

[illegible]

[illegible]

(1)	56	DECLARATIONS
(1)	107	CONDITION TABLES
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(1)	237	CONDITION SUBROUTINES - SETUP AND CLEANUP
(1)	330	FORM CONDS
(1)	423	VERIFY
(1)	541	VFY_CLEANUP

```
0000 1      .TITLE SATSSS37,SATS SYSTEM SERVICE TESTS $SUSPND (SUCC S.C.)
0000 2      .IDENT 'V04-000'
0000 3
0000 4
0000 5 :*****
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0000 24 :*
0000 25 :*
0000 26 :*****
0000 27 :
0000 28
0000 29 :++
0000 30 : FACILITY:      SYSTST (SATS SYSTEM SERVICE TESTS)
0000 31
0000 32 : ABSTRACT:
0000 33
0000 34 :      THIS MODULE CONTAINS SUBROUTINES WHICH, WHEN LINKED
0000 35 :      WITH SUCCOMMON.OBJ, FORM TEST MODULE SATSSS37 TO TEST SUCCESSFUL
0000 36 :      OPERATION OF THE $SUSPND SYSTEM SERVICE. THE SERVICE IS INVOKED
0000 37 :      UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY
0000 38 :      SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT
0000 39 :      OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY
0000 40 :      CHECKING FOR AN SSS NORMAL STATUS CODE, EXPECTED RETURN ARGUMENTS
0000 41 :      AND EXPECTED FUNCTIONALITY PERFORMED.
0000 42
0000 43 : ENVIRONMENT:  USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE,
0000 44 :                DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.
0000 45
0000 46 : AUTHOR: THOMAS L. CAFARELLA,          CREATION DATE: JUL, 1977
0000 47
0000 48 : MODIFIED BY:
0000 49
0000 50 :                VERSION 1.50 : 25-MAY-79
0000 51
0000 52 : 01 LDJ 10/11/79      Fixed bug caused by DIB$K_LENGTH change ACG052.RNO mem
0000 53
0000 54 :--
```


SATSSS37
V04-000

SATS SYSTEM SERVICE TESTS \$SUSPND (SUCC 16-SEP-1984 00:51:44 VAX/VMS Macro V04-00
DECLARATIONS 5-SEP-1984 04:30:50 [UETPSY.SRC]SATSSS37.MAR;1

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(1)

```
0000 56 .SBTTL DECLARATIONS
0000 57 :
0000 58 : INCLUDE FILES:
0000 59 :
0000 60 $PRVDEF ; PRIVILEGE BIT DEFINITIONS
0000 61 $PHDDEF ; PROCESS HEADER OFFSETS
0000 62 $PQLDEF ; PROCESS QUOTA CODES
0000 63 $PCBDEF ; PCB LABELS
0000 64 $DIBDEF ; DEVICE INFO BLOCK OFFSETS
0000 65 :
0000 66 : MACROS:
0000 67 :
0000 68 :
0000 69 : EQUATED SYMBOLS:
0000 70 :
0000 71 :
0000 72 : OWN STORAGE:
0000 73 :
```

```

00000000 75 .PSECT RODATA,RD,NOWRT,NOEXE,LONG
0000 76 TEST_MOD_NAME:: STRING C,<SATSSS37> ; TEST MODULE NAME
0009 77 TEST_MOD_NAME_D: STRING I,<SATSSS37> ; TEST MODULE NAME DESCRIPTOR
0019 78 MSG1_INP_CTL: STRING I,< SSSUS!4ZW: CONDITIONS:>
0039 79 ; FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
0039 80 MSG3_ERR_CTL:: STRING I,< *SSSUS!4ZW: !AS>
0051 81 ; FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR
0051 82 SUBJPRN: STRING I,<SATSSS37 CRE> ; PROCESS & MBX NAME FOR CREATED PROCESS
0065 83 IMAGNAM: STRING I,<SYSTST$RES:SATSUT08.EXE> ; IMAGE NAME FOR CREATED PROC
0084 84 QUOTALIST: $QUOTA CPULM,0 ; INFINITE CPU
0089 85 $QUOTA BYTLM,512 ; BYTE LIMIT FOR BUFFERED I/O
008E 86 $QUOTA FILLM,2 ; OPEN FILE COUNT LIMIT
0093 87 $QUOTA PGFLQUOTA,10 ; PAGING FILE QUOTA
0098 88 $QUOTA PRCLM,2 ; SUBPROCESS QUOTA
009D 89 $QUOTA TQELM,3 ; TIMER QUEUE ENTRY QUOTA
00A2 90 $QUOTA LISTEND ; DEFINES END OF LIST

```


00000000	92	.PSECT	RWDATA,RD,WRT,NOEXE, LONG	
00000008	93	PRIVMASK:	.BLKQ 1	: ADDR OF PRIVILEGE MASK (IN PHD)
0000000C	94	MBXCHAN:	.BLKL 1	: CHAN. NO. FOR MAILBOX FOR CREATED PROCESS
	95	MBXCHANINFO:		: CHANNEL INFO RETURNED BY GETCHN
00000074	96		.LONG DIB\$K_LENGTH	
00000014	97		.ADDRESS +4	
00000088	98		.BLKB DIB\$K_LENGTH	
0000008C	99	MBXUNIT:	.BLKL 1	: SAVE AREA FOR MAILBOX UNIT NUMBER
	100	MBXBUFF:	STRING 0,120	: MAILBOX BUFFER FOR CREATED PROCESS
00000110	101	DEST_PIDADR:	.BLKL 1	: DESTINATION PID ADDR, WRITTEN BY S.S.
00000114	102	ZEROPIID:	.BLKL 1	: PID OF ZEROES
00000000	103	SELFPIID:	.LONG 0	: PID OF THIS PROCESS
0000011C	104	CREPIID:	.BLKL 1	: PID OF CREATED PROCESS
00000120	105	SUBJPID:	.BLKL 1	: PID OF SUBJECT PROCESS (SELF OR OTHER)

```
.SBTTL CONDITION TABLES
***** CONDITION TABLES FOR SUSPND SYSTEM SERVICE *****
COND 1,NOTARG,<PID ADDRESS>,-
      <NOT SPECIFIED>,-
      <SPECIFIED, NON-ZERO>,-
      <SPECIFIED, ZERO>,-
      .ADDRESS 0
      .ADDRESS SUBJPID
      .ADDRESS ZEROID
COND 2,NOTARG,<PROCESS NAME ADDRESS>,-
      <SPECIFIED>,-
      <NOT SPECIFIED>,-
      .ADDRESS SUBJPRN
      .ADDRESS 0
COND 3,NOTARG,<PROCESS TYPE>,-
      <SELF>,-
      <SUBPROCESS>,-
      <DETACHED, DIFFERENT GROUP>,-
      <DETACHED, SAME GROUP, SAME MEMBER>,-
      <DETACHED, SAME GROUP, DIFFERENT MEMBER>,-
      .LONG ^XFFFFFFFF ; PSEUDO-UIC
      .LONG 0 ; PSEUDO-UIC
      .BLKL 1 ; UIC
      .BLKL 1 ; UIC
      .BLKL 1 ; UIC
COND 4,NULL
COND 5,NULL
.PSECT SATSSS37,RD,WRT,EXE
```

	0120	107
	0120	108 ;
	0120	109 ;
	0120	110 ;
	0120	111
	0120	112
	0120	113
	0120	114
	0120	115
00000000'	016B	116
0000011C'	016F	117
00000110'	0173	118
	0177	119 ;
	0177	120
	0177	121
	0177	122
	0177	123
00000051'	01AD	124
00000000'	01B1	125
	01B5	126 ;
	01B5	127
	01B5	128
	01B5	129
	01B5	130
	01B5	131
	01B5	132
	01B5	133
FFFFFFFF	024A	134
00000000	024E	135
00000256	0252	136
0000025A	0256	137
0000025E	025A	138
	025E	139 ;
	025E	140
	025F	141
	025F	142
	0260	143
00000000		144


```
0000 146 .SBTTL TM_SETUP, TM_CLEANUP
0000 147 :++
0000 148 : FUNCTIONAL DESCRIPTION:
0000 149 :
0000 150 : TM_SETUP AND TM_CLEANUP ARE CALLED TO PERFORM
0000 151 : REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF
0000 152 : TEST MODULE EXECUTION.
0000 153 :
0000 154 : CALLING SEQUENCE:
0000 155 :
0000 156 : BSBW TM_SETUP BSBW TM_CLEANUP
0000 157 :
0000 158 : INPUT PARAMETERS:
0000 159 :
0000 160 : NONE
0000 161 :
0000 162 : IMPLICIT INPUTS:
0000 163 :
0000 164 : NONE
0000 165 :
0000 166 : OUTPUT PARAMETERS:
0000 167 :
0000 168 : NONE
0000 169 :
0000 170 : IMPLICIT OUTPUTS:
0000 171 :
0000 172 : TM_SETUP: COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED;
0000 173 : ALL PRIVILEGES ACQUIRED.
0000 174 :
0000 175 : COMPLETION CODES:
0000 176 :
0000 177 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0000 178 :
0000 179 : SIDE EFFECTS:
0000 180 :
0000 181 : SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
0000 182 : (VIA RSB) IF ERROR ENCOUNTERED.
0000 183 :
0000 184 :--
0000 185 :
0000 186 :
0000 187 :
0000 188 TM_SETUP::
0000 189 CLRL R2 ; INITIALIZE
0000 190 CLRL R3 ; .. CONDITION
0000 191 CLRL R4 ; .... TABLE
0000 192 CLRL R5 ; ..... INDEX
0000 193 CLRL R6 ; ..... REGISTERS
0000 194 BSBW MOD MSG PRINT ; PRINT TEST MODULE BEGIN MSG
0000 195 MOVAL TEST_MOD_SUCC,TMD_ADDR ; ASSUME END MSG WILL SHOW SUCCESS
0000 196 INSV #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
0000 197
0000 198 MODE TO,5$,KRNL ; KERNEL MODE TO ACCESS PHD
0000 199 MOVL @#CTL$GL_PHD,R9 ; GET PROCESS HEADER ADDRESS
0000 200 MOVAL PHD$Q_PRIVMSK(R9),PRIVMASK ; GET PRIV MASK ADDRESS
0000 201 MODE FROM,5$ ; BACK TO USER MODE
0000 202 PRIV ADD,ALL ; GET ALL PRIVILEGES
```

```
52 D4 0000
53 D4 0002
54 D4 0004
55 D4 0006
56 D4 0008
57 D4 000A
58 D4 000D
59 D4 0018
00000000'EF 00000000'EF DE 000D
03 00 00000000'8F FO 0018
00000000'EF 00000000'EF 0020
59 00000000'9F D0 0048
00000000'EF 69 DE 004F
0056 200
0057 201
```



```
0077 202 $SETPRN S TEST MOD_NAME_D ; SET PROCESS NAME
0084 203 SS_CHECK NORMAL ; CHECK STATUS CODE RETURNED FROM SETPRN
00B2 204 $WAKE S SELFPIID ; GET MY PID
00C1 205 SS_CHECK NORMAL ; CHECK FOR NORMAL RETURN
00EF 206 $HIBER S ; UNDO ABOVE WAKE
00F6 207 SS_CHECK NORMAL ; CHECK FOR NORMAL RETURN
0124 208
0124 209 : THE FOLLOWING CODE ESTABLISHES UIC'S IN THE CONDITION 3 TABLE
0124 210 :
0124 211 :
59 00000000'9F D0 0147 212 MODE TO,20$,KRNL ; KERNEL MODE TO ACCESS PCB
59 00BC C9 D0 014E 213 MOVL @#$CH$GL_CURPCB,R9 ; GET CURRENT PCB ADDRESS
0153 214 MOVL PCB$UIC(R9),R9 ; PICK UP UIC FROM PCB
0154 215 MODE FROM,20$ ; ... AND GET BACK TO USER MODE
0154 216 :
0154 217 : R9 NOW CONTAINS 'MY' UIC
59 5A 02 9A 0154 218 MOVZBL #2,R10 ; GET COND3 TABLE INDEX NUMBER INTO A REG
59 00010000 8F C1 0157 219 ADDL3 #^X10000,R9,COND3_E[R10] ; PUT DIFF GROUP UIC INTO 3RD TABLE ELT
0000024A'EF4A 5A D6 0164 220 INCL R10 ; POINT TO 4TH COND3 TABLE ELEMENT
0000024A'EF4A 59 D0 0166 221 MOVL R9,COND3_E[R10] ; PUT MY UIC INTO TABLE
0000024A'EF4A 5A D6 016E 222 INCL R10 ; POINT TO 5TH COND3 TABLE ELEMENT
0000024A'EF4A 59 01 C1 0170 223 ADDL3 #1,R9,COND3_E[R10] ; PUT DIFF MEMBER UIC INTO THE TABLE
0179 224 $CREMBX_S CHAN=MBXCHAN, LOGNAM=SUBJPRN, - ; GET MAILBOX FOR PROCESS
0179 225 MAXMSG=#120, PROMSK=#0, BUFQUO=#240
019E 226 SS_CHECK NORMAL ; CHECK NORMAL COMPLETION
01CC 227 $GETCHN_S CHAN=MBXCHAN, - ; GET CHAN INFO (UNIT NUMBER)
01CC 228 PRIBUF=MBXCHANINFO
01E6 229 SS_CHECK NORMAL ; CHECK NORMAL COMPLETION
00000088'EF 00000020'EF 3C 0214 230 MOVZWL MBXCHANINFO+8+DIB$W_UNIT,MBXUNIT ; SAVE MAILBOX UNIT NUMBER
05 021F 231 RSB ; RETURN TO MAIN ROUTINE
0220 232 TM_CLEANUP::
0220 233 $DELMBX_S MBXCHAN ; DELETE TERMINATION MAILBOX
FDCF' 30 022E 234 BSBW -MOD_MSG_PRINT ; PRINT TEST MODULE END MSG
05 0231 235 RSB ; RETURN TO MAIN ROUTINE
```



```
0232 237 .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
0232 238 :++
0232 239 : FUNCTIONAL DESCRIPTION:
0232 240 :
0232 241 : COND1 AND COND1 CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED
0232 242 : BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW
0232 243 : CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON
0232 244 : ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE
0232 245 : CONDITION X TABLE IS INCLUDED IN THE COND1 SUBROUTINE AND CLEANED
0232 246 : UP, IF NECESSARY, IN THE COND1 CLEANUP SUBROUTINE. THIS INCLUDES,
0232 247 : ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO
0232 248 : OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO
0232 249 : VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE
0232 250 : (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
0232 251 :
0232 252 : CALLING SEQUENCE:
0232 253 :
0232 254 : BSBW COND1 BSBW COND1_CLEANUP
0232 255 : WHERE X = 1,2,3,4,5
0232 256 :
0232 257 : INPUT PARAMETERS:
0232 258 :
0232 259 : CONFLICT = 0
0232 260 :
0232 261 : IMPLICIT INPUTS:
0232 262 :
0232 263 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0232 264 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0232 265 :
0232 266 : OUTPUT PARAMETERS:
0232 267 :
0232 268 : CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.
0232 269 :
0232 270 : IMPLICIT OUTPUTS:
0232 271 :
0232 272 : R2,3,4,5,6 PRESERVED
0232 273 :
0232 274 : COMPLETION CODES:
0232 275 :
0232 276 : NONE
0232 277 :
0232 278 : SIDE EFFECTS:
0232 279 :
0232 280 : NONE
0232 281 :
0232 282 : --
0232 283 :
0232 284 :
0232 285 :
05 0232 286 COND1:: RSB ; RETURN TO MAIN ROUTINE
0232 287
05 0232 288 COND1_CLEANUP:: RSB ; RETURN TO MAIN ROUTINE
0232 289
05 0232 290 COND2:: RSB ; RETURN TO MAIN ROUTINE
0232 291
05 0232 292 COND2_CLEANUP:: RSB ; RETURN TO MAIN ROUTINE
0232 293
```


Address	Hex	Op	Op2	Op3	Op4	Op5	Op6	Op7	Op8	Op9	Op10	Op11	Op12	Op13	Op14	Op15	Op16	Op17	Op18	Op19	Op20	Op21	Op22	Op23	Op24	Op25	Op26	Op27	Op28	Op29	Op30	Op31	Op32	Op33	Op34	Op35	Op36	Op37	Op38	Op39	Op40	Op41	Op42	Op43	Op44	Op45	Op46	Op47	Op48	Op49	Op50	Op51	Op52	Op53	Op54	Op55	Op56	Op57	Op58	Op59	Op60	Op61	Op62	Op63	Op64	Op65	Op66	Op67	Op68	Op69	Op70	Op71	Op72	Op73	Op74	Op75	Op76	Op77	Op78	Op79	Op80	Op81	Op82	Op83	Op84	Op85	Op86	Op87	Op88	Op89	Op90	Op91	Op92	Op93	Op94	Op95	Op96	Op97	Op98	Op99	Op100	Op101	Op102	Op103	Op104	Op105	Op106	Op107	Op108	Op109	Op110	Op111	Op112	Op113	Op114	Op115	Op116	Op117	Op118	Op119	Op120	Op121	Op122	Op123	Op124	Op125	Op126	Op127	Op128	Op129	Op130	Op131	Op132	Op133	Op134	Op135	Op136	Op137	Op138	Op139	Op140	Op141	Op142	Op143	Op144	Op145	Op146	Op147	Op148	Op149	Op150	Op151	Op152	Op153	Op154	Op155	Op156	Op157	Op158	Op159	Op160	Op161	Op162	Op163	Op164	Op165	Op166	Op167	Op168	Op169	Op170	Op171	Op172	Op173	Op174	Op175	Op176	Op177	Op178	Op179	Op180	Op181	Op182	Op183	Op184	Op185	Op186	Op187	Op188	Op189	Op190	Op191	Op192	Op193	Op194	Op195	Op196	Op197	Op198	Op199	Op200	Op201	Op202	Op203	Op204	Op205	Op206	Op207	Op208	Op209	Op210	Op211	Op212	Op213	Op214	Op215	Op216	Op217	Op218	Op219	Op220	Op221	Op222	Op223	Op224	Op225	Op226	Op227	Op228	Op229	Op230	Op231	Op232	Op233	Op234	Op235	Op236	Op237	Op238	Op239	Op240	Op241	Op242	Op243	Op244	Op245	Op246	Op247	Op248	Op249	Op250	Op251	Op252	Op253	Op254	Op255	Op256	Op257	Op258	Op259	Op260	Op261	Op262	Op263	Op264	Op265	Op266	Op267	Op268	Op269	Op270	Op271	Op272	Op273	Op274	Op275	Op276	Op277	Op278	Op279	Op280	Op281	Op282	Op283	Op284	Op285	Op286	Op287	Op288	Op289	Op290	Op291	Op292	Op293	Op294	Op295	Op296	Op297	Op298	Op299	Op300	Op301	Op302	Op303	Op304	Op305	Op306	Op307	Op308	Op309	Op310	Op311	Op312	Op313	Op314	Op315	Op316	Op317	Op318	Op319	Op320	Op321	Op322	Op323	Op324	Op325	Op326	Op327	Op328	Op329	Op330	Op331	Op332	Op333	Op334	Op335	Op336	Op337	Op338	Op339	Op340	Op341	Op342	Op343	Op344	Op345	Op346	Op347	Op348	Op349	Op350	Op351	Op352	Op353	Op354	Op355	Op356	Op357	Op358	Op359	Op360	Op361	Op362	Op363	Op364	Op365	Op366	Op367	Op368	Op369	Op370	Op371	Op372	Op373	Op374	Op375	Op376	Op377	Op378	Op379	Op380	Op381	Op382	Op383	Op384	Op385	Op386	Op387	Op388	Op389	Op390	Op391	Op392	Op393	Op394	Op395	Op396	Op397	Op398	Op399	Op400	Op401	Op402	Op403	Op404	Op405	Op406	Op407	Op408	Op409	Op410	Op411	Op412	Op413	Op414	Op415	Op416	Op417	Op418
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0283 330 .SBTTL FORM_CONDS
0283 331 :++
0283 332 : FUNCTIONAL DESCRIPTION:
0283 333 :
0283 334 :         FORM_CONDS FORMATS AND PRINTS INFORMATION ABOUT
0283 335 :         THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
0283 336 :
0283 337 : CALLING SEQUENCE:
0283 338 :
0283 339 :         BSBW FORM_CONDS
0283 340 :
0283 341 : INPUT PARAMETERS:
0283 342 :
0283 343 :         NONE
0283 344 :
0283 345 : IMPLICIT INPUTS:
0283 346 :
0283 347 :         R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0283 348 :         FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0283 349 :         FOR X = 1,2,3,4,5 :
0283 350 :             CONDX_T - TITLE TEXT FOR CONDX TABLE
0283 351 :             CONDX_TAB - ELEMENT TEXT FOR CONDX TABLE
0283 352 :             CONDX_C - CONTEXT OF THE CONDX TABLE
0283 353 :             CONDX_E - DATA ELEMENTS OF THE CONDX TABLE
0283 354 :
0283 355 : OUTPUT PARAMETERS:
0283 356 :
0283 357 :         NONE
0283 358 :
0283 359 : IMPLICIT OUTPUTS:
0283 360 :
0283 361 :         NONE
0283 362 :
0283 363 : COMPLETION CODES:
0283 364 :
0283 365 :         NONE
0283 366 :
0283 367 : SIDE EFFECTS:
0283 368 :
0283 369 :         NONE
0283 370 :
0283 371 :--
0283 372 :
0283 373 :
0283 374 :
0283 375 FORM_CONDS::
0283 376 $FAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
02A2 377 : FORMAT CONDITIONS HEADER MSG
02A2 378 BSBW OUTPUT_MSG : ... AND PRINT IT
14 00 91 02A5 379 CMPB #COND1_C,#NULL : IS CONDITION 1 NULL ?
03 12 02A8 380 BNEQU 10$ : NO -- CONTINUE
00BF 31 02AA 381 BRW FORM_CONDSX : YES -- SUBROUTINE IS FINISHED
02AD 382 10$:
02AD 383 MOVAL COND1_T,MSG_A : SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO
00000000'EF 00000120'EF DE 02AD 384 MOVL COND1_TAB[R2],MSG_B : SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAO
00000000'EF 0000012D'EF42 D0 02B8 385 MOVB #COND1_C,MSG_CTXT : SAVE CONDITION 1 CONTEXT FOR FAO
00000000'EF 00 90 02C4 385 MOV_VAL COND1_C,COND1_E[R2],MSG_DATA1 : GIVE COND 1 DATA VALUE TO FAO
02CB 386
```



```

      FD32' 30 02CB 387      BSBW WRITE_MSG2      ; FORMAT AND WRITE CONDITION 1 MSG
      14 00 91 02CE 388      CMPB #COND2_C,#NULL    ; IS CONDITION 2 NULL ?
      03 12 02D1 389      BNEQU 20$                ; NO -- CONTINUE
      0096 31 02D3 390      BRW FORM_CONDSX          ; YES -- SUBROUTINE IS FINISHED
      02D6 391 20$:
00000000'EF 00000177'EF DE 02D6 392      MOVAL COND2_T,MSG_A      ; SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO
00000000'EF 0000018D'EF43 D0 02E1 393      MOVL COND2_TAB[R3],MSG_B    ; SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO
      00000000'EF 00 90 02ED 394      MOVB #COND2_C,MSG_CTXT      ; SAVE CONDITION 2 CONTEXT FOR FAO
      FD09' 30 02F4 395      MOV VAL COND2_C,COND2_E[R3],MSG_DATA1 ; GIVE COND 2 DATA VALUE TO FAO
      14 00 91 02F4 396      BSBW WRITE_MSG2      ; FORMAT AND WRITE CONDITION 2 MSG
      03 12 02F7 397      CMPB #COND3_C,#NULL    ; IS CONDITION 3 NULL ?
      006D 31 02FA 398      BNEQU 30$                ; NO -- CONTINUE
      02FC 399      BRW FORM_CONDSX          ; YES -- SUBROUTINE IS FINISHED
      02FF 400 30$:
00000000'EF 000001B5'EF DE 02FF 401      MOVAL COND3_T,MSG_A      ; SAVE ADDRESS OF CONDITION 3 TITLE FOR FAO
00000000'EF 000001C3'EF44 D0 030A 402      MOVL COND3_TAB[R4],MSG_B    ; SAVE ADDR OF COND 3 CURR TEXT ELT FOR FAO
      00000000'EF 00 90 0316 403      MOVB #COND3_C,MSG_CTXT      ; SAVE CONDITION 3 CONTEXT FOR FAO
      FCE0' 30 031D 404      MOV VAL COND3_C,COND3_E[R4],MSG_DATA1 ; GIVE COND 3 DATA VALUE TO FAO
      14 14 91 0320 405      BSBW WRITE_MSG2      ; FORMAT AND WRITE CONDITION 3 MSG
      47 13 0323 406      CMPB #COND4_C,#NULL    ; IS CONDITION 4 NULL ?
      00000000'EF 0000025E'EF DE 0325 407      BEQLU FORM_CONDSX      ; YES -- SUBROUTINE IS FINISHED
00000000'EF 0000025E'EF45 D0 0330 408      MOVAL COND4_T,MSG_A      ; SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO
      00000000'EF 14 90 033C 409      MOVL COND4_TAB[R5],MSG_B    ; SAVE ADDR OF COND 4 CURR TEXT ELT FOR FAO
      FCBA' 30 0343 410      MOVB #COND4_C,MSG_CTXT      ; SAVE CONDITION 4 CONTEXT FOR FAO
      14 14 91 0343 411      MOV VAL COND4_C,COND4_E[R5],MSG_DATA1 ; GIVE COND 4 DATA VALUE TO FAO
      21 13 0346 412      BSBW WRITE_MSG2      ; FORMAT AND WRITE CONDITION 4 MSG
      00000000'EF 0000025F'EF DE 0348 413      CMPB #COND5_C,#NULL    ; IS CONDITION 5 NULL ?
00000000'EF 0000025F'EF46 D0 0356 414      BEQLU FORM_CONDSX      ; YES -- SUBROUTINE IS FINISHED
      00000000'EF 14 90 0362 415      MOVAL COND5_T,MSG_A      ; SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
      FC94' 30 0369 416      MOVL COND5_TAB[R6],MSG_B    ; SAVE ADDR OF COND 5 CURR TEXT ELT FOR FAO
      05 036C 417      MOVB #COND5_C,MSG_CTXT      ; SAVE CONDITION 5 CONTEXT FOR FAO
      0369 418      MOV VAL COND5_C,COND5_E[R6],MSG_DATA1 ; GIVE COND 5 DATA VALUE TO FAO
      036C 419      BSBW WRITE_MSG2      ; FORMAT AND WRITE CONDITION 5 MSG
      420 FORM_CONDSX:
      036C 421      RSB      ; RETURN TO CALLER
```



```
036D 423 .SBTTL VERIFY
036D 424 :++
036D 425 : FUNCTIONAL DESCRIPTION:
036D 426 :
036D 427 : VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION
036D 428 : TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR
036D 429 : COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS
036D 430 : SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE
036D 431 : ($SUSPND). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED
036D 432 : BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS
036D 433 : AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF
036D 434 : COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN
036D 435 : ERR_EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY,
036D 436 : THROUGH THE SS_CHECK MACRO); ERR_EXIT SETS EFLAG TO NON-ZERO,
036D 437 : PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER.
036D 438 : WHEN ERR_EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED,
036D 439 : AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.
036D 440 :
036D 441 : CALLING SEQUENCE:
036D 442 :
036D 443 : BSBW VERIFY
036D 444 :
036D 445 : INPUT PARAMETERS:
036D 446 :
036D 447 : NONE
036D 448 :
036D 449 : IMPLICIT INPUTS:
036D 450 :
036D 451 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
036D 452 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
036D 453 : FOR X = 1,2,3,4,5 :
036D 454 : CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
036D 455 : TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
036D 456 : ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
036D 457 : FOR CONDX_E.
036D 458 :
036D 459 : OUTPUT PARAMETERS:
036D 460 :
036D 461 : NCNE
036D 462 :
036D 463 : IMPLICIT OUTPUTS:
036D 464 :
036D 465 : VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS,
036D 466 : IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING
036D 467 : ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA
036D 468 : AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED
036D 469 : ERRORS.
036D 470 :
036D 471 : COMPLETION CODES:
036D 472 :
036D 473 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
036D 474 :
036D 475 : SIDE EFFECTS:
036D 476 :
036D 477 : SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
036D 478 : (VIA RSB) IF ERROR ENCOUNTERED.
036D 479 :
```



```
036D 480 ;--
036D 481
036D 482
036D 483
036D 484
036D 485
0373 486
0375 487
0378 488
0378 489
0383 490
0389 491
0395 492
0397 493
039A 494
039A 495
039A 496
039A 497
03D5 498
03D5 499
0403 500
040E 501
0410 502
0410 503
041B 504
041B 505
041B 506
0427 507
042F 508
042F 509
042F 510
042F 511
043E 512
0445 513
0447 514
0452 515
0459 516
04A8 517
04A8 518
04AE 519
04B0 520
04BB 521
04BD 522
04C8 523
04D3 524
0518 525
0518 526
0523 527
0525 528
0528 529
0528 530
0537 531
0565 532
0574 533
05A2 534
05A2 535
05CB 536

00000000'EF 95
03 13
FF0B 30
0000011C'EF 00000114'EF D0
0000024A'EF44 00000110'EF D4
00000000'EF D1
03 12
0076 31
0000011C'EF 00000118'EF D0
0B 11
0000010C'EF 0000016B'EF42 D0
59 000001AD'EF43 D0
00000000'8F 50 D1
61 13
00000000'EF 00000000'8F D0
00000000'EF 50 D0
0000010C'EF D5
68 13
0000010C'FF 0000011C'EF D1
5B 13
00000000'EF 0000011C'EF D0
00000000'EF 0000010C'FF D0
0000011C'EF 00000118'EF D1
03 13
00D1 31

VERIFY::
TSTB CFLAG ; SHOULD CONDITIONS BE PRINTED ?
BEQL 5$ ; NO -- CONTINUE
BSBW FORM_CONDS ; YES -- FMT & PRINT ALL CONDS FOR THIS T.C.
5$:
MOVL SELFPIID,SUBJPID ; ASSUME THE SUBJECT PID IS SELF
CLRL ZEROPID ; CLEAR ZERO PID
CMPL ONES,COND3_E[R4] ; IS PROCESS FOR THIS TEST CASE SELF ?
BNEQU 7$ ; NO -- CONTINUE
BRW 10$ ; YES -- DON'T CREATE A PROCESS
7$:
$CREPRC_S PIDADR=CREPID, PRCNAM=SUBJPRN, -
UIC=COND3_E[R4], IMAGE=IMAGNAM, -
MBXUNT=MBXUNIT, QUOTA=QUOTALIST
; CREATE THE SUBJECT PROCESS
SS_CHECK NORMAL ; ... AND MAKE SURE IT CREATED OK
MOVL CREPID,SUBJPID ; MAKE THE SUBJT PID = THE ONE JUST CREATED
BRB 12$ ; ... AND CONTINUE
10$:
$RESUME_S ; ISSUE PRELIM RESUME FOR SELF ...
; ... TO OFFSET UPCOMING SUSPND
12$:
MOVL COND1_E[R2],DEST_PIDADR ; GET PID ADDRESS OUT OF TABLE
MOVL COND2_E[R3],R9 ; PRCNAM ADDR INTO REG FOR INDIRECT REF'RNCE
; ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
$SUSPND_S PIDADR=@DEST_PIDADR, PRCNAM=(R9)
CMPL R0,#SS$ _NORMAL ; CODE RECEIVED = CODE EXPECTED ?
BEQLU 18$ ; YES -- CONTINUE
MOVL #SS$ _NORMAL,EXPV ; NO -- LOAD UP EXPECTED AND
MOVL R0,RCV ; ... RECEIVED VALUES, THEN EXIT
ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM SUSPND>
18$:
TSTL DEST_PIDADR ; PID RETURNED BY SUSPND ?
BEQL 20$ ; NO -- KEEP GOING
CMPL SUBJPID,@DEST_PIDADR ; YES -- IS IT THE CORRECT ONE ?
BEQL 20$ ; YES -- CONTINUE
MOVL SUBJPID,EXPV ; NO --LOAD UP EXPECTED AND
MOVL @DEST_PIDADR,RCV ; ... RECEIVED VALUES, THEN EXIT
ERR_EXIT LONG,<INCORRECT PID RETURNED BY SUSPND>
20$:
CMPL CREPID,SUBJPID ; WAS A PROCESS CREATED ?
BEQLU 30$ ; YES -- CONTINUE
BRW VERIFYX ; NO -- ALL FINISHED
30$:
$RESUME_S SUBJPID ; ISSUE OFFSETTING RESUME
SS_CHECK NORMAL ; ... AND CHECK IT
$WAKE_S SUBJPID ; ALLOW CREATED PROCESS TO FINISH
SS_CHECK NORMAL ; CHECK FOR NORMAL STATUS CODE
$QIOW_S CHAN=MBXCHAN, FUNC=#IOS_READVBLK, -
P1=MBXBUFF+8, P2=MBXBUFF
; ... AND WAIT FOR IT TO SEND MAIL
```


SATSSS37
V04-000

SATS SYSTEM SERVICE TESTS \$SUSPND (SUCC 16-SEP-1984 00:51:44 VAX/VMS Macro V04-00 Page 14
VERIFY 5-SEP-1984 04:30:50 [UETPSY.SRC]SATSSS37.MAR;1 (1)

05CB	537	SS_CHECK NORMAL	
05F9	538	VERIFYX:	; CHECK FOR NORMAL STATUS CODE
05F9	539	RSB	; RETURN TO CALLER

```
05FA 541 .SBTTL VFY_CLEANUP
05FA 542 :++
05FA 543 : FUNCTIONAL DESCRIPTION:
05FA 544 :
05FA 545 : VFY_CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE
05FA 546 : EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY_CLEANUP MUST
05FA 547 : ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN
05FA 548 : ERROR IS FOUND). ALSO, VFY_CLEANUP MAY ISSUE SS_CHECK OR ERR_EXIT
05FA 549 : ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED
05FA 550 : IN THE EVENT THAT VFY_CLEANUP IS CALLED DURING ERROR PROCESSING,
05FA 551 : WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN
05FA 552 : POSSIBLY DISCOVERING A SECOND ERROR.
05FA 553 :
05FA 554 : CALLING SEQUENCE:
05FA 555 :
05FA 556 : BSBW VFY_CLEANUP
05FA 557 :
05FA 558 : INPUT PARAMETERS:
05FA 559 :
05FA 560 : NONE
05FA 561 :
05FA 562 : IMPLICIT INPUTS:
05FA 563 :
05FA 564 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
05FA 565 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
05FA 566 : FOR X = 1,2,3,4,5 :
05FA 567 : COND_X_E - ADDRESS OF TABLE OF DATA VALUES FOR COND_X
05FA 568 : TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
05FA 569 : ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
05FA 570 : FOR COND_X_E.
05FA 571 :
05FA 572 : OUTPUT PARAMETERS:
05FA 573 :
05FA 574 : NONE
05FA 575 :
05FA 576 : IMPLICIT OUTPUTS:
05FA 577 :
05FA 578 : NONE
05FA 579 :
05FA 580 : COMPLETION CODES:
05FA 581 :
05FA 582 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
05FA 583 :
05FA 584 : SIDE EFFECTS:
05FA 585 :
05FA 586 : SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
05FA 587 : (VIA RSB) IF ERROR ENCOUNTERED.
05FA 588 :
05FA 589 : --
05FA 590 :
05FA 591 :
05FA 592 :
05FA 593 VFY_CLEANUP::
05FA 594 CMPL CREPID,SUBJPID ; WAS A PROCESS CREATED FOR THIS TEST CASE ?
05FA 595 BNEQU VFY_CLEANUPX ; NO -- JUST EXIT
05FA 596 $DELPRC_S SUBJPID ; YES -- DELETE IT
0616 597 VFY_CLEANUPX:
```

0000011C'EF

00000118'EF
OFD1
12

SATSSS37
V04-000

SATS SYSTEM SERVICE TESTS \$SUSPND L 13
VFY_CLEANUP (SUCC 16-SEP-1984 00:51:44 VAX/VMS Macro V04-00
5-SEP-1984 04:30:50 [UETPSY.SRC]SATSSS37.MAR;1 Page 16
05 0616 598 RSB (1)
0617 599 .END ; RETURN TO CALLER

\$\$\$\$	= 000004DD	R	04	DIBSW_UNIT	= 0000000C		
\$\$\$CHARS	= 00000020			EFLAG	*****	X	04
\$\$\$CHARS1	= 00000004			EXPV	*****	X	04
\$\$\$CHARS2	= 0000000A			FAO_DESC	*****	X	04
\$\$\$CHARS3	= 00000019			FAO_LEN	*****	X	04
\$\$\$CHARS4	= 00000021			FORM_CONDS	00000283	RG	04
\$\$\$CHARS5	= 00000026			FORM_CONDSX	0000036C	R	04
\$\$\$COND_A	= 00000004			IMAGNAM	00000065	R	02
\$\$\$STRINGS	= 00000001			IOS_READVBLK	*****	X	04
\$\$\$STRINGS2	= 00000005			LONG	= 00000004	G	
\$\$T1	= 00000001			MBXBUF	0000008C	R	03
\$\$T2	= 00000004			MBXCHAN	00000008	R	03
BYTE	= 00000001	G		MBXCHANINFO	0000000C	R	03
CFLAG	*****	X	04	MBXUNIT	00000088	R	03
CHMRTN	*****	X	04	MOD_MSG_CODE	*****	X	04
CHM_CONT	*****	X	04	MOD_MSG_PRINT	*****	X	04
COMP_SC	*****	X	04	MSGT_INP_CTL	00000019	R	02
COND	00000232	RG	04	MSG3_ERR_CTL	00000039	RG	02
COND1_C	= 00000000			MSG_A	*****	X	04
COND1_CLEANUP	00000233	RG	04	MSG_B	*****	X	04
COND1_E	0000016B	R	03	MSG_CTXT	*****	X	04
COND1_H	0000012C	RG	03	NOTARG	= 00000000	G	
COND1_T	00000120	R	03	NULL	= 00000014	G	
COND1_TAB	0000012D	R	03	ONES	*****	X	04
COND2	00000234	RG	04	OUTPUT MSG	*****	X	04
COND2_C	= 00000000			PCBSL_OIC	= 000000BC		
COND2_CLEANUP	00000235	RG	04	PCV	*****	X	04
COND2_E	000001AD	R	03	PHDSQ_PRIVMSK	= 00000000		
COND2_H	0000018C	RG	03	PQLS_BYTLM	= 00000003		
COND2_T	00000177	R	03	PQLS_CPULM	= 00000004		
COND2_TAB	0000018D	R	03	PQLS_FILLM	= 00000006		
COND3	00000236	RG	04	PQLS_LISTEND	= 00000000		
COND3X	0000027D	R	04	PQLS_PGFLQUOTA	= 00000007		
COND3_C	= 00000000			PQLS_PRCLM	= 00000008		
COND3_CLEANUP	0000027E	RG	04	PQLS_TQELM	= 00000009		
COND3_E	0000024A	R	03	PRIVMASK	00000000	R	03
COND3_H	000001C2	RG	03	PRIV_ARGS	= 00000002		
COND3_T	000001B5	R	03	PROCESS_ERR	*****	X	04
COND3_TAB	000001C3	R	03	QUAD	= 00000008	G	
COND4	0000027F	RG	04	QUOTALIST	00000084	R	02
COND4_C	= 00000014			RECV	*****	X	04
COND4_CLEANUP	00000280	RG	04	REST_REGS	*****	X	04
COND4_H	0000025E	RG	03	SAVE_REGS	*****	X	04
COND4_T	0000025E	R	03	SCH\$GL_CURPCB	*****	X	04
COND4_TAB	0000025E	R	03	SELFPIB	00000114	R	03
COND5	00000281	RG	04	SS\$ NORMAL	*****	X	04
COND5_C	= 00000014			SUBJPID	0000011C	R	03
COND5_CLEANUP	00000282	RG	04	SUBJPRN	00000051	R	02
COND5_H	0000025F	RG	03	SUCCESS	*****	X	04
COND5_T	0000025F	R	03	SYSSCMKRN	*****	GX	04
COND5_TAB	0000025F	R	03	SYSSCREMBX	*****	GX	04
CONFLICT	*****	X	04	SYSSCREPRC	*****	GX	04
CREPID	00000118	R	03	SYSSDELMBX	*****	GX	04
CTL\$GL_PHD	*****	X	04	SYSSDELPIC	*****	GX	04
DESC	= 00000010	G		SYSSFAO	*****	X	04
DEST_PIDADR	0000010C	R	03	SYSSGETCHN	*****	GX	04
DIB\$K_LENGTH	= 00000074			SYSSHIBER	*****	GX	04

SATSSS37
Symbol table

SATS SYSTEM SERVICE TESTS N 13
SSUSPND (SUCC 16-SEP-1984 00:51:44 VAX/VMS Macro V04-00
5-SEP-1984 04:30:50 [UETPSY.SRC]SATSSS37.MAR;1

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(1)

SYSSQIOW	*****	GX	04
SYSSRESUME	*****	GX	04
SYSSSETPRN	*****	GX	04
SYSSSETPRV	*****	GX	04
SYSSSUSPND	*****	GX	04
SYSSWAKE	*****	GX	04
TESTNUM	*****	X	04
TEST_MOD_NAME	00000000	RG	02
TEST_MOD_NAME_D	00000009	R	02
TEST_MOD_SUCC	*****	X	04
TMD_ADDR	*****	X	04
TM_CLEANUP	00000220	RG	04
TM_SETUP	00000000	RG	04
VERIFY	00000360	RG	04
VERIFYX	000005F9	R	04
VFY_CLEANUP	000005FA	RG	04
VFY_CLEANUPX	00000616	R	04
WORD	= 00000002	G	
WRITE_MSG2	*****	X	04
ZEROPID	00000110	R	03

+-----+
! 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	000000A7 (167.)	02 (2.)	NOPIC	USR	CON	REL	LCL	NOSHR	NOEXE	RD	NOWRT	NOVEC	LONG					
RWDATA	00000260 (608.)	03 (3.)	NOPIC	USR	CON	REL	LCL	NOSHR	NOEXE	RD	WRT	NOVEC	LONG					
SATSSS37	00000617 (1559.)	04 (4.)	NOPIC	USR	CON	REL	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE					

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	35	00:00:00.09	00:00:00.36
Command processing	138	00:00:00.78	00:00:04.88
Pass 1	288	00:00:09.15	00:00:16.95
Symbol table sort	0	00:00:00.74	00:00:00.90
Pass 2	122	00:00:02.20	00:00:02.69
Symbol table output	19	00:00:00.10	00:00:00.12
Psect synopsis output	1	00:00:00.04	00:00:00.04
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	605	00:00:13.10	00:00:25.94

The working set limit was 1650 pages.
47640 bytes (94 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 489 non-local and 47 local symbols.
599 source lines were read in Pass 1, producing 25 object records in Pass 2.
48 pages of virtual memory were used to define 38 macros.

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

Macro library name	Macros defined
-----	-----
_\$255\$DUA28:[SHRLIB]UETP.MLB;1	9
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	2
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	24
TOTALS (all libraries)	35

896 GETS were required to define 35 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS37/OBJ=OBJ\$:SATSSS37 MSRC\$:SATSSS37/UPDATE=(ENH\$:SATSSS37)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

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

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