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7F

```

UUU           UUU  EEEEEEEEEEEEEEE   TTTTTTTTTTTTTTT   PPPPPPPPPPP   SSSSSSSSSSS   YYY           YYY
UUU           UUU  EEEEEEEEEEEEEEE   TTTTTTTTTTTTTTT   PPPPPPPPPPP   SSSSSSSSSSS   YYY           YYY
UUU           UUU  EEEEEEEEEEEEEEE   TTTTTTTTTTTTTTT   PPF PPPPPPPPP   SSSSSSSSSSS   YYY           YYY
UUU           UUU  EEE                               TTT           PPP           PPP   SSS           SSS   YYY           YYY
UUU           UUU  EEE                               TTT           PPP           PPP   SSS           SSS   YYY           YYY
UUU           UUU  EEE                               TTT           PPP           PPP   SSS           SSS   YYY           YYY
UUU           UUU  EEE                               TTT           PPP           PPP   SSS           SSS   YYY           YYY
UUU           UUU  EEE                               TTT           PPP           PPP   SSS           SSS   YYY           YYY
UUU           UUU  EEE                               TTT           PPP           PPP   SSS           SSS   YYY           YYY
UUU           UUU  EEE                               TTT           PPP           PPP   SSS           SSS   YYY           YYY
UUU           UUU  EEE                               TTT           PPP           PPP   SSS           SSS   YYY           YYY
UUU           UUU  EEE                               TTT           PPP           PPP   SSS           SSS   YYY           YYY
UUU           UUU  EEE                               TTT           PPP           PPP   SSS           SSS   YYY           YYY
UUU           UUU  EEE                               TTT           PPP           PPP   SSS           SSS   YYY           YYY
UUU           UUU  EEE                               TTT           PPP           PPP   SSS           SSS   YYY           YYY
UUU           UUU  EEE                               TTT           PPP           PPP   SSS           SSS   YYY           YYY
UUUUUUUUUUUUUU  EEEEEEEEEEEEEEE   TTT           PPP           PPP   SSS           SSS   YYY           YYY
UUUUUUUUUUUUUU  EEEEEEEEEEEEEEE   TTT           PPP           PPP   SSS           SSS   YYY           YYY
UUUUUUUUUUUUUU  EEEEEEEEEEEEEEE   TTT           PPP           PPP   SSS           SSS   YYY           YYY
    
```

```

GSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  FFFFFFFF  000000  222222
SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  FFFFFFFF  000000  222222
SS         AA      AA      TT         SS         SS         FF         00         00      22         22
SS         AA      AA      TT         SS         SS         FF         00         00      22         22
SS         AA      AA      TT         SS         SS         FF         00         00      22         22
SS         AA      AA      TT         SS         SS         FF         00         00      22         22
SSSSSSS   AA      AA      TT         SSSSSS   SSSSSS   FFFFFFFF  00  00  00      22         22
SSSSSSS   AA      AA      TT         SSSSSS   SSSSSS   FFFFFFFF  00  00  00      22         22
SS         AAAAAAAAAA  TT         SS         SS         FF         0000         00      22         22
SS         AAAAAAAAAA  TT         SS         SS         FF         0000         00      22         22
SS         AA      AA      TT         SS         SS         FF         00         00      22         22
SS         AA      AA      TT         SS         SS         FF         00         00      22         22
SSSSSSSS  AA      AA      TT         SSSSSSSS  SSSSSSSS  FFFFFFFF  000000  2222222222  ....
SSSSSSSS  AA      AA      TT         SSSSSSSS  SSSSSSSS  FFFFFFFF  000000  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)	202	SATSSF02
(1)	287	SFSEF10
(1)	289	SFSEF11
(1)	291	SFSEF12
(1)	293	SFSEF13
(1)	297	SFCEF10
(1)	299	SFCEF11
(1)	301	SFCEF12
(1)	303	SFCEF13
(1)	307	SFREF10
(1)	309	SFREF11
(1)	311	SFREF12
(1)	313	SFREF13
(1)	315	SFREF20
(1)	316	SFREF21
(1)	317	SFREF22
(1)	320	SFWFR10
(1)	322	SFWFR11
(1)	324	SFWFR12
(1)	326	SFWFR13
(1)	330	SFWFO10
(1)	332	SFWFO11
(1)	334	SFWFO12
(1)	336	SFWFO13
(1)	340	SFWFA10
(1)	342	SFWFA11
(1)	344	SFWFA12
(1)	346	SFWFA13
(1)	427	EXECUTE & CLEANUP
(1)	436	TC CONTROL
(1)	517	SUBROUTINES

```
0000 1 .TITLE SATSSF02 - SATS SYSTEM SERVICE TESTS (FAILING S.C.)
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 *****
0000 6 *
0000 7 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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0000 20 * CORPORATION. *
0000 21 *
0000 22 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS *
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 SATSSF02 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 $PRVDEF ; SYMBOL DEFS FOR PRIVILEGES
0000 57 $UETPDEF ; UETP MSG CODE DEFINITIONS
0000 58 $SHR_MESSAGES UETP,116,<<TEXT,INFO>>
0000 59 ; DEFINE UETP$ TEXT
0000 60 ; GET RID OF MACRO DEFINITIONS
0000 61 :
0000 62 : MACROS:
0000 63 :
0000 64 :
0000 65 : EQUATED SYMBOLS:
0000 66 :
00000000 0000 67 WARNING = 0 ; WARNING SEVERITY VALUE FOR MSGS
00000001 0000 68 SUCCESS = 1 ; SUCCESS SEVERITY VALUE FOR MSGS
00000002 0000 69 ERROR = 2 ; ERROR SEVERITY VALUE FOR MSGS
00000003 0000 70 INFO = 3 ; INFORMATIONAL SEV VALUE FOR MSGS
00000004 0000 71 SEVERE = 4 ; SEVERE (FATAL) SEV VALUE FOR MSGS
00000000 0000 72 TCG_NO = C ; INITIALIZE TEST CASE GROUP NUMBER
00000000 0000 73 GRP_TOTAL = 0 ; INITIALIZE TEST CASE GROUP TOTAL
00007FFF 0000 74 RO_THRU_SP = ^M<R0,R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP,SP>
00000001 0000 75 STATE_REF20 = 1 ; STATE ARGUMENT FOR READEF (LOC 1)
0000 76 :
0000 77 : ***** THE FOLLOWING ASSIGNMENTS (IN PHD, PCB, STS) ARE BEING MADE
0000 78 : ***** WITHOUT REFERENCE TO $PHDDEF, $PCBDEF, $STSDEF BECAUSE OF
0000 79 : ***** SYMBOL TABLE OVERFLOW. FIX THIS WHEN MORE TABLE SPACE AVAILABLE.
0000 80 :
00000000 0000 81 PHD$Q_PRIVMSK = 0 ; PRIV MASK OFFSET INTO PHD
00000020 0000 82 PCB$L_UIC = ^X20 ; UIC OFFSET INTO PCB
0000001C 0000 83 STS$V_INHIB_MSG = ^X1C ; INHIBIT_MSG BIT NUMBER IN MSG CODE
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 I, <!!AC!1ZB!1ZB: REGISTER !2UW CONTENTS ALTERED>, -
0002 93 <: BEFORE SERVICE CALL: !8XL AFTER SERVICE CALL: !8XL>
006E 94 TEST_MOD_NAME: STRING C, <SATSSF02> : 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 I, <SATSSF02> : TEST MODULE NAME DESCRIPTOR
009F 99 TTNAME: STRING I, <TT> : TERMINAL LOGICAL NAME
00000000'00000000' 00A9 100 INADR: .LONG NOACCESS, NOACCESS : PAGE ADDRESS OF NOACCESS PSECT
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
00000016 00BD 103 EFN_SEF: .LONG 22 : EFN ARGUMENT FOR SETEF
00000016 00C1 104 EFN_CEF: .LONG 22 : EFN ARGUMENT FOR CLREF
00000000 00C5 105 EFN_REF: .LONG 0 : EFN ARGUMENT FOR READEF
000000CD 00C9 106 STATE_REF21: .BLKL 1 : STATE ARGUMENT FOR READEF
00000005 00CD 107 EFN_WFR: .LONG 5 : EFN ARGUMENT FOR WAITFR
00000014 00D1 108 EFN_WFO: .LONG 20 : EFN ARGUMENT FOR WFLOR
00000001 00D5 109 MASR_WFO: .LONG ^X1 : MASK ARGUMENT FOR WFLOR
00000002 00D9 110 EFN_WFA: .LONG 2 : EFN ARGUMENT FOR WFLAND
FFFFFFFF 00DD 111 MASR_WFA: .LONG ^XFFFFFFFF : MASK ARGUMENT FOR WFLAND

```

00000000	113	.PSECT	RWDATA,RD,WRT,NOEXE		
00000004	0000	114	TPID:	.BLKL	1
00000008	0004	115	CURRENT TC:	.BLKL	1
00000044	0008	116	REG_SAVE_AREA:	.BLKL	15
007480D9	0044	117	MOD_MSG_CODE:	.LONG	UETPS_SATSMS
0000004C	0048	118	CLOB_REG_NO:	.BLKL	1
00000050	004C	119	REG_BEFORE_SS:	.BLKL	1
	0050	120			
00000054	0050	121	REG_AFTER_SS:	.BLKL	1
	0054	122			
	0054	123	\$\$STSTNSS:	STRING	C,< SF >
0000006E	005C	124	TMN_ADDR:	.ADDRESS	TEST_MOD_NAME
00000077	0060	125	TMD_ADDR:	.ADDRESS	TEST_MOD_BEG
00000068	0064	126	TS_EP:	.BLKL	1
00000070	0068	127	RETADR:	.BLKL	2
00000071	0070	128	PRVPRT:	.BLKB	1
00000079	0071	129	PRIVMASK:	.BLKQ	1
0000007D	0079	130	CHM_CONT:	.BLKL	1
00000091	007D	131	REGS:	.BLKL	5
00000095	0091	132	EFN_SEF10:	.BLKL	1
00000099	C095	133	EFN_SEF11:	.BLKL	1
0000009D	0099	134	EFN_SEF12:	.BLKL	1
000000A1	009D	135	EFN_SEF13:	.BLKL	1
000000A5	00A1	136	EFN_CEF10:	.BLKL	1
000000A9	00A5	137	EFN_CEF11:	.BLKL	1
000000AD	00A9	138	EFN_CEF12:	.BLKL	1
000000B1	00AD	139	EFN_CEF13:	.BLKL	1
000000B5	00B1	140	EFN_REF10:	.BLKL	1
000000B9	00B5	141	EFN_REF11:	.BLKL	1
000000BD	00B9	142	EFN_REF12:	.BLKL	1
000000C1	00BD	143	EFN_REF13:	.BLKL	1
000000C5	00C1	144	STATE_REF:	.BLKL	1
000000C9	00C5	145	EFN_WFR10:	.BLKL	1
000000CD	00C9	146	EFN_WFR11:	.BLKL	1
000000D1	00CD	147	EFN_WFR12:	.BLKL	1
000000D5	00D1	148	EFN_WFR13:	.BLKL	1
000000D9	00D5	149	EFN_WFO10:	.BLKL	1
000000DD	00D9	150	EFN_WFO11:	.BLKL	1
000000E1	00DD	151	EFN_WFO12:	.BLKL	1
000000E5	00E1	152	EFN_WFO13:	.BLKL	1
000000E9	00E5	153	EFN_WFA10:	.BLKL	1
000000ED	00E9	154	EFN_WFA11:	.BLKL	1
000000F1	00ED	155	EFN_WFA12:	.BLKL	1
000000F5	00F1	156	EFN_WFA13:	.BLKL	1

```

: PROCESS ID FOR THIS PROCESS
: PTR TO CURRENT TEST CASE
: SAVE AREA FOR ALL REGS (SANS PC)
: TEST MODULE MSG CODE FOR PUTMSG
: CLOBBED 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. DISC 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)
: EFN ARGUMENT FOR SETEF
: EFN ARGUMENT FOR SETEF
: EFN ARGUMENT FOR SETEF
: EFN ARGUMENT FOR SETEF
: EFN ARGUMENT FOR CLREF
: EFN ARGUMENT FOR CLREF
: EFN ARGUMENT FOR CLREF
: EFN ARGUMENT FOR CLREF
: EFN ARGUMENT FOR READEF
: EFN ARGUMENT FOR READEF
: EFN ARGUMENT FOR READEF
: EFN ARGUMENT FOR READEF
: STATE ARGUMENT FOR READEF
: EFN ARGUMENT FOR WAITFR
: EFN ARGUMENT FOR WAITFR
: EFN ARGUMENT FOR WAITFR
: EFN ARGUMENT FOR WAITFR
: EFN ARGUMENT FOR WFLOR
: EFN ARGUMENT FOR WFLOR
: EFN ARGUMENT FOR WFLOR
: EFN ARGUMENT FOR WFLOR
: EFN ARGUMENT FOR WFLAND
: EFN ARGUMENT FOR WFLAND
: EFN ARGUMENT FOR WFLAND
: EFN ARGUMENT FOR WFLAND

```

```

00000000 158 .PSECT SATS ACCVIO_1,RD,WRT,NOEXE,PAGE
00000200 0000 159 EMPTY: .BLKB 512 ; RESERVE A PAGE OF SPACE
00000200 0200 160 :
00000200 0200 161 : +
00000200 0200 162 : *****
00000200 0200 163 : *
00000200 0200 164 : * THE ORDER OF STATEMENTS IN THIS PSECT IS CRITICAL. *
00000200 0200 165 : * DO NOT RE-ARRANGE THE VARIABLES. CONSULT SATS *
00000200 0200 166 : * FUNCTIONAL SPECIFICATION FOR A DESCRIPTION OF THE USE *
00000200 0200 167 : * OF THE EMPTY PSECT (AND ITS COMPANION PSECT, NOACCESS). *
00000200 0200 168 : *
00000200 0200 169 : *****
00000200 0200 170 : -
00000200 0200 171 :
000001FF 0200 172 STATE_REF22 = . - 1 ; STATE ARG FOR READEF (LAST BYTE IN THE PAGE)
000001F3 0200 173 = . - 13 ; ALLOW ROOM FOR STRING DESCRIPTOR
00000006 01F3 174 ; TYPE AAAAA_SSSX5 GO HERE:
000001FB 01F7 175 .LONG 6 ; STRING LENGTH (WILL CROSS PSECT BOUNDARY)
000001FB 01F7 176 .ADDRESS +4 ; STRING ADDRESS
000001FC 01FB 177 ; TYPE AAAAA_SSSX3 GO HERE:
000001FC 01FB 178 .BLKB 1 ; LOW-ORDER BYTE OF STRING LENGTH
00000200 01FC 179 ; TYPE AAAAA_SSSX2 GO HERE:
00000200 01FC 180 .BLKL 1 ; STRING LENGTH
00000200 0200 181 :
00000200 0200 182 :
00000200 0200 183 :
00000200 0200 184 :
00000000 185 .PSECT SATS ACCVIO_2,RD,WRT,NOEXE,PAGE
00000200 0000 186 NOACCESS: .BLKB 512 ; RESERVE A PAGE OF SPACE
00000000 0200 187 = . - 512 ; RETURN LOC CTR TO BEGINNING OF PSECT
00000000 0000 188 .ADDRESS EMPTY ; ADDRESS OF ACCESSIBLE STRING
00000000 0004 189 .ADDRESS EMPTY/^X100 ; ADDRESS OF ACCESSIBLE STRING
00000000 0008 190 : +
00000000 0008 191 : *** NOTE -- DO NOT CHANGE LOCATION OR SEQUENCE OF ABOVE STATEMENTS!
00000000 0008 192 : *** THIS PSECT (NOACCESS) MUST APPEAR IN MEMORY IMMEDIATELY
00000000 0008 193 : *** FOLLOWING THE EMPTY PSECT. PSECT NAMES AND OPTIONS WILL BE
00000000 0008 194 : *** CHOSEN TO FORCE THE DESIRED PSECT ORDERING.
00000000 0008 195 : -
00000000 0008 196 :
00000000 0008 197 :
00000000 0008 198 :
00000000 0008 199 :
00000000 200 .PSECT SATSSF02,RD,WRT,EXE, LONG

```



```

0000 202 .SBTTL SATSSF02
0000 203 :++
0000 204 : FUNCTIONAL DESCRIPTION:
0000 205 :
0000 206 : AFTER PERFORMING SOME INITIAL HOUSEKEEPING, SUCH AS
0000 207 : PRINTING THE MODULE BEGIN MESSAGE AND ACQUIRING ALL PRIVILEGES,
0000 208 : THE SATSSF02 ROUTINE EXECUTES THE TEST SERV EXEC MACRO TO RUN
0000 209 : ALL TEST CASES. WHEN THE MACRO COMPLETES ITS EXECUTION, SATSSF02
0000 210 : PRINTS A TEST MODULE SUCCESS OR FAIL MESSAGE AND EXITS TO THE
0000 211 : OPERATING SYSTEM. TEST SERV EXEC CALLS THE TC CONTROL/TESTSERV
0000 212 : CO-ROUTINE PAIR ONCE PER TEST CASE GROUP TO EXECUTE ALL TEST
0000 213 : CASES IN THAT GROUP. EACH TEST CASE GROUP IS DEFINED BY BOUNDING
0000 214 : ITS TEST CASES WITH A TC GROUP MACRO BEFORE THE FIRST TEST CASE
0000 215 : AND A TCEND MACRO AFTER THE LAST ONE. THE TEST CASES THEMSELVES
0000 216 : ARE DEFINED WITHIN THESE BOUNDS BY PRECEDING EACH WITH A
0000 217 : NEXT TEST_CASE MACRO. TC CONTROL/TESTSERV EXECUTES THE CODE
0000 218 : FOLLOWING EACH NEXT TEST_CASE MACRO IMMEDIATELY BEFORE ISSUING
0000 219 : THE SYSTEM SERVICE AS REQUESTED IN THE TESTSERV MACRO. TC CONTROL/
0000 220 : TESTSERV ALSO CHECKS THE RESULTS OF THE SERVICE WITH RESPECT
0000 221 : TO ITS EXPECTED STATUS CODE AND PRINTS ANY REQUIRED FAILURE
0000 222 : MESSAGES FOR THE TEST CASE. THE CODE APPEARING AFTER EACH
0000 223 : NEXT TEST_CASE MACRO IS MERELY TO SET UP CONDITIONS REQUIRED
0000 224 : FOR THE SYSTEM SERVICE AND TO CLEAN UP ANY RESOURCES ACQUIRED
0000 225 : BY THE PREVIOUS TEST CASE.
0000 226 :
0000 227 : CALLING SEQUENCE:
0000 228 :
0000 229 : $ RUN SATSSF02 ... (DCL COMMAND)
0000 230 :
0000 231 : INPUT PARAMETERS:
0000 232 :
0000 233 : NONE
0000 234 :
0000 235 : IMPLICIT INPUTS:
0000 236 :
0000 237 : NONE
0000 238 :
0000 239 : OUTPUT PARAMETERS:
0000 240 :
0000 241 : NONE
0000 242 :
0000 243 : IMPLICIT OUTPUTS:
0000 244 :
0000 245 : MESSAGES TO SYS$OUTPUT ARE THE ONLY OUTPUT FROM SATSSF02.
0000 246 : THEY ARE OF THE FORM:
0000 247 :
0000 248 : %UETP-S-SATSMS, TEST MODULE SATSSF02 BEGUN ... (BEGIN MSG)
0000 249 : %UETP-S-SATSMS, TEST MODULE SATSSF02 SUCCESSFUL ... (END MSG)
0000 250 : %UETP-E-SATSMS, TEST MODULE SATSSF02 FAILED ... (END MSG)
0000 251 : %UETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
0000 252 :
0000 253 : COMPLETION CODES:
0000 254 :
0000 255 : THE SATSSF02 ROUTINE TERMINATES WITH A $EXIT TO THE
0000 256 : OPERATING SYSTEM WITH A STATUS CODE DEFINED BY UETP$_SATSMS.
0000 257 :
0000 258 : SIDE EFFECTS:

```

```

0000 259 :
0000 260 : NONE
0000 261 :
0000 262 :--
0000 263 :
0000 264 :
0000 265 :
0000 266 SATSSF02:
OFFC 0000 267 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
0002 268 : ENTRY MASK
0002 269 $WAKE S TPID : GET PID OF THIS PROCESS
0011 270 $HIBER S : UNDO WAKE
0018 271 $SETPRN_S TEST MOD NAME_D : SET PROCESS NAME
0025 272 BSBW MOD MSG PRINT : PRINT TEST MODULE BEGIN MSG
0028 273 MOVAL TEST MOD_SUCC,TMD_ADDR : ASSUME END MSG WILL SHOW SUCCESS
0033 274 INSV #SUCCESS,#0,#3,MOD_MSG_CODE : ADJUST STATUS CODE FOR SUCCESS
003C 275 MODE TO,10$,KRNL,NOREGS : KERNEL MODE TO ACCESS PHD
59 00000000'9F DO 0059 276 MOVL @#CTL$GL PHD,R9 : GET PROCESS HEADER ADDRESS
00000044'EF 03 00 01 FO 0033 274
00000071'EF 69 DE 0060 277 MOVAL PHD$Q PRIVMSK(R9),PRIVMASK : GET PRIV MASK ADDRESS
0067 278 MODE FROM,T0$ : GET BACK TO USER MODE
0068 279 PRIV ADD,ALL : GET ALL PRIVILEGES
0088 280 DISPSERV : SET UP DISPLAY INFO FOR TESTSERV
021D 281 $SETPRT_S INADR=INADR, RETADR=RETADR, -
021D 282 PROT=PROT, PRVPRT=PRVPRT
023E 283 : SET NOACCESS PSECT
023E 284 : ... FOR NO USER ACCESS
0A42 31 023E 285 BRW EXECUTE : GO EXECUTE ALL TEST CASES
0241 286 TC_GROUP SEF,1,TS1
0268 287 NEXT_TEST_CASE SFSEF10

```

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFSEF10 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SA  
VO

00000091'EF FF 81 98 0268 288  
0270 289

CVTBL #1,EFN\_SEF10 ; ILLEGAL EVENT FLAG NUMBER  
NEXT\_TEST\_CASE SFSEF11

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. <sup>C 2</sup> 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFSEF11 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SA  
V04

00000095'EF 80 8F 9A 027C 290  
0284 291

MOVZBL #128,EFN,SF11 ; ILLEGAL EVENT FLAG NUMBER  
NEXT\_TEST\_CASE SFSEF12

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. <sup>D 2</sup> 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFSEF12 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SA  
VO

00000099'EF

01F4 BF

3C 0290 292  
0299 293

MOVZWL #500,EFN,SF12 : ILLEGAL EVENT FLAG NUMBER  
NEXT\_TEST\_CASE SFSEF13

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. <sup>E 2</sup> 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFSEF13 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SA  
VO

0000009D'EF 7F 8F 9A 02A5 294 MOVZBL #127,EFN\_SEF13 ; E.F. IN AN UNASSG'D COMM CLUSTER  
02AD 295 TCEND

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING <sup>F 2</sup> S. 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
5-SEP-1984 04:27:23 [JETPSY.SRC]SATSSF02.MAR;1

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(1)

SA  
VO

02AE 296  
02D5 297

TC\_GROUP CEF\_1,TS2  
NEXT\_TEST\_CASE SFCEF10

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFCEF10 5-SEP-1984 04:27:23 [UEIPSY.SRC]SATSSF02.MAR;1

Page 13  
(1)

SA  
VO

000000A1'EF FF BF 98 02D5 298  
02DD 299

CVTBL #-1,EFN\_CEF10 ; ILLEGAL EVENT FLAG NUMBER  
NEXT\_TEST\_CASE -SFCEF11



SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. <sup>H 2</sup> 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFCEF11 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SA  
VO

000000A5'EF 80 8F 9A 02E9 300  
02F1 301

MOVZBL #128,EFN,CEF11 ; ILLEGAL EVENT FLAG NUMBER  
NEXT\_TEST\_CASE SFCEF12

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFCEF12 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SA  
VO

000000A9'EF 01F4 8F 3C 02FD 302  
0306 303

MOVZWL #500,EFN,CEF12 ; ILLEGAL EVENT FLAG NUMBER  
NEXT\_TEST\_CASE SFCEF13

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFCEF13 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SA  
VO

000000AD'EF 7F 8F 9A 0312 304 MOVZBL #127,EFN\_CEF13 ; E.F. IN AN UNASSG'D COMM CLUSTER  
031A 305 TCEND

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. <sup>K 2</sup> 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SA  
VO

031B	306	TC_GROUP	REF_1,TS3
0342	307	NEXT_TEST_CASE	SFREF10

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. <sup>L 2</sup> 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFREF10 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SA  
VO

000000B1'EF FF 8F 98 0342 308  
034A 309

CVTBL #-1,EFN\_REF10 ; ILLEGAL EVENT FLAG NUMBER  
NEXT\_TEST\_CASE -SFREF11

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. <sup>M 2</sup> 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFREF11 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SA  
VO

00000B5'EF 80 8F 9A 0356 310  
035E 311

MOVZBL #128,EFN\_REF11 ; ILLEGAL EVENT FLAG NUMBER  
NEXT\_TEST\_CASE SFREF12

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. <sup>N 2</sup> 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFREF12 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

Page 20  
(1)

SA  
VO

000000B9'EF 01F4 8F 3C 036A 312  
0373 313

MOVZWL #500,EFN,REF12 ; ILLEGAL EVENT FLAG NUMBER  
NEXT\_TEST\_CASE SFREF13

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFREF13 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SAT  
V04

00000BD'EF 7F 8F 9A 037F 314  
0387 315

MOVZBL #127,EFN,REF13 ; E.F. IN AN UNASSG'D COMM CLUSTER  
NEXT\_TEST\_CASE SFREF20



SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. <sup>C 3</sup> 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFREF20 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

0393 316

NEXT\_TEST\_CASE SFREF21

SAT  
V04

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFREF21 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SA1  
V04

039F 317

NEXT\_TEST\_CASE SFREF22

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING <sup>E 3</sup> S. 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFREF22 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SA1  
V04

03AB 318 TCEND

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00 Page 25  
5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1 (1)

03AC	319	TC_GROUP	WFR_1_TS4
03D3	320	NEXT_TEST_CASE	SFWFR10

SAT  
V04

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFWFR10 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

SAT  
V04

000000C5'EF FF 8F 98 03D3 321 CMTBL #1,EFN-WFR10 ; ILLEGAL EVENT FLAG NUMBER  
03DB 322 NEXT\_TEST\_CASE -SFWFR11

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. <sup>H 3</sup> 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFWFR11 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SA1  
V04

000000C9'EF 80 8F 9A 03E7 323  
03EF 324

MOVZBL #128,EFN WFR11 ; ILLEGAL EVENT FLAG NUMBER  
NEXT\_TEST\_CASE SFWFR12

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFWFR12 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SA  
V04

00000CD'EF 01F4 8F 3C 03FB 325  
0404 326

MOVZWL #500,EFN,WFR12 ; ILLEGAL EVENT FLAG NUMBER  
NEXT\_TEST\_CASE SFWFR13

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFWFR13 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SAT  
V04

000000D1'EF 7F 8F 9A 0410 327 MOVZBL #127,EFN\_WFR13 ; E.F. IN AN UNASSG'D COMM CLUSTER  
0418 328 TCEND



SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. <sup>K 3</sup> 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SA1  
V04

0419	329	TC_GROUP	WFO_1_TSS
0440	330	NEXT_TEST_CASE	SFWFO10

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. <sup>L 3</sup> 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFWF010 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SAT  
V04

000000D5'EF FF 8F 98 0440 331  
0448 332

CVTBL #1,EFN\_WF010 ; ILLEGAL EVENT FLAG NUMBER  
NEXT\_TEST\_CASE -SFWF011

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFWFO11 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

000000D9'EF 80 8F 9A 0454 333  
045C 334

MOVZBL #128, EFN WFO11 ; ILLEGAL EVENT FLAG NUMBER  
NEXT\_TEST\_CASE SFWFO12

SAT  
V04

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFWF012 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SA  
V04

000000DD'EF 01F4 8F 3C 0468 335 MOVZWL #500,EFN,WFO12 ; ILLEGAL EVENT FLAG NUMBER  
0471 336 NEXT\_TEST\_CASE SFWF013

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. <sup>B 4</sup> 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFWF013 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SAT  
V04

000000E1'EF 7F 8F 9A 047D 337 MOVZBL #127,EFN\_WF013 ; E.F. IN AN UNASSG'D COMM CLUSTER  
0485 338 TCEND

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. <sup>C 4</sup> 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00 Page 35  
5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1 (1)

0486 339  
04AD 340

TC\_GROUP WFA,1,TS6  
NEXT\_TEST\_CASE SFWFA10

SAT  
V04

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFWFA10 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SAT  
V04

000000E5'EF FF BF 98 04AD 341 CVTBL #-1,EFN\_WFA10 ; ILLEGAL EVENT FLAG NUMBER  
04B5 342 NEXT\_TEST\_CASE -SFWFA11

SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFWFA11 5-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SAT  
V04

000000E9'EF 80 8F 9A 04C1 343  
04C9 344

MOVZBL #128,EFN\_WFA11 ; ILLEGAL EVENT FLAG NUMBER  
NEXT\_TEST\_CASE SFWFA12



SATSSF02  
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:51 VAX/VMS Macro V04-00  
SFWFA12 S-SEP-1984 04:27:23 [UETPSY.SRC]SATSSF02.MAR;1

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(1)

SAT  
V04

000000ED'EF 01F4 8F 3C 04D5 345 MOVZWL #500,EFN,WFA12 ; ILLEGAL EVENT FLAG NUMBER  
04DE 346 NEXT\_TEST\_CASE SFWFA13



```
04F3 349 TS1:
04F3 350 TESTSERV SETEF,ERR,SATS,
04F3 351
04F3 352 <1,EFN_SEF,
04F3 353 EFN_SEF10,ILLEF,, - ; SFSEF10
04F3 354 EFN_SEF11,ILLEFC, - ; SFSEF11
04F3 355 EFN_SEF12,ILLEFC, - ; SFSEF12
04F3 356 EFN_SEF13,UNASEFC, - ; SFSEF13
04F3 357 >,
04F3 358
05CD 359 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

SAT  
SYN  
SYC  
SYC  
SYC  
SYC  
SYC  
SYC  
SYC  
SYC  
TC1  
TC2  
TC3  
TC4  
TC5  
TC6  
TC7  
TC8  
TC9  
TC  
TES  
TES  
TES  
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TES  
TME  
TMM  
TP1  
TS1  
TS2  
TS3  
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TS5  
TS6  
TS  
TTR  
UET  
UET  
WAR  
  
PSE  
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ROI  
RUI  
SA  
SA  
SA

```
05ED 360 TS2:
05ED 361 TESTSERV CLREF,ERR,SATS, -
05ED 362
05ED 363 <1,EFN_CEF, -
05ED 364 EFN_CEF10,ILLEFC, - : SFCEF10
05ED 365 EFN_CEF11,ILLEFC, - : SFCEF11
05ED 366 EFN_CEF12,ILLEFC, - : SFCEF12
05ED 367 EFN_CEF13,UNASEFC, - : SFCEF13
05ED 368 >, -
05ED 369
06C7 370 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

SAT  
VAX

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The

MAC

```
06E7 371 TS3:
06E7 372 TESTSERV READEF,ERR,SATS, -
06E7 373 <1,EFN_REF, -
06E7 374 EFN_REF10,ILLEFC, - : SFREF10
06E7 375 EFN_REF11,ILLEFC, - : SFREF11
06E7 376 EFN_REF12,ILLEFC, - : SFREF12
06E7 377 EFN_REF13,UNASEFC, - : SFREF13
06E7 378 >, -
06E7 379 <1,STATE_REF, -
06E7 380 STATE_REF20,ACCVIO, - : SFREF20
06E7 381 STATE_REF21,ACCVIO, - : SFREF21
06E7 382 STATE_REF22,ACCVIO, - : SFREF22
06E7 383 >, -
06E7 384
06E7 385
06E7 386 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC
0863 387
```

```
0883 388 TS4:
0883 389 TESTSERV WAITFR,ERR,SATS, -
0883 390
0883 391 <1,EFN_WFR, -
0883 392 EFN_WFR10,ILLEFC, - : SFWFR10
0883 393 EFN_WFR11,ILLEFC, - : SFWFR11
0883 394 EFN_WFR12,ILLEFC, - : SFWFR12
0883 395 EFN_WFR13,UNASEFC, - : SFWFR13
0883 396 >, -
0883 397
095E 398 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
097E 399 TSS:
097E 400 TESTSERV WFLOR,ERR,SATS, -
097E 401 <1,EFN_WFO, -
097E 402 EFN_WFO10,ILLEFC, - : SFWFO10
097E 403 EFN_WFO11,ILLEFC, - : SFWFO11
097E 404 EFN_WFO12,ILLEFC, - : SFWFO12
097E 405 EFN_WFO13,UNASEF, - : SFWFO13
097E 406 >, -
097E 407 <1,MASK_WFO, -
097E 408 >, -
097E 409 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC
097E 410
097E 411
0AEO 412
```

```
OB00 413 TS6:
OB00 414 TESTSERV WFLAND,ERR,SATS, -
OB00 415 - -
OB00 416 <1,EFN_WFA, -
OB00 417 EFN_WFA10,ILLEFC, - : SFWFA10
OB00 418 EFN_WFA11,ILLEFC, - : SFWFA11
OB00 419 EFN_WFA12,ILLEFC, - : SFWFA12
OB00 420 EFN_WFA13,UNASEFC, - : SFWFA13
OB00 421 >, -
OB00 422 - -
OB00 423 <1,MASK_WFA, -
OB00 424 >, -
OB00 425
OC63 426 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```





```
OCD8 436 .SBTTL TC_CONTROL
OCD8 437 :++
OCD8 438 : FUNCTIONAL DESCRIPTION:
OCD8 439 :
OCD8 440 : THE TC CONTROL SUBROUTINE IS CALLED BY THE TEST_SERV_EXEC
OCD8 441 : MACRO TO EXECUTE A GROUP OF TEST CASES. A GROUP IS DEFINED BY A TC_GROUP
OCD8 442 : MACRO. FOR EACH TC_GROUP MACRO, THERE IS A CORRESPONDING TESTSERV_MACRO.
OCD8 443 : TESTSERV_CONTAINS CODE TO EXECUTE SYSTEM SERVICES AND CHECK THE RETURNED
OCD8 444 : STATUS CODE VALUES. TESTSERV_ARGUMENTS ARE CODED TO SPECIFY ALL THE SYSTEM
OCD8 445 : SERVICE ARGUMENT VALUES AND THE EXPECTED STATUS CODE FOR EACH TEST CASE
OCD8 446 : DEFINED BY A NEXT TEST CASE MACRO WITHIN THE GROUP. TC_CONTROL USES A
OCD8 447 : CO-ROUTINE INTERFACE TO ENTER THE CODE OF THE APPROPRIATE TESTSERV_MACRO
OCD8 448 : IN VARIOUS PLACES. THE FIRST ENTRY OCCURS ONCE PER GROUP TO ALLOW TESTSERV
OCD8 449 : TO DO SOME INITIALIZATION. THEN TWO ENTRIES ARE MADE FOR EACH TEST CASE IN
OCD8 450 : THE GROUP. THE FIRST ALLOWS TESTSERV TO ISSUE THE SUBJECT SYSTEM SERVICE.
OCD8 451 : THE SECOND ENTRY FOR THE TEST CASE CAUSES TESTSERV TO CHECK THE RETURNED
OCD8 452 : STATUS CODE, PRINTING A FAILURE MESSAGE IF IT IS NOT THE EXPECTED CODE.
OCD8 453 : IF THERE ARE NO MORE TEST CASES IN THE CURRENT GROUP, TESTSERV (NOT TC_CONTROL)
OCD8 454 : RETURNS DIRECTLY TO TEST_SERV_EXEC (RSB ACTUALLY ISSUED IN TS_CLEANUP_MACRO)
OCD8 455 : FROM THIS SECOND ENTRY; OTHERWISE, CONTROL RETURNS TO TC_CONTROL WHICH
OCD8 456 : IN TURN ENTERS TESTSERV AGAIN FOR THE NEXT TEST CASE. THE FAILURE OF A
OCD8 457 : TEST CASE DOES NOT CAUSE TERMINATION OF THE TEST MODULE.
OCD8 458 :
OCD8 459 : CALLING SEQUENCE:
OCD8 460 :
OCD8 461 : BSBW TC_CONTROL (ISSUED WITHIN THE TEST_SERV_EXEC_MACRO)
OCD8 462 : (RSB IS ISSUED WITHIN THE TS_CLEANUP_MACRO)
OCD8 463 :
OCD8 464 : INPUT PARAMETERS:
OCD8 465 :
OCD8 466 : NONE
OCD8 467 :
OCD8 468 : IMPLICIT INPUTS:
OCD8 469 :
OCD8 470 : ARGUMENTS SPECIFIED ON EACH TESTSERV_MACRO MAY BE VIEWED AS
OCD8 471 : INPUTS, SINCE TC_CONTROL AND TESTSERV_ACT AS CO-ROUTINES.
OCD8 472 :
OCD8 473 : OUTPUT PARAMETERS:
OCD8 474 :
OCD8 475 : SEVERITY_CODE_FIELD OF MOD_MSG_CODE (BITS 0,1,2) IS SET TO ERROR
OCD8 476 : IF ANY TEST CASE IN THE CURRENT GROUP FAILS; OTHERWISE IT REMAINS
OCD8 477 : SET TO SUCCESSFUL.
OCD8 478 :
OCD8 479 : IMPLICIT OUTPUTS:
OCD8 480 :
OCD8 481 : XUETP-I-TEXT, ERROR_MESSAGES ARE WRITTEN TO SYSS$OUTPUT BY
OCD8 482 : THE TESTSERV_MACRO (CO-ROUTINE WITH TC_CONTROL)
OCD8 483 :
OCD8 484 : COMPLETION CODES:
OCD8 485 :
OCD8 486 : NONE
OCD8 487 :
OCD8 488 : SIDE EFFECTS:
OCD8 489 :
OCD8 490 : NONE
OCD8 491 :
OCD8 492 :--
```

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41'



```

          0D19 517      .SBTTL SUBROUTINES
          0D19 518 REG_SAVE:
          0D19 519 :
          0D19 520 :*****
          0D19 521 :*
          0D19 522 :* SAVES R0 THRU SP IN REG_SAVE_AREA *
          0D19 523 :*
          0D19 524 :*****
          0D19 525 :
          00000008'EF 7FFF 8F BB 0D19 526      PUSHR #R0_THRU_SP      ; SAVE ALL REGS ON STACK
                   6E 3C 28 0D1D 527      MOVCS #60,(SP),REG_SAVE_AREA ; SAVE REGS (BEFORE S.S.)
                   7FFF 8F BA 0D25 528      POPR #R0_THRU_SP      ; CLEAN UP STACK
                   05 0D29 529      RSB ; ..... AND RETURN
          0D2A 530 :
          0D2A 531 :
          0D2A 532 :
          0D2A 533 :
          0D2A 534 REG_REST:
          0D2A 535 :
          0D2A 536 :
          0D2A 537 :*****
          0D2A 538 :*
          0D2A 539 :* RESTORES R0 THRU SP FROM REG_SAVE_AREA *
          0D2A 540 :*
          0D2A 541 :*****
          0D2A 542 :
          6E 00000008'EF 5E 3C C2 0D2A 543      SUBL2 #60,SP      ; MOVE SP TO MAKE ROOM FOR REGS
                   7FFF 8F 28 0D2D 544      MOVCS #60,REG_SAVE_AREA,(SP) ; MOVE REGS ONTO STACK FOR POP
                   BA 0D35 545      POPR #R0_THRU_SP      ; RESTORE ALL REGS FOR TESTSERV
                   05 0D39 546      RSB ; ... AND RETURN

```

```

OD3A 548 REG_COMP:
OD3A 549 :
OD3A 550 : *****
OD3A 551 : *
OD3A 552 : * 1) PUSHES ALL REGS ONTO STACK *
OD3A 553 : * 2) COMPARES REGISTER IMAGES FROM STACK WITH CORRESPONDING *
OD3A 554 : * IMAGES FROM REG_SAVE_AREA FOR ALL REGISTERS SPECIFIED *
OD3A 555 : * IN REG_COMP_MASK. *
OD3A 556 : * 3) FOR EACH UNEQUAL COMPARE, AN ERROR MESSAGE IS PRINTED *
OD3A 557 : * (USING $FAO AND $OUTPUT SYSTEM SERVICES). *
OD3A 558 : * 4) POPS ALL REGS OFF OF STACK *
OD3A 559 : *
OD3A 560 : *****
OD3A 561 :
56 7FFF 8F BB OD3A 562 PUSHR #R0_THRU_SP ; SAVE ALL REGISTERS ON STACK
00000008'EF DE OD3E 563 MOVAL REG_SAVE_AREA,R6 ; POINT R6 TO BEG OF
54 5E D0 OD45 564 ; ... REGS (BEFORE S.S.)
53 FF 8F 98 OD48 565 MOVL SP,R4 ; POINT R4 TO BEG OF
OD48 566 ; ... REGS (AFTER S.S.)
OD4C 567 CVTBL #-1,R3 ; INITIALIZE REG_COMP_MASK INDEX
53 53 D6 OD4C 568 REG_COMP_NEXT:
53 0F 91 OD4E 569 INCL R3 ; POINT TO NEXT BIT IN MASK
03 1A OD51 570 CMPB #15,R3 ; END OF THE MASK ?
009F 31 OD53 571 BGTRU REG_COMP_CONT ; NO -- CONTINUE
OD56 572 BRW REG_COMP_RSB ; YES -- GO TO COMMON RETURN
84 86 D1 OD56 573 REG_COMP_CONT:
E9 00000000'EF F1 13 OD59 574 CMPL (R6)+,(R4)+ ; REG BEFORE = REG AFTER ?
00000048'EF 53 D0 OD63 575 BEQLU REG_COMP_NEXT ; YES -- LOOK FOR NEXT REG
0000004C'EF FC A6 D0 OD6A 576 BBC R3,REG_COMP_MASK,REG_COMP_NEXT ; NO -- GET NEXT IF BIT NOT SET
00000050'EF FC A4 D0 OD72 577 MOVL R3,CLOB_REG_NO ; NO -- GIVE REG NUMBER TO FAO
00000056'EF 2A 90 OD7A 578 MOVL -4(R6),REG_BEFORE_SS ; GIVE 'BEFORE' CONTENTS TO FAO
OD81 579 MOVL -4(R4),REG_AFTER_SS ; GIVE 'AFTER' CONTENTS TO FAO
OD81 580 MOVB #^A/^/, $$TSTN$$+2 ; GIVE FAILURE INDIC'N IN ERROR MSG
OD81 581 :
OD81 582 $FAO_S ERR_MSG FAOCTL,OUTL,OUTD,$$SNAD$$, -
OD81 583 $$ASEQ$$,$$PSEQ$$,CLOB_REG_NO,REG_BEFORE_SS,REG_AFTER_SS
OD84 584 :
F359 CF F323 CF B0 ODB4 585 :
ODBB 586 MOVW OUTL,OUTD ; ACTUAL OUTPUT LEN IN STRING DESC'R
F33D CF 0084 8F B0 ODD0 587 PUTMSG <#UETPS TEXT,#1,#OUTD> ; PRINT THE MSG
00000056'EF 20 90 ODD7 588 MOVW #OUTE-OUTB,OUTD ; GET MAX LEN BACK INTO DESCRIPTOR
00000060'EF 00000088'EF DE ODDE 589 MOVB #^A/ /,$$TSTN$$+2 ; REMOVE FAIL INDIC'N FOR NEXT MSG
00000044'EF 03 00 02 FO ODE9 590 MOVAL TEST MOD_FAIL,TMD_ADDR ; INDICATE FAILED IN END MSG
FF57 31 ODF2 591 INSV #ERROR,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR ERROR
ODF5 592 BRW REG_COMP_NEXT ; GO LOOK FOR NEXT REG TO COMPARE
ODF5 593 REG_COMP_RSB:
7FFF 8F BA ODF5 594 POPR #R0_THRU_SP ; CLEAN UP STACK
05 ODF9 595 RSB ; RETURN TO CALLER

```

```

ODFA 597 MOD_MSG_PRINT:
ODFA 598 :
ODFA 599 :*****
ODFA 600 :*
ODFA 601 :* PRINTS THE TEST MODULE BEGUN/SUCCESSFUL/FAILED MESSAGES *
ODFA 602 :* (USING THE PUTMSG MACRO). *
ODFA 603 :*
ODFA 604 :*****
ODFA 605 :
05 OE15 606 PUTMSG <MOD_MSG_CODE,#2,TMN_ADDR,TMD_ADDR> : PRINT MSG
OE16 607 RSB ; ... AND RETURN TO CALLER
OE16 608 :
OE16 609 CHMRTN:
OE16 610 :*****
OE16 611 :*
OE16 612 :* CHANGE MODE ROUTINE. THIS ROUTINE GETS CONTROL WHENEVER
OE16 613 :* A CMKRNL, CMEXEC, OR CMSUP SYSTEM SERVICE IS ISSUED
OE16 614 :* BY THE MODE MACRO ('TO' OPTION). IT MERELY DOES
OE16 615 :* A JUMP INDIRECT ON A FIELD SET UP BY MODE. IT HAS
OE16 616 :* THE EFFECT OF RETURNING TO THE END OF THE MODE
OE16 617 :*
OE16 618 :*
OE16 619 :*****
00000079'FF 0000 OE16 620 :
OE16 621 .WORD 0 ; ENTRY MASK
OE18 622 JMP @CHM_CONT ; RETURN TO MODE MACRO IN NEW MODE
OE1E 623 :
OE1E 624 :* RET INSTR WILL BE ISSUED IN EXPANSION OF 'MODE FROM, ....' MACRO
OE1E 625 :
OE1E 626 .END SATSSF02

```

```

$$$CHARS          = 00000048
$$$FIRSTTC$$$    = 00000000
$$$STRINGS       = 00000000
$$ACT$$         000000F3 R    06
$$ARG$$         000000FB R    06
$$ASEQ$$        000000EB R    06
$$CALL$$        000000DF R    06
$$DISP$$        000001E6 R    06
$$ERR$$         000001A0 R    06
$$EXP$$         000000F7 R    06
$$INIT$$        000000E3 R    06
$$MAXP$$        = 00000005
$$PSEQ$$        000000EF R    06
$$SNAD$$        000000E7 R    06
$$T1            = 00000004
$$T2            = 00000009
$$TSTN$$        00000054 R    03
CHMRN           00000E16 R    06
CHM CONT        00000079 R    03
CLEANUP         000000BF R    06
CLOB REG NO     00000048 R    03
CTL$GL PRD     ***** X    06
CURRENT_TC      00000004 R    03
EFN_CEF         000000C1 R    02
EFN_CEF10       000000A1 R    03
EFN_CEF11       000000A5 R    03
EFN_CEF12       000000A9 R    03
EFN_CEF13       000000AD R    03
EFN_REF         000000C5 R    02
EFN_REF10       000000B1 R    03
EFN_REF11       000000B5 R    03
EFN_REF12       000000B9 R    03
EFN_REF13       000000BD R    03
EFN_SEF         000000BD R    02
EFN_SEF10       00000091 R    03
EFN_SEF11       00000095 R    03
EFN_SEF12       00000099 R    03
EFN_SEF13       0000009D R    03
EFN_WFA         000000D9 R    02
EFN_WFA10       000000E5 R    03
EFN_WFA11       000000E9 R    03
EFN_WFA12       000000ED R    03
EFN_WFA13       000000F1 R    03
EFN_WFO         000000D1 R    02
EFN_WFO10       000000D5 R    03
EFN_WFO11       000000D9 R    03
EFN_WFO12       000000DD R    03
EFN_WFO13       000000E1 R    03
EFN_WFR         000000CD R    02
EFN_WFR10       000000C5 R    03
EFN_WFR11       000000C9 R    03
EFN_WFR12       000000CD R    03
EFN_WFR13       000000D1 R    03
EMPTY           00000000 R    04
ERROR           = 00000002
ERR_MSG_FAOCTL  00000002 R    02
EXECUTE        000000C8 R    06
    
```

```

GRP TOTAL       = 00000006
INADR           000000A9 R    02
INFO            = 00000003
LIB$SIGNAL      ***** X    06
MASK_WFA        000000DD R    02
MASK_WFO        000000D5 R    02
MEXIT           = 00000000
MOD_MSG_CODE    00000044 R    03
MOD_MSG_PRINT   000000FA R    06
NARGS           = 0000000E
NOACCESS        00000000 R    05
NSSARGS         = 00000002
ONES            000000B5 R    02
OUTB            0000011C R R    06
OUTD            0C000114 R R    06
OUTE            000001A0 R R    06
OUTL            000000DB R    06
PCBSL_UIC       = 00000020
PHDSQ_PRIVMSK  = 00000000
PRIVMSK         00000071 R    03
PRIV_ARGS       = 00000002
PROT            000000B1 R    02
PRT$C NA        ***** X    02
PRVPR           00000070 R    03
RO_THRU_SP      = 00007FFF
REGS            0000007D R    03
REG_AFTER_SS    00000050 R R    03
REG_BEFORE_SS   0000004C R R    03
REG_COMP        00000D3A R R    06
REG_COMP_CONT   00000D56 R R    06
REG_COMP_MASK   00000000 R R    02
REG_COMP_NEXT   00000D4C R R    06
REG_COMP_RSB    00000DF5 R R    06
REG_REST        00000D2A R R    06
REG_SAVE        00000D19 R R    06
REG_SAVE_AREA   00000008 R R    03
RETADR          00000068 R R    03
SATSSF02        00000000 R    06
SEVERE          = 00000004
SHR$K SHRDEF    = 00000001
SHR$ TEXT       = 00001130
SS$ ACCVIO      ***** X    06
SS$ ILLEFC      ***** X    06
SS$ UNASEFC     ***** X    06
STATE_REF       000000C1 R    03
STATE_REF20     = 00000001
STATE_REF21     000000C9 R    02
STATE_REF22     = 000001FF R    04
STSSV_INHIB_MSG = 0000001C
SUCCESS         = 00000001
SYSSCLREF       ***** GX    06
SYSSCMKRNL      ***** GX    06
SYSEXIT         ***** GX    06
SYSSFAO         ***** X    06
SYSSFAOL        ***** GX    06
SYSSHIBER       ***** GX    06
SYSSREADEF      ***** GX    06
    
```

SATSSF02  
Symbol table

```

SYSS$SETEF          ***** GX 06
SYSS$SETPRN         ***** GX 06
SYSS$SETPRT         ***** GX 06
SYSS$SETPRV         ***** GX 06
SYSS$WAITFR         ***** GX 06
SYSS$WAKE           ***** GX 06
SYSS$WFLAND         ***** GX 06
SYSS$WFLOR          ***** GX 06
TC1                 00000241 R 06
TC2                 000002AE R 06
TC3                 0000031B R 06
TC4                 000003AC R 06
TC5                 00000419 R 06
TC6                 00000486 R 06
TCG_NO              = 00000006
TC_CONTROL          00000CD8 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                 000004F3 R 06
TS2                 000005ED R 06
TS3                 000006E7 R 06
TS4                 00000883 R 06
TS5                 0000097E R 06
TS6                 00000B00 R 06
TS_EP               00000064 R 03
TTNAME              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	000000E1 ( 225.)	02 ( 2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	000000F5 ( 245.)	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
SATSSF02	00000E1E ( 3614.)	06 ( 6.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC LONG



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

Phase	Page faults	CPU Time	Elapsed Time
-----	-----	-----	-----
Initialization	34	00:00:00.09	00:00:00.33
Command processing	115	00:00:00.72	00:00:02.16
Pass 1	341	00:00:12.69	00:00:24.53
Symbol table sort	0	00:00:00.63	00:00:00.70
Pass 2	154	00:00:02.88	00:00:06.29
Symbol table output	18	00:00:00.13	00:00:00.13
Psect synopsis output	3	00:00:00.03	00:00:00.05
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	667	00:00:17.17	00:00:34.19

The working set limit was 1650 pages.  
65959 bytes (129 pages) of virtual memory were used to buffer the intermediate code.  
There were 30 pages of symbol table space allocated to hold 349 non-local and 137 local symbols.  
626 source lines were read in Pass 1, producing 30 object records in Pass 2.  
63 pages of virtual memory were used to define 47 macros.

-----  
! Macro library statistics !  
-----

Macro library name	Macros defined
-----	-----
-\$255\$DUA28:[SHRLIB]UETP.MLB;1	19
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	22
TOTALS (all libraries)	41

947 GETS were required to define 41 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSF02/OBJ=OBJ\$:SATSSF02 MSRC\$:SATSSF02/UPDATE=(ENH\$:SATSSF02)+EXECMLS/LIB+SHRLIB\$:UETP/LIB



