


```

SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  FFFFFFFFFF  11  222222
SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  FFFFFFFFFF  11  222222
SS        AA      AA      TT        SS        SS        FFFFFFFFFF  1111  22  22
SS        AA      AA      TT        SS        SS        FFFFFFFFFF  1111  22  22
SS        AA      AA      TT        SS        SS        FFFFFFFFFF  11    22  22
SS        AA      AA      TT        SS        SS        FFFFFFFFFF  11    22  22
SSSSSSS   AA      AA      TT        SSSSSS   SSSSSS   FFFFFFFF  11    22
SSSSSSS   AA      AA      TT        SSSSSS   SSSSSS   FFFFFFFF  11    22
SS        AA      AA      TT        SS        SS        FF        11    22
SS        AA      AA      TT        SS        SS        FF        11    22
SS        AA      AA      TT        SS        SS        FF        11    22
SS        AA      AA      TT        SSSSSSSS  SSSSSSSS  FF        111111  2222222222
SS        AA      AA      TT        SSSSSSSS  SSSSSSSS  FF        111111  2222222222

```

```

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

```

```

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)	213	SATSSF12
(1)	300	SFERG10
(1)	323	SFERG11
(1)	346	SFERG12
(1)	369	SFERG20
(1)	391	SFERG21
(1)	414	SFERG22
(1)	438	SFERG23
(1)	461	SFERG24
(1)	488	SFCRG10
(1)	511	SFCRG11
(1)	534	SFCRG12
(1)	557	SFCRG13
(1)	583	SFCRG20
(1)	608	SFCRG21
(1)	631	SFCRG22
(1)	654	SFCRG23
(2)	678	SFCRG24
(2)	705	SFSPT10
(2)	732	SFSPT11
(2)	757	SFSPT12
(2)	780	SFSPT13
(2)	802	SFSPT14
(2)	824	SFSPT20
(2)	846	SFSPT21
(2)	868	SFSPT22
(2)	891	SFSPT40
(2)	913	SFSPT41
(2)	935	SFSPT50
(2)	957	SFSPT51
(2)	983	SFSSM10
(2)	1096	EXECUTE & CLEANUP
(2)	1105	TC CONTROL
(2)	1186	SUBROUTINES

```
0000 1 .TITLE SATSSF12 - 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 23 :* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
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 SATSSF12 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 $SHR_MESSAGES UETP,116,<<TEXT,INFO>>
0000 62 ; DEFINE UETP$ TEXT
0000 63 ; GET RID OF MACRO DEFINITIONS
0000 64 $PSLDEF ; ACCESS MODE SYMBOLS
0000 65 :
0000 66 : MACROS:
0000 67 :
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 R0_THRU_SP = ^M<R0,R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP,SP>
00000001 0000 79 RETADR_ERG20 = 1 ; RETADR ARG FOR EXPREG (LOCATION 1)
00000001 0000 80 RETADR_CRG20 = 1 ; RETADR ARG FOR CNTREG (LOCATION 1)
00000000 0000 81 INADR_SPT13 = 0 ; INADR ARG FOR SETPRT (LOCATION 0)
00000001 0000 82 RETADR_SPT20 = 1 ; RETADR ARG FOR SETPRT (LOCATION 1)
00000001 0000 83 PRVPRT_SPT50 = 1 ; PRVPRT ARG FOR SETPRT (LOCATION 1)
0000 84 :
0000 85 : OWN STORAGE:
0000 86 :
```

```

00000000 88 .PSECT RODATA, RD, NOWRT, NOEXE, LONG
BFFC 0000 89 REG_COMP_MASK: .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP> ! ^X8000 -
0002 90 : REG COMPARE MASK (HIGH-ORDER ...
0002 91 : ... BIT MUST BE ON
0002 92 ERR_MSG_FAOCTL: STRING 1,<!/!AC!1ZB!1ZB: REGISTER !2UW CONTENTS ALTERED>, -
0002 93 <: BEFORE SERVICE CALL: !8XL AFTER SERVICE CALL: !8XL>
006E 94 TEST_MOD_NAME: STRING C,<SATSSF12> : TEST MODULE NAME
0077 95 TEST_MOD_BEG: STRING C,<begun> : DISPOSITION FIELD OF TEST MOD MSG
007D 96 TEST_MOD_SUCC: STRING C,<successful> : DISPOSITION FIELD OF TEST MOD MSG
0088 97 TEST_MOD_FAIL: STRING C,<failed> : DISPOSITION FIELD OF TEST MOD MSG
008F 98 TEST_MOD_NAME_D: STRING 1,<SATSSF12> : TEST MODULE NAME DESCRIPTOR
009F 99 TTNAME: STRING 1,<TT> : TERMINAL LOGICAL NAME
00000000'00000000' 00A9 100 INADR: .LONG NOACCESS,NOACCESS : PAGE ADDRESS OF NOACCESS PSECT
00000000'00000000' 00B1 101 PROT: .LONG PRT$C_NA : PROTECTION CODE FOR NOACCESS PSECT
FFFFFFFF FFFFFFFF 00B5 102 ONES: .LONG -1,-1 : A QUADWORD OF 1-BITS
00000002 00BD 103 PAGCNT_ERG: .LONG 2 : PAGCNT ARGUMENT FOR EXPREG
000000C9 00C1 104 RETADR_ERG21: .BLKL 2 : RETADR ARGUMENT FOR EXPREG
00C9 105 ACMODE_ERG: : ACMODE ARGUMENT FOR EXPREG
00C9 106 ACMODE_CRG: : ACMODE ARGUMENT FOR CNTREG
00C9 107 ACMODE_SPT: : ACMODE ARGUMENT FOR SETPRT
00000003 00C9 108 .LONG PSL$C_USER
00CD 109 REGION_ERG: : REGION ARG FOR EXPREG (PGM REGION)
00CD 110 REGION_CRG: : REGION ARG FOR CNTREG (PGM REGION)
00000000 00CD 111 .LONG 0
00000001 00D1 112 PAGCNT_CRG: .LONG 1 : PAGCNT ARGUMENT FOR CNTREG
00000001 00D5 113 PAGCNT_CRG13: .LONG 1 : PAGCNT ARGUMENT FOR CNTREG
000000E1 00D9 114 RETADR_CRG21: .BLKL 2 : RETADR ARGUMENT FOR CNTREG
80000000' 00E1 115 INADR_SPT11: .ADDRESS ^X80000000 : INADR ARGUMENT FOR SETPRT
8F000000' 00E5 116 .ADDRESS ^X8F000000 :
000000F1 00E9 117 RETADR_SPT21: .BLKL 2 : RETADR ARGUMENT FOR SETPRT
00000000' 00F1 118 PROT_SPT: .LONG PRT$C_UW : PROT ARGUMENT FOR SETPRT
00000000' 00F5 119 PROT_SPT40: .LONG PRT$C_RESERVED : PROT ARG (CODE 1 -- NO ACCESS) FOR SETPRT
00000010 00F9 120 PROT_SPT41: .LONG 16 : PROT ARGUMENT FOR SETPRT
000000FE 00FD 121 PRVPRT_SPT51: .BLKB 1 : PRVPRT ARGUMENT FOR SETPRT
00000000 00FE 122 SWPFLG_SSM: .LONG 0 : SWPFLG ARGUMENT FOR SETSWM
00000001 0102 123 SWPFLG_SSM10: .LONG 1 : SWPFLG ARGUMENT FOR SETSWM

```

	00000000	125	.PSECT	RWDATA, RD, WRT, NOEXE		
	00000004	0000	126	TPID:	.BLKL	1
	00000008	0004	127	CURRENT TC:	.BLKL	1
	00000044	0008	128	REG_SAVE AREA:	.BLKL	15
	007480D9	0044	129	MOD_MSG CODE:	.LONG	UETPS_SATSMS
	0000004C	0048	130	CLOB_REG NO:	.BLKL	1
	00000050	004C	131	REG_BEFORE_SS:	.BLKL	1
		0050	132			
	00000054	0050	133	REG_AFTER_SS:	.BLKL	1
		0054	134			
		0054	135	\$\$STNSS:	STRING	C, < SF >
	0000006E	005C	136	TMN_ADDR:	.ADDRESS	TEST_MOD_NAME
	00000077	0060	137	TMD_ADDR:	.ADDRESS	TEST_MOD_BEG
	00000068	0064	138	TS_EP:	.BLKL	1
	00000070	0068	139	RETADR:	.BLKL	2
	00000071	0070	140	PRVPRT:	.BLKB	1
	00000079	0071	141	PRIVMASK:	.BLKQ	1
	0000007D	0079	142	CHM_CONT:	.BLKL	1
	00000091	007D	143	REGS:	.BLKL	5
		0091	144	PAGCNT_ERG10:		
		0091	145	PAGCNT_ERG11:		
		0091	146	PAGCNT_ERG12:		
		0091	147	PAGCNT_CRG10:		
		0091	148	PAGCNT_CRG11:		
		0091	149	PAGCNT_CRG12:		
	00000095	0091	150		.BLKL	1
00000000	00000000	0095	151	RETADR_ERG:	.LONG	0,0
00000000	00000000	009D	152	RETADR_CRG:	.LONG	0,0
	000000AD	00A5	153	RETADR_CRG13:	.BLKL	2
	000000B5	00AD	154	INADR_SPT:	.BLKL	2
	000000BD	00B5	155	INADR_SPT10:	.BLKL	2
	000000C5	00BD	156	EXP_RANGE:	.BLKQ	1
	000000CD	00C5	157	INADR_SPT12:	.BLKL	2
	000000D5	00CD	158	RETADR_SPT:	.BLKL	2
	000000D6	00D5	159	PRVPRT_SPT:	.BLKB	1

: PROCESS ID FOR THIS PROCESS
 : PTR TO CURRENT TEST CASE
 : SAVE AREA FOR ALL REGS (SANS PC)
 : TEST MODULE MSG CODE FOR PUTMSG
 : CLOBBERED REG NO (FOR FAO ERR MSG)
 : REG CONTENTS BEFORE S.S.
 : ... (FOR FAO ERROR MSG)
 : REG CONTENTS AFTER S.S.
 : ... (FOR FAO ERROR MSG)
 : ASCII PORTION OF TEST CASE NAME
 : ADDR OF TEST MOD NAME FOR FAO
 : ADDR OF T.M. DISP FIELD FOR FAO
 : ENTRY PNT FOR CURR TESTSERV MACRO
 : RETURN LONGWORDS FOR SETPRT
 : PROT RETURN BYTE FOR SETPRT
 : ADDR OF PRIVILEGE MASK (IN PHD)
 : CHANGE MODE CONTINUE ADDRESS
 : AREA FOR COND INDEX REGS (R2-R6)
 : PAGCNT ARGUMENT FOR EXPREG
 : PAGCNT ARGUMENT FOR EXPREG
 : PAGCNT ARGUMENT FOR EXPREG
 : PAGCNT ARGUMENT FOR CNTREG
 : PAGCNT ARGUMENT FOR CNTREG
 : PAGCNT ARGUMENT FOR CNTREG
 : RETADR ARGUMENT FOR EXPREG
 : RETADR ARGUMENT FOR CNTREG
 : RETADR ARG FOR NON-SUBJECT EXPREG
 : INADR ARGUMENT FOR SETPRT SERVICE
 : INADR ARGUMENT FOR SETPRT SERVICE
 : EXPREG RANGE FOR SFPRT10
 : INADR ARGUMENT FOR SETPRT SERVICE
 : RETADR ARGUMENT FOR SETPRT SERVICE
 : PRVPRT ARGUMENT FOR SETPRT

```
00000000 161 .PSECT SATS_ACCVIO_1,RD,WRT,.OEXE,PAGE
00000200 0000 162 EMPTY: .BLKB 512 ; RESERVE A PAGE OF SPACE
0200 163 :
0200 164 : +
0200 165 : *****
0200 166 : *
0200 167 : * THE ORDER OF STATEMENTS IN THIS PSECT IS CRITICAL. *
0200 168 : * DO NOT RE-ARRANGE THE VARIABLES. CONSULT SATS *
0200 169 : * FUNCTIONAL SPECIFICATION FOR A DESCRIPTION OF THE USE *
0200 170 : * OF THE EMPTY PSECT (AND ITS COMPANION PSECT, NOACCESS). *
0200 171 : *
0200 172 : *****
0200 173 : -
0200 174 :
0200 175 : TYPE AAAAA_SSSX1 (TYPE AAAAA_SSSX2 IF NOT DESC) GO HERE:
000001FC 0200 176 RETADR_ERG22 = . - 4 ; RETADR ARGUMENT FOR EXPREG
000001FF 0200 177 RETADR_ERG23 = . - 1 ; RETADR ARG FOR EXPREG (LAST BYTE IN PAGE)
000001F9 0200 178 RETADR_ERG24 = . - 7 ; RETADR ARGUMENT FOR EXPREG
000001FC 0200 179 RETADR_CRG22 = . - 4 ; RETADR ARGUMENT FOR CNTREG
000001FF 0200 180 RETADR_CRG23 = . - 1 ; RETADR ARG FOR CNTREG (LAST BYTE IN PAGE)
000001F9 0200 181 RETADR_CRG24 = . - 7 ; RETADR ARGUMENT FOR CNTREG
000001F9 0200 182 RETADR_SPT22 = . - 7 ; RETADR ARGUMENT FOR SETPRT
000001F3 0200 183 = . - 13 ; ALLOW ROOM FOR STRING DESCRIPTOR
01F3 184 ; TYPE AAAAA_SSSX5 GO HERE:
00000006 01F3 185 .LONG 6 ; STRING LENGTH (WILL CROSS PSECT BOUNDARY)
000001FB' 01F7 186 .ADDRESS +4 ; STRING ADDRESS
01FB 187 ; TYPE AAAAA_SSSX3 GO HERE:
000001FC 01FB 188 .BLKB 1 ; LOW-ORDER BYTE OF STRING LENGTH
01FC 189 ; TYPE AAAAA_SSSX2 GO HERE:
00000200 01FC 190 .BLKL 1 ; STRING LENGTH
0200 191 :
0200 192 :
0200 193 :
0200 194 :
00000000 195 .PSECT SATS_ACCVIO_2,RD,WRT,NOEXE,PAGE
00000200 0000 196 NOACCESS: .BLKB 512 ; RESERVE A PAGE OF SPACE
00000000 0200 197 = . - 512 ; RETURN LOC CTR TO BEGINNING OF PSECT
00000000' 0000 198 .ADDRESS EMPTY ; ADDRESS OF ACCESSIBLE STRING
00000000' 0004 199 .ADDRESS EMPTY/^X100 ; ADDRESS OF ACCESSIBLE STRING
0008 200 :+
0008 201 : *** NOTE -- DO NOT CHANGE LOCATION OR SEQUENCE OF ABOVE STATEMENTS!
0008 202 : *** THIS PSECT (NOACCESS) MUST APPEAR IN MEMORY IMMEDIATELY
0008 203 : *** FOLLOWING THE EMPTY PSECT. PSECT NAMES AND OPTIONS WILL BE
0008 204 : *** CHOSEN TO FORCE THE DESIRED PSECT ORDERING.
0008 205 : -
0008 206 :
00000010 0008 207 INADR_SPT14: .BLKL 2 ; INADR ARGUMENT FOR SETPRT
0010 208 :
0010 209 :
0010 210 :
00000000 211 .PSECT SATSSF12,RD,WRT,EXE, LONG
```



```

0000 213 .SBTTL SATSSF12
0000 214 :++
0000 215 : FUNCTIONAL DESCRIPTION:
0000 216 :
0000 217 : AFTER PERFORMING SOME INITIAL HOUSEKEEPING, SUCH AS
0000 218 : PRINTING THE MODULE BEGIN MESSAGE AND ACQUIRING ALL PRIVILEGES,
0000 219 : THE SATSSF12 ROUTINE EXECUTES THE TEST SERV EXEC MACRO TO RUN
0000 220 : ALL TEST CASES. WHEN THE MACRO COMPLETES ITS EXECUTION, SATSSF12
0000 221 : PRINTS A TEST MODULE SUCCESS OR FAIL MESSAGE AND EXITS TO THE
0000 222 : OPERATING SYSTEM. TEST SERV EXEC CALLS THE TC CONTROL/TESTSERV
0000 223 : CO-ROUTINE PAIR ONCE PER TEST CASE GROUP TO EXECUTE ALL TEST
0000 224 : CASES IN THAT GROUP. EACH TEST CASE GROUP IS DEFINED BY BOUNDING
0000 225 : ITS TEST CAS S WITH A TC GROUP MACRO BEFORE THE FIRST TEST CASE
0000 226 : AND A TCEND MACRO AFTER THE LAST ONE. THE TEST CASES THEMSELVES
0000 227 : ARE DEFINED WITHIN THESE BOUNDS BY PRECEDING EACH WITH A
0000 228 : NEXT TEST CASE MACRO. TC CONTROL/TESTSERV EXECUTES THE CODE
0000 229 : FOLLOWING EACH NEXT TEST CASE MACRO IMMEDIATELY BEFORE ISSUING
0000 230 : THE SYSTEM SERVICE AS REQUESTED IN THE TESTSERV MACRO. TC CONTROL/
0000 231 : TESTSERV ALSO CHECKS THE RESULTS OF THE SERVICE WITH RESPECT
0000 232 : TO ITS EXPECTED STATUS CODE AND PRINTS ANY REQUIRED FAILURE
0000 233 : MESSAGES FOR THE TEST CASE. THE CODE APPEARING AFTER EACH
0000 234 : NEXT TEST CASE MACRO IS MERELY TO SET UP CONDITIONS REQUIRED
0000 235 : FOR THE SYSTEM SERVICE AND TO CLEAN UP ANY RESOURCES ACQUIRED
0000 236 : BY THE PREVIOUS TEST CASE.
0000 237 :
0000 238 : CALLING SEQUENCE:
0000 239 :
0000 240 : $ RUN SATSSF12 ... (DCL COMMAND)
0000 241 :
0000 242 : INPUT PARAMETERS:
0000 243 :
0000 244 : NONE
0000 245 :
0000 246 : IMPLICIT INPUTS:
0000 247 :
0000 248 : NONE
0000 249 :
0000 250 : OUTPUT PARAMETERS:
0000 251 :
0000 252 : NONE
0000 253 :
0000 254 : IMPLICIT OUTPUTS:
0000 255 :
0000 256 : MESSAGES TO SYS$OUTPUT ARE THE ONLY OUTPUT FROM SATSSF12.
0000 257 : THEY ARE OF THE FORM:
0000 258 :
0000 259 : %UETP-S-SATSMS, TEST MODULE SATSSF12 BEGUN ... (BEGIN MSG)
0000 260 : %UETP-S-SATSMS, TEST MODULE SATSSF12 SUCCESSFUL ... (END MSG)
0000 261 : %UETP-E-SATSMS, TEST MODULE SATSSF12 FAILED ... (END MSG)
0000 262 : %UETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
0000 263 :
0000 264 : COMPLETION CODES:
0000 265 :
0000 266 : THE SATSSF12 ROUTINE TERMINATES WITH A $EXIT TO THE
0000 267 : OPERATING SYSTEM WITH A STATUS CODE DEFINED BY UETP$_SATSMS.
0000 268 :
0000 269 : SIDE EFFECTS:

```

```

0000 270 :
0000 271 : NONE
0000 272 :
0000 273 :--
0000 274 :
0000 275 :
0000 276 :
0000 277 SATSSF12:
OFFC 0000 278 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
0002 279 : ENTRY MASK
0002 280 $WAKE S TPID : GET PID OF THIS PROCESS
0011 281 $HIBER S : UNDO WAKE
0018 282 $SETPRN_S TEST MOD_NAME_D : SET PROCESS NAME
0025 283 BSBW MOD MSG PRINT : PRINT TEST MODULE BEGIN MSG
0028 284 MOVAL TEST_MOD_SUCC,TMD_ADDR : ASSUME END MSG WILL SHOW SUCCESS
0033 285 INSV #SUCCESS,#0,#3,MOD_MSG_CODE : ADJUST STATUS CODE FOR SUCCESS
003C 286 MODE TO,10$,KRNL,NOREGS : KERNEL MODE TO ACCESS PHD
59 00000000'9F DO 0059 287 MOVL @#CTL$GL PHD,R9 : GET PROCESS HEADER ADDRESS
00000044'EF 03 00 01 FO 0060 288 MOVAL PHD$Q PRIVMSK(R9),PRIVMASK : GET PRIV MASK ADDRESS
0067 289 MODE FROM,T0$ : GET BACK TO USER MODE
0068 290 PRIV ADD,ALL : GET ALL PRIVILEGES
0088 291 DISPSERV : SET UP DISPLAY INFO FOR TESTSERV
021D 292 $SETPRT_S INADR=INADR,RETADR=RETADR, -
021D 293 PROT=PROT,PRVPRT=PRVPRT
023E 294 : SET NOACCESS PSECT
023E 295 : ... FOR NO USER ACCESS
OCF9 31 023E 296 BRW EXECUTE : GO EXECUTE ALL TEST CASES
0241 297 :
0241 298 TC_GROUP ERG,1 TS1
0268 299 :
0268 300 NEXT_TEST_CASE SFERG10

```

```
0268 301 :
0268 302 :++
0268 303 :*****
0268 304 :*
0268 305 :* TEST CASE NAME: SFERG10
0268 306 :*
0268 307 :* SYSTEM SERVICE: EXPREG
0268 308 :*
0268 309 :* ARGUMENT UNDER TEST: PAGCNT_ERG10
0268 310 :*
0268 311 :* INPUT CONDITIONS:
0268 312 :* ILLEGAL PAGE COUNT (ZERO)
0268 313 :*
0268 314 :* EXPECTED RESULTS:
0268 315 :* 1) SYSTEM STATUS CODE: ILLPAGCNT
0268 316 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
0268 317 :*
0268 318 :*****
0268 319 :--
00000091'EF D4 0268 320 :
0268 321 : CLRL PAGCNT_ERG10 ; CLEAR PAGE COUNT
026E 322 :
026E 323 : NEXT_TEST_CASE SFERG11
```

```

027A 324 :
027A 325 :+
027A 326 :*****
027A 327 :*
027A 328 :* TEST CASE NAME: SFERG11
027A 329 :*
027A 330 :* SYSTEM SERVICE: EXPREG
027A 331 :*
027A 332 :* ARGUMENT UNDER TEST: PAGCNT_ERG11
027A 333 :*
027A 334 :* INPUT CONDITIONS:
027A 335 :* ILLEGAL PAGE COUNT (NEGATIVE)
027A 336 :*
027A 337 :* EXPECTED RESULTS:
027A 338 :* 1) SYSTEM STATUS CODE: ILLPAGCNT
027A 339 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
027A 340 :*
027A 341 :*****
027A 342 :--
027A 343 :
027A 344 : CVTBL #-1,PAGCNT_ERG11 ; ASK FOR -1 PAGES
0282 345 :
0282 346 : NEXT_TEST_CASE SFERG12

```

0000091'EF FF 8F 98

```
028E 347 :  
028E 348 *  
028E 349 *****  
028E 350 *  
028E 351 * TEST CASE NAME: SFERG12  
028E 352 *  
028E 353 * SYSTEM SERVICE: EXPREG  
028E 354 *  
028E 355 * ARGUMENT UNDER TEST: PAGCNT_ERG12  
028E 356 *  
028E 357 * INPUT CONDITIONS:  
028E 358 * ILLEGAL PAGE COUNT (NEGATIVE)  
028E 359 *  
028E 360 * EXPECTED RESULTS:  
028E 361 * 1) SYSTEM STATUS CODE: ILLPAGCNT  
028E 362 * 2) REGISTERS R2 THROUGH FP UNCHANGED  
028E 363 *  
028E 364 *****  
028E 365 *  
028E 366 *  
028E 367 *  
0299 368 *  
0299 369 *  
NEXT_TEST_CASE SFERG20
```

0000091'EF FFF E7960 8F D0

MOVL #-100000,PAGCNT_ERG12 ; ASK FOR LARGE NEG NUMBER OF PAGES

```
02A5 370 :
02A5 371 :++
02A5 372 :*****
02A5 373 :*
02A5 374 :* TEST CASE NAME: SFERG20
02A5 375 :*
02A5 376 :* SYSTEM SERVICE: EXPREG
02A5 377 :*
02A5 378 :* ARGUMENT UNDER TEST: RETADR_ERG20
02A5 379 :*
02A5 380 :* INPUT CONDITIONS:
02A5 381 :* RETURN ADDRESS FIELD AT LOCATION 1.
02A5 382 :*
02A5 383 :* EXPECTED RESULTS:
02A5 384 :* 1) SYSTEM STATUS CODE: ACCVIO
02A5 385 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
02A5 386 :*
02A5 387 :*****
02A5 388 :--
02A5 389 :
02A5 390 :
02A5 391 : NEXT_TEST_CASE SFERG21
```

```
02B1 392 :  
02B1 393 :++  
02B1 394 :*****  
02B1 395 :*  
02B1 396 :* TEST CASE NAME: SFERG21  
02B1 397 :*  
02B1 398 :* SYSTEM SERVICE: EXPREG  
02B1 399 :*  
02B1 400 :* ARGUMENT UNDER TEST: RETADR_ERG21  
02B1 401 :*  
02B1 402 :* INPUT CONDITIONS:  
02B1 403 :* FIRST LONGWORD OF RETURN ADDRESS FIELD IN  
02B1 404 :* NON-ACCESSIBLE PSECT.  
02B1 405 :*  
02B1 406 :* EXPECTED RESULTS:  
02B1 407 :* 1) SYSTEM STATUS CODE: ACCVIO  
02B1 408 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
02B1 409 :*  
02B1 410 :*****  
02B1 411 :--  
02B1 412 :  
02B1 413 :  
02B1 414 : NEXT_TEST_CASE SFERG22
```

```
02BD 415 :  
02BD 416 :+  
02BD 417 :*****  
02BD 418 :*  
02BD 419 :* TEST CASE NAME: SFERG22  
02BD 420 :*  
02BD 421 :* SYSTEM SERVICE: EXPREG  
02BD 422 :*  
02BD 423 :* ARGUMENT UNDER TEST: RETADR_ERG22  
02BD 424 :*  
02BD 425 :* INPUT CONDITIONS:  
02BD 426 :* FIRST LONGWORD OF RETURN ADDRESS FIELD IN  
02BD 427 :* ACCESSIBLE PSECT, SECOND LONGWORD IN  
02BD 428 :* NON-ACCESSIBLE PSECT.  
02BD 429 :*  
02BD 430 :* EXPECTED RESULTS:  
02BD 431 :* 1) SYSTEM STATUS CODE: ACCVIO  
02BD 432 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
02BD 433 :*  
02BD 434 :*-----  
02BD 435 :*  
02BD 436 :*  
02BD 437 :*  
02BD 438 :* NEXT_TEST_CASE SFERG23
```



```
02C9 439 :  
02C9 440 :++  
02C9 441 :*****  
02C9 442 :*  
02C9 443 :* TEST CASE NAME: SFERG23  
02C9 444 :*  
02C9 445 :* SYSTEM SERVICE: EXPREG  
02C9 446 :*  
02C9 447 :* ARGUMENT UNDER TEST: RETADR_ERG23  
02C9 448 :*  
02C9 449 :* INPUT CONDITIONS:  
02C9 450 :* FIRST LONGWORD OF RETURN ADDRESS FIELD BEGINS  
02C9 451 :* IN ACCESSIBLE PSECT, ENDS IN NON-ACCESSIBLE PSECT.  
02C9 452 :*  
02C9 453 :* EXPECTED RESULTS:  
02C9 454 :* 1) SYSTEM STATUS CODE: ACCVIO  
02C9 455 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
02C9 456 :*  
02C9 457 :*****  
02C9 458 :--  
02C9 459 :  
02C9 460 :  
02C9 461 : NEXT_TEST_CASE SFERG24
```

```
02D5 462 :  
02D5 463 :++  
02D5 464 :*****  
02D5 465 :*  
02D5 466 :* TEST CASE NAME: SFERG24  
02D5 467 :*  
02D5 468 :* SYSTEM SERVICE: EXPREG  
02D5 469 :*  
02D5 470 :* ARGUMENT UNDER TEST: RETADR_ERG24  
02D5 471 :*  
02D5 472 :* INPUT CONDITIONS:  
02D5 473 :* SECOND LONGWORD OF RETURN ADDRESS FIELD BEGINS  
02D5 474 :* IN ACCESSIBLE PSECT, ENDS IN NON-ACCESSIBLE PSECT.  
02D5 475 :*  
02D5 476 :* EXPECTED RESULTS:  
02D5 477 :* 1) SYSTEM STATUS CODE: ACCVIO  
02D5 478 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
02D5 479 :*  
02D5 480 :*****  
02D5 481 :--  
02D5 482 :  
02D5 483 :  
02D5 484 : TCEND
```

SATSSF12
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. ^{N 2} 16-SEP-1984 00:40:53 VAX/VMS Macro V04-00
5-SEP-1984 04:28:55 [UETPSY.SRC]SATSSF12.MAR;1

Page 16
(1)

SA
VO

02D6	485	:		
02D6	486	:	TC_GROUP	CRG,1,TS2
02FD	487	:		
02FD	488	:	NEXT_TEST_CASE	SFCRG10

```

02FD 489 :
02FD 490 :++
02FD 491 :*****
02FD 492 :*
02FD 493 :* TEST CASE NAME:          SFCRG10
02FD 494 :*
02FD 495 :* SYSTEM SERVICE:         CNTREG
02FD 496 :*
02FD 497 :* ARGUMENT UNDER TEST:    PAGCNT_CRG10
02FD 498 :*
02FD 499 :* INPUT CONDITIONS:
02FD 500 :*   ILLEGAL PAGE COUNT (ZERO)
02FD 501 :*
02FD 502 :* EXPECTED RESULTS:
02FD 503 :*   1) SYSTEM STATUS CODE: ILLPAGCNT
02FD 504 :*   2) REGISTERS R2 THROUGH FP UNCHANGED
02FD 505 :*
02FD 506 :*****
02FD 507 :--
0000091'EF D4 02FD 509 : CLRL  PAGCNT_CRG10          ; ZERO OUT REQUESTED PAGE COUNT
0303 510 :
0303 511 : NEXT_TEST_CASE  SFCRG11

```

```
030F 512 :  
030F 513 :++  
030F 514 :*****  
030F 515 :*  
030F 516 :* TEST CASE NAME: SFCRG11  
030F 517 :*  
030F 518 :* SYSTEM SERVICE: CNTREG  
030F 519 :*  
030F 520 :* ARGUMENT UNDER TEST: PAGCNT_CRG11  
030F 521 :*  
030F 522 :* INPUT CONDITIONS:  
030F 523 :* ILLEGAL PAGE COUNT (NEGATIVE)  
030F 524 :*  
030F 525 :* EXPECTED RESULTS:  
030F 526 :* 1) SYSTEM STATUS CODE: ILLPAGCNT  
030F 527 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
030F 528 :*  
030F 529 :*  
030F 530 :*  
030F 531 :*  
0000091'EF FF 8F 98 030F 532 : CVTBL #-1,PAGCNT_CRG11 ; REQUEST -1 PAGES  
0317 533 :  
0317 534 : NEXT_TEST_CASE SFCRG12
```

```
0323 535 :  
0323 536 :+  
0323 537 :*****  
0323 538 :*  
0323 539 :* TEST CASE NAME: SFCRG12  
0323 540 :*  
0323 541 :* SYSTEM SERVICE: CNTREG  
0323 542 :*  
0323 543 :* ARGUMENT UNDER TEST: PAGCNT_CRG12  
0323 544 :*  
0323 545 :* INPUT CONDITIONS:  
0323 546 :* ILLEGAL PAGE COUNT (NEGATIVE)  
0323 547 :*  
0323 548 :* EXPECTED RESULTS:  
0323 549 :* 1) SYSTEM STATUS CODE: ILLPAGCNT  
0323 550 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0323 551 :*  
0323 552 :*****  
0323 553 :--  
0323 554 :  
0323 555 :*  
032E 556 :*  
032E 557 :*  
MOVL #-100000,PAGCNT_CRG12 ; REQUEST LARGE NEG. PAGE COUNT  
NEXT_TEST_CASE SFCRG13
```

00000091'FF FFFE7960 8F D0

```
033A 558 :  
033A 559 :++  
033A 560 :*****  
033A 561 :*  
033A 562 :* TEST CASE NAME: SFCRG13  
033A 563 :*  
033A 564 :* SYSTEM SERVICE: CNTREG  
033A 565 :*  
033A 566 :* ARGUMENT UNDER TEST: PAGCNT_CRG13  
033A 567 :*  
033A 568 :* INPUT CONDITIONS:  
033A 569 :* TRY TO CONTRACT EXECUTIVE REGION  
033A 570 :*  
033A 571 :* EXPECTED RESULTS:  
033A 572 :* 1) SYSTEM STATUS CODE: PAGOWNVIO  
033A 573 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
033A 574 :*  
033A 575 :*****  
033A 576 :--  
033A 577 :  
033A 578 : MODE TO,10$,EXEC,NOREGS ; GET TO EXEC MODE FOR $EXPREG  
0357 579 : $EXPREG_S PAGCNT=PAGCNT_CRG13, - ; EXPAND BY ONE PAGE  
0357 580 : RETADR=RETADR_CRG13  
036E 581 : MODE FROM,10$ ; BACK TO USER MODE  
036F 582 :  
036F 583 : NEXT_TEST_CASE SFCRG20
```

```
037B 584 :  
037B 585 :++  
037B 586 :*****  
037B 587 :*  
037B 588 :* TEST CASE NAME:          SFCRG20  
037B 589 :*  
037B 590 :* SYSTEM SERVICE:          CNTREG  
037B 591 :*  
037B 592 :* ARGUMENT UNDER TEST:     RETADR_CRG20  
037B 593 :*  
037B 594 :* INPUT CONDITIONS:  
037B 595 :*   RETURN ADDRESS FIELD AT LOCATION 1.  
037B 596 :*  
037B 597 :* EXPECTED RESULTS:  
037B 598 :*   1) SYSTEM STATUS CODE: ACCVIO  
037B 599 :*   2) REGISTERS R2 THROUGH FP UNCHANGED  
037B 600 :*  
037B 601 :*****  
037B 602 :--  
037B 603 :  
037B 604 :   MODE      TO,20$,EXEC,NOREGS      ; EXEC MODE TO ISSUE $DELTVA  
0398 605 :   $DELTVA_S INADR=RETADR_CRG13      ; DELETE PAGE ACQUIRED BY SFCRG13  
03A9 606 :   MODE      FROM,20$                ; ... BACK TO USER MODE  
03AA 607 :  
03AA 608 :   NEXT_TEST_CASE SFCRG21
```



```
0386 609 :  
0386 610 :++  
0386 611 :*****  
0386 612 :*  
0386 613 :* TEST CASE NAME:          SFCRG21  
0386 614 :*  
0386 615 :* SYSTEM SERVICE:          CNTREG  
0386 616 :*  
0386 617 :* ARGUMENT UNDER TEST:     RETADR_CRG21  
0386 618 :*  
0386 619 :* INPUT CONDITIONS:  
0386 620 :*   FIRST LONGWORD OF RETURN ADDRESS FIELD IN  
0386 621 :*   NON-ACCESSIBLE PSECT.  
0386 622 :*  
0386 623 :* EXPECTED RESULTS:  
0386 624 :*   1) SYSTEM STATUS CODE: ACCVIO  
0386 625 :*   2) REGISTERS R2 THROUJGH FP UNCHANGED  
0386 626 :*  
0386 627 :*****  
0386 628 :--  
0386 629 :  
0386 630 :  
0386 631 :          NEXT_TEST_CASE  SFCRG22
```

```
03C2 632 :  
03C2 633 :  
03C2 634 :*****  
03C2 635 :*  
03C2 636 :* TEST CASE NAME: SFCRG22  
03C2 637 :*  
03C2 638 :* SYSTEM SERVICE: CNTREG  
03C2 639 :*  
03C2 640 :* ARGUMENT UNDER TEST: RETADR_CRG22  
03C2 641 :*  
03C2 642 :* INPUT CONDITIONS:  
03C2 643 :* FIRST LONGWORD OF RETURN ADDRESS FIELD IN ACCESSIBLE  
03C2 644 :* PSECT, SECOND LONGWORD IN NON-ACCESSIBLE PSECT.  
03C2 645 :*  
03C2 646 :* EXPECTED RESULTS:  
03C2 647 :* 1) SYSTEM STATUS CODE: ACCVIO  
03C2 648 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
03C2 649 :*  
03C2 650 :*****  
03C2 651 :--  
03C2 652 :  
03C2 653 :  
03C2 654 : NEXT_TEST_CASE SFCRG23
```

SATSSF12
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:40:53 VAX/VMS Macro V04-00
SF CRG23 5-SEP-1984 04:28:55 [UETPSY.SRC]SATSSF12.MAR;1

Page 24
(1)

SA
VO4

```
03CE 655 :  
03CE 656 :++  
03CE 657 :*****  
03CE 658 :*
```

```
03CE 660 : * TEST CASE NAME:          SFCRG23
03CE 661 : *
03CE 662 : * SYSTEM SERVICE:          CNTREG
03CE 663 : *
03CE 664 : * ARGUMENT UNDER TEST:     RETADR_CRG23
03CE 665 : *
03CE 666 : * INPUT CONDITIONS:
03CE 667 : *   FIRST LONGWORD OF RETURN ADDRESS FIELD BEGINS IN ACCESSIBLE
03CE 668 : *   PSECT, ENDS IN NON-ACCESSIBLE PSECT.
03CE 669 : *
03CE 670 : * EXPECTED RESULTS:
03CE 671 : *   1) SYSTEM STATUS CODE:  ACCV10
03CE 672 : *   2) REGISTERS R2 THROUGH FP UNCHANGED
03CE 673 : *
03CE 674 : * *****
03CE 675 : *
03CE 676 : *
03CE 677 : *
03CE 678 : * NEXT_TEST_CASE  SFCRG24
```

```
03DA 679 :  
03DA 680 :++  
03DA 681 :*****  
03DA 682 :*  
03DA 683 :* TEST CASE NAME: SFCRG24  
03DA 684 :*  
03DA 685 :* SYSTEM SERVICE: CNTREG  
03DA 686 :*  
03DA 687 :* ARGUMENT UNDER TEST: RETADR_CRG24  
03DA 688 :*  
03DA 689 :* INPUT CONDITIONS:  
03DA 690 :* SECOND LONGWORD OF RETURN ADDRESS FIELD BEGINS IN ACCESSIBLE  
03DA 691 :* PSECT, ENDS IN NON-ACCESSIBLE PSECT.  
03DA 692 :*  
03DA 693 :* EXPECTED RESULTS:  
03DA 694 :* 1) SYSTEM STATUS CODE: ACCVIO  
03DA 695 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
03DA 696 :*  
03DA 697 :*****  
03DA 698 :--  
03DA 699 :  
03DA 700 :  
03DA 701 : TCEND
```

SATSSF12
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. ^{L 3} 16-SEP-1984 00:40:53 VAX/VMS Macro V04-00 Page 27
5-SEP-1984 04:28:55 [UETPSY.SRC]SATSSF12.MAR;1 (2)

03DB	702	:		
03DB	703	:	TC_GROUP	SPT,1,TS3
0402	704	:		
0402	705	:	NEXT_TEST_CASE	SFSPT10

```
0402 706 :  
0402 707 :++  
0402 708 :*****  
0402 709 :*  
0402 710 :* TEST CASE NAME:          SFSPT10  
0402 711 :*  
0402 712 :* SYSTEM SERVICE:          SETPRT  
0402 713 :*  
0402 714 :* ARGUMENT UNDER TEST:     INADR_SPT10  
0402 715 :*  
0402 716 :* INPUT CONDITIONS:  
0402 717 :*   SET PROTECTION FOR A PAGE OWNED BY EXEC MODE.  
0402 718 :*  
0402 719 :* EXPECTED RESULTS:  
0402 720 :*   1) SYSTEM STATUS CODE:  PAGOWNVIO  
0402 721 :*   2) REGISTERS R2 THROUGH FP UNCHANGED  
0402 722 :*  
0402 723 :*****  
0402 724 :--  
0402 725 :  
0402 726 :   MODE    TO,10$,EXEC,NOREGS      ; GET INTO EXEC MODE FOR EXPREG  
041F 727 :   $EXPREG_S PAGCNT=#1, RETADR=EXP_RANGE  
0432 728 :   ; GET A 1-PAGE REGION OWNED BY EXEC MODE  
0432 729 :   MODE    FROM,10$                ; BACK TO USER MODE  
0433 730 :   MOVQ   EXP_RANGE,INADR_SPT10    ; POINT TO EXEC-OWNED RANGE  
043E 731 :  
043E 732 :   NEXT_TEST_CASE  SFSPT11
```

000000B5'EF 000000BD'EF 7D

```
044A 733 :
044A 734 :++
044A 735 :*****
044A 736 :*
044A 737 :* TEST CASE NAME: SFSPT11
044A 738 :*
044A 739 :* SYSTEM SERVICE: SETPRT
044A 740 :*
044A 741 :* ARGUMENT UNDER TEST: INADR_SPT11
044A 742 :*
044A 743 :* INPUT CONDITIONS:
044A 744 :* SET PROTECTION ON A RANGE OF PAGES IN SYSTEM SPACE.
044A 745 :*
044A 746 :* EXPECTED RESULTS:
044A 747 :* 1) SYSTEM STATUS CODE: NOPRIV
044A 748 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
044A 749 :*
044A 750 :*****
044A 751 :--
044A 752 :
044A 753 : MODE TO,20$,EXEC,NOREGS ; INTO EXEC MODE FOR CNTREG
0467 754 : $CNTREG_S PAGCNT=#1 ; GIVE BACK PAGE ACQUIRED BY SFSPT10
0476 755 : MODE FROM,20$ ; BACK TO USER MODE
0477 756 :
0477 757 : NEXT_TEST_CASE SFSPT12
```



```

0483 758 :
0483 759 :++
0483 760 :*****
0483 761 :*
0483 762 :* TEST CASE NAME: SFSPT12
0483 763 :*
0483 764 :* SYSTEM SERVICE: SETPRT
0483 765 :*
0483 766 :* ARGUMENT UNDER TEST: INADR_SPT12
0483 767 :*
0483 768 :* INPUT CONDITIONS:
0483 769 :* SET PROTECTION ON A NON-EXISTENT PAGE.
0483 770 :*
0483 771 :* EXPECTED RESULTS:
0483 772 :* 1) SYSTEM STATUS CODE: LENVIO
0483 773 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
0483 774 :*
0483 775 :*****
0483 776 :--
0483 777 :
0483 778 : MOVQ EXP_RANGE,INADR_SPT12 ; POINT TO NOW UNAVAILABLE RANGE
048E 779 :
048E 780 : NEXT_TEST_CASE SFSPT13

```

00000C5'EF 00000BD'EF 7D

```
049A 781 :  
049A 782 :++  
049A 783 :*****  
049A 784 :*  
049A 785 :* TEST CASE NAME: SFSPT13  
049A 786 :*  
049A 787 :* SYSTEM SERVICE: SETPRT  
049A 788 :*  
049A 789 :* ARGUMENT UNDER TEST: INADR_SPT13  
049A 790 :*  
049A 791 :* INPUT CONDITIONS:  
049A 792 :* INPUT ADDRESS FIELD AT LOCATION 0.  
049A 793 :*  
049A 794 :* EXPECTED RESULTS:  
049A 795 :* 1) SYSTEM STATUS CODE: ACCVIO  
049A 796 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
049A 797 :*  
049A 798 :*****  
049A 799 :--  
049A 800 :  
049A 801 :  
049A 802 : NEXT_TEST_CASE SFSPT14
```

```
04A6 803 :  
04A6 804 :++  
04A6 805 :*****  
04A6 806 :*  
04A6 807 :* TEST CASE NAME: SFSPT14  
04A6 808 :*  
04A6 809 :* SYSTEM SERVICE: SETPRT  
04A6 810 :*  
04A6 811 :* ARGUMENT UNDER TEST: INADR_SPT14  
04A6 812 :*  
04A6 813 :* INPUT CONDITIONS:  
04A6 814 :* INPUT ADDRESS FIELD IN NON-ACCESSIBLE PSECT.  
04A6 815 :*  
04A6 816 :* EXPECTED RESULTS:  
04A6 817 :* 1) SYSTEM STATUS CODE: ACCVIO  
04A6 818 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
04A6 819 :*  
04A6 820 :*****  
04A6 821 :--  
04A6 822 :  
04A6 823 :  
04A6 824 : NEXT_TEST_CASE SFSPT20
```

```
04B2 825 :  
04B2 826 *  
04B2 827 *-----*  
04B2 828 *  
04B2 829 * TEST CASE NAME: SFSPT20  
04B2 830 *  
04B2 831 * SYSTEM SERVICE: SETPRT  
04B2 832 *  
04B2 833 * ARGUMENT UNDER TEST: RETADR_SPT20  
04B2 834 *  
04B2 835 * INPUT CONDITIONS:  
04B2 836 * RETURN ADDRESS FIELD AT LOCATION 1.  
04B2 837 *  
04B2 838 * EXPECTED RESULTS:  
04B2 839 * 1) SYSTEM STATUS CODE: ACCVIO  
04B2 840 * 2) REGISTERS R2 THROUGH FP UNCHANGED  
04B2 841 *  
04B2 842 *-----*  
04B2 843 *  
04B2 844 *  
04B2 845 *  
04B2 846 * NEXT_TEST_CASE SFSPT21
```

```
04BE 847 :
04BE 848 :
04BE 849 :*****
04BE 850 :
04BE 851 : * TEST CASE NAME:          SFSPT21
04BE 852 : *
04BE 853 : * SYSTEM SERVICE:         SETPRT
04BE 854 : *
04BE 855 : * ARGUMENT UNDER TEST:    RETADR_SPT21
04BE 856 : *
04BE 857 : * INPUT CONDITIONS:
04BE 858 : *   RETURN ADDRESS FIELD IN READ-ONLY PSECT.
04BE 859 : *
04BE 860 : * EXPECTED RESULTS:
04BE 861 : *   1) SYSTEM STATUS CODE: ACCVIO
04BE 862 : *   2) REGISTERS R2 THROUGH FP UNCHANGED
04BE 863 : *
04BE 864 :*****
04BE 865 :--
04BE 866 :
04BE 867 :
04BE 868 : NEXT_TEST_CASE SFSPT22
```

```
04CA 869 :  
04CA 870 :++  
04CA 871 :*****  
04CA 872 :*  
04CA 873 :* TEST CASE NAME: SFSPT22  
04CA 874 :*  
04CA 875 :* SYSTEM SERVICE: SETPRT  
04CA 876 :*  
04CA 877 :* ARGUMENT UNDER TEST: RETADR_SPT22  
04CA 878 :*  
04CA 879 :* INPUT CONDITIONS:  
04CA 880 :* SECOND LONGWORD OF RETURN ADDRESS FIELD BEGINS IN  
04CA 881 :* ACCESSIBLE PSECT, ENDS IN NON-ACCESSIBLE PSECT.  
04CA 882 :*  
04CA 883 :* EXPECTED RESULTS:  
04CA 884 :* 1) SYSTEM STATUS CODE: ACCVIO  
04CA 885 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
04CA 886 :*  
04CA 887 :*****  
04CA 888 :--  
04CA 889 :  
04CA 890 :  
04CA 891 : NEXT_TEST_CASE SFSPT40
```

```
04D6 892 :  
04D6 893 :++  
04D6 894 :*****  
04D6 895 :*  
04D6 896 :* TEST CASE NAME:          SFSPT40  
04D6 897 :*  
04D6 898 :* SYSTEM SERVICE:          SETPRT  
04D6 899 :*  
04D6 900 :* ARGUMENT UNDER TEST:     PROT_SPT40  
04D6 901 :*  
04D6 902 :* INPUT CONDITIONS:  
04D6 903 :*   PROTECTION CODE 1 SPECIFIED.  
04D6 904 :*  
04D6 905 :* EXPECTED RESULTS:  
04D6 906 :*   1) SYSTEM STATUS CODE:  IVPROTECT  
04D6 907 :*   2) REGISTERS R2 THROUGH FP UNCHANGED  
04D6 908 :*  
04D6 909 :*****  
04D6 910 :--  
04D6 911 :  
04D6 912 :  
04D6 913 :   NEXT_TEST_CASE  SFSPT41
```

```
04E2 914 :  
04E2 915 :++  
04E2 916 :*****  
04E2 917 :*  
04E2 918 :* TEST CASE NAME:          SFSPT41  
04E2 919 :*  
04E2 920 :* SYSTEM SERVICE:          SETPRT  
04E2 921 :*  
04E2 922 :* ARGUMENT UNDER TEST:     PROT_SPT41  
04E2 923 :*  
04E2 924 :* INPUT CONDITIONS:  
04E2 925 :*   PROTECTION CODE 16 SPECIFIED.  
04E2 926 :*  
04E2 927 :* EXPECTED RESULTS:  
04E2 928 :*   1) SYSTEM STATUS CODE:  IVPROTECT  
04E2 929 :*   2) REGISTERS R2 THROUGH FP UNCHANGED  
04E2 930 :*  
04E2 931 :*****  
04E2 932 :--  
04E2 933 :  
04E2 934 :  
04E2 935 :      NEXT_TEST_CASE  SFSPT50
```



```
04EE 936 :  
04EE 937 :++  
04EE 938 :*****  
04EE 939 :*  
04EE 940 :* TEST CASE NAME: SFSPT50  
04EE 941 :*  
04EE 942 :* SYSTEM SERVICE: SETPRT  
04EE 943 :*  
04EE 944 :* ARGUMENT UNDER TEST: PRVPRT_SPT50  
04EE 945 :*  
04EE 946 :* INPUT CONDITIONS:  
04EE 947 :* PREVIOUS PROTECTION FIELD AT LOCATION 1.  
04EE 948 :*  
04EE 949 :* EXPECTED RESULTS:  
04EE 950 :* 1) SYSTEM STATUS CODE: ACCVIO  
04EE 951 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
04EE 952 :*  
04EE 953 :*****  
04EE 954 :--  
04EE 955 :  
04EE 956 :  
04EE 957 : NEXT_TEST_CASE SFSPT51
```

```
04FA 958 :  
04FA 959 :  
04FA 960 :*****  
04FA 961 :*  
04FA 962 :* TEST CASE NAME: SFSPT51  
04FA 963 :*  
04FA 964 :* SYSTEM SERVICE: SETPRT  
04FA 965 :*  
04FA 966 :* ARGUMENT UNDER TEST: PRVPRT_SPT51  
04FA 967 :*  
04FA 968 :* INPUT CONDITIONS:  
04FA 969 :* PREVIOUS PROTECTION FIELD IN READ-ONLY PSECT.  
04FA 970 :*  
04FA 971 :* EXPECTED RESULTS:  
04FA 972 :* 1) SYSTEM STATUS CODE: ACCVIO  
04FA 973 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
04FA 974 :*  
04FA 975 :*****  
04FA 976 :--  
04FA 977 :  
04FA 978 :  
04FA 979 : TCEND
```

SAT
Syn

SSS
SSS
SSS
SSA
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SSA
SSA
SSC
SSC
SSC
SSE
SSE
SSJ
SSM
SSF
SSS
SS1
SS1
SS1
SS1
ACP
ACP
ACP
CHP
CHP
CLE
CLC
CTL
CUR
EMP
ERR
ERR
EXE
EXP
GRF
INA
INA
INA
INA
INA
INA
INF
LIE
ME)
MOE
MOE
NAP
NOA
NSS
ONE
OUT
OUT
OUT
OUT
PAC
PAC
PAC
PAC

SATSSF12
V04-000

04FB	980	:		
04FB	981	:	TC_GROUP	SSM,1,TS4
0522	982	:		
0522	983	:	NEXT_TEST_CASE	SFSSM10

SAT
Sym
SSB
SSB
SSB
SSB
SSB
STS
SUC
SWP
SWP
SYS
SYS
SYS
SYS
SYS
SYS
SYS
SYS
SYS
SYS
SYS
SYS
SYS
SYS
SYS
TC1
TC2
TC3
TC4
TCG
TC
TES
TES
TES
TES
TES
TMD
TMN
TPI
TS1
TS2
TS3
TS4
TS
TTR
UET
UET
WAR

```

0522 984 :
0522 985 :++
0522 986 :*****
0522 987 :*
0522 988 :* TEST CASE NAME: SFSSM10
0522 989 :*
0522 990 :* SYSTEM SERVICE: SETSWM
0522 991 :*
0522 992 :* ARGUMENT UNDER TEST: SWPFLG_SSM10
0522 993 :*
0522 994 :* INPUT CONDITIONS:
0522 995 :* USER DOES NOT HAVE THE PRIVILEGE TO ALTER
0522 996 :* PROCESS SWAP MODE.
0522 997 :*
0522 998 :* EXPECTED RESULTS:
0522 999 :* 1) SYSTEM STATUS CODE: NOPRIV
0522 1000 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
0522 1001 :*
0522 1002 :*****
0522 1003 :--
0522 1004 :
0522 1005 : PRIV REM,PSWAPM ; REMOVE SWAP MODE PRIVILEGE
0542 1006 :
0542 1007 : TCEND

```

PSE

\$AB
ROD
RWD
SAT
SAT
SAT

Pha

Ini
Com
Pas
Sym
Pas
Sym
Pse
Cro
Ass

The
101
The
129
67

Mac

-S2
-S2
-S2
TOT

130

The

MAC

```
0543 1008 TS1:
0543 1009 TESTSERV EXPREG,ERR,SATS,
0543 1010
0543 1011 <1,PAGCNT_ERG,
0543 1012 PAGCNT_ERG10,ILLPAGCNT, - : SFERG10
0543 1013 PAGCNT_ERG11,ILLPAGCNT, - : SFERG11
0543 1014 PAGCNT_ERG12,ILLPAGCNT, - : SFERG12
0543 1015 >,
0543 1016
0543 1017 <1,RETADR_ERG,
0543 1018 RETADR_ERG20,ACCVIO, - : SFERG20
0543 1019 RETADR_ERG21,ACCVIO, - : SFERG21
0543 1020 RETADR_ERG22,ACCVIO, - : SFERG22
0543 1021 RETADR_ERG23,ACCVIO, - : SFERG23
0543 1022 RETADR_ERG24,ACCVIO, - : SFERG24
0543 1023 >,
0543 1024
0543 1025 <1,ACMODE_ERG,
0543 1026 >,
0543 1027
0543 1028 <1,REGION_ERG,
0543 1029 >,
0543 1030
07E9 1031 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
0809 1032 TS2:
0809 1033 TESTSERV CNTREG,ERR,SATS,
0809 1034
0809 1035 <1,PAGCNT_CRG,
0809 1036 PAGCNT_CRG10,ILLPAGCNT, - : SF CRG10
0809 1037 PAGCNT_CRG11,ILLPAGCNT, - : SF CRG11
0809 1038 PAGCNT_CRG12,ILLPAGCNT, - : SF CRG12
0809 1039 PAGCNT_CRG13,PAGOWNVIO, - : SF CRG13
0809 1040 >,
0809 1041
0809 1042 <1,RETADR_CRG,
0809 1043 RETADR_CRG20,ACCVIO, - : SF CRG20
0809 1044 RETADR_CRG21,ACCVIO, - : SF CRG21
0809 1045 RETADR_CRG22,ACCVIO, - : SF CRG22
0809 1046 RETADR_CRG23,ACCVIO, - : SF CRG23
0809 1047 RETADR_CRG24,ACCVIO, - : SF CRG24
0809 1048 >,
0809 1049
0809 1050 <1,ACMODE_CRG,
0809 1051 >,
0809 1052
0809 1053 <1,REGION_CRG,
0809 1054 >,
0809 1055
0AB7 1056 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
OAD7 1057 TS3:
OAD7 1058 TESTSERV SETPRT,ERR,SATS,
OAD7 1059
OAD7 1060 <1,INADR_SPT,
OAD7 1061 INADR_SPT10,PAGOWNVIO, - ; SFSPT10
OAD7 1062 INADR_SPT11,NOPRIV, - ; SFSPT11
OAD7 1063 INADR_SPT12,LENVIO, - ; SFSPT12
OAD7 1064 INADR_SPT13,ACCVIO, - ; SFSPT13
OAD7 1065 INADR_SPT14,ACCVIO, - ; SFSPT14
OAD7 1066 >,
OAD7 1067
OAD7 1068 <1,RETADR_SPT,
OAD7 1069 RETADR_SPT20,ACCVIO, - ; SFSPT20
OAD7 1070 RETADR_SPT21,ACCVIO, - ; SFSPT21
OAD7 1071 RETADR_SPT22,ACCVIO, - ; SFSPT22
OAD7 1072 >,
OAD7 1073
OAD7 1074 <1,ACMODE_SPT,
OAD7 1075 >,
OAD7 1076
OAD7 1077 <1,PROT_SPT,
OAD7 1078 PROT_SPT40,IVPROTECT, - ; SFSPT40
OAD7 1079 PROT_SPT41,IVPROTECT, - ; SFSPT41
OAD7 1080 >,
OAD7 1081
OAD7 1082 <1,PRVPRT_SPT,
OAD7 1083 PRVPRT_SPT50,ACCVIO, - ; SFSPT50
OAD7 1084 PRVPRT_SPT51,ACCVIO, - ; SFSPT51
OAD7 1085 >,
OAD7 1086
OE37 1087 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXFC
```

```
OE57 1088 TS4:
OE57 1089 TESTSERV SETSWM,ERR,SATS, -
OE57 1090 <1,SWPFLG_SSM, -
OE57 1091 SWPFLG_SSM10,NOPRIV, - ; SFSSM10
OE57 1092 >, -
OE57 1093
OE57 1094 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC
OF1A 1095
```


SATSSF12
V04-000

00000044'EF 01 1C 0138 30
FO

```
OF3A 1096 .SBTTL EXECUTE & CLEANUP
OF3A 1097 EXECUTE:
OF3A 1098 TEST_SERV_EXEC ; EXECUTE ALL T. CASES IN ALL GROUPS
OF62 1099 CLEANUP:
OF62 1100 BSBW MOD_MSG_PRINT ; PRINT TEST MODULE END MSG
OF65 1101 INSV #1,STSV_INHIB_MSG,#1,MOD_MSG_CODE ; INHIBIT PRINTING
OF6E 1102 ; INHIBIT PRINTING
OF6E 1103 $EXIT,S MOD_MSG_CODE ; EXIT TO OP SYS WITH MSG CODE
```

```

OF7B 1105      .SBTTL TC_CONTROL
OF7B 1106      :++
OF7B 1107      : FUNCTIONAL DESCRIPTION:
OF7B 1108      :
OF7B 1109      :           THE TC CONTROL SUBROUTINE IS CALLED BY THE TEST_SERV_EXEC
OF7B 1110      : MACRO TO EXECUTE A GROUP OF TEST CASES. A GROUP IS DEFINED BY A TC_GROUP
OF7B 1111      : MACRO. FOR EACH TC_GROUP MACRO, THERE IS A CORRESPONDING TESTSERV_MACRO.
OF7B 1112      : TESTSERV CONTAINS CODE TO EXECUTE SYSTEM SERVICES AND CHECK THE RETURNED
OF7B 1113      : STATUS CODE VALUES. TESTSERV ARGUMENTS ARE CODED TO SPECIFY ALL THE SYSTEM
OF7B 1114      : SERVICE ARGUMENT VALUES AND THE EXPECTED STATUS CODE FOR EACH TEST CASE
OF7B 1115      : DEFINED BY A NEXT TEST CASE MACRO WITHIN THE GROUP. TC_CONTROL USES A
OF7B 1116      : CO-ROUTINE INTERFACE TO ENTER THE CODE OF THE APPROPRIATE TESTSERV_MACRO
OF7B 1117      : IN VARIOUS PLACES. THE FIRST ENTRY OCCURS ONCE PER GROUP TO ALLOW TESTSERV
OF7B 1118      : TO DO SOME INITIALIZATION. THEN TWO ENTRIES ARE MADE FOR EACH TEST CASE IN
OF7B 1119      : THE GROUP. THE FIRST ALLOWS TESTSERV TO ISSUE THE SUBJECT SYSTEM SERVICE.
OF7B 1120      : THE SECOND ENTRY FOR THE TEST CASE CAUSES TESTSERV TO CHECK THE RETURNED
OF7B 1121      : STATUS CODE, PRINTING A FAILURE MESSAGE IF IT IS NOT THE EXPECTED CODE.
OF7B 1122      : IF THERE ARE NO MORE TEST CASES IN THE CURRENT GROUP, TESTSERV (NOT TC_CONTROL)
OF7B 1123      : RETURNS DIRECTLY TO TEST_SERV_EXEC (RSB ACTUALLY ISSUED IN TS_CLEANUP_MACRO)
OF7B 1124      : FROM THIS SECOND ENTRY; OTHERWISE, CONTROL RETURNS TO TC_CONTROL WHICH
OF7B 1125      : IN TURN ENTERS TESTSERV AGAIN FOR THE NEXT TEST CASE. THE FAILURE OF A
OF7B 1126      : TEST CASE DOES NOT CAUSE TERMINATION OF THE TEST MODULE.
OF7B 1127      :
OF7B 1128      : CALLING SEQUENCE:
OF7B 1129      :
OF7B 1130      :           BSBW TC_CONTROL (ISSUED WITHIN THE TEST_SERV_EXEC_MACRO)
OF7B 1131      :           (RSB IS ISSUED WITHIN THE TS_CLEANUP_MACRO)
OF7B 1132      :
OF7B 1133      : INPUT PARAMETERS:
OF7B 1134      :
OF7B 1135      :           NONE
OF7B 1136      :
OF7B 1137      : IMPLICIT INPUTS:
OF7B 1138      :
OF7B 1139      :           ARGUMENTS SPECIFIED ON EACH TESTSERV_MACRO MAY BE VIEWED AS
OF7B 1140      :           INPUTS, SINCE TC_CONTROL AND TESTSERV ACT AS CO-ROUTINES.
OF7B 1141      :
OF7B 1142      : OUTPUT PARAMETERS:
OF7B 1143      :
OF7B 1144      :           SEVERITY CODE FIELD OF MOD_MSG_CODE (BITS 0,1,2) IS SET TO ERROR
OF7B 1145      :           IF ANY TEST CASE IN THE CURRENT GROUP FAILS; OTHERWISE IT REMAINS
OF7B 1146      :           SET TO SUCCESSFUL.
OF7B 1147      :
OF7B 1148      : IMPLICIT OUTPUTS:
OF7B 1149      :
OF7B 1150      :           %UETP-I-TEXT,  ERROR MESSAGES ARE WRITTEN TO SYS$OUTPUT BY
OF7B 1151      :           THE TESTSERV_MACRO (CO-ROUTINE WITH TC_CONTROL)
OF7B 1152      :
OF7B 1153      : COMPLETION CODES:
OF7B 1154      :
OF7B 1155      :           NONE
OF7B 1156      :
OF7B 1157      : SIDE EFFECTS:
OF7B 1158      :
OF7B 1159      :           NONE
OF7B 1160      :
OF7B 1161      :--

```

		OF7B	1162						
		OF7B	1163						
		OF7B	1164						
		OF7B	1165	TC_CONTROL:					
00000064'EF	DD	OF7B	1166	PUSHL	TS EP			:	PUSH TESTSERV ENTRY POINT
	9E	16	OF81	1167	JSB	@(SP)+		:	ENTER TESTSERV INITIALIZATION
			OF83	1168	10\$:			:	PROCESS NEXT TEST CASE
00000056'EF	20	90	OF83	1169	MOVB	#*A/ /, \$STSTNSS+2		:	MAKE SURE T.C. NAME HAS A BLANK
	002F	30	OF8A	1170	BSBW	REG_SAVE		:	SAVE REGISTERS
00000004'FF	16	OF8D	1171	JSB	@CURRENT_TC			:	JUMP TO CURRENT TEST CASE
	0037	30	OF93	1172	BSBW	REG_REST		:	RESTORE REGS FOR TESTSERV
	9E	16	OF96	1173	JSB	@(SP)+		:	LET TESTSERV ISSUE SYSTEM SERVICE
	0042	30	OF98	1174	BSBW	REG_COMP		:	COMPARE REGS TO SEE IF ...
			OF9B	1175				:	... SYSTEM SERVICE CHANGED ANY
	9E	16	OF9B	1176	JSB	@(SP)+		:	LET TESTSERV CHEK S.S. STATUS CODE
00000056'EF	2A	91	OF9D	1177	CMPB	#*A/*/, \$STSTNSS+2		:	HAS TESTSERV INDICATED FAILURE ?
	DD	12	OFA4	1178	BNEQU	10\$:	NO -- PROCESS NEXT TEST CASE
00000060'EF	00000088'EF	DE	OFA6	1179	MOVAL	TEST_MOD_FAIL, TMD_ADDR		:	YES -- INDICATE FAILED IN END MSG
00000044'EF	03 00	O2	OFB1	1180	INSV	#ERROR, #0, #3, MOD_MSG_CODE		:	ADJUST STATUS CODE FOR ERROR
		C7	11	OFBA	1181	BRB	10\$:	LOOP BAK TO PROCESS NEXT TEST CASE
				OFBC	1182	:		:	
				OFBC	1183	:		:	
				OFBC	1184	:		:	

TC_CONTROL RETURNS TO TEST_SERV_EXEC VIA TESTSERV (IN TS_CLEANUP MACRO)

```
                                .SBTTL SUBROUTINES
                                REG_SAVE:
                                *****
                                *
                                * SAVES R0 THRU SP IN REG_SAVE_AREA
                                *
                                *****
00000008'EF 7FFF 8F BB OFBC 1186
              6E 3C 28 OFBC 1187
              7FFF 8F BA OFBC 1188
              OFBC 1189
              OFBC 1190
              OFBC 1191
              OFBC 1192
              OFBC 1193
              OFBC 1194
              OFBC 1195          PUSHR #R0_THRU_SP          ; SAVE ALL REGS ON STACK
              OFCD 1196          MOVCL #60,(SP),REG_SAVE_AREA ; SAVE REGS (BEFORE S.S.)
              OFCB 1197          POPR  #R0_THRU_SP          ; CLEAN UP STACK
              OFCC 1198          RSB                      ; .... AND RETURN
              OFCD 1199
              OFCD 1200
              OFCD 1201
              OFCD 1202
              OFCD 1203 REG_REST:
              OFCD 1204
              OFCD 1205
              OFCD 1206          *****
              OFCD 1207          *
              OFCD 1208          * RESTORES R0 THRU SP FROM REG_SAVE_AREA
              OFCD 1209          *
              OFCD 1210          *****
              OFCD 1211
              OFCD 1212          SUBL2 #60,SP          ; MOVE SP TO MAKE ROOM FOR REGS
              OFD0 1213          MOVCL #60,REG_SAVE_AREA,(SP) ; MOVE REGS ONTO STACK FOR POP
              OFD8 1214          POPR  #R0_THRU_SP          ; RESTORE ALL REGS FOR TESTSERV
              OFDC 1215          RSB                      ; ... AND RETURN
```

```

OFDD 1217 REG_COMP:
OFDD 1218 :
OFDD 1219 :
OFDD 1220 :
OFDD 1221 *
OFDD 1222 * 1) PUSHES ALL REGS ONTO STACK *
OFDD 1223 * 2) COMPARES REGISTER IMAGES FROM STACK WITH CORRESPONDING *
OFDD 1224 * IMAGES FROM REG_SAVE_AREA FOR ALL REGISTERS SPECIFIED *
OFDD 1225 * IN REG_COMP_MASK. *
OFDD 1226 * 3) FOR EACH UNEQUAL COMPARE, AN ERROR MESSAGE IS PRINTED *
OFDD 1227 * (USING $FAO AND $OUTPUT SYSTEM SERVICES). *
OFDD 1228 * 4) POPS ALL REGS OFF OF STACK *
OFDD 1229 :
OFDD 1230 :
OFDD 1231 :
56 7FFF 8F BB OFDD 1231 PUSHR #R0_THRU_SP ; SAVE ALL REGISTERS ON STACK
00000008'EF DE OFE1 1232 MOVAL REG_SAVE_AREA,R6 ; POINT R6 TO BEG OF
54 5E D0 OFE8 1233 ; ... REGS (BEFORE S.S.)
OFEB 1234 MOVL SP,R4 ; POINT R4 TO BEG OF
53 FF 8F 98 OFEB 1235 ; ... REGS (AFTER S.S.)
OFEB 1236 CVTBL #-1,R3 ; INITIALIZE REG_COMP_MASK INDEX
OFEF 1237 REG_COMP_NEXT:
53 53 D6 OFEF 1238 INCL R3 ; POINT TO NEXT BIT IN MASK
53 OF 91 OFF1 1239 CMPB #15,R3 ; END OF THE MASK ?
03 1A OFF4 1240 BGTRU REG_COMP_CONT ; NO -- CONTINUE
009F 31 OFF6 1241 BRW REG_COMP_RSB ; YES -- GO TO COMMON RETURN
84 86 D1 OFF9 1242 REG_COMP_CONT:
OFF9 1243 CMPL (R6)+,(R4)+ ; REG BEFORE = REG AFTER ?
E9 00000000'EF F1 13 OFFC 1244 BEQLU REG_COMP_NEXT ; YES -- LOOK FOR NEXT REG
53 E1 OFFE 1245 BBC R3,REG_COMP_MASK,REG_COMP_NEXT ; NO -- GET NEXT IF BIT NOT SET
1006 1246 ; NO -- GIVE REG NUMBER TO FAO
00000048'EF 53 D0 1006 1247 MOVL R3,CLOB_REG_NO ; GIVE 'BEFORE' CONTENTS TO FAO
0000004C'EF FC A6 D0 100D 1248 MOVL -4(R6),REG_BEFORE_SS ; GIVE 'AFTER' CONTENTS TO FAO
00000050'EF FC A4 D0 1015 1249 MOVL -4(R4),REG_AFTER_SS ; GIVE FAILURE INDIC'N IN ERROR MSG
00000056'EF 2A 90 101D 1250 MOVB #A/*/, $$TSTN$$+2
1024 1251 :
1024 1252 $FAO_S ERR MSG FAOCTL,OUTL,OUTD,$$SNAD$$, -
1024 1253 $$ASEQ$$,$$PSEQ$$,CLOB_REG_NO,REG_BEFORE_SS,REG_AFTER_SS
1057 1254 :
F0B6 CF F080 CF B0 1057 1255 MOVW OUTL,OUTD ; ACTUAL OUTPUT LEN IN STRING DESC'R
105E 1256 PUTMSG <#UETPS TEXT,#1,#OUTD> ; PRINT THE MSG
F09A CF 0084 8F B0 1073 1257 MOVW #OUTE-OUTB,OUTD ; GET MAX LEN BACK INTO DESCRIPTOR
00000056'EF 20 90 107A 1258 MOVB #A/ /,$$TSTN$$+2 ; REMOVE FAIL INDIC'N FOR NEXT MSG
00000060'EF 00000088'EF DE 1081 1259 MOVAL TEST_MOD_FAIL,TMD_ADDR ; INDICATE FAILED IN END MSG
00000044'EF 03 00 02 F0 108C 1260 INSV #ERROR,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR ERROR
FF57 31 1095 1261 BRW REG_COMP_NEXT ; GO LOOK FOR NEXT REG TO COMPARE
1098 1262 REG_COMP_RSB:
7FFF 8F BA 1098 1263 POPR #R0_THRU_SP ; CLEAN UP STACK
05 109C 1264 RSB ; RETURN TO CALLER

```

```
109D 1266 MOD_MSG_PRINT:
109D 1267 :
109D 1268 : *****
109D 1269 : *
109D 1270 : * PRINTS THE TEST MODULE BEGUN/SUCCESSFUL/FAILED MESSAGES *
109D 1271 : * (USING THE PUTMSG MACRO). *
109D 1272 : *
109D 1273 : *****
109D 1274 :
05 109D 1275 PUTMSG <MOD_MSG_CODE,#2,TMN_ADDR,TMD_ADDR> : PRINT MSG
1088 1276 RSB ; ...-AND RETURN TO CALLER
1089 1277 :
1089 1278 CHMRTN:
1089 1279 : *****
1089 1280 : *
1089 1281 : * CHANGE MODE ROUTINE. THIS ROUTINE GETS CONTROL WHENEVER
1089 1282 : * A CMKRNL, CMEXEC, OR CMSUP SYSTEM SERVICE IS ISSUED
1089 1283 : * BY THE MODE MACRO ('TO' OPTION). IT MERELY DOES
1089 1284 : * A JUMP INDIRECT ON A FIELD SET UP BY MODE. IT HAS
1089 1285 : * THE EFFECT OF RETURNING TO THE END OF THE MODE
1089 1286 : * MACRO EXPANSION.
1089 1287 : *
1089 1288 : *****
1089 1289 :
0000079'FF 0000 1089 1290 .WORD 0 ; ENTRY MASK
17 1088 1291 JMP @CHM_CONT ; RETURN TO MODE MACRO IN NEW MODE
10C1 1292 :
10C1 1293 : * RET INSTR WILL BE ISSUED IN EXPANSION OF 'MODE FROM, ....' MACRO
10C1 1294 :
10C1 1295 .END SATSSF12
```

SSSCHARS	= 00000048		PAGCNT_ERG	000000BD	R	02
SSSFIRSTICSSS	= 00000000		PAGCNT_ERG10	00000091	R	03
SSSTRINGS	= 00000000		PAGCNT_ERG11	00000091	R	03
SSACTSS	000000F3	R 06	PAGCNT_ERG12	00000091	R	03
SSARGSS	000000FB	R 06	PHDSQ_PRIVMSK	= 00000000		
SSASEQSS	000000EB	R 06	PRIVMASK	00000071	R	03
SSCALLSS	000000DF	R 06	PRIV_ARGS	= 00000002		
SSDISPSS	000001E6	R 06	PROT	000000B1	R	02
SSERRSS	000001A0	R 06	PROT_SPT	000000F1	R	02
SSEXPSS	000000F7	R 06	PROT_SPT40	000000F5	R	02
SSINITSS	000000E3	R 06	PROT_SPT41	000000F9	R	02
SSMAXPSS	= 00000005		PRTSC_NA	*****	X	02
SSPSEQSS	000000EF	R 06	PRTSC_RESERVED	*****	X	02
SSSNADSS	000000E7	R 06	PRTSC_UW	*****	X	02
SST1	= 00000004		PRVSV_PSWAPM	= 0000000C		
SST2	= 00000009		PRVPRT	00000070	R	03
SSTSTNSS	00000054	R 03	PRVPRT_SPT	000000D5	R	03
ACMODE_CRG	000000C9	R 02	PRVPRT_SPT50	= 00000001		
ACMODE_ERG	000000C9	R 02	PRVPRT_SPT51	000000FD	R	02
ACMODE_SPT	000000C9	R 02	PSLSC_USER	= 00000003		
CHMRTN	000010B9	R 06	RO_THRU_SP	= 00007FFF		
CHM_CONT	00000079	R 03	REGION_CRG	000000CD	R	02
CLEANUP	00000F62	R 06	REGION_ERG	000000CD	R	02
CLOB_REG_NO	00000048	R 03	REGS	0000007D	R	03
CTLSGL_PFD	*****	X 06	REG_AFTER_SS	00000050	R	03
CURRENT_TC	00000004	R 03	REG_BEFORE_SS	0000004C	R	03
EMPTY	00000000	R 04	REG_COMP	00000FDD	R	06
ERROR	= 00000002		REG_COMP_CONT	00000FF9	R	06
ERR_MSG_FAOCTL	00000002	R 02	REG_COMP_MASK	00000000	R	02
EXECUTE	00000F3A	R 06	REG_COMP_NEXT	00000FEF	R	06
EXP_RANGE	000000BD	R 03	REG_COMP_RSB	00001098	R	06
GRP_TOTAL	= 00000004		REG_REST	00000FCD	R	06
INADR	000000A9	R 02	REG_SAVE	00000FBC	R	06
INADR_SPT	000000AD	R 03	REG_SAVE_AREA	00000008	R	03
INADR_SPT10	000000B5	R 03	RETADR	00000068	R	03
INADR_SPT11	000000E1	R 02	RETADR_CRG	0000009D	R	03
INADR_SPT12	000000C5	R 03	RETADR_CRG13	000000A5	R	03
INADR_SPT13	= 00000000		RETADR_CRG20	= 00000001		
INADR_SPT14	00000008	R 05	RETADR_CRG21	000000D9	R	02
INFO	= 00000003		RETADR_CRG22	= 000001FC	R	04
LIBSSIGNAL	*****	X 06	RETADR_CRG23	= 000001FF	R	04
MEXIT	= 00000000		RETADR_CRG24	= 000001F9	R	04
MOD_MSG_CODE	00000044	R 03	RETADR_ERG	00000095	R	03
MOD_MSG_PRINT	0000109D	R 06	RETADR_ERG20	= 00000001		
NARGS	= 00000010		RETADR_ERG21	000000C1	R	02
NOACCESS	00000000	R 05	RETADR_ERG22	= 000001FC	R	04
NSSARGS	= 00000001		RETADR_ERG23	= 000001FF	R	04
ONES	000000B5	R 02	RETADR_ERG24	= 000001F9	R	04
OUTB	0000011C	R 06	RETADR_SPT	000000CD	R	03
OUTD	00000114	R 06	RETADR_SPT20	= 00000001		
OUTE	000001A0	R 06	RETADR_SPT21	000000E9	R	02
OUTL	000000DB	R 06	RETADR_SPT22	= 000001F9	R	04
PAGCNT_CRG	000000D1	R 02	SATSSF12	00000000	R	06
PAGCNT_CRG10	00000091	R 03	SEVERE	= 00000004		
PAGCNT_CRG11	00000091	R 03	SHR\$K_SHRDEF	= 00000001		
PAGCNT_CRG12	00000091	R 03	SHR\$ TEXT	= 00001130		
PAGCNT_CRG13	000000D5	R 02	SS\$_ACCVIO	*****	X	06

SATSSF12
Symbol table

- SATS SYSTEM SERVICE TESTS (FAILING S. ^{L 5} 16-SEP-1984 00:40:53 VAX/VMS Macro V04-00
5-SEP-1984 04:28:55 [UETPSY.SRC]SATSSF12.MAR;1

SSS_ILLPAGCNT	*****	X	06
SSS_IVPROTECT	*****	X	06
SSS_LENVI0	*****	X	06
SSS_NOPRIV	*****	X	06
SSS_PAGOWNVIO	*****	X	06
STSSV_INHIB_MSG	= 0000001C		
SUCCESS	= 00000001		
SWPFLG_SSM	000000FE	R	02
SWPFLG_SSM10	00000102	R	02
SYSSCMEXEC	*****	GX	06
SYSSCMKRNL	*****	GX	06
SYSSCNTREG	*****	GX	06
SYSSDELTVA	*****	GX	06
SYSSEXIT	*****	GX	06
SYSSXPREG	*****	GX	06
SYSSFAO	*****	X	06
SYSSFAOL	*****	GX	06
SYSSHIBER	*****	GX	06
SYSSSETPRN	*****	GX	06
SYSSSETPRT	*****	GX	06
SYSSSETPRV	*****	GX	06
SYSSSETSWM	*****	GX	06
SYSSWAKE	*****	GX	06
TC1	00000241	R	06
TC2	000002D6	R	06
TC3	000003DB	R	06
TC4	000004FB	R	06
TCG_NO	= 00000004		
TC CONTROL	00000F7B	R	06
TEST_MOD_BEG	00000077	R	02
TEST_MOD_FAIL	00000C88	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	00000543	R	06
TS2	00000809	R	06
TS3	00000AD7	R	06
TS4	00000E57	R	06
TS_EP	00000064	R	03
TNAME	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	00000106 (262.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	00000006 (214.)	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
SATSSF12	000010C1 (4289.)	06 (6.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC LONG

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	35	00:00:00.08	00:00:00.35
Command processing	132	00:00:00.73	00:00:02.90
Pass 1	435	00:00:18.38	00:00:36.28
Symbol table sort	0	00:00:01.23	00:00:02.36
Pass 2	247	00:00:04.72	00:00:09.80
Symbol table output	20	00:00:00.17	00:00:00.48
Psect synopsis output	4	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	875	00:00:25.37	00:00:52.22

The working set limit was 1950 pages.
101195 bytes (198 pages) of virtual memory were used to buffer the intermediate code.
There were 50 pages of symbol table space allocated to hold 678 non-local and 178 local symbols.
1295 source lines were read in Pass 1, producing 32 object records in Pass 2.
67 pages of virtual memory were used to define 51 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	24
TOTALS (all libraries)	45

1300 GETS were required to define 45 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSF12/OBJ=OBJ\$:SATSSF12 MSRC\$:SATSSF12/UPDATE=(ENH\$:SATSSF12)+EXECMLS/LIB+SHRLIB\$:UETP/LIB

