7FFF 8F BB OE40 1270 PUSHR #R0_THRU_SP ; SAVE ALL REGISTERS ON STACK
00000008'EF DE OE44 1271 MOVAL REG_SAVE_AREA,R6 ; POINT R6 TO BEG OF
54 5E DO OE4B 1272 ; ... REG (BEFORE S.S.)
53 FF 8F 98 OE4B 1273 MOVL SP,R4 ; POINT R4 TO BEG OF
OE4E 1274 ; ... REGS (AFTER S.S.)
53 53 D6 OE52 1275 CVTBL #-1,R3 ; INITIALIZE REG_COMP_MASK INDEX
53 0F 91 OE52 1276 REG_COMP_NEXT: INCL R3 ; POINT TO NEXT BIT IN MASK
03 1A OE54 1277 INCL R3 ; END OF THE MASK ?
009F 31 OE57 1278 CMPB #15,R3 ; NO -- CONTINUE
84 86 D1 OE59 1279 BGTRU REG_COMP_CONT ; YES -- GO TO COMMON RETURN
E9 00000000'EF 53 E1 OE5C 1280 BRW REG_COMP_RSB
00000048'EF 53 DO OE5C 1281 REG_COMP_CONT: CMPL (R6)+,(R4)+ ; REG BEFORE = REG AFTER ?
0000004C'EF FC A6 DO OE5F 1282 BEQLU REG_COMP_NEXT ; YES -- LOOK FOR NEXT REG
00000050'EF FC A4 DO OE61 1283 BEQLU R3,REG_COMP_MASK,REG_COMP_NEXT ; NO -- GET NEXT IF BIT NOT SET
00000056'EF 2A 90 OE69 1284 BBC ; NO -- GIVE REG NUMBER TO FAO
OE69 1285 MOVL R3,CLOB_REG_NO ; GIVE 'BEFORE' CONTENTS TO FAO
0000004C'EF FC A6 DO OE70 1286 MOVL -4(R6),REG_BEFORE_SS ; GIVE 'AFTER' CONTENTS TO FAO
00000050'EF FC A4 DO OE78 1287 MOVL -4(R4),REG_AFTER_SS ; GIVE FAILURE INDIC'N IN ERROR MSG
00000056'EF 2A 90 OE80 1288 MOVB #'A/+',$$STN$$+2
OE87 1289 :
OE87 1290 : $FAO_S ERR MSG FAOCTL,OUTL,OUTD,$$SNAD$$, -
OE87 1291 : $$BASEQ$$,$$PSEQ$$,CLOB_REG_NO,REG_BEFORE_SS,REG_AFTER_SS
OE87 1292 :
OEBA 1293 :
F253 CF F21D CF B0 OEBA 1294 MOVW OUTL,OUTD ; ACTUAL OUTPUT LEN IN STRING DESC'R
OEC1 1295 PUTMSG <#UETPS TEXT,#1,#OUTD> ; PRINT THE MSG
F237 CF 0084 8F B0 OED6 1296 MOVW #OUTE-OUTB,OUTD ; GET MAX LEN BACK INTO DESCRIPTOR
00000056'EF 20 90 OEDD 1297 MOVB #'A/ /,$$STN$$+2 ; REMOVE FAIL INDIC'N FOR NEXT MSG
00000060'EF 00000088'EF DE OEE4 1298 MOVAL TEST MOD FAIL,TMD ADDR ; INDICATE FAILED IN END MSG
00000044'EF 03 00 02 F0 OEEF 1299 INSV #ERROR,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR ERROR
FF57 31 OEF8 1300 BRW REG_COMP_NEXT ; GO LOOK FOR NEXT REG TO COMPARE
OEFB 1301 REG_COMP_RSB:
7FFF 8F BA OEFB 1302 POPR #R0_THRU_SP ; CLEAN UP STACK
05 OEFF 1303 RSB ; RETURN TO CALLER

```

```
OF00 1305 MOD_MSG_PRINT:
OF00 1306 :
OF00 1307 : *****
OF00 1308 : *
OF00 1309 : * PRINTS THE TEST MODULE BEGUN/SUCCESSFUL/FAILED MESSAGES *
OF00 1310 : * (USING THE PUTMSG MACRO). *
OF00 1311 : *
```



```

05 OF00 1313 : *****
OF00 1314 :
OF00 1315 : PUTMSG <MOD_MSG_CODE,#2,TMN_ADDR,TMD_ADDR> : PRINT MSG
OF1B 1316 : RSB ; ... AND RETURN TO CALLER
OF1C 1317 :
OF1C 1318 : CHMRTN:
OF1C 1319 : *****
OF1C 1320 : *
OF1C 1321 : * CHANGE MODE ROUTINE. THIS ROUTINE GETS CONTROL WHENEVER
OF1C 1322 : * A CMKRNI, CMEXEC, OR CMSUP SYSTEM SERVICE IS ISSUED
OF1C 1323 : * BY THE MODE MACRO ('TO' OPTION). IT MERELY DOES
OF1C 1324 : * A JUMP INDIRECT ON A FIELD SET UP BY MODE. IT HAS
OF1C 1325 : * THE EFFECT OF RETURNING TO THE END OF THE MODE
OF1C 1326 : * MACRO EXPANSION.
OF1C 1327 : *
OF1C 1328 : *****
OF1C 1329 :
0000079'FF 0000 OF1C 1330 : .WORD 0 ; ENTRY MASK
17 OF1E 1331 : JMP @CHM_CONT ; RETURN TO MODE MACRO IN NEW MODE
OF24 1332 :
OF24 1333 : * RET INSTR WILL BE ISSUED IN EXPANSION OF 'MODE FROM, ....' MACRO
OF24 1334 :
OF24 1335 : .END SATSSF14

```

```

SS$CHARS          = 00000048
SS$FIRSTITC$$$   = 00000000
SS$STRINGS       = 00000000
SS$ACT$$         = 000000F3 R    06
SS$ARG$$         = 000000FB R    06
SS$ASEQ$$        = 000000EB R    06
SS$CALL$$        = 000000DF R    06
SS$DISP$$        = 000001E6 R    06
SS$ERR$$         = 000001A0 R    06
SS$FXP$$         = 000000F7 R    06
SS$INIT$$        = 000000E3 R    06
SS$MAXP$$        = 00000005
SS$PSEQ$$        = 000000EF R    06
SS$SNAD$$        = 000000E7 R    06
SST1              = 00000004
SST2              = 00000009
SSTSTN$$         = 00000054 R    03
ACMODE_LWS       = 000000D5 R    02
ACMODE_UWS       = 000000D5 R    02
CHMRTN           = 000000F1C R    06
CHM_CONT         = 00000079 R    03
CLEANUP          = 000000DC5 R    06
CLOB_REG_NO      = 00000048 R    03
CTLSGL_PRD      = ***** X    06
CURRENT_TC       = 00000004 R    03
EMPTY            = 00000000 R    04
ERROR            = 00000002
ERR_MSG_FAOCTL   = 00000002 R    02
EXECUTE          = 000000D9D R    06
GRP_TOTAL        = 00000004
INADR             = 000000A9 R    02
INADR_LKP        = 000000C1 R    03
INADR_LKP10      = 000000C5 R    02
INADR_LKP11      = 000000C9 R    03
INADR_LKP12      = 00000000
INADR_LKP13      = 00000018 R    05
INADR_LKP14      = 000001F9 R    04
INADR_LWS        = 00000091 R    03
INADR_LWS10      = 000000BD R    02
INADR_LWS11      = 00000099 R    03
INADR_LWS12      = 00000000
INADR_LWS13      = 00000008 R    05
INADR_LWS14      = 000001F9 R    04
INADR_ULP        = 000000D9 R    03
INADR_ULP10      = 000001FF R    04
INADR_ULP11      = 000000E1 R    03
INADR_ULP12      = 00000000
INADR_ULP13      = 00000020 R    05
INADR_ULP14      = 000001F9 R    04
INADR_UWS        = 000000A9 R    03
INADR_UWS10      = 000000BD R    02
INADR_UWS11      = 000000B1 R    03
INADR_UWS12      = 00000000
INADR_UWS13      = 00000010 R    05
INADR_UWS14      = 000001F9 R    04
INFO             = 00000003
LIB$SIGNAL       = ***** X    06
    
```

```

MEXIT
MOD_MSG_CODE
MOD_MSG_PRINT
NARGS
NOACCESS
NSSARGS
ONES
OUTB
OUTD
OUTE
OUTL
PHD$Q PRIVMSK
PRIV$ASK
PRIV_ARGS
PROT
PRT$C_NA
PRV$V_PSWAPM
PRV$PRT
PSL$C_USER
RO_THRU_SP
REGS
REG_AFTER_SS
REG_BEFORE_SS
REG_COMP
REG_COMP_CONT
REG_COMP_MASK
REG_COMP_NEXT
REG_COMP_RSB
REG_REST
REG_SAVE
REG_SAVE_AREA
RETADR
RETADR_LKP
RETADR_LKP20
RETADR_LKP21
RETADR_LKP22
RETADR_LWS
RETADR_LWS20
RETADR_LWS21
RETADR_LWS22
RETADR_ULP
RETADR_ULP20
RETADR_ULP21
RETADR_ULP22
RETADR_UWS
RETADR_UWS20
RETADR_UWS21
RETADR_UWS22
SATSSF14
SEVERE
SHR$K_SHRDEF
SHR$ TEXT
SS$_ACCVIO
SS$_NOPRIV
STSVV_INHIB_MSG
SUCCESS
SYSS$CMEXEC
    
```

```

= 00000000
00000044 R    03
000000F0 R    06
= 00000014
00000000 R    05
= 00000002
000000B5 R    02
0000011C R    06
00000114 R    06
000001A0 R    06
000000DB R    06
= 00000000
00000071 R    03
= 00000002
000000B1 R    02
***** X    02
= 0000000C
00000070 R    03
= 00000003
= 00007FFF
0000007D R    03
00000050 R    03
0000004C R    03
00000E40 R    06
00000E5C R    06
00000000 R    02
00000E52 R    06
00000EFB R    06
00000E30 R    06
00000E1F R    06
00000008 R    03
00000068 R    03
000000D1 R    03
= 00000001
000000CD R    02
= 000001F9 R    04
000000A1 R    03
= 00000001
000000CD R    02
= 000001F9 R    04
000000E9 R    03
= 00000001
000000CD R    02
= 000001F9 R    04
000000B9 R    03
= 00000001
000000CD R    02
= 000001F9 R    04
00000000 R    06
= 00000004
= 00000001
= 00001130
***** X    06
***** X    06
= 0000001C
= 00000001
***** GX    06
    
```

```

SYSSCMKRNL      ***** GX 06
SYSSCNTREG      ***** GX 06
SYSSEXIT        ***** GX 06
SYSSEXPREG      ***** GX 06
SYSSFAO         ***** X 06
SYSSFAOL        ***** GX 06
SYSSHIBER       ***** GX 06
SYSSLCKPAG      ***** GX 06
SYSSLKWSET      ***** GX 06
SYSSSETPRN      ***** GX 06
SYSSSETPRT      ***** GX 06
SYSSSETPRV      ***** GX 06
SYSSULKPAG      ***** GX 06
SYSSULWSET      ***** GX 06
SYSSWAKE        ***** GX 06
TC1             00000241 R 06
TC2             0000031B R 06
TC3             000003F5 R 06
TC4             0000050F R 06
TCG_NO         = 00000004
TC_CONTROL     = 00000DDE R 06
TEST_MOD_BEG   00000077 R 02
TEST_MOD_FAIL  00000088 R 02
TEST_MOD_NAME  0000006E R 02
TEST_MOD_NAME_D 0000008F R 02
TEST_MOD_SUCC  0000007D R 02
TMD_ADDR       00000060 R 03
TMN_ADDR       0000005C R 03
TPID           00000000 R 03
TS1            000005E9 R 06
TS2            0000081B R 06
TS3            00000A4D R 06
TS4            00000BF5 R 06
TS_EP          00000064 R 03
TTRNAME        0000009F R 02
UETPS_SATSMS  = 007480D9
UETPS_TEXT     = 00741133
WARNING        = 00000000
    
```

! 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	000000D9 (217.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	000000F1 (241.)	03 (3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC BYTE
SATS_ACCVIO_1	00000200 (512.)	04 (4.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC PAGE
SATS_ACCVIO_2	00000200 (512.)	05 (5.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC PAGE
SATSSF14	00000F24 (3876.)	06 (6.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC LONG

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.09	00:00:00.52
Command processing	107	00:00:00.72	00:00:04.77
Pass 1	427	00:00:17.43	00:00:29.94
Symbol table sort	0	00:00:01.23	00:00:01.35
Pass 2	259	00:00:04.57	00:00:06.07
Symbol table output	18	00:00:00.16	00:00:00.41
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	846	00:00:24.23	00:00:43.14

The working set limit was 1950 pages.
93767 bytes (184 pages) of virtual memory were used to buffer the intermediate code.
There were 40 pages of symbol table space allocated to hold 670 non-local and 156 local symbols.
1335 source lines were read in Pass 1, producing 31 object records in Pass 2.
69 pages of virtual memory were used to define 53 macros.

! Macro library statistics !

Macro library name	Macros defined
-\$255\$DUA28:[SHRLIB]UETP.MLB;1	19
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	2
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	26
TOTALS (all libraries)	47

1316 GETS were required to define 47 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSF14/OBJ-OBJ\$:SATSSF14 MSRC\$:SATSSF14/UPDATE=(ENH\$:SATSSF14)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

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AH-BT13A-SE
VAX/VMS V4.0

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A grid of 12 columns and 12 rows of small, illegible text fragments, likely representing a memory dump or a series of data pages. The fragments are arranged in a regular pattern across the page.

SATSSF15
LIS

SATSSF16
LIS

SATSSF14
LIS

SATSSF12
LIS

SATSSF13
LIS