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```
0000 1 .TITLE SATSSS35 - SATS SYSTEM SERVICE TESTS (SUCC S.C.)
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 :*****
0000 6 :*
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0000 27 :
0000 28 :
0000 29 :++
0000 30 : FACILITY: SATS SYSTEM SERVICE TESTS
0000 31 :
0000 32 : ABSTRACT: The SATSSS35 module tests the execution of the following
0000 33 : VMS system services:
0000 34 :
0000 35 : $CREPRC
0000 36 : $GETJPI
0000 37 :
0000 38 : ENVIRONMENT: User mode image.
0000 39 : Needs CMKRNL privilege and dynamically acquires other
0000 40 : privileges, as needed.
0000 41 :
0000 42 : AUTHOR: Larry D. Jones, CREATION DATE: JULY, 1979
0000 43 :
0000 44 : MODIFIED BY:
0000 45 :
0000 46 : V03-002 LDJ0006 Larry D. Jones, 23-Mar-1982
0000 47 : Made the quota list be absolute minimum to test the
0000 48 : SYSBOOT minimum values.
0000 49 :
0000 50 : V03-001 RNP0005 Robert N. Perron, 23-Mar-1982
0000 51 : Removed EXCVEC and FINALEXC from the JPI_GOOD list.
0000 52 :
0000 53 : V02-006 RNP0004 Robert N. Perron, 09-Dec-1981
0000 54 : Removed ASTEN from the JPI_GOOD list.
0000 55 :
0000 56 : V02-005 RNP0003 Robert N. Perron, 02-Oct-1981
0000 57 : Removed ASTACT from the JPI_GOOD list.
```

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0000 58 :  
0000 59 : V02-004 LDJ0002 Larry D. Jones, 06-Sep-1981  
0000 60 : Fixed GETJPI P1 reference to CTLSAQ_EXCVEC and CTLSAL_FINALEXC.  
0000 61 :  
0000 62 : V02-003 RNP0002 Robert N. Perron, 01-Jun-1981  
0000 63 : To eliminate dependence on the SYSTEST account privileges  
0000 64 : being a specific list, privileges are now set to a fixed list  
0000 65 : before the GETJPI tests are started.  
0000 66 :  
0000 67 : V02-002 RNP0001 Robert N. Perron, 09-Apr-1981  
0000 68 : Fixed problem of STS field changing due to Swapper activity.  
0000 69 : Prevent failure when privileges are added to the SYSTEST  
0000 70 : account. Cleaned up some format problems.  
0000 71 :  
0000 72 : V02-001 LDJ0001 Larry D. Jones, 17-Sep-1980  
0000 73 : Modified to conform to new build command procedures.  
0000 74 : **  
0000 75 : --
```

```

0000 77      .SBTTL  DECLARATIONS
0000 78      :
0000 79      : MACRO LIBRARY CALLS
0000 80      :
0000 81      $ACCDEF      ; account record offset definitions
0000 82      $DIBDEF      ; device info block definitions
0000 83      $JPIDEF      ; JPI offset definitions
0000 84      $PCBDEF      ; process control block definitions
0000 85      $PHDDEF      ; Process header definitions
0000 86      $PQLDEF      :
0000 87      $PRVDEF      ; privilege definitions
0000 88      $$SHRDEF      ; shared message definitions
0000 89      $$SFDEF      ; stack frame definitions
0000 90      $$STSDEF     ; STS definitions
0000 91      $UETPDEF     ; UETP message definitions
0000 92      :
0000 93      :
00000001 0000 94      SUCCESS      = 1      ; success
00000002 0000 95      ERROR        = 2      ; error
0000 96      :
0000 97      : SHR message definitions
0000 98      :
00740000 0000 99      UETP = 116@STSV_FAC_NO      ;define the UETP facility code
0000 100     :
00741038 0000 101     UETPS_BEGIN = UETP!SHRS_BEGIN ;define the UETP messages
00741130 0000 102     UETPS_TEXT  = UETP!SHRS_TEXT
007410E0 0000 103     UETPS_ABEND = UETP!SHRS_ABEND
00741080 0000 104     UETPS_ENDED = UETP!SHRS_ENDED
0000 105     :
0000 106     : Mask of bits for the STS field in a $CREPRC system service as they are
0000 107     : returned from a $GETJPI system service.
0000 108     :
0000 109     JPI_STS_MASK = <<@PCBSV_NETWRK>!<@PCBSV_SSFEXCU>!<@PCBSV_SSRWAIT>!-
0000 110     <@PCBSV_BATCH>!<@PCBSV_NOACNT>!<@PCBSV_HIBER>!-
0038C600 0000 111     <@PCBSV_LOGIN>>
0000 112     :
0000 113     : The opposite of JPI_STS_MASK
0000 114     :
FFC739FF 0000 115     JPI_STS_NMASK = ^CJPI_STS_MASK
0000 116     :
0000 117     :
0000 118     : Mask of bits for the Privilege field as they are returned from a $GETJPI
0000 119     :
0000 120     JPI_PRV_MASK = <<@PRVSV_CMEXEC>!<@PRVSV_CMKRNL>!<@PRVSV_DETACH>!-
0000 121     <@PRVSV_DIAGNOSE>!<@PRVSV_GROUP>!<@PRVSV_GRPNAM>!-
0000 122     <@PRVSV_LOG_IO>!<@PRVSV_NETMBX>!<@PRVSV_NOACNT>!-
0000 123     <@PRVSV_PHY_IO>!<@PRVSV_PRMCB>!<@PRVSV_PRMMBX>!-
0000 124     <@PRVSV_PSWAPM>!<@PRVSV_SETPRI>!<@PRVSV_SYSNAM>!-
1070BFEF 0000 125     <@PRVSV_SYSPRV>!<@PRVSV_TPMBX>!<@PRVSV_VOLPRO>>
0000 126     :
0000 127     : The compliment of JPI_PRV_MASK
0000 128     :
EF8F4010 0000 129     JPI_PRV_NMASK = ^CJPI_PRV_MASK
0000 130     :
0000 131     : MACROS
0000 132     :
0000 133     .MACRO JPI,NAME,SIZE

```

```
0000 134      .WORD  SIZE
0000 135      .WORD  JPI$ 'NAME'
0000 136      .ADDRESS NAME
0000 137      .ADDRESS NAME'L
0000 138      .SAVE PSECT
0000 139      .PSECT ITEM_LIST
0000 140 NAME:
0000 141      .BLKB  SIZE
0000 142 NAME'L:
0000 143      .WORD  0
0000 144      .RESTORE PSECT
0000 145      .ENDM JPI
```

```

00000000 147 .PSECT ITEM_LIST, RD, WRT, NOEXE, LONG ; psect to store JPI results in
00000000 148 .PSECT RODATA, RD, NOWRT, NOEXE, LONG
0000 149
35 33 53 53 53 54 41 53 00' 0000 150 TEST_MOD_NAME:
08 0000 151 .ASCIC /SATSSS35/ ; needed for SATSMS message
0009 152 TEST_MOD_NAME_D:
53 53 53 54 41 53 0000011'010E0000' 0009 153 .ASCID /SATSSS35/ ; module name
35 33 0017
0019 154 TEST_MOD_BEGIN: ; start end and fail messages
6E 75 67 65 62 00' 0019 155 .ASCIC /begun/
05 0019
001F 156 TEST_MOD_SUCC:
6C 75 66 73 73 65 63 63 75 73 00' 001F 157 .ASCIC /successful/
0A 001F
002A 158 TEST_MOD_FAIL:
64 65 6C 69 61 66 00' 002A 159 .ASCIC /failed/
06 002A
0031 160 CS1: ; failure messages
21 20 74 73 65 54 00000039'010E0000' 0031 161 .ASCID \Test !AC service name !AC step !UL failed.\
6E 20 65 63 69 76 72 65 73 20 43 41 003F
70 65 74 73 20 43 41 21 20 65 6D 61 004B
2E 64 65 6C 69 61 66 20 4C 55 21 20 0057
0063 162 CS2:
74 63 65 70 78 45 0000006B'010E0000' 0063 163 .ASCID \Expected !AS = !XL received !AS = !XL\
4C 58 21 20 3D 20 53 41 21 20 64 65 0071
41 21 20 64 65 76 69 65 63 65 72 20 007D
4C 58 21 20 3D 20 53 0089
0090 164 CS3:
74 63 65 70 78 45 00000098'010E0000' 0090 165 .ASCID \Expected !AS!UB = !XL received !AS!UB = !XL\
20 3D 20 42 55 21 53 41 21 20 64 65 009E
64 65 76 69 65 63 65 72 20 4C 58 21 00AA
58 21 20 3D 20 42 55 21 53 41 21 20 00B6
4C 00C2
00C3 166 CS5:
77 20 65 64 6F 4D 000000CB'010E0000' 00C3 167 .ASCID \Mode was !AS.\
2E 53 41 21 20 73 61 00D1
00D8 168 EXP:
73 75 74 61 74 73 000000E0'010E0000' 00D8 169 .ASCID \status\
00E6 170 AST_PARAM:
61 70 20 54 53 41 000000EE'010E0000' 00E6 171 .ASCID \AST param.\
2E 6D 61 72 00F4
00F8 172 BP:
70 20 65 73 61 62 00000100'010E0000' 00F8 173 .ASCID \base pri.\
2E 69 72 0106
0109 174 PNS:
73 65 63 6F 72 50 00000111'010E0000' 0109 175 .ASCID \Process name was not set correctly.\
6E 20 73 61 77 20 65 6D 61 6E 20 73 0117
65 72 72 6F 63 20 74 65 73 20 74 6F 0123
2E 79 6C 74 63 012F
0134 176 STSFLGS:
47 4C 46 53 54 53 0000013C'010E0000' 0134 177 .ASCID \STSFLG's\
73 27 0142
0144 178 UIC_MSG:
43 49 55 0000014C'010E0000' 0144 179 .ASCID \UIC\
014F 180 EFC_NAME:
46 53 53 54 41 53 00000157'010E0000' 014F 181 .ASCID \SATSSF06_DET\

```


54 45 44 5F 36 30	015D				
	0163	182	PID_STR:		
44 49 50 000016B'010E0000'	0163	183		.ASCID \PID\	
	016E	184	CREPRC:		
43 52 50 45 52 43 00'	016E	185		.ASCIC \CREPRC\	
06	016E				
	0175	186	GETJPI:		
49 50 4A 54 45 47 00'	0175	187		.ASCIC \GETJPI\	
06	0175				
	017C	188	UM:		; mode messages
72 65 73 75 0000184'01CE0000'	017C	189		.ASCID \user\	
	0188	190	MBNAM:		
58 42 4D 35 33 53 0000190'010E0000'	0188	191		.ASCID \S35MBX\	
	0196	192	PRVMASK:		
00000000 1070BF EF	0196	193		.QUAD JPI_PRV_MASK	; used for setting privileges to
	019E	194			; known value
	019E	195	NPRVMASK:		
00000000 EF8F4010	019E	196		.QUAD JPI_PRV_NMASK	; used for clearing any extra
	01A6	197			; privileges
	01A6	198	MSGVEC:		
00000003	01A6	199		.LONG 3	; PUTMSG message vector
00741130	01AA	200		.LONG UETPS_TEXT	
00000001	01AE	201		.LONG 1	
00000217'	01B2	202		.ADDRESS MESSAGEL	
	01B6	203	QUOTA_LIST:		
01	01B6	204		.BYTE PQLS_ASTLM	; minimum quota list
00000001	01B7	205		.LONG 1	
02	01BB	206		.BYTE PQLS_BIOLM	
00000001	01BC	207		.LONG 1	
03	01C0	208		.BYTE PQLS_BYTLM	
00000001	01C1	209		.LONG 1	
04	01C5	210		.BYTE PQLS_CPULM	
00000000	01C6	211		.LONG 0	
05	01CA	212		.BYTE PQLS_DIOLM	
00000001	01CB	213		.LONG 1	
06	01CF	214		.BYTE PQLS_FILLM	
00000001	01D0	215		.LONG 1	
07	01D4	216		.BYTE PQLS_PGFLQUOTA	
00000001	01D5	217		.LONG 1	
08	01D9	218		.BYTE PQLS_PRCLM	
00000000	01DA	219		.LONG 0	
09	01DE	220		.BYTE PQLS_TQELM	
00000000	01DF	221		.LONG 0	
0B	01E3	222		.BYTE PQLS_WSDEFAULT	
00000001	01E4	223		.LONG 1	
0A	01E8	224		.BYTE PQLS_WSQUOTA	
00000001	01E9	225		.LONG 1	
00	01ED	226		.BYTE PQLS_LISTEND	

```

01EE 228 GET_LIST: ; GETJPI List of items and results
01EE 229 JPI ACCOUNT,8
01FA 230 SHORT_LIST:
01FA 231 JPI CPULIM,4
0206 232 JPI CURPRIV,8
0212 233 JPI GRP,4
021E 234 JPI IMAGPRIV,8
022A 235 JPI MEM,4
0236 236 JPI PRCLM,4
0242 237 JPI TQLM,4
024E 238 JPI UIC,4
025A 239 JPI USERNAME,12
00000044 0266 240 JPI_LIST_SIZE=<USERNAME+2>-ACCOUNT
0000003A 0266 241 JPI_LIST_SIZE1=<USERNAME+2>-CPULIM
0266 242 DIRTY: ; GETJPI entrys which will vary
0266 243 JPI APTCNT,4
0272 244 JPI ASTACT,4
027E 245 JPI ASTEN,4
028A 246 JPI ASTCNT,4
0296 247 JPI ASTLM,4
02A2 248 JPI AUTHPRIV,8
02AE 249 JPI BIOCNT,4
02BA 250 JPI BIOLM,4
02C6 251 JPI BUFIO,4
02D2 252 JPI BYTCNT,4
02DE 253 JPI BYTLM,4
02EA 254 JPI CPUTIM,4
02F6 255 JPI DFPFC,4
0302 256 JPI DFWSCNT,4
030E 257 JPI DIOCNT,4
031A 258 JPI DIOLM,4
0326 259 JPI DIRIO,4
0332 260 JPI EFCS,4
033E 261 JPI EFCU,4
034A 262 JPI EFWM,4
0356 263 JPI EXCVEC,4
0362 264 JPI FINALEXC,4
036E 265 JPI FILCNT,4
037A 266 JPI FILLM,4
0386 267 JPI FREPOVA,4
0392 268 JPI FREP1VA,4
039E 269 JPI GPGCNT,4
03AA 270 JPI IMAGNAME,128
03B6 271 JPI LOGINTIM,4
03C2 272 JPI OWNER,4
03CE 273 JPI PAGEFLTS,4
03DA 274 JPI PGFLQUOTA,4
03E6 275 JPI PID,4
03F2 276 JPI PPGCNT,4
03FE 277 JPI PRCNT,4
040A 278 JPI PRCNAM,15
0416 279 JPI PROCPRIV,8
0422 280 JPI PRI,4
042E 281 JPI PRIB,4
043A 282 JPI STATE,4
0446 283 JPI STS,4
0452 284 JPI TMBU,4

```

	045E	285	JPI TQCNT,4	
	046A	286	JPI VOLUMES,4	
	0476	287	JPI VIRTPEAK,4	
	0482	288	JPI WSAUTH,4	
	048E	289	JPI WSQUOTA,4	
	049A	290	JPI WSPEAK,4	
	04A6	291	JPI WSSIZE,4	
00000000	04B2	292	.LONG 0	; list terminator

```

04B6 294 JPI_GOOD: ; expected GETJPI results
04B6 295 ; Item name buffer offset
20 54 53 45 54 53 59 53 04B6 296 .ASCII /SYSTEST / ; ACCOUNT 00
0008 04BE 297 .WORD 8 ; ACCOUNTL 08
04C0 298 JPI_GOOD_SHRT: ;
00000000 04C0 299 .LONG 0 ; CPULIM 0A
0004 04C4 300 .WORD 4 ; CPULIML 0E
00000000 1070BF EF 04C6 301 .QUAD JPI_PRIV_MASK ; CURPRIV 10
0008 04CE 302 .WORD 8 ; CURPRIVL 18
00000001 04D0 303 .LONG 1 ; GRP 1A
0002 04D4 304 .WORD 2 ; GRPL 1E
00000000 00000000 04D6 305 .QUAD 0 ; IMAGEPRIV 20
0008 04DE 306 .WORD 8 ; IMAGEPRIVL 28
00000007 04E0 307 .LONG 7 ; MEM 2A
0002 04E4 308 .WORD 2 ; MEML 2E
00000008 04E6 309 .LONG 8 ; PRCLM 30
0002 04EA 310 .WORD 2 ; PRCLML 38
00000014 04EC 311 .LONG ^X14 ; TQLM 3A
0002 04F0 312 .WORD 2 ; TQLML 3E
00010007 04F2 313 .LONG ^X10007 ; UIC 40
0004 04F6 314 .WORD 4 ; UICL 44
20 20 20 20 20 54 53 45 54 53 59 53 04F8 315 .ASCII /SYSTEST / ; USERNAME 46
000C 0504 316 .WORD ^XC ; USERNAMEL 52
0506 317 IN: ;
0506 318 .ASCID /SYS$INPUT/ ;
0514 319 OUT: ;
0517 320 .ASCID /SYS$OUTPUT/ ;
0525 321 ERR: ;
0529 322 .ASCID /SYS$ERROR/ ;
0537 323 IMAGE_NAME: ;
053A 324 .ASCID /SATSUT01.EXE/ ;
0548 325 PROC_NAME: ;
054E 326 .ASCID /SATSUT35/ ;
055C 327 .BLKB 7 ; process UIC
00000565 055E 328 PROC_UIC: ;
0565 329 .LONG ^X10007 ;
00010007 0565 329 .LONG ^X10007 ;

```

```

0569 331 ;
0569 332 ; .SBTTL R/W PSECT
00000000 333 ; .PSECT RWDATA,RD,WRT,NOEXE,LONG
0000 334 ;
0000 335 ;PID:
00000000 0000 336 .LONG 0 ; PID for this process
00000000 0004 337 CURRENT_IC: ; ptr to current test case
00000000 0004 338 .LONG 0 ; put it on a long word boundry
00000044 0008 339 .ALIGN LONG
00000044 0008 340 REG_SAVE_AREA: ; register save area
00000044 0044 341 .BLKL 15
007480D9 0044 342 MOD_MSG_CODE: ; test module message code for putmsg
00000000 0048 343 .LONG UETPS_SATSMS
00000000 0048 344 TMN_ADDR: .ADDRESS TEST_MOD_NAME
00000019 004C 345 TMD_ADDR: .ADDRESS TEST_MOD_BEGIN
0050 346 PRVPRT: ; protection return byte for SETPRT
00 0050 347 .BYTE 0
00000000 0051 348 PRIVMASK: ; priv. mask
00000000 0051 349 .QUAD 0
00000000 0059 350 CHM_CONT: ; change mode continue address
00000000 0059 351 .LONG 0
00000065 005D 352 RETADR: ; returned address's from SETPRT
00000000 0065 353 .BLKL 2
00000000 0065 354 STATUS: ; current mode string pointer
00000000 0069 355 .LONG 0
00000000 0069 356 MODE: ; current mode string pointer
74 73 69 67 65 72 00000075 010E0000 006D 357 REG: ; register R\
52 20 72 65 007B 358 .ASCID \register R\
00000000 007F 359 REGNUM: ; register number
00000000 007F 360 .LONG 0
00000050 0083 361 MSGL: ; buffer desc.
00000133 0083 362 .LONG 80
00000133 0087 363 .ADDRESS BUF
008B 364 CRE: $CREPRC PID1,0,0,0,0,0,QUOTA_LIST,-
008B 365 0,0,0,0,0 ; CREPRC parameter list
008B 366 0,0,0,0,0 ; GETJPI parameter list's
00C3 367 GET: $GETJPI EFN=1,PIDADR=PID1,PRCNAM=TEST_MOD_NAME_D,ITMLST=GET_LIST
00C3 368 GET1: $GETJPI ITMLST=GET_LIST
00E3 369 ITEM_LIST:
0103 370 .BLKL 12
00000133 0103 371 BUF: ; desc. for BUF_CHECK routine
00000183 0133 372 .BLKB 80
0183 373 ML: ; desc. for BUF_CHECK routine
00000000 0183 374 .LONG 0
00000193 0187 375 .ADDRESS GETBUF+8
018B 376 GETBUF:
00000084 018B 377 .LONG 132
00000193 018F 378 .ADDRESS +4
00000217 0193 379 .BLKB 132
0217 380 MESSAGEL: ; message desc.
00000000 0217 381 .LONG 0

```

00000133'	021B	387	.ADDRESS BUF		
	021F	388	SERV_NAME:		
00000000	021F	389	.LONG	0	; service name pointer
	0223	390	MSGVEC1:		; PUTMSG message vector
00000003	0223	391	.LONG	3	
00741130	0227	392	.LONG	UETPS_TEXT	
00000001	022B	393	.LONG	1	
00000000	022F	394	.LONG	0	
	0233	395	IOSTAT:		
00000000 00000000	0233	396	.QUAD	0	; IO status block
	023B	397	PID1:		
00000000	023B	398	.LONG	0	; PID storage location
	023F	399	MBCHAN:		
0000	023F	400	.WORD	0	; MBX channel location
	0241	401	MBXUN:		
0000	0241	402	.WORD	0	; MBX unit number
	0243	403	IOSTATUS:		
0000024B	0243	404	.BLKL	2	; MBX read IO status block
	024B	405	MBUF:		
000002AF	024B	406	.BLKB	100	; MBX read buffer
	02AF	407	TEST_PID:		
00000000	02AF	408	.LONG	0	; GETJPI parameter
	02B3	409	PRIVS:		
00000000 00000000	02B3	410	.QUAD	0	; privilege mask

```

00000000 412      .PSECT  SATSSS35, RD, WRT, EXE, LONG
0000      413      .SBTTL  SATSSS35
0000      414      :++
0000      415      : FUNCTIONAL DESCRIPTION:
0000      416      :
0000      417      :     After performing some initial housekeeping, such as
0000      418      :     printing the module begin message and acquiring needed privileges,
0000      419      :     the system services are tested in each of their normal conditions.
0000      420      :     Detected failures are identified and an error message is printed
0000      421      :     on the terminal. Upon completion of the test a success or fail
0000      422      :     message is printed on the terminal.
0000      423      :
0000      424      : CALLING SEQUENCE:
0000      425      :
0000      426      :     $ RUN SATSSS35 ... (DCL COMMAND)
0000      427      :
0000      428      : INPUT PARAMETERS:
0000      429      :
0000      430      :     none
0000      431      :
0000      432      : IMPLICIT INPUTS:
0000      433      :
0000      434      :     none
0000      435      :
0000      436      : OUTPUT PARAMETERS:
0000      437      :
0000      438      :     none
0000      439      :
0000      440      : IMPLICIT OUTPUTS:
0000      441      :
0000      442      :     Messages to SYS$OUTPUT are the only output from SATSSS35.
0000      443      :     They are of the form:
0000      444      :
0000      445      :     %UETP-S-SATSMS, TEST MODULE SATSSS35 BEGUN ... (BEGIN MSG)
0000      446      :     %UETP-S-SATSMS, TEST MODULE SATSSS35 SUCCESSFUL ... (END MSG)
0000      447      :     %UETP-E-SATSMS, TEST MODULE SATSSS35 FAILED ... (END MSG)
0000      448      :     %UETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
0000      449      :
0000      450      : COMPLETION CODES:
0000      451      :
0000      452      :     The SATSSS35 routine terminates with a $EXIT to the
0000      453      :     operating system with a status code defined by UETPS_SATSMS.
0000      454      :
0000      455      : SIDE EFFECTS:
0000      456      :
0000      457      :     none
0000      458      :
0000      459      : --
0000      460      :
0000      461      : TEST_START SATSSS35 ; let the test begin

```

```

0000 0000
0004'CF 00 DD 0002
0000'CF 00 DF 0006
00000000'GF 02 FB 0008
00000000'GF 00 FB 000C
0009'CF 01 7F 0013
00000000'GF 01 FB 001A
004C'CF 001F'CF 01 FB 001E
0044'CF 03 00 DE 0025
001F'CF 01 FO 0028
00 00 DD 002F
0BF3'CF 01 FB 0036
003D 0038
003D 462 STP0:
003D 463 :+ .SBTTL CREPRC TESTS
003D 464 :
003D 465 : $CREPRC tests
003D 466 :
003D 467 : test the minimum quota all defaults subprocess with _S
003D 468 :
003D 469 :-
0069'CF 017C'CF DE 003D 470 MOVAL W^UM,W^MODE ; set the mode
021F'CF 016E'CF DE 0044 471 MOVAL W^CREPRC,W^SERV_NAME ; set the service name
004B 472 $CREMBX_S CHAN=W^MBCHAN,-
004B 473 LOGNAM=W^MBNAM ; make something to listen with
0062 474 $GETCHN_S CHAN=W^MBCHAN,-
0062 475 PRIBUF=W^GETBUF ; get the unit number
0241'CF 019F'CF B0 0078 476 MOVW W^GETBUF+8+DIB$W_UNIT,W^MBXUN ; and save it
007F 477 $CREPRC_S QUOTA=W^QUOTA_LIST,-
007F 478 MBXUNT=W^MBXUN ; create a subprocess with _S
00A5 479 FAIL_CHECK SSS_NORMAL ; check for success
00000000'8F DD 00A5
0BFD'CF 01 FB 00AB
56 00000000'8F D0 00B0 480 MOVL #RMS$_FNF,R6 ; set exit status code
00 57 D4 00B7 481 CLRL R7 ; disable PID checking this time
0D30'CF 00 FB 00B9 482 CALLS #0,W^CRE_CHECK ; check the process exit code
00BE 483 :+
00BE 484 :
00BE 485 : test the PIDADR parameter with _G
00BE 486 :
00BE 487 :-
00BE 488 NEXT_TEST
00BE
0004'CF 01 D0 00BE STP1:
00 00 DD 00C3
0BF3'CF 01 FB 00C5
00B7'CF 0241'CF B0 00CA 489 MOVW W^MBXUN,W^CRE+CREPRC$_MBXUNT ; set the MBX unit number
00D1 490 $CREPRC G W^CRE ; try _G and PIDADR param.
00DA 491 FAIL_CHECK SSS_NORMAL ; check for success
00000000'8F DD 00DA
0BFD'CF 01 FB 00E0
00 57 D6 00E5 492 INCL R7 ; enable PID checking
0D30'CF 00 FB 00E7 493 CALLS #0,W^CRE_CHECK ; check the process exit code
56 00000000'8F D0 00EC 494 MOVL #SS$_NORMAL,R6 ; set expected status return

```



```

00F3 495 :+
00F3 496 :
00F3 497 : test the IMAGE param. with _S
00F3 498 :
00F3 499 :-
00F3 500      NEXT_TEST
00F3
00F3      STP2:
0004'CF 02 DO 00F3      MOVL #2,W^CURRENT_TC
00F3      PUSHL #0
0BF3'CF 01 FB 00F8      CALLS #1,W^REG_SAVE
00FF 501      $CREPRC_S QUOTA=W^QUOTA_LIST,-
00FF 502      IMAGE=W^IMAGE_NAME,-
00FF 503      MBXUNT=W^MBXUN,-
00FF 504      PIDADR=W^PID1 ; try _S with IMAGE param.
0129 505      FAIL_CHECK SSS_NORMAL ; check success
00000000'8F DD 0129      PUSHL #SSS_NORMAL
0BFD'CF 01 FB 012F      CALLS #1,W^REG_CHECK
0D30'CF 00 FB 0134 506      $WAKE_S PIDADR = W^PID1 ; cause process termination
0141 507      CALLS #0,W^CRE_CHECK ; check the process exit code
0146 508 :+
0146 509 :
0146 510 : test the INPUT param. with _G
0146 511 :
0146 512 :-
0146 513      NEXT_TEST
0146
0146      STP3:
0004'CF 03 DO 0146      MOVL #3,W^CURRENT_TC
00F3'CF 00 DD 0148      PUSHL #0
0BFD'CF 01 FB 014D      CALLS #1,W^REG_SAVE
0093'CF 053A'CF DE 0152 514      MOVAL W^IMAGE_NAME,W^CRE+CREPRCS$ IMAGE ; set image name
008F'CF 023B'CF DE 0159 515      MOVAL W^PID1,W^CRE+CREPRCS$ PIDADR ; set the PID save address
0097'CF 0506'CF DE 0160 516      MOVAL W^IN,W^CRE+CREPRCS$ INPUT ; set the INPUT param.
0167 517      $CREPRC G W^CRE ; try it
0170 518      FAIL_CHECK SSS_NORMAL ; check success
00000000'8F DD 0170      PUSHL #SSS_NORMAL
0BFD'CF 01 FB 0176      CALLS #1,W^REG_CHECK
0D30'CF 00 FB 017B 519      $WAKE_S PIDADR = W^PID1 ; cause process termination
018D 520      CALLS #0,W^CRE_CHECK ; check the process exit code
018D 521 :+
018D 522 :
018D 523 : test the OUTPUT param. with _S
018D 524 :
018D 525 :-
018D 526      NEXT_TEST
018D
018D      STP4:
0004'CF 04 DO 018D      MOVL #4,W^CURRENT_TC
00F3'CF 00 DD 0192      PUSHL #0
0BFD'CF 01 FB 0194      CALLS #1,W^REG_SAVE
0199 527      $CREPRC_S PIDADR=W^PID1,-
0199 528      IMAGE=W^IMAGE_NAME,-
0199 529      INPUT=W^IN,-
0199 530      OUTPUT=W^OUT,-
0199 531      MBXUNT=W^MBXUN,-
0199 532      QUOTA=W^QUOTA_LIST ; try _S with OUT param.

```

```

00000000'8F DD 01C7 533 FAIL_CHECK SSS_NORMAL ; chec success
OBF3'CF 01 FB 01C7 PUSHL #SS$ NORMAL
0D30'CF 00 FB 01CD CALLS #1,W^REG_CHECK
01D2 534 $WAKE_S PIDADR = W^PID1 ; cause process termination
01DF 535 CALLS #0,W^CRE_CHECK ; check process exit code
01E4 536 :+
01E4 537 : test ERROR param. with _G
01E4 538 :-
01E4 539 :-
01E4 540 :-
01E4 541 NEXT_TEST
01E4 STP5:
0004'CF 05 DO 01E4 MOVL #5,W^CURRENT_TC
OBF3'CF 00 DD 01E9 PUSHL #0
009B'CF 0517'CF 01 FB 01EB CALLS #1,W^REG_SAVE
009F'CF 0529'CF DE 01F0 542 MOVAL W^OUT,W^CRE+CREPRCS_OUTPUT ; set the output param.
DE 01F7 543 MOVAL W^ERR,W^CRE+CREPRCS_ERROR ; set the error output param
01FE 544 $CREPRC G W^CRE ; try G with ERROR param
0207 545 FAIL_CHECK SSS_NORMAL ; check for success
00000000'8F DD 0207 PUSHL #SS$ NORMAL
OBF3'CF 01 FB 020D CALLS #1,W^REG_CHECK
0D30'CF 00 FB 0212 546 $WAKE_S PIDADR = W^PID1 ; cause process termination
021F 547 CALLS #0,W^CRE_CHECK ; check process exit code
0224 548 :+
0224 549 : test PRVADR param with _S
0224 550 :-
0224 551 :-
0224 552 :-
0224 553 NEXT_TEST
0224 STP6:
0004'CF 06 DO 0224 MOVL #6,W^CURRENT_TC
OBF3'CF 00 DD 0229 PUSHL #0
OBF3'CF 01 FB 022B CALLS #1,W^REG_SAVE
0230 554 $CREPRC_S PIDADR=W^PID1,-
0230 555 IMAGE =W^IMAGE_NAME,-
0230 556 INPUT =W^IN,-
0230 557 OUTPUT=W^OUT,-
0230 558 ERROR =W^ERR,-
0230 559 PRVADR=W^PRIVS,-
0230 560 MBXUNT=W^MBXUN,-
0230 561 QUOTA =W^QUOTA_LIST ; try S with PRVADR param
0262 562 FAIL_CHECK SSS_NORMAL ; check success
00000000'8F DD 0262 PUSHL #SS$ NORMAL
OBF3'CF 01 FB 0268 CALLS #1,W^REG_CHECK
0D30'CF 00 FB 026D 563 $WAKE_S PIDADR = W^PID1 ; cause process termination
027A 564 CALLS #0,W^CRE_CHECK ; check image exit status
027F 565 :+
027F 566 : test PRCNAM param with _G
027F 567 :-
027F 568 :-
027F 569 :-
027F 570 NEXT_TEST
0004'CF 07 DO 027F STP7:
MOVL #7,W^CURRENT_TC

```

		DD	0284		PUSHL #0	
	OBF3'CF	01	FB	0286	CALLS #1,W^REG_SAVE	
009F'CF	0529'CF		DE	028B	571	MOVAL W^ERR,W^CRE+CREPRC\$ ERROR ; set the ERROR param.
00A3'CF	02B3'CF		DE	0292	572	MOVAL W^PRIVS,W^CRE+CREPRC\$ PRIVADR ; set the PRIVADR param.
00AB'CF	054E'CF		DE	0299	573	MOVAL W^PROC_NAME,W^CRE+CREPRC\$_PRCNAM ; set the process name
				02A0	574	\$CREPRC G W^CRE ; try G with a PRCNAM
				02A9	575	FAIL_CHECK SSS_NORMAL ; check success
	00000000'8F		DD	02A9		PUSHL #SS\$ NORMAL
	OBF3'CF	01	FB	02AF		CALLS #1,W^REG_CHECK
021F'CF	0175'CF		DE	02B4	576	MOVAL W^GETJPI,W^SERV_NAME ; set service name
				02BB	577	\$GETJPI_S PIDADR = W^PID1,-
				02BB	578	ITMLST = W^GET_LIST ; get the process name
				02D2	579	FAIL_CHECK SSS_NORMAL ; check success
	00000000'8F		DD	02D2		PUSHL #SS\$ NORMAL
	OBF3'CF	01	FB	02D8		CALLS #1,W^REG_CHECK
021F'CF	016E'CF		DE	02DD	580	MOVAL W^CREPRC,W^SERV_NAME ; set service name
0556'CF	01A2'CF	0F	29	02E4	581	CMPC3 #15,W^PRCNAM,W^PROC_NAME+8 ; correct process name?
		09	13	02EC	582	BEQL 10\$; br if OK
	0109'CF		DF	02EE	583	PUSHAL W^PNS ; push string variable
	0C3F'CF	01	FB	02F2	584	CALLS #1,W^PRINT_FAIL ; print the failure
				02F7	585	10\$:
				02F7	586	\$WAKE_S PIDADR = W^PID1 ; cause process termination
0D30'CF	00	FB		0304	587	CALLS #0,W^CRE_CHECK ; check image exit status
				0309	588	:+
				0309	589	::
				0309	590	:: test BASPRI with _S and a lower priority
				0309	591	::
				0309	592	::-
				0309	593	:-
				0309		NEXT_TEST
				0309		STP8:
0004'CF	08	DO		0309		MOVL #8,W^CURRENT_TC
	0C	DD		030E		PUSHL #0
OBF3'CF	01	FB		0310		CALLS #1,W^REG_SAVE
				0315	594	\$CREPRC_S PIDADR = W^PID1,-
				0315	595	IMAGE = W^IMAGE_NAME,-
				0315	596	INPUT = W^IN,-
				0315	597	OUTPUT = W^OUT,-
				0315	598	ERROR = W^ERR,-
				0315	599	BASPRI = #1,-
				0315	600	PRVADR = W^PRIVS,-
				0315	601	MBXUNT = W^MBXUN,-
				0315	602	QUOTA = W^QUOTA_LIST
				0347	603	FAIL_CHECK SSS_NORMAL ; try all that
				0347		; check success
	00000000'8F		DD	0347		PUSHL #SS\$ NORMAL
	OBF3'CF	01	FB	034D		CALLS #1,W^REG_CHECK
021F'CF	0175'CF		DE	0352	604	MOVAL W^GETJPI,W^SERV_NAME ; set service name
				0359	605	\$GETJPI_S PIDADR = W^PID1,-
				0359	606	ITMLST = W^GET_LIST ; get the base priority
				0370	607	FAIL_CHECK SSS_NORMAL ; check success
	00000000'8F		DD	0370		PUSHL #SS\$ NORMAL
	OBF3'CF	01	FB	0376		CALLS #1,W^REG_CHECK
021F'CF	016E'CF		DE	037B	608	MOVAL W^CREPRC,W^SERV_NAME ; set service name
	01C3'CF	01	D1	0382	609	CMPL #1,W^PRIB ; is it correct?
		0F	13	0387	610	BEQL 20\$; br if OK
	01C3'CF		DD	0389	611	PUSHL W^PRIB ; push received
		01	DD	038D	612	PUSHL #1 ; push expected

```

00F8'CF DF 038F 613          PUSHAL W^BP          ; push str variable
0C3F'CF 03 FB 0393 614          CALLS #3,W^PRINT_FAIL ; print the failure
                                0398 615 20$:
                                0398 616          $WAKE_S PIDADR = W^PID1 ; cause process termination
0D30'CF 00 FB 03A5 617          CALLS #0,W^CRE_CHECK  ; check image exit status
                                03AA 618 ;+
                                03AA 619 ;
                                03AA 620 ; test BASPRI with _S and a higher priority
                                03AA 621 ;
                                03AA 622 ;
                                03AA 623 ;-
                                NEXT_TEST

0004'CF 09 DD 03AA          STP9:
0BF3'CF 01 DD 03AF          MOVL #9,W^CURRENT_TC
                                03B1 624          PUSHL #0
                                03B6 625          CALLS #1,W^REG_SAVE
59 00000000'9F DO 03D3 625          MODE TO,25$,KRNL,NOREGS ; kernal mode to access PHD
0051'CF 69 DE 03DA 626          MOVL @#CTL$GL_PHD,R9 ; get process header address
                                03DF 627          MOVAL PHD$Q PRIVMSK(R9),W^PRIVMASK ; get priv mask address
                                03E0 628          MODE FROM,25$ ; get back to user mode
                                0400 629          PRIV ADD,SETPRI ; add SETPRI priv
0BF3'CF 01 DD 0400 629          PUSHL #0 ; push a dummy parameter
                                0402 630          CALLS #1,W^REG_SAVE ; save the registers
                                0407 631          $CREPRC_S PIDADR = W^PID1,-
                                0407 632          IMAGE = W^IMAGE_NAME,-
                                0407 633          INPUT = W^IN,-
                                0407 634          OUTPUT = W^OUT,-
                                0407 635          ERROR = W^ERR,-
                                0407 636          BASPRI = #4,-
                                0407 637          PRVADR = W^PRIVS,-
                                0407 638          MBXUNT = W^MBXUN,-
                                0407 639          QUOTA = W^QUOTA_LIST ; try _S higher priority
                                0439 640          FAIL_CHECK S$$_NORMAL ; check success
                                0439 640          PUSHL #SS$ NORMAL
                                043F 641          CALLS #1,W^REG_CHECK
021F'CF 0175'CF DE 0444 641          MOVAL W^GETJPI,W^SERV_NAME ; set the service name
                                044B 642          $GETJPI_S PIDADR = W^PID1,-
                                044B 643          ITMLST = W^GET_LIST ; get the base priority
                                0462 644          FAIL_CHECK S$$_NORMAL ; check success
                                0462 644          PUSHL #SS$ NORMAL
                                0468 645          CALLS #1,W^REG_CHECK
021F'CF 016E'CF DE 046D 645          MOVAL W^CREPRC,W^SERV_NAME ; reset the service name
01C3'CF 04 D1 0474 646          CMPL #4,W^PRIB ; is the priority OK?
                                0474 647          BEQL 30$ ; br if OK
                                047B 648          PUSHL W^PRIB ; push received
                                047F 649          PUSHL #4 ; push expected
                                0481 650          PUSHAL W^BP ; push the str variable
0C3F'CF 03 FB 0485 651          CALLS #3,W^PRINT_FAIL ; print the failure
                                048A 652 30$:
                                048A 653          $WAKE_S PIDADR = W^PID1 ; cause process termination
0D30'CF 00 FB 0497 654          CALLS #0,W^CRE_CHECK ; check image exit status
                                049C 655 ;+
                                049C 656 ;
                                049C 657 ; test detached process
                                049C 658 ;
                                049C 659 ;-
                                049C 660          NEXT_TEST

```

```

0004'CF 0A DO 049C
0000'CF 00 DD 049C
0BF3'CF 01 FB 04A1
04A8 661
04A8 662
04A8 663
04A8 664
04A8 665
04A8 666
04A8 667
04A8 668
04A8 669
04A8 670
04DC 671
00000000'8F DD 04DC
0BFD'CF 01 FB 04E2
021F'CF 0175'CF DE 04E7 672
04EE 673
04EE 674
0505 675
00000000'8F DD 0505
0BFD'CF 01 FB 050B
021F'CF 016E'CF DE 0510 676
0565'CF 003C'CF D1 0517 677
11 13 051E 678
003C'CF DD 0520 679
0565'CF DD 0524 680
0144'CF DF 0528 681
0C3F'CF 03 FB 052C 682
0531 683
0531 684
0D30'CF 00 FB 053E 685
0543 686
0543 687
0543 688
0543 689
0543 690
0543 691
0004'CF 0B DO 0543
0000'CF 00 DD 0548
0BF3'CF 01 FB 054A
054F 692
59 00000000'9F DO 056C 693
0051'CF 69 DE 0573 694
0578 695
0579 696
0599 697
0589 698
00 DD 05D9 699
0BFD'CF 01 FB 05DB 700
021F'CF 0175'CF DE 05E0 701
05E7 702
05FC 703
STP10:
MOVL #10,W^CURRENT_TC
PUSHL #0
CALLS #1,W^REG_SAVE
$CREPRC_S PIDADR = W^PIDT,-
IMAGE = W^IMAGE_NAME,-
INPUT = W^IN,-
OUTPUT = W^OUT,-
ERROR = W^ERR,-
BASPRI = #2,-
PRVADR = W^PRIVS,-
MBXUNT = W^MBXUN,-
QUOTA = W^QUOTA_LIST,-
UIC = W^PROC_UIC
FAIL_CHECK SSS_NORMAL ; try S and all this
PUSHL #SS$ NORMAL ; check success
CALLS #1,W^REG_CHECK
MOVAL W^GETJPI,W^SERV_NAME ; set service name
$GETJPI_S PIDADR = W^PID1,-
ITMLST = W^GET_LIST ; get the process UIC
FAIL_CHECK SSS_NORMAL ; check success
PUSHL #SS$ NORMAL
CALLS #1,W^REG_CHECK
MOVAL W^CREPRC,W^SERV_NAME ; reset the service name
CML W^UIC,W^PROC_UIC ; is the UIC correct?
BEQL 40$ ; br if OK
PUSHL W^UIC ; push received
PUSHL W^PROC_UIC ; push expected
PUSHAL W^UIC MSG ; push the string variable
CALLS #3,W^PRINT_FAIL ; print the failure
40$:
$WAKE_S PIDADR = W^PID1 ; cause process termination
CALLS #0,W^CRE_CHECK ; check the process exit status
:+
: test the STSFLG's _S with all set
:-
NEXT_TEST
STP11:
MOVL #11,W^CURRENT_TC
PUSHL #0
CALLS #1,W^REG_SAVE
MODE TO,45$,KRNL,NOREGS ; kernal mode to access PHD
MOVL @#CTL$GL PHD,R9 ; get process header address
MOVAL PHD$Q PRIVMSK(R9),W^PRIVMASK ; get priv mask address
MODE FROM,45$ ; get back to user mode
PRIV ADD,PSWAPM ; add PSWAPM priv
PRIV ADD,NOACNT ; add NOACNT priv
PRIV ADD,NETMBX ; add NETMBX priv
PUSHL #0 ; push a dummy param
CALLS #1,W^REG_SAVE ; save a reg snap shot
MOVAL W^GETJPI,W^SERV_NAME ; set service name
$GETJPI_S ITMLST = W^GET_LIST ; get the current process privs
FAIL_CHECK SSS_NORMAL ; check success

```

```

00000000'8F DD 05FC          PUSHL #SS$ NORMAL
0BFD'CF 01 FB 0602          CALLS #1,W^REG CHECK
021F'CF 016E'CF DE 0607 704 MOVAL W^CREPRC,W^SERV_NAME ; set the service name
02B3'CF 0010'CF 7D 060E 705 MOVQ W^CURPRIV,W^PRIVS ; set the detached process privs
0615 706 $CREPRC_S PIDADR = W^PID1,-
0615 707 IMAGE = W^IMAGE_NAME,-
0615 708 INPUT = W^IN,-
0615 709 OUTPUT = W^OUT,-
0615 710 ERROR = W^ERR,-
0615 711 BASPRI = #2,-
0615 712 PRVADR = W^PRIVS,-
0615 713 MBXUNT = W^MBXUN,-
0615 714 QUOTA = W^QUOTA_LIST,-
0615 715 UIC = W^PROC_OIC,-
0615 716 STSFLG = #^XFF ; try every thing _S
064D 717 FAIL_CHECK SS$ _NORMAL ; check success
00000000'8F DD 064D          PUSHL #SS$ NORMAL
0BFD'CF 01 FB 0653          CALLS #1,W^REG CHECK
021F'CF 0175'CF DE 0658 718 MOVAL W^GETJPI,W^SERV_NAME ; set service name
065F 719 $GETJPI_S PIDADR = W^PID1,-
0676 720 ITMLST = W^GET_LIST ; get process status flags
0676 721 FAIL_CHECK SS$ _NORMAL ; check success
00000000'8F DD 0676          PUSHL #SS$ NORMAL
0BFD'CF 01 FB 067C          CALLS #1,W^REG CHECK
021F'CF 016E'CF DE 0681 722 MOVAL W^CREPRC,W^SERV_NAME ; reset service name
000001CF'EF FFC739FF 8F CA 0688 723 BICL #JPI_STS_NMASK,STS ; clear out any extraneous
0693 724 ; bits set by the Swapper
0038C600 8F 01CF'CF D1 0693 725 CMLP W^STS,#JPI_STS_MASK ; flags OK?
13 13 069C 726 BEQL 50$ ; br if OK
01CF'CF DD 069E 727 PUSHL W^STS ; push received
0038C600 8F DD 06A2 728 PUSHL #JPI_STS_MASK ; push expected
0134'CF DF 06A8 729 PUSHAL W^STSFLGS ; push str variable
0C3F'CF 03 FB 06AC 730 CALLS #3,W^PRINT_FAIL ; print the failure
06B1 731 50$:
06B1 732 $DELPRC_S PIDADR = W^PID1 ; needed for bit 5 in STS
06BE 733 CLRL R6 ; set expected status return
56 0D30'CF 00 FB 06C0 734 CALLS #0,W^CRE CHECK ; check image exit status
56 00000000'8F DO 06C5 735 MOVL #SS$_NORMAL,R6 ; reset the expected status return
06CC 736 ;+
06CC 737 ;:
06CC 738 ;: test the STSFLG's _G all clear
06CC 739 ;:
06CC 740 ;:-
06CC 741
NEXT_TEST
STP12:
0004'CF 0C DO 06CC          MOVL #12,W^CURRENT_TC
00B3'CF 01 DD 06D1          PUSHL #0
00A3'CF 02B3'CF DE 06D8 742 MOVAL W^PRIVS,W^CRE+CREPRCS PRVADR ; setup PRVADR parameter
00AB'CF 054E'CF DE 06DF 743 MOVAL W^PROC NAME,W^CRE+CREPRCS_PRCNAM ; setup PRCNAM parameter
00AF'CF 02 DO 06E6 744 MOVL #2,W^CRE+CREPRCS BASPRI ; setup BASPRI parameter
00B3'CF 0565'CF DO 06EB 745 MOVL W^PROC UIC,W^CRE+CREPRCS_UIC ; setup UIC parameter
06F2 746 $CREPRC_G W^CRE ; try it all _G
021F'CF 0175'CF DE 06FB 747 MOVAL W^GETJPI,W^SERV_NAME ; set service name
07C2 748 $GETJPI_S PIDADR = W^PID1,-
0702 749 ITMLST = W^GET_LIST ; get the process status flags

```



```

0004'CF 0F DO 0824          MOVL #15,W^CURRENT_TC
                                PUSHL #0
0BF3'CF 00 DD 0829          CALLS #1,W^REG_SAVE
021F'CF 01 FB 082B          MOVAL W^CREPRC,W^SERV_NAME ; set service name
016E'CF 01 DE 0830          $CREPRC_S QUOTA = W^QUOTA_LIST,-
                                IMAGE = W^IMAGE_NAME,-
                                PIDADR = W^PID1,-
                                PRCNAM = W^PROC_NAME ; create the target process
                                FAIL_CHECK SSS_NORMAL ; check for success
0837 803
0837 804
0837 805
0837 806
0837 807
0861 808
00000000'8F DD 0861          PUSHL #SS$ NORMAL
0BFD'CF 01 FB 0867          CALLS #1,W^REG_CHECK
021F'CF 0175'CF DE 086C          MOVAL W^GETJPI,W^SERV_NAME ; reset the service name
                                $GETJPI_S EFN = #1,-
                                ITMLST = W^GET_LIST ; try S with EFN
                                FAIL_CHECK SSS_NORMAL ; check success
0888 812
00000000'8F DD 0888          PUSHL #SS$ NORMAL
0BFD'CF 01 FB 088E          CALLS #1,W^REG_CHECK
0893 813          $WAITFR_S EFN = #1 ; wait for completion
0DDA'CF 00 FB 089C          CALLS #0,W^JPI_CHECK ; check the results
00C7'CF 01 DO 08A1          MOVL #1,W^GET+GETJPI$ EFN ; set the EFN
00CB'CF 023B'CF DE 08A6          MOVAL W^PID1,W^GET+GETJPI$_PIDADR ; set the target process PID
                                $GETJPI G W^GET ; try G with target process
                                FAIL_CHECK SSS_NORMAL ; check success
08AD 817
08B6 818
00000000'8F DD 08B6          PUSHL #SS$ NORMAL
0BFD'CF 01 FB 08BC          CALLS #1,W^REG_CHECK
08C1 819          $WAITFR_S EFN = #1 ; wait for completion
0DDA'CF 00 FB 08CA          CALLS #0,W^JPI_CHECK ; check the results
08CF 821 ;+
08CF 822 ;+
08CF 823 ; test common EFN with _S
08CF 824 ;+
08CF 825 ;+
08CF 826 ;+
                                NEXT_TEST
08CF 827
08CF 828
08CF 829
08CF 830
08CF 831
0004'CF 10 DO 08CF          STP16:
                                MOVL #16,W^CURRENT_TC
0BF3'CF 01 DD 08D4          PUSHL #0
                                FB 08D6          CALLS #1,W^REG_SAVE
                                08DB 827          $ACEFC_S EFN = #65,-
                                08DB 828          NAME = W^EFC_NAME ; get a common EF
                                08F0 829          $GETJPI_S EFN = #65,-
                                08F0 830          ITMLST = W^GET_LIST ; try S with CEFC
                                0909 831          FAIL_CHECK SSS_NORMAL ; check success
                                DD 0909          PUSHL #SS$ NORMAL
                                FB 090F          CALLS #1,W^REG_CHECK
                                0914 832          $WAITFR_S EFN = #65 ; wait for completion
0DDA'CF 00 FB 0921          CALLS #0,W^JPI_CHECK ; check results
00C7'CF 00000041 8F DO 0926          MOVL #65,W^GET+GETJPI$_EFN ; set the common EFC
                                092F 835          $GETJPI G W^GET ; try G, CEFC, and target process
                                0938 836          FAIL_CHECK SSS_NORMAL ; check for success
                                DD 0938          PUSHL #SS$ NORMAL
                                FB 093E          CALLS #1,W^REG_CHECK
                                0943 837          $WAITFR_S EFN = #65 ; wait for completion
0DDA'CF 00 FB 0950          CALLS #0,W^JPI_CHECK ; check the results
                                0955 839          $DACEFC_S EFN = #65 ; release the CEFC
                                0962 840
                                0962 841 ;+

```

```
0962 842 :  
0962 843 : test PIDADR  
0962 844 :  
0962 845 :-  
0962 846 NEXT_TEST  
0962  
0962 STP17:  
0004'CF 11 DO 0962 MOVL #17,W^CURRENT_TC  
00 DD 0967 PUSHL #0  
0BF3'CF 01 FB 0969 CALLS #1,W^REG_SAVE  
096E 847 $GETJPI_S EFN = #2,-  
096E 848 PIDADR = W^PID1,-  
096E 849 ITMLST = W^GET_LIST ; try S with PID  
0985 850 FAIL_CHECK SSS_NORMAL ; check success  
00000000'8F DD 0985 PUSHL #SS$ NORMAL  
0BFD'CF 01 FB 098B CALLS #1,W^REG_CHECK  
0990 851 $WAITFR_S EFN = #2 ; wait for completion  
0DDA'CF 00 FB 0999 852 CALLS #0,W^JPI_CHECK ; check the results  
099E 853 :+  
099E 854 :  
099E 855 : test PRCNAM  
099E 856 :  
099E 857 :-  
099E 858 NEXT_TEST  
099E  
099E STP18:  
0004'CF 12 DU 099E MOVL #18,W^CURRENT_TC  
00 DD 09A3 PUSHL #0  
0BF3'CF 01 FB 09A5 CALLS #1,W^REG_SAVE  
09AA 859 $GETJPI_S EFN = #3,-  
09AA 860 PRCNAM = W^PROC_NAME,-  
09AA 861 ITMLST = W^GET_LIST ; try S with PRCNAM  
09C1 862 FAIL_CHECK SSS_NORMAL ; check success  
00000000'8F DD 09C1 PUSHL #SS$ NORMAL  
0BFD'CF 01 FB 09C7 CALLS #1,W^REG_CHECK  
09CC 863 $WAITFR_S EFN = #3 ; wait for completion  
0DDA'CF 00 FB 09D5 864 CALLS #0,W^JPI_CHECK ; check the results  
09DA 865 $GETJPI_S EFN = #16,-  
09DA 866 PRCNAM = W^TEST_MOD_NAME_D,-  
09DA 867 ITMLST = W^GET_LIST ; try S with PRCNAM on self  
09F1 868 FAIL_CHECK SSS_NORMAL ; check success  
00000000'8F DD 09F1 PUSHL #SS$ NORMAL  
0BFD'CF 01 FB 09F7 CALLS #1,W^REG_CHECK  
09FC 869 $WAITFR_S EFN = #16 ; wait for completion  
0DDA'CF 00 FB 0A05 870 CALLS #0,W^JPI_CHECK ; check the results  
0A0A 871 :+  
0A0A 872 :  
0A0A 873 : test IO$B  
0A0A 874 :  
0A0A 875 :-  
0A0A 876 NEXT_TEST  
0A0A  
0A0A STP19:  
0004'CF 13 DO 0A0A MOVL #19,W^CURRENT_TC  
00 DD 0A0F PUSHL #0  
0BF3'CF 01 FB 0A11 CALLS #1,W^REG_SAVE  
0A16 877 $GETJPI_S EFN = #4,-
```

```

00000000'8F DD 0A16 878 IOSB = W^IOSTAT,-
OBFD'CF 01 FB 0A16 879 PRCNAM = W^IMAGE_NAME,-
0A16 880 PIDADR = W^PID1,-
0A16 881 ITMLST = W^GET_LIST ; try all this stuff
0A31 882 FAIL_CHECK $$$_NORMAL ; check success
0A31 883 PUSHL #$$$_NORMAL
0A37 884 CALLS #1,W^REG_CHECK
0A3C 885 $WAITFR_S EFN = #4 ; wait for completion
ODDA'CF 00 FB 0A45 884 CALLS #0,W^JPI_CHECK ; check the results
0A4A 885 :+
0A4A 886 : test ASTADR and ASTPRM _S
0A4A 887 :-
0A4A 888 :-
0A4A 889 :-
0A4A 890 NEXT_TEST
0A4A
0004'CF 14 DO 0A4A STP20:
OBFD'CF 01 FB 0A4F MOVL #20,W^CURRENT_TC
0A51 891 PUSHL #0
0A56 892 CALLS #1,W^REG_SAVE ; disable AST's
0A5F 893 $$SETAST_S ENBFLG = #0
0A5F 894 $GETJPI_S ASTADR = B^20$,-
0A5F 895 ASTPRM = #5,-
0A5F 896 IOSB = W^IOSTAT,-
0A5F 897 PRCNAM = W^IMAGE_NAME,-
0A5F 898 PIDADR = W^PID1,-
0A7D 899 ITMLST = W^GET_LIST ; try an AST
0A7D 900 FAIL_CHECK $$$_NORMAL ; check success
0A83 901 PUSHL #$$$_NORMAL
0A88 902 CALLS #1,W^REG_CHECK
0A91 903 $$SETAST_S ENBFLG = #1 ; let er rip
0A98 904 $HIBER_S ; wait here for completion
0A9A 905 BRB 40$ ; jump over the AST routine
0A9A 906 20$:
0A9C 907 .WORD ^M<R2,R3,R4>
0AA0 908 CMPL #5,4(AP) ; is this the right param
0AA2 909 BEQL 30$ ; br if OK
0AA5 910 PUSHL 4(AP) ; push the received
0AA7 911 PUSHL #5 ; push expected
0AAB 912 PUSHAL W^AST_PARAM ; push the string variable
0AB0 913 CALLS #3,W^PRINT_FAIL ; print the failure
0AB0 914 30$:
0AB5 915 CALLS #0,W^JPI_CHECK ; check the results
0AC0 916 $WAKE_S ; time to wake up
0AC1 917 RET ; return
0AC1 918 :+
0AC1 919 : test ASTADR and ASTPRM _G to test all offset definitions
0AC1 920 :-
0AC1 921 NEXT_TEST
0AC1
0004'CF 15 DO 0AC1 STP21:
OBFD'CF 01 FB 0AC6 MOVL #21,W^CURRENT_TC
0AC8 922 PUSHL #0
0AC8 923 CALLS #1,W^REG_SAVE

```

00C7'CF	0C	DO	OACD	921	\$SETAST_S ENBFLG = #0	: disable AST's
00CB'CF	023B'CF	DE	OAD6	922	MOVL #12,W^GET+GETJPI\$ EFN	: setup EFN param
00CF'CF	053A'CF	DE	OADB	923	MOVAL W^PID1,W^GET+GETJPI\$ PIDADR	: setup PIDADR param
00D7'CF	0233'CF	DE	OAE2	924	MOVAL W^IMAGE_NAME,W^GET+GETJPI\$ PRCNAM	: setup PRCNAM param
00DB'CF	25'AF	DE	OAE9	925	MOVAL W^IOSTAT,W^GET+GETJPI\$ IOSB	: setup IOSB param
00DF'CF	FFFFFFF 8F	DO	OAF0	926	MOVAL B^20\$,W^GET+GETJPI\$ ASTADR	: setup ASTADR param
			OAF6	927	MOVL #-1,W^GET+GETJPI\$_ASTPRM	: setup ASTPRM param
			OAFF	928	\$GETJPI_G W^GET	: try it all G
			OB08	929	FAIL_CHECK \$\$\$_NORMAL	: check success
00000000'8F		DD	OB08		PUSHL #\$\$\$_NORMAL	
0BFD'CF	01	FB	OB0E		CALLS #1,W^REG_CHECK	
			OB13	930	\$SETAST_S ENBFLG = #1	: let er rip
			OB1C	931	\$HIBER_S	: wait here for completion
	23	11	OB23	932	BRB -40\$: jump over the AST routine
			OB25	933		
04 AC	FFFFFFF 8F	001C	OB25	934	.WORD ^M<R2,R3,R4>	
	12	D1	OB27	935	CMPL #-1,4(AP)	: is this the right param
	04 AC	13	OB2F	936	BEQL 30\$: br if OK
	FFFFFFF 8F	DD	OB31	937	PUSHL 4(AP)	: push the received
	00E6'CF	DF	OB34	938	PUSHL #-1	: push expected
0C3F'CF	03	FB	OB3A	939	PUSHAL W^AST_PARAM	: push the string variable
			OB3E	940	CALLS #3,W^PRINT_FAIL	: print the failure
			OB43	941		
ODDA'CF	00	FB	OB43	942	CALLS #0,W^JPI_CHECK	: check the results
			OB48	943		
			OB48	944	:+	
			OB48	945	:	
			OB48	946	: test a shorter list starting with a PCB item followed by a JIB item	
			OB48	947	:	
			OB48	948	:-	
			OB48	949		
			OB48		NEXT_TEST	
0004'CF	16	DO	OB48		STP22:	
	00	DD	OB48		MOVL #22,W^CURRENT_TC	
0BF3'CF	01	FB	OB4D		PUSHL #0	
			OB4F		CALLS #1,W^REG_SAVE	
			OB54	950	\$GETJPI_S EFN = #17,-	
			OB54	951	PIDADR = W^PID1,-	
			OB54	952	ITMLST = W^SHORT_LIST	: try S, target process, short list
			OB6B	953	FAIL_CHECK \$\$\$_NORMAL	: check success
00000000'8F		DD	OB6B		PUSHL #\$\$\$_NORMAL	
0BFD'CF	01	FB	OB71		CALLS #1,W^REG_CHECK	
56 000A'CF		DE	OB76	954	MOVAL W^CPULIM,R6	: set questionable data adr
57 04C0'CF		DE	OB7B	955	MOVAL W^JPI_GOOD_SHRT,R7	: set good data adr
	58 3A	DO	OB80	956	MOVL #JPI_LIST_SIZE1,R8	: set the byte count
ODDA'CF	00	FB	OB83	957	CALLS #0,W^JPI_CHECK	: check the results
	00	DD	OB88	958	PUSHL #0	: push a dummy parameter
0BF3'CF	01	FB	OB8A	959	CALLS #1,W^REG_SAVE	: save a reg snapshot
			OB8F	960	\$GETJPI_S EFN = #18,-	
			OB8F	961	PRCNAM = W^TEST_MOD_NAME_D,-	
			OB8F	962	ITMLST = W^SHORT_LIST	: try S, self, short list
			OBA6	963	FAIL_CHECK \$\$\$_NORMAL	: check for success
00000000'8F		DD	OBA6		PUSHL #\$\$\$_NORMAL	
0BFD'CF	01	FB	OBAC		CALLS #1,W^REG_CHECK	
			OB81	964	\$WAITFR_S EFN = #18	: wait for completion
ODDA'CF	00	FB	OBBA	965	CALLS #0,W^JPI_CHECK	: check the results
			OB8F	966	\$WAKE_S PIDADR = W^PID1	: get rid of the target process

			OBCC	967	TEST_END	
	004C'CF	DD	OBCC		PUSHL	W^TMD_ADDR
	0048'CF	DD	OBDO		PUSHL	W^TMN_ADDR
		DD	OBDA		PUSHL	#2
	0044'CF	DD	OBDA		PUSHL	W^MOD_MSG_CODE
	00000000'GF	FR	OBDA		CALLS	\$\$\$T1,G^LIB\$SIGNAL
0044'CF	01	1C	01	FB	INSV	#1,#STSSV_INHIB_MSG,#1,W^MOD_MSG_CODE
	0044'CF	DD	OBE8		PUSHL	W^MOD_MSG_CODE
00000000'GF	01	FB	OBE8		CALLS	#1,G^SYS\$EXIT

```

OBF3 969 .SBTTL ROUTINES
OBF3 970 .SBTTL REG_SAVE
OBF3 971 :++
OBF3 972 : FUNCTIONAL DESCRIPTION:
OBF3 973 : Subroutine to save R2-R11 in the register save location.
OBF3 974 :
OBF3 975 : CALLING SEQUENCE:
OBF3 976 : PUSHL #0 ; save a dummy parameter
OBF3 977 : CALLS #1,W^REG_SAVE ; save R2-R11
OBF3 978 :
OBF3 979 : INPUT PARAMETERS:
OBF3 980 : NONE
OBF3 981 :
OBF3 982 : OUTPUT PARAMETERS:
OBF3 983 : NONE
OBF3 984 :
OBF3 985 :--
OBF3 986 :
OBF3 987 REG_SAVE:
OBF3 988 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
OBF3 989 MOVC3 #4*10,^X14(FP),W^REG_SAVE_AREA ; save the registers in the program
OBF3 990 RET
OBF3 991 .SBTTL REG_CHECK
OBF3 992 :++
OBF3 993 : FUNCTIONAL DESCRIPTION:
OBF3 994 : Subroutine to test R0 & R2-R11 for proper content after a service
OBF3 995 : execution. A snapshot is taken by the REG_SAVE routine at the
OBF3 996 : beginning of each step and this routine is executed after the
OBF3 997 : services have been executed.
OBF3 998 :
OBF3 999 : CALLING SEQUENCE:
OBF3 1000 : PUSHL #SS$ XXXXX ; push expected R0 contents
OBF3 1001 : CALLS #1,W^REG_CHECK ; execute this routine
OBF3 1002 :
OBF3 1003 : INPUT PARAMETERS:
OBF3 1004 : expected R0 contents on the stack
OBF3 1005 :
OBF3 1006 : OUTPUT PARAMETERS:
OBF3 1007 : possible error messages printed using $PUTMSG
OBF3 1008 :
OBF3 1009 :--
OBF3 1010 :
OBF3 1011 REG_CHECK:
OBF3 1012 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
OBF3 1013 CMPL 4(AP),R0 ; is this the right fail code?
OBF3 1014 BEQL 10$ ; br if yes
OBF3 1015 PUSHL R0 ; push received data
OBF3 1016 PUSHL 4(AP) ; push expected data
OBF3 1017 PUSHAL W^EXP ; push the string variable
OBF3 1018 CALLS #3,W^PRINT_FAIL ; print the error message
OBF3 1019 10$:
OBF3 1020 CMPC3 #4*10,^X14(FP),W^REG_SAVE_AREA ; check all but R0
OBF3 1021 BEQL 20$ ; br if O.K.
OBF3 1022 SUBL3 #REG_SAVE_AREA,R3,R6 ; calculate the register number
OBF3 1023 DIVL2 #4,R6
OBF3 1024 ADDB3 #^X2,R6,-(SP) ; set number past R0-R1 and save
OBF3 1025 BICL2 #3,R1 ; backup to register boundaries

```

0008'CF 14 AD 28 OFFC 28 04

50 04 AC D1 OFFC

04 AC DD OC07 1016

00D8'CF DF OC0A 1017

OC3F'CF 03 FB OC0E 1018

0008'CF 14 AD 28 29 OC13 1020

56 53 00000008'8F C3 OC1C 1022

56 04 C6 OC24 1023

7E 56 02 81 OC27 1024

51 03 CA OC2B 1025

```

53 03 CA OC2E 1026 BICL2 #3,R3
61 DD OC31 1027 PUSHL (R1) ; push received data
63 DD OC33 1028 PUSHL (R3) ; push expected data
006D'CF DF OC35 1029 PUSHAL W^REG ; set string pntr param.
OC3F'CF 04 FB OC39 1030 CALLS #4,W^PRINT_FAIL ; print the error message
04 OC3E 1031 20$:
OC3E 1032 RET
OC3F 1033 .SBTTL PRINT_FAIL
OC3F 1034 :++
OC3F 1035 : FUNCTIONAL DESCRIPTION:
OC3F 1036 : Subroutine to report failures using $PUTMSG
OC3F 1037 :
OC3F 1038 : CALLING SEQUENCE:
OC3F 1039 : Mode #1 PUSHL EXPECTED Mode #2 PUSHL REG NUMBER
OC3F 1040 : PUSHL RECEIVED PUSHL EXPECTED
OC3F 1041 : PUSHAL STRING VAR PUSHL RECEIVED
OC3F 1042 : CALLS #3,W^PRINT_FAIL PUSHAL STRING VAR
OC3F 1043 : CALLS #4,W^PRINT_FAIL
OC3F 1044 : Mode #3 PUSHAL STRING VAR
OC3F 1045 : CALLS #1,W^PRINT_FAIL
OC3F 1046 :
OC3F 1047 : INPUT PARAMETERS:
OC3F 1048 : Listed above
OC3F 1049 :
OC3F 1050 : OUTPUT PARAMETERS:
OC3F 1051 : an error message is printed using $PUTMSG
OC3F 1052 :
OC3F 1053 :--
OC3F 1054 :
OC3F 1055 PRINT_FAIL:
003C OC3F 1056 .WORD ^M<R2,R3,R4,R5>
OC41 1057 $FAO_S W^CS1,W^MESSAGEL,W^MSGL,#TEST_MOD_NAME,W^SERV_NAME,W^CURRENT_TC
OC62 1058 $PUTMSG_S W^MSGVEC ; print the message
04 6C 91 OC73 1059 CMPB (AP),#4 ; is this a register message?
26 13 OC76 1060 BEQL 10$ ; br if yes
01 6C 91 OC78 1061 CMPB (AP),#1 ; is this just a message?
48 13 OC7B 1062 BEQL 20$ ; br if yes
OC7D 1063 $FAO_S W^CS2,W^MESSAGEL,W^MSGL,4(AP),8(AP),4(AP),12(AP)
40 11 OC9C 1064 BRB 30$ ; goto output message
OC9E 1065 10$:
OC9E 1066 $FAO_S W^CS3,W^MESSAGEL,W^MSGL,4(AP),16(AP),8(AP),4(AP),16(AP),12(AP)
19 11 OCC3 1067 BRB 30$ ; goto output message
O22F'CF 04 AC D0 OCC5 1068 20$:
OCC5 1069 MOVL 4(AP),W^MSGVEC1+12 ; save string address
OCCB 1070 $PUTMSG_S W^MSGVEC1 ; print the message
11 11 OCDC 1071 BRB 40$ ; skip the other message
OCDE 1072 30$:
OCDE 1073 $PUTMSG_S W^MSGVEC ; print the message
OCEF 1074 40$:
OCEF 1075 CALLS #0,W^MODE ID ; identify the mode
0044'CF 003'CF 002A'CF DE OCF4 1076 MOVAL W^TEST_MOD_FAIL,W^TMD_ADDR ; set failure message address
0044'CF 03 00 02 FO OCFB 1077 INSV #ERROR,#0,#3,W^MOD_MSG_CODE ; set severity code
04 OD02 1078 RET

```

```

0D03 1080      .SBTTL  MODE_ID
0D03 1081      :++
0D03 1082      : FUNCTIONAL DESCRIPTION:
0D03 1083      : Subroutine to identify the mode that an exit handler is in.
0D03 1084      :
0D03 1085      : CALLING SEQUENCE:
0D03 1086      : CALLS  #0,W^MODE_ID
0D03 1087      :
0D03 1088      : INPUT PARAMETERS:
0D03 1089      : MODE contains an address pointing to an ascii string desc.
0D03 1090      : of the current CPU mode.
0D03 1091      :
0D03 1092      : OUTPUT PARAMETERS:
0D03 1093      : NONE
0D03 1094      :
0D03 1095      :--
0D03 1096      :
0D03 1097      MODE_ID:
003C 0D03 1098      .WORD  ^M<R2,R3,R4,R5>
0D05 1099      $FAO S  W^CS5,W^MESSAGEL,W^MSGL,MODE ; format the error message
0D1E 1100      $PUTMSG_S W^MSGVEC ; print the mode message
04 0D2F 1101      RET
0D30 1102      .SBTTL  CRE_CHECK
0D30 1103      :++
0D30 1104      : FUNCTIONAL DESCRIPTION:
0D30 1105      : Routine to check the process exit status of a created process.
0D30 1106      :
0D30 1107      : CALLING SEQUENCE:
0D30 1108      : CALLS  #0,W^CRE_CHECK ; save R2-R11
0D30 1109      :
0D30 1110      : INPUT PARAMETERS:
0D30 1111      : R6 = Expected process exit status
0D30 1112      : R7 = PID check flag BIT0 = 1 means check the PID
0D30 1113      :
0D30 1114      : OUTPUT PARAMETERS:
0D30 1115      : NONE
0D30 1116      :
0D30 1117      :--
0D30 1118      :
0D30 1119      CRE_CHECK:
OFFC 0D30 1120      .WORD  ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
0D32 1121      $QIOW_S EFN = #1,-
0D32 1122      FUNC = #IOS_READVBLK,-
0D32 1123      CHAN = W^MBCHAN,-
0D32 1124      IOSB = W^IOSTATUS,-
0D32 1125      P1 = W^MBUF,-
0D32 1126      P2 = #100
56 024F'CF D1 0D59 1127      CMPL  W^MBUF+ACCSL_FINALSTS,R6 ; read the mail
0F 13 0D5E 1128      BEQL  10$ ; is the status as expected?
024F'CF DD 0D60 1129      PUSHL W^MBUF+ACCSL_FINALSTS ; br if OK
56 DD 0D64 1130      PUSHL R6 ; push received
00D8'CF DF 0D66 1131      PUSHAL W^EXP ; push expected
FEDO CF 03 FB 0D6A 1132      CALLS #3,W^PRINT_FAIL ; push string variable
0D6F 1133      10$: ; print the failure
0247'CF 1A 57 E9 0D6F 1134      BLBC  R7,20$ ; should we check the PID?
023B'CF D1 0D72 1135      CMPL  W^PID1,W^IOSTATUS+4 ; check the PID
11 13 0D79 1136      BEQL  20$ ; br if its good

```



```
OE17 1180 MOD_MSG_PRINT:
OE17 1181 :
OE17 1182 :*****
OE17 1183 :*
OE17 1184 :* PRINTS THE TEST MODULE BEGUN/SUCCESSFUL/FAILED MESSAGES *
OE17 1185 :* (USING THE PUTMSG MACRO). *
OE17 1186 :*
OE17 1187 :*****
OE17 1188 :
05 OE17 1189 PUTMSG <MOD_MSG_CODE,#2,TMN_ADDR,TMD_ADDR> ; PRINT MSG
OE32 1190 RSB ; ... AND RETURN TO CALLER
OE33 1191 :
OE33 1192 CHMRTN:
OE33 1193 :*****
OE33 1194 :*
OE33 1195 :* CHANGE MODE ROUTINE. THIS ROUTINE GETS CONTROL WHENEVER *
OE33 1196 :* A CMKRNL, CMEXEC, OR CMSUP SYSTEM SERVICE IS ISSUED *
OE33 1197 :* BY THE MODE MACRO ('TO' OPTION). IT MERELY DOES *
OE33 1198 :* A JUMP INDIRECT ON A FIELD SET UP BY MODE. IT HAS *
OE33 1199 :* THE EFFECT OF RETURNING TO THE END OF THE MODE *
OE33 1200 :* MACRO EXPANSION. *
OE33 1201 :*
OE33 1202 :*****
00000059'FF 0000 OE33 1204 .WORD 0 ; ENTRY MASK
17 OE35 1205 JMP @CHM_CONT ; RETURN TO MODE MACRO IN NEW MODE
OE3B 1206 :
OE3B 1207 :* RET INSTR WILL BE ISSUED IN EXPANSION OF 'MODE FROM, ....' MACRO
OE3B 1208 :
OE3B 1209 .END SATSSS35
```

SSARGS	=	00000007		
SST1	=	00000004		
SST2	=	00000004		
ACCSL_FINALSTS	=	00000004		
ACCOUNT		00000000	R	02
ACCOUNTL		00000008	R	02
APTCNT		00000050	R	02
APTCNTL		00000054	R	02
ARGLST1		0000008D	R	05
ASTACT		00000056	R	02
ASTACTL		0000005A	R	02
ASTCNT		00000062	R	02
ASTCNTL		00000066	R	02
ASTEN		0000005C	R	02
ASTENL		00000060	R	02
ASTLM		00000068	R	02
ASTLML		0000006C	R	02
AST_PARAM		000000E6	R	03
AUTHPRIV		0000006E	R	02
AUTHPRIVL		00000076	R	02
BIOCNT		00000078	R	02
BIOCNTL		0000007C	R	02
BIOLM		0000007E	R	02
BIOLML		00000082	R	02
BP		000000F8	R	03
BUF		00000133	R	04
BUFIO		00000084	R	02
BUFIOI		00000088	R	02
BYTCNT		0000008A	R	02
BYTCNTL		0000008E	R	02
BYTLM		00000090	R	02
BYTLM		00000094	R	02
CHMRTN		00000E33	R	05
CHM_CONT		00000059	R	04
CPULIM		0000000A	R	02
CPULIML		0000000E	R	02
CPUTIM		00000096	R	02
CPUTIML		0000009A	R	02
CRE		0000008B	R	04
CREPRC		0000016E	R	03
CREPRCS_BASPRI	=	00000024		
CREPRCS_ERROR	=	00000014		
CREPRCS_IMAGE	=	00000008		
CREPRCS_INPUT	=	0000000C		
CREPRCS_ITMLST	=	00000034		
CREPRCS_MBXUNT	=	0000002C		
CREPRCS_NARGS	=	0000000D		
CREPRCS_OUTPUT	=	00000010		
CREPRCS_PIDADR	=	00000004		
CREPRCS_PRCNAM	=	00000020		
CREPRCS_PRIVADR	=	00000018		
CREPRCS_QUOTA	=	0000001C		
CREPRCS_STSFLG	=	00000030		
CREPRCS_UIC	=	00000028		
CRE_CHECK		00000D30	R	05
CS1		00000031	R	03
CS2		00000063	R	03

CS3		00000090	R	03
CS5		000000C3	R	03
CTL\$GL_PHD		*****	X	05
CTRSTR		00000D99	R	05
CURPRIV		00000010	R	02
CURPRIVL		00000018	R	02
CURRENT_TC		00000004	R	04
DFPFC		0000009C	R	02
DFPFCL		000000A0	R	02
DFWSCNT		000000A2	R	02
DFWSCNTL		000000A6	R	02
DIB\$W_UNIT	=	0000000C		
DIOCNT		000000A8	R	02
DIOCNTL		000000AC	R	02
DIOLM		000000AE	R	02
DIOLML		000000B2	R	02
DIRIO		000000B4	R	02
DIRIOL		000000B8	R	02
DIRTY		00000266	R	03
EFCS		000000BA	R	02
EFCSL		000000BE	R	02
EFCU		000000C0	R	02
EFCUL		000000C4	R	02
EFC_NAME		0000014F	R	03
EFWM		000000C6	R	02
EFWML		0C0000CA	R	02
ERR		00000529	R	03
ERROR	=	00000002		
EXCVEC		000000CC	R	02
EXCVECL		000000D0	R	02
EXP		000000D8	R	03
FILCNT		000000D8	R	02
FILCNTL		000000DC	R	02
FILLM		000000DE	R	02
FILLML		000000E2	R	02
FINALEXC		000000D2	R	02
FINALEXCL		000000D6	R	02
FREPOVA		000000E4	R	02
FREPOVAL		000000E8	R	02
FREP1VA		000000EA	R	02
FREP1VAL		000000EE	R	02
GET		000000C3	R	04
GET1		000000E3	R	04
GETBUF		0000018B	R	04
GETJPI		00000175	R	03
GETJPIS_ASTADR	=	00000018		
GETJPIS_ASTPRM	=	0000001C		
GETJPIS_EFN	=	00000004		
GETJPIS_IOSB	=	00000014		
GETJPIS_ITMLST	=	00000010		
GETJPIS_NARGS	=	00000007		
GETJPIS_PIDADR	=	00000008		
GETJPIS_PRCNAM	=	0000000C		
GET_LIST		000001EE	R	03
GPGCNT		000000F0	R	02
GPGCNTL		000000F4	R	02
GRP		0000001A	R	02

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Symbol table

GRPL	0000001E	R	02	JPIS_STATE	=	00000306		
IMAGE_NAME	0000053A	R	03	JPIS_STS	=	00000305		
IMAGNAME	000000F6	R	02	JPIS_TMBU	=	0000030B		
IMAGNAMEL	00000176	R	02	JPIS_TQCNT	=	00000315		
IMAGPRIV	00000020	R	02	JPIS_TQLM	=	00000410		
IMAGPRIVL	00000028	R	02	JPIS_UIC	=	00000304		
IN	00000506	R	03	JPIS_USERNAME	=	00000202		
IOS_READVBLK	*****	X	05	JPIS_VIRTPEAK	=	00000200		
IOSTAT	00000233	R	04	JPIS_VOLUMES	=	00000205		
IOSTATUS	00000243	R	04	JPIS_WSAUTH	=	00000401		
ITEM_LIST	00000103	R	04	JPIS_WSPEAK	=	00000201		
JPIS_ACCOUNT	= 00000203			JPIS_WSQUOTA	=	00000402		
JPIS_APTCNT	= 0000030A			JPIS_WSSIZE	=	00000411		
JPIS_ASTACT	= 00000300			JPI_CHECK	00000DDA	R	05	
JPIS_ASTCNT	= 0000030E			JPI_GOOD	000004B6	R	03	
JPIS_ASTEN	= 00000301			JPI_GOOD_SHRT	000004C0	R	03	
JPIS_ASTLM	= 00000409			JPI_LIST_SIZE	= 00000044			
JPIS_AUTHPRIV	= 00000412			JPI_LIST_SIZE1	= 0000003A			
JPIS_BIOCNT	= 0000030F			JPI_PRV_MASK	= 1070BFEE			
JPIS_BIOLM	= 00000310			JPI_PRV_NMASK	= EF8F4010			
JPIS_BUFIO	= 0000040C			JPI_STS_MASK	= 0038C600			
JPIS_BYTCNT	= 00000311			JPI_STS_NMASK	= FFC739FF			
JPIS_BYTLM	= 0000031A			LIB\$SIGNAL	*****	X	05	
JPIS_CPULIM	= 0000040D			LOGINTIM	00000178	R	02	
JPIS_CPUTIM	= 00000407			LOGINTIML	0000017C	R	02	
JPIS_CURPRIV	= 00000400			MBCHAN	0000023F	R	04	
JPIS_DFPFC	= 00000406			MBNAM	00000188	R	03	
JPIS_DFWSCNT	= 00000403			MBUF	0000024B	R	04	
JPIS_DIOCNT	= 00000312			MBXUN	00000241	R	04	
JPIS_DIOLM	= 00000313			MEM	0000002A	R	02	
JPIS_DIRIO	= 0000040B			MEML	0000002E	R	02	
JPIS_EFCS	= 00000317			MESSAGEL	00000217	R	04	
JPIS_EFCU	= 00000318			ML	00000183	R	04	
JPIS_EFWM	= 00000316			MODE	00000069	R	04	
JPIS_EXCVEC	= 00000100			MODE_ID	00000D03	R	05	
JPIS_FILCNT	= 00000314			MOD_MSG_CODE	00000044	R	04	
JPIS_FILLM	= 0000040F			MOD_MSG_PRINT	00000E17	R	05	
JPIS_FINALXC	= 00000101			MSGC	00000083	R	04	
JPIS_FREPOVA	= 00000404			MSGVEC	000001A6	R	03	
JPIS_FREPIVA	= 00000405			MSGVEC1	00000223	R	04	
JPIS_GPGCNT	= 0000030C			NPRVMASK	0000019E	R	03	
JPIS_GRP	= 00000308			OUT	00000517	R	03	
JPIS_IMAGNAME	= 00000207			OWNER	0000017E	R	02	
JPIS_IMAGPRIV	= 00000413			OWNERL	00000182	R	02	
JPIS_LOGINTIM	= 00000206			PAGEFLTS	00000184	R	02	
JPIS_MEM	= 00000307			PAGEFLTSL	00000188	R	02	
JPIS_OWNER	= 00000303			PCBSV_BATCH	= 0000000E			
JPIS_PAGEFLTS	= 0000040A			PCBSV_HIBER	= 00000013			
JPIS_PGFLQUOTA	= 0000040E			PCBSV_LOGIN	= 00000014			
JPIS_PID	= 00000319			PCBSV_NETWORK	= 00000015			
JPIS_PPGCNT	= 0000030D			PCBSV_NOACNT	= 0000000F			
JPIS_PRCNT	= 0000031B			PCBSV_SSFEXCU	= 00000009			
JPIS_PRCLM	= 00000408			PCBSV_SSRWAIT	= 0000000A			
JPIS_PRCNAM	= 0000031C			PGFLQUOTA	0000018A	R	02	
JPIS_PRI	= 00000302			PGFLQUOTAL	0000018E	R	02	
JPIS_PRIB	= 00000309			PHD\$Q_PRIVMSK	= 00000000			
JPIS_PROCPRIV	= 00000204			PID	00000190	R	02	

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Symbol table

PID1	0000023B	R	04	QUOTA_LIST	000001B6	R	03
PIDL	00000194	R	02	REG	0000006D	R	04
PID_STR	00000163	R	03	REGNUM	0000007F	R	04
PNS	00000109	R	03	REG_CHECK	00000BFD	R	05
PPGCNT	00000196	R	02	REG_SAVE	00000BF3	R	05
PPGCNTL	0000019A	R	02	REG_SAVE_AREA	00000008	R	04
PQLS_ASTLM	= 00000001			RETADR	0000005D	R	04
PQLS_BIOLM	= 00000002			RMS\$ FNF	*****	X	05
PQLS_BYTLM	= 00000003			SATSSS35	00000000	RG	05
PQLS_CPULM	= 00000004			SERV_NAME	0000021F	R	04
PQLS_DIOLM	= 00000005			SHORT_LIST	000001FA	R	03
PQLS_FILLM	= 00000006			SHRS_ABENDD	= 000010E0		
PQLS_LISTEND	= 00000000			SHRS_BEGIND	= 00001038		
PQLS_PGFLQUOTA	= 00000007			SHRS_ENEDDD	= 00001080		
PQLS_PRCLM	= 00000008			SHRS_TEXT	= 00001130		
PQLS_TQELM	= 00000009			SS\$ NORMAL	*****	X	05
PQLS_WSDEFAULT	= 0000000B			STATE	000001C9	R	02
PQLS_WSQUOTA	= 0000000A			STATEL	000001CD	R	02
PRCCNT	0000019C	R	02	STATUS	00000065	R	04
PRCCNTL	000001A0	R	02	STEP	= 00000016		
PRCLM	00000030	R	02	STP0	0000003D	R	05
PRCLML	00000034	R	02	STP1	000000BE	R	05
PRCNAM	000001A2	R	02	STP10	0000049C	R	05
PRCNAML	000001B1	R	02	STP11	00000543	R	05
PRI	000001BD	R	02	STP12	000006CC	R	05
PRIB	000001C3	R	02	STP13	0000075E	R	05
PRIBL	000001C7	R	02	STP14	000007FF	R	05
PRIL	000001C1	R	02	STP15	00000824	R	05
PRINT_FAIL	00000C3F	R	05	STP16	000008CF	R	05
PRIVMASK	00000051	R	04	STP17	00000962	R	05
PRIVS	000002B3	R	04	STP18	0000099E	R	05
PRIV_ARGS	= 00000002			STP19	00000A0A	R	05
PROCPRIV	000001B3	R	02	STP2	000000F3	R	05
PROCPRIVL	000001BB	R	02	STP20	00000A4A	R	05
PROC_NAME	0000054E	R	03	STP21	00000AC1	R	05
PROC_UIC	00000565	R	03	STP22	00000B48	R	05
PRVSV_CMEXEC	= 00000001			STP3	00000146	R	05
PRVSV_CMKRNL	= 00000000			STP4	0000018D	R	05
PRVSV_DETACH	= 00000005			STP5	000001E4	R	05
PRVSV_DIAGNOSE	= 00000006			STP6	00000224	R	05
PRVSV_GROUP	= 00000008			STP7	0000027F	R	05
PRVSV_GRPNAM	= 00000003			STP8	00000309	R	05
PRVSV_LOG IO	= 00000007			STP9	000003AA	R	05
PRVSV_NETMBX	= 00000014			STS	000001CF	R	02
PRVSV_NOACNT	= 00000009			STSSV_FAC NO	= 00000010		
PRVSV_PHY IO	= 00000016			STSSV-INHTB_MSG	= 0000001C		
PRVSV_PRCMB	= 0000000A			STSFLGS	00000134	R	03
PRVSV_PRCMBX	= 0000000B			STSL	000001D3	R	02
PRVSV_PSWAPM	= 0000000C			SUCCESS	= 00000001		
PRVSV_SETPRI	= 0000000D			SYSSASCEFC	*****	GX	05
PRVSV_SETPRV	= 0000000E			SYSSCMKRNL	*****	GX	05
PRVSV_SYSNAM	= 00000002			SYSSCREMBX	*****	GX	05
PRVSV_SYSPRV	= 0000001C			SYSSCREPRC	*****	GX	05
PRVSV_TMPMBX	= 0000000F			SYSSDACEFC	*****	GX	05
PRVSV_VOLPRO	= 00000015			SYSSDELPRC	*****	GX	05
PRVMASK	00000196	R	03	SYSS\$EXIT	*****	GX	05
PRVPRT	00000050	R	04	SYSS\$FAO	*****	X	05

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Symbol table

SYSS\$FAOL	*****	GX	05
SYSS\$GETCHN	*****	GX	05
SYSS\$GETJPI	*****	GX	05
SYSS\$HIBER	*****	GX	05
SYSS\$PUTMSG	*****	GX	05
SYSS\$QIOW	*****	GX	05
SYSS\$SETAST	*****	GX	05
SYSS\$SETPRN	*****	GX	05
SYSS\$SETPRV	*****	GX	05
SYSS\$WAITFR	*****	GX	05
SYSS\$WAKE	*****	GX	05
TEST_MOD_BEGIN	00000019	R	03
TEST_MOD_FAIL	0000002A	R	03
TEST_MOD_NAME	00000000	R	03
TEST_MOD_NAME_D	00000009	R	03
TEST_MOD_SUCC	0000001F	R	03
TEST_PID	000002AF	R	04
TMBU	000001D5	R	02
TMBUL	000001D9	R	02
TMD_ADDR	0000004C	R	04
TMN_ADDR	00000048	R	04
TPID	00000000	R	04
TQCNT	000001DB	R	02
TQCNTL	000001DF	R	02
TQLM	00000036	R	02
TQLML	0000003A	R	02
UETP	= 00740000		
UETPS_ABENDD	= 007410E0		
UETPS_BEGINDD	= 00741038		
UETPS_ENDEDD	= 00741080		
UETPS_SATSMS	= 007480D9		
UETPS_TEXT	= 00741130		
UIC	0000003C	R	02
UICL	00000040	R	02
UIC_MSG	00000144	R	03
UM	0000017C	R	03
USERNAME	00000042	R	02
USERNAMEL	0000004E	R	02
VIRTPEAK	000001E7	R	02
VIRTPEAKL	000001EB	R	02
VOLUMES	000001E1	R	02
VOLUMESL	000001E5	R	02
WSAUTH	000001ED	R	02
WSAUTHL	000001F1	R	02
WSPEAK	000001F9	R	02
WSPEAKL	000001FD	R	02
WSQUOTA	000001F3	R	02
WSQUOTAL	000001F7	R	02
WSSIZE	000001FF	R	02
WSSIZEL	00000203	R	02

+-----+
! 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
ITEM LIST	00000205 (517.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
RODATA	00000569 (1385.)	03 (3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	000002BB (699.)	04 (4.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
SATSSS35	00000E3B (3643.)	05 (5.)	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	00:00:00.31
Command processing	134	00:00:00.63	00:00:02.15
Pass 1	472	00:00:19.08	00:00:32.37
Symbol table sort	0	00:00:01.51	00:00:01.52
Pass 2	257	00:00:04.93	00:00:08.65
Symbol table output	46	00:00:00.38	00:00:00.54
Psect synopsis output	3	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	949	00:00:26.66	00:00:45.59

The working set limit was 2000 pages.
116238 bytes (228 pages) of virtual memory were used to buffer the intermediate code.
There were 60 pages of symbol table space allocated to hold 1010 non-local and 25 local symbols.
1209 source lines were read in Pass 1, producing 42 object records in Pass 2.
63 pages of virtual memory were used to define 57 macros.

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

Macro library name	Macros defined
_\$255\$DUA28:[SHRLIB]UETP.MLB;1	10
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	2
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	41
TOTALS (all libraries)	53

1207 GETS were required to define 53 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS35/OBJ=OBJ\$:SATSSS35 MSRC\$:SATSSS35/UPDATE=(ENH\$:SATSSS35)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

0422 AH-BT13A-SE
VAX/VMS V4.0

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