

```
BBBBBBBBBBBBBB    AAAAAAAAAA    DDDDDDDDDDDDD    BBBBBBBBBBBBBBB    LLL    KKK    KKK
BBBBBBBBBBBBBB    AAAAAAAAAA    DDDDDDDDDDDDD    BBBBBBBBBBBBBBB    LLL    KKK    KKK
BBBBBBBBBBBBBB    AAAAAAAAAA    DDDDDDDDDDDDD    BBBBBBBBBBBBBBB    LLL    KKK    KKK
BBB    BBB    AAA    AAA    DDD    DDD    BBB    BBB    LLL    KKK    KKK
BBB    BBB    AAA    AAA    DDD    DDD    BBB    BBB    LLL    KKK    KKK
BBB    BBB    AAA    AAA    DDD    DDD    BBB    BBB    LLL    KKK    KKK
BBB    BBB    AAA    AAA    DDD    DDD    BBB    BBB    LLL    KKK    KKK
BBB    BBB    AAA    AAA    DDD    DDD    BBB    BBB    LLL    KKK    KKK
BBB    BBB    AAA    AAA    DDD    DDD    BBB    BBB    LLL    KKK    KKK
BBBBBBBBBBBBBB    AAA    AAA    DDD    DDD    BBBBBBBBBBBBBBB    LLL    KKK    KKK
BBBBBBBBBBBBBB    AAA    AAA    DDD    DDD    BBBBBBBBBBBBBBB    LLL    KKK    KKK
BBBBBBBBBBBBBB    AAA    AAA    DDD    DDD    BBBBBBBBBBBBBBB    LLL    KKK    KKK
BBB    BBB    AAAAAAAAAAAAAAAAAA    DDD    DDD    BBB    BBB    LLL    KKK    KKK
BBB    BBB    AAAAAAAAAAAAAAAAAA    DDD    DDD    BBB    BBB    LLL    KKK    KKK
BBB    BBB    AAAAAAAAAAAAAAAAAA    DDD    DDD    BBB    BBB    LLL    KKK    KKK
BBB    BBB    AAA    AAA    DDD    DDD    BBB    BBB    LLL    KKK    KKK
BBB    BBB    AAA    AAA    DDD    DDD    BBB    BBB    LLL    KKK    KKK
BBB    BBB    AAA    AAA    DDD    DDD    BBB    BBB    LLL    KKK    KKK
BBB    BBB    AAA    AAA    DDD    DDD    BBB    BBB    LLL    KKK    KKK
BBB    BBB    AAA    AAA    DDD    DDD    BBB    BBB    LLL    KKK    KKK
BBBBBBBBBBBBBB    AAA    AAA    DDDDDDDDDDDDD    BBBBBBBBBBBBBBB    LLLLLLLLLLLLLLLLLL    KKK    KKK
BBBBBBBBBBBBBB    AAA    AAA    DDDDDDDDDDDDD    BBBBBBBBBBBBBBB    LLLLLLLLLLLLLLLLLL    KKK    KKK
BBBBBBBBBBBBBB    AAA    AAA    DDDDDDDDDDDDD    BBBBBBBBBBBBBBB    LLLLLLLLLLLLLLLLLL    KKK    KKK
```

```

GGGGGGGG  EEEEEEEEE  TTTTTTTTT  RRRRRRR  EEEEEEEEE  QQQQQQ
GGGGGGGG  EEEEEEEEE  TTTTTTTTT  RRRRRRR  EEEEEEEEE  QQQQQQ
GG          EE          TT          RR          RR          EE          QQ          QQ
GG          EE          TT          RR          RR          EE          QQ          QQ
GG          EE          TT          RR          RR          EE          QQ          QQ
GG          EEEEEEE    TT          RRRRRRR  EEEEEEEEE  QQ          QQ
GG          EEEEEEE    TT          RRRRRRR  EEEEEEEEE  QQ          QQ
GG  GGGGGG  EE          TT          RR  RR          EE          QQ  QQ  QQ
GG  GGGGGG  EE          TT          RR  RR          EE          QQ  QQ  QQ
GG          EE          TT          RR          RR          EE          QQ          QQ
GG          EE          TT          RR          RR          EE          QQ          QQ
GG          EE          TT          RR          RR          EEEEEEEEE  QQQQ  QQ
GG          EE          TT          RR          RR          EEEEEEEEE  QQQQ  QQ
GGGGGGGG  EEEEEEEEE  TTTTTTTTT  RRRRRRR  EEEEEEEEE
GGGGGGGG  EEEEEEEEE  TTTTTTTTT  RRRRRRR  EEEEEEEEE

```

```

LL          IIIII  SSSSSSS
LL          IIIII  SSSSSSS
LL          II     SS
LL          II     SS
LL          II     SS
LL          II     SSSSS
LL          II     SSSSS
LL          II     SS
LL          II     SS
LL          II     SS
LL          II     SS
LLLLLLLLLL IIIII  SSSSSSS
LLLLLLLLLL IIIII  SSSSSSS

```

```

1 0001 0 MODULE GETREQ (MAIN=MAIN_BAD,
2 0002 0 LANGUAGE=(BLISS32),
3 0003 0 IDENT = 'V04-000',
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1
8 0008 1 *****
9 0009 1 *
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
11 0011 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. *
12 0012 1 * ALL RIGHTS RESERVED. *
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26 0026 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1 ++
32 0032 1
33 0033 1 FACILITY: DYNAMIC BADBLOCK UTILITY
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1 THESE ROUTINES PERFORM THE INTERACTIONS WITH THE FILE SYSTEM
38 0038 1 ACP FOR THE BAD BLOCK SCAN UTILITY.SPECIFIC FUNCTIONS ARE
39 0039 1
40 0040 1 1. READ THE MAILBOX INTERFACING THE UTILITY AND THE ACP
41 0041 1 2. ACCESS THE SUSPECT FILE BY PATCHING ITS UCB INTO
42 0042 1 A PREVIOUSLY OPENED CCB
43 0043 1
44 0044 1 ENVIRONMENT:
45 0045 1
46 0046 1 VAX/VMS OPERATING SYSTEM, VERSION 1.0
47 0047 1
48 0048 1 --
49 0049 1
50 0050 1
51 0051 1 AUTHOR: THOMAS G. DOPIRAK, CREATION DATE: 7-JUNE-1978
52 0052 1
53 0053 1 REVISION HISTORY:
54 0054 1
55 0055 1 V03-001 LMP0035 L. Mark Pilant, 28-Jun-1982 13:15
56 0056 1 Correct problems that resulted in informational messages.
57 0057 1

```

GETREQ  
V04-000

N 13  
15-Sep-1984 23:36:36  
14-Sep-1984 11:54:33

VAX-11 Bliss-32 V4.0-742  
[BADBLK.SRC]GETREQ.B32;1

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(1)

```
: 58      0058 1  !**
: 59      0059 1
: 60      0060 1
: 61      0061 1  LIBRARY 'SYSS$LIBRARY:LIB.L32';
: 62      0062 1
: 63      0063 1
: 64      0064 1  FORWARD ROUTINE
: 65      0065 1      MAIN BAD:NOVALUE,
: 66      0066 1      RESTORE_CHANNEL:NOVALUE,
: 67      0067 1      SET_UCB:NOVALUE,
: 68      0068 1      OPEN_CHANNEL,
: 69      0069 1      GET_BBSMSG,
: 70      0070 1      GET_CCB;
: 71      0071 1  EXTERNAL ROUTINE
: 72      0072 1      DATA_INIT:NOVALUE,
: 73      0073 1      SCAN;
```

```
!MAIN PROGRAM
!PLACE SYSS$DISK UCB BACK INTO CCB
!SET UCB ADDRESS IN TO CCB
!OPEN CHANNELS TO F11ACP AND SYSS$DISK
!READ MAIL FROM F11ACP
! get address of CCB of channel
```

```

: 75      0074 1  |
: 76      0075 1  | OWN STORAGE
: 77      0076 1  |
: 78      0077 1  |
: 79      0078 1  | GLOBAL
80      0079 1  | CHANNEL:WORD,           !CHANNEL NUMBER OF SYSSDISK
81      0080 1  | MBX CHANNEL:WORD,      !CHANNEL NUMBER OF F11ACP MAILBOX
82      0081 1  | CCBCB,                 !ADDRESS OF UCB ENTRY IN CCB
83      0082 1  | OLD UCB,               !UCB ADDRESS FOR OPEN CHANNEL
84      0083 1  | SYSSDISK_UCB,         !SAVED ADDRESS OF UCB FOR SYSSDISK
85      0084 1  | ACP_MAIL:BLOCK[BBSSC_LENGTH,BYTE]; !MESSAGE FROM F11ACP
86      0085 1  |
87      0086 1  | !READ ONLY STORAGE
88      0087 1  |
89      0088 1  |
90      0089 1  | BIND
91      0090 1  |
92      0091 1  | DISK_DESC=UPLIT(%CHARCOUNT('SYSSDISK'),
93      0092 1  |                      UPLIT BYTE('SYSSDISK'));
94      0093 1  |
95      0094 1  | LITERAL
96      0095 1  | TRUE=1;
```

```

98 0096 1 ROUTINE MAIN_BAD: NOVALUE=
99 0097 1
100 0098 1 !++
101 0099 1 ! FUNCTIONAL DESCRIPTION:
102 0100 1
103 0101 1     MAIN PROGRAM ON BADBLOCK SCAN UTILITY. THIS ROUTINE RECEIVES
104 0102 1     MAIL FROM THE F11ACP INDICATING FILES THAT HAVE BEEN DELETED
105 0103 1     AND THAT HAVE ENCOUNTERED HARD DEVICE ERRORS DURING IO.
106 0104 1     MAIN_BAD USES THE UCB ADDRESS(INDICATING WHICH DISK) AND
107 0105 1     FILE=ID(INDICATING THE FILE) TO SEPARATE THE SUSPECT FILE
108 0106 1     INTO ITS 'BAD' AND GOOD PORTIONS. THE BAD PORTIONS ARE
109 0107 1     ADDED ONTO BADBLK.SYS(SYSTEM BADBLOCK FILE) AND THE GOOD
110 0108 1     PORTIONS ARE RECYCLED FOR GENERAL USE.
111 0109 1     SINCE THE DISK INVOLVED MAY BE ALLOCATED, BADBLOCK SCAN
112 0110 1     SLIDES AROUND SYSTEM PROTECTION BY OPENING A CHANNEL TO
113 0111 1     SYSSDISK AND THEN REPLACING THE UCB ADDRESS IN THAT CCB
114 0112 1     BY THAT OF THE SUSPECT DISK.
115 0113 1
116 0114 1     FORMAL PARAMETERS:
117 0115 1
118 0116 1     NONE
119 0117 1
120 0118 1     IMPLICIT INPUTS:
121 0119 1
122 0120 1     NONE
123 0121 1
124 0122 1     IMPLICIT OUTPUTS:
125 0123 1
126 0124 1     NONE
127 0125 1
128 0126 1     ROUTINE VALUE:
129 0127 1     COMPLETION CODES:
130 0128 1
131 0129 1     NONE
132 0130 1
133 0131 1     SIDE EFFECTS:
134 0132 1
135 0133 1     NONE
136 0134 1
137 0135 1     --
138 0136 1
139 0137 2 BEGIN
140 0138 2
141 0139 2 !+
142 0140 2 ! OPEN CHANNELS TO SYSSDISK AND THE F11ACP MAILBOX
143 0141 2
144 0142 2     IF
145 0143 2     NOT OPEN_CHANNEL()
146 0144 2     THEN
147 0145 2     RETURN;
148 0146 2
149 0147 2 !++
150 0148 2 ! INITIALIZE TEST DATA
151 0149 2 ! --
152 0150 2
153 0151 2     DATA_INIT();
154 0152 2

```

```

: 155 0153 2 !+
: 156 0154 2 !GET THE ADDRESS OF THE CCB FOR OPEN CHANNEL
: 157 0155 2
: 158 0156 2 IF NOT $CMKRNL(ROUTIN=GET_CCB)
: 159 0157 2 THEN
: 160 0158 2 RETURN;
: 161 0159 2
: 162 0160 2 !+
: 163 0161 2 !CYCLE THROUGH UNTIL NOTHING IN MAILBOX TO DO
: 164 0162 2
: 165 0163 2
: 166 0164 2 WHILE TRUE DO
: 167 0165 2 BEGIN
: 168 0166 2 IF
: 169 0167 2 NOT GET_BBSMSG()
: 170 0168 2 THEN
: 171 0169 2 BEGIN
: 172 0170 2 RESTORE_CHANNEL();
: 173 0171 2 RETURN
: 174 0172 2 END;
: 175 0173 2
: 176 0174 2 !+
: 177 0175 2 !SET UCB FOR SUSPECT FILE INTO OPEN CCB
: 178 0176 2
: 179 0177 2 $CMKRNL(ROUTIN=SET_UCB);
: 180 0178 2
: 181 0179 2 !+
: 182 0180 2 !PROCESS THE FILE
: 183 0181 2
: 184 0182 2 SCAN();
: 185 0183 2 END;
: 186 0184 1 END;

```

```

.TITLE GETREQ
.IDENT \V04-000\
.PSECT $SPLITS,NOWRT,NOEXE,2
4B 53 49 44 24 53 59 53 0000 P.AAB: .ASCII \SYSSDISK\
00000008 00008 P.AAA: .LONG 8
00000000' 0000C .ADDRESS P.AAB
.PSECT $GLOBAL$,NOEXE,2
0000 CHANNEL::
.BLKB 2
0002 MBX_CHANNEL::
.BLKB 2
0004 CCBUCB::.BLKB 4
0008 OLD_UCB::
.BLKB 4
000C SYSSDISK_UCB::
.BLKB 4
0010 ACP_MAIL::
.BLKB 18

```

DISK\_DESC= P.AAA  
.EXTRN DATA\_INIT, SCAN  
.EXTRN SYSSCMKRNL  
.PSECT \$CODE\$,NOWRT,2

|       |    | 0004 0000 MAIN_BAD: |                  |        |                     |        |
|-------|----|---------------------|------------------|--------|---------------------|--------|
|       |    |                     |                  | .WORD  | Save R2             | : 0096 |
| 0000V | 52 | 00000000G           | 00 9E 00002      | MOVAB  | SYSSCMKRNL, R2      | : 0143 |
|       | CF |                     | 00 FB 00009      | CALLS  | #0, OPEN_CHANNEL    | : 0151 |
| 0000G | 2F |                     | 50 E9 0000E      | BLBC   | R0, 3\$             | : 0156 |
|       | CF |                     | 00 FB 00011      | CALLS  | #0, DATA_INIT       |        |
|       |    |                     | 7E D4 00016      | CLRL   | -(SP)               |        |
|       |    | 0000V               | CF 9F 00018      | PUSHAB | GET_CCB             |        |
|       | 62 |                     | 02 FB 0001C      | CALLS  | #2, -SYSSCMKRNL     |        |
|       | 1E |                     | 50 E9 0001F      | BLBC   | R0, 3\$             |        |
| 0000V | CF |                     | 00 FB 00022 1\$: | CALLS  | #0, GET_BBSMSG      | : 0167 |
|       | 06 |                     | 50 E8 00027      | BLBS   | R0, 2\$             |        |
| 0000V | CF |                     | 00 FB 0002A      | CALLS  | #0, RESTORE_CHANNEL | : 0170 |
|       |    |                     | 04 0002F         | RET    |                     | : 0169 |
|       |    | 0000V               | 7E D4 00030 2\$: | CLRL   | -(SP)               | : 0177 |
|       |    |                     | CF 9F 00032      | PUSHAB | SET_UCB             |        |
| 0000G | 62 |                     | 02 FB 00036      | CALLS  | #2, -SYSSCMKRNL     |        |
|       | CF |                     | 00 FB 00039      | CALLS  | #0, SCAN            | : 0182 |
|       |    |                     | E2 11 0003E      | BRB    | 1\$                 | : 0164 |
|       |    |                     | 04 00040 3\$:    | RET    |                     | : 0184 |

; Routine Size: 65 bytes, Routine Base: \$CODE\$ + 0000



```

188 0185 1 GLOBAL ROUTINE GET_CCB =
189 0186 1
190 0187 1 |++
191 0188 1
192 0189 1 | FUNCTIONAL DESCRIPTION:
193 0190 1
194 0191 1 |     THIS ROUTINE LOCATES THE CCB ASSOCIATED WITH A SPECIFIED
195 0192 1 |     CHANNEL NUMBER. THE ADDRESS OF THE UCB LONGWORD IN THE CCB
196 0193 1 |     IS SAVED IN CCBUCB AND THE UCB ADDRESS ITSELF IS SAVED IN
197 0194 1 |     OLD_UCB
198 0195 1
199 0196 1
200 0197 1 | INPUT PARAMETERS:
201 0198 1
202 0199 1 |     NONE
203 0200 1
204 0201 1 | IMPLICIT INPUTS:
205 0202 1
206 0203 1 |     CHANNEL: THE CHANNEL NUMBER WHOSE CCB IS BEING LOCATED
207 0204 1
208 0205 1 | OUTPUT PARAMETERS:
209 0206 1
210 0207 1 |     OLD_UCB: THE ADDRESS OF THE SYS$DISK UCB
211 0208 1 |     CCBUCB: ADDRESS OF THE UCB LONGWORD IN THE SYS$DISK CCB
212 0209 1
213 0210 1 | IMPLICIT OUTPUTS:
214 0211 1 |     NONE
215 0212 1
216 0213 1 | ROUTINE VALUE:
217 0214 1
218 0215 1 |     IF CCB CAN BE FOUND THE SUCCESS
219 0216 1
220 0217 1
221 0218 1 | SIDE EFFECTS:
222 0219 1 |     NONE
223 0220 1
224 0221 1 | --
225 0222 1
226 0223 1
227 0224 1
228 0225 2 BEGIN
229 0226 2
230 0227 2 LINKAGE
231 0228 2 |     L_VERIFYCHAN = JSB (REGISTER = 0) :
232 0229 2 |                   GLOBAL (CCB = 1)
233 0230 2 |                   NOPRESERVE (2, 3, 4, 5);
234 0231 2
235 0232 2 GLOBAL REGISTER
236 0233 2 |     CCB = 1 ; ! CCB address returned
237 0234 2
238 0235 2 LOCAL
239 0236 2 |     STATUS; ! status of system call
240 0237 2
241 0238 2 EXTERNAL ROUTINE
242 0239 2 |     IOC$VERIFYCHAN : L_VERIFYCHAN ADDRESSING_MODE (ABSOLUTE);
243 0240 2 |                   ! exec routine to find CCB
244 0241 2

```

```

: 245      0242 2 !*
: 246      0243 2 !CALL EXEC ROUTINE TO FIND CCB ADDRESS GIVEN CHANNEL NUMBER
: 247      0244 2
: 248      0245 2     STATUS = IOC$VERIFYCHAN (.CHANNEL);
: 249      0246 2
: 250      0247 2 !*
: 251      0248 2 !SAVE OLD UCB ADDRESS AND ADDRESS OF UCB ADDRESS IN CCB
: 252      0249 2
: 253      0250 2     BEGIN
: 254      0251 2     MAP CCB:REF BLOCK;
: 255      0252 2     CCBUCB=CCB[CCB$L_UCB];
: 256      0253 2     OLD_UCB=.CCB[CCB$L_UCB];
: 257      0254 2     END;
: 258      0255 2
: 259      0256 2 RETURN .STATUS
: 260      0257 1 END;
! end of routine GET_CCB

```

```

                                OFFC 00000
                                50      0000' CF 3C 00002
                                0000' CF 00000000G 9F 16 00007
                                0000' CF          51 D0 0000D
                                0000' CF          61 D0 00012
                                         04 00017
                                .EXTRN  IOC$VERIFYCHAN
                                .ENTRY  GET_CCB, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,- ; 0185
                                R11
                                MOVZWL CHANNEL, R0 ; 0245
                                JSB     @#IOC$VERIFYCHAN
                                MOVL   CCB, CCBUCB ; 0252
                                MOVL   (CCB), OLD_UCB ; 0253
                                RET ; 0257

```

: Routine Size: 24 bytes, Routine Base: \$CODE\$ + 0041

: 261 0258 1

```

: 264      0259 1 GLOBAL ROUTINE SET_UCB:NOVALUE=
: 265      0260 1
: 266      0261 1 !*
: 267      0262 1 ! FUNCTIONAL DESCRIPTION:
: 268      0263 1
: 269      0264 1     ROUTINE PLACES THE UCB ADDRESS FOUND IN ITS MAIL FROM
: 270      0265 1     F11ACP INTO THE CCB OF THE OPEN CHANNEL, THEREBY
: 271      0266 1     HAVING ACCESS TO THE SUSPECT DISK
: 272      0267 1
: 273      0268 1 ! FORMAL PARAMETERS:
: 274      0269 1
: 275      0270 1     NONE
: 276      0271 1
: 277      0272 1 ! IMPLICIT INPUTS:
: 278      0273 1
: 279      0274 1     ACP_MAIL: BUFFER CONTAINING MAIL FROM LAST READ OF F11ACP
: 280      0275 1     MAILBOX
: 281      0276 1
: 282      0277 1 ! IMPLICIT OUTPUTS:
: 283      0278 1
: 284      0279 1     NONE
: 285      0280 1
: 286      0281 1 ! ROUTINE VALUE:
: 287      0282 1 ! COMPLETION CODES:
: 288      0283 1
: 289      0284 1     NONE
: 290      0285 1
: 291      0286 1 ! SIDE EFFECTS:
: 292      0287 1
: 293      0288 1     NONE
: 294      0289 1
: 295      0290 1 ! --
: 296      0291 1
: 297      0292 2 BEGIN
: 298      0293 2
: 299      0294 2
: 300      0295 2 !*
: 301      0296 2 ! REPLACE THE UCB ADDRESS
: 302      0297 2
: 303      0298 2     .CCBUCE=.ACP_MAIL[BBS$L_UCB];
: 304      0299 1 END;

```

```

          0000' DF      0000' CF      0000 00000
          04 00009

```

```

.ENTRY SET_UCB, Save nothing
MOVL  ACP_MAIL+8, @CCBUCE
RET

```

```

: 0259
: 0298
: 0299

```

: Routine Size: 10 bytes, Routine Base: \$CODE\$ + 0059

```

307 0300 1 ROUTINE OPEN_CHANNEL=
308 0301 1
309 0302 1 !++
310 0303 1 ! FUNCTIONAL DESCRIPTION:
311 0304 1
312 0305 1 !     THE ROUTINE OPENS CHANNEL TO THE SYSSDISK AND
313 0306 1 !     ACP$BADBLOCK MBX. THE SYSSDISK CHANNEL IS USED TO
314 0307 1 !     OBTAIN ACCESS TO WHAT MIGHT BE AN ALLOCATED DISK.
315 0308 1 !     THE MBX CHANNEL IS USED TO RECEIVE MAIL FROM THE
316 0309 1 !     F11ACP, THAT IS THE WORK ORDERS FOR FILES TO PROCESS
317 0310 1
318 0311 1 ! FORMAL PARAMETERS:
319 0312 1
320 0313 1 !     NONE
321 0314 1
322 0315 1 ! IMPLICIT INPUTS:
323 0316 1
324 0317 1 !     NONE
325 0318 1
326 0319 1 ! IMPLICIT OUTPUTS:
327 0320 1
328 0321 1 !     CHANNEL: CHANNEL TO SYSSDISK
329 0322 1 !     MBX_CHANNEL: CHANNEL TO F11ACP MAILBOX
330 0323 1
331 0324 1 ! ROUTINE VALUE:
332 0325 1 ! COMPLETION CODES:
333 0326 1
334 0327 1 !     SHOULD EITHER $ASSIGN FAIL THEN THE FAILURE CODE IS RETURNED
335 0328 1 !     OTHERWISE SUCCESS IS RETURNED
336 0329 1
337 0330 1 ! SIDE EFFECTS:
338 0331 1
339 0332 1 !     NONE
340 0333 1
341 0334 1 ! --
342 0335 1
343 0336 2 BEGIN
344 0337 2 LOCAL
345 0338 2     STATUS;
346 0339 2 BIND
347 0340 2     MBX_DESC=UPLIT (%CHARCOUNT('ACP$BADBLOCK MBX'),
348 0341 2     UPLIT BYTE('ACP$BADBLOCK_MBX'));
349 0342 2
350 0343 2 !+
351 0344 2 ! OPEN A CHANNEL THE THE CURRENT DISK
352 0345 2
353 0346 2     IF
354 0347 2     NOT (STATUS=$ASSIGN(CHAN=CHANNEL,DEVNAM=DISK_DESC))
355 0348 2     THEN
356 0349 2     RETURN .STATUS;
357 0350 2
358 0351 2 !+
359 0352 2 ! OPEN A CHANNEL TO THE MAILBOX FROM F11ACP
360 0353 2
361 0354 2     IF
362 0355 2     NOT(STATUS=$ASSIGN(CHAN=MBX_CHANNEL,DEVNAM=MBX_DESC))
363 0356 2     THEN

```

```

: 364      0357 3      BEGIN
: 365      0358 3      $DASSGN(CHAN=.CHANNEL);
: 366      0359 3      RETURN .STATUS
: 367      0360 2      END;
: 368      0361 2
: 369      0362 2 RETURN TRUE
: 370      0363 1 END;

```

```

                                .PSECT $SPLITS,NOWRT,NOEXE,2
42 4D 5F 4B 43 4F 4C 42 44 41 42 24 50 43 41 00010 P.AAD: .ASCII \ACPS$BADBLOCK_MBX\
                                58 0001F
                                00000010 00020 P.AAC: .LONG 16
                                00000000' 00024 .ADDRESS P.AAD
                                MBX_DESC=
                                .EXTRN P.AAC SYSS$ASSIGN, SYSS$DASSGN
                                .PSECT $CODE$,NOWRT,2
                                000C 00000 OPEN_CHANNEL:
                                .WORD Save R2,R3 : 0300
53 00000000G 00 9E 00002 MOVAB SYSS$ASSIGN, R3
                                7E 7C 00009 CLRQ -(SP) : 0347
                                0000' CF 9F 0000B PUSHAB CHANNEL
                                0000' CF 9F 0000F PUSHAB DISK_DESC
63 04 FB 00013 CALLS #4, SYSS$ASSIGN
52 50 D0 00016 MOVL R0, STATUS
1F 52 E9 00019 BLBC STATUS, 1$
                                7E 7C 0001C CLRQ -(SP) : 0355
                                0000' CF 9F 0001E PUSHAB MBX_CHANNEL
                                0000' CF 9F 00022 PUSHAB MBX_DESC
63 04 FB 00026 CALLS #4, SYSS$ASSIGN
52 50 D0 00029 MOVL R0, STATUS
10 52 E8 0002C BLBS STATUS, 2$
7E 0000' CF 3C 0002F MOVZWL CHANNEL, -(SP) : 0358
00000000G 00 01 FB 00034 CALLS #1, SYSS$DASSGN
50 52 D0 0003B 1$: MOVL STATUS, R0 : 0359
                                04 0003E RET
50 01 D0 0003F 2$: MOVL #1, R0 : 0362
                                04 00042 RET : 0363

```

; Routine Size: 67 bytes, Routine Base: \$CODE\$ + 0063

```

: 372 0364 1 ROUTINE GET_BBSMSG=
: 373 0365 1
: 374 0366 1 !++
: 375 0367 1 ! FUNCTIONAL DESCRIPTION:
: 376 0368 1
: 377 0369 1     THIS ROUTINE ATTEMPTS TO READ MAIL FROM THE
: 378 0370 1     MAILBOX LINKING THE F11ACP TO TH BADBLOCK UTILITY
: 379 0371 1     IF THE READ IS SUCCESSFUL THE MESSAGE TYPE AND LENGTH
: 380 0372 1     OF THE MAIL IS CHECKED, IF EITHER IS WRONG THE MESSAGE
: 381 0373 1     IS DISGARDED AND ANOTHER IS READ. IF A READ FAILS,
: 382 0374 1     THE FAILURE STATUS IS RETURNED BY THE ROUTINE.
: 383 0375 1
: 384 0376 1     FORMAL PARAMETERS:
: 385 0377 1
: 386 0378 1     NONE
: 387 0379 1
: 388 0380 1     IMPLICIT INPUTS:
: 389 0381 1
: 390 0382 1     NONE
: 391 0383 1
: 392 0384 1     IMPLICIT OUTPUTS:
: 393 0385 1
: 394 0386 1     ACP_MAIL: MAIL IS READ INTO THIS BLOCK
: 395 0387 1
: 396 0388 1     ROUTINE VALUE:
: 397 0389 1     COMPLETION CODES:
: 398 0390 1
: 399 0391 1     IF THE MAILBOX READ FAILS THE FAILURE IS RETURNED
: 400 0392 1     OTHERWISE TRUE.
: 401 0393 1
: 402 0394 1     SIDE EFFECTS:
: 403 0395 1
: 404 0396 1     NONE
: 405 0397 1
: 406 0398 1     --
: 407 0399 1
: 408 0400 2 BEGIN
: 409 0401 2 LOCAL
: 410 0402 2     STATUS;
: 411 0403 2
: 412 0404 2 OWN
: 413 0405 2     MBX_IOSB:VECTOR[4.WORD];
: 414 0406 2
: 415 0407 2 !+
: 416 0408 2 ! LOOP UNTIL AN ERROR OF EOF
: 417 0409 2
: 418 0410 2     WHILE TRUE DO
: 419 0411 2
: 420 0412 2
: 421 0413 3         BEGIN
: 422 0414 3         !++
: 423 0415 3         ! READ FROM THE MAILBOX AND CHECK THE SYS SERV STATUS
: 424 0416 3         !
: 425 P 0417 4         IF NOT (STATUS=$QIOW(CHAN=.MBX CHANNEL,
: 426 P 0418 4             FUNC=IOS_READVBLK+IOSM_NOW,
: 427 P 0419 4             IOSB=MBX_IOSB,
: 428 P 0420 4             P1=ACP_MAIL,

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0421 4
0422 4
0423 3
0424 3
0425 3
0426 3
0427 3
0428 3
0429 3
0430 3
0431 3
0432 3
0433 3
0434 3
0435 3
0436 3
0437 3
0438 4
0439 3
0440 4
0441 3
0442 3
0443 3
0444 3
0445 1 END:

```

```

                                P2=BB$$C_LENGTH))
THEN
    RETURN .STATUS;

!++
!CHECK IO STATUS
!-
IF NOT .MBX_IOSB[0]
THEN
    RETURN .MBX_IOSB[0];

!+
!CHECK FOR PROPER MESSAGE TYPE AND LENGTH
IF
    (.ACP_MAIL[BB$$B_MSGTYPE] EQL MSG$_SCANBAD)
    AND
    (.MBX_IOSB[1] EQL BB$$C_LENGTH)
THEN
    RETURN TRUE;
END

```

```

                                .PSECT $OWNS,NOEXE,2
                                0000 MBX_IOSB:
                                    .BLKB      8
                                .EXTRN  SY$$QIOW
                                .PSECT $CODE$,NOWRT,2
                                0004 0000 GET_BBSMSG:
                                    .WORD      Save R2
                                    52 0000' CF 9E 00002 1$: MOVAB MBX_IOSB, R2
                                    7E 7C 00007 1$: CLRQ -(SP)
                                    7E 7C 00009 1$: CLRQ -(SP)
                                    12 DD 0000B PUSHL #18
                                    0000' CF 9F 0000D PUSHAB ACP_MAIL
                                    7E 7C 00011 CLRQ -(SP)
                                    52 DD 00013 PUSHL R2
                                    7E 71 8F 9A 00015 MOVZBL #113, -(SP)
                                    7E 0000' CF 3C 00019 MOVZWL MBX_CHANNEL, -(SP)
                                    7E D4 0001E CLRL -(SP)
                                00000000G 00 0C FB 00020 CALLS #12, SY$$QIOW
                                    17 50 E9 00027 BLBC STATUS, 3$
                                    04 62 E8 0002A BLBS MBX_IOSB, 2$
                                    50 62 3C 0002D MOVZWL MBX_IOSB, R0
                                    04 00030 RET
                                    28 0000' CF 91 00031 2$: CMPB ACP_MAIL, #40
                                    CF 12 00036 BNEQ 1$
                                    12 02 A2 B1 00038 CMPW MBX_IOSB+2, #18

```

```

: 0364
: 0421
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: 0430
: 0432
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: 0438
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: 0440

```

GETREQ  
V04-000

M 14  
15-Sep-1984 23:36:36 YAX-11 Bliss-32 V4.0-742  
14-Sep-1984 11:54:33 [BADBLK.SRC]GETREQ.B32;1

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|    |    |       |       |      |        |
|----|----|-------|-------|------|--------|
| 50 | C9 | 12    | 0003C | BNEQ | 1\$    |
|    | 01 | D0    | 0003E | MOVL | #1, R0 |
|    | 04 | 00041 | 3\$:  | RET  |        |

:  
: 0442  
: 0445

; Routine Size: 66 bytes, Routine Base: \$CODE\$ + 00A6



```

: 455      0446 1 GLOBAL ROUTINE RESTORE_CHANNEL:NOVALUE=
: 456      0447 1
: 457      0448 1 !++
: 458      0449 1 FUNCTIONAL DESCRIPTION:
: 459      0450 1
: 460      0451 1 ROUTINE RESTORES THE UCB ADDRESS FO THE SYSSDISK INTO
: 461      0452 1 THE ACCESSED CCB AND $DASSGN'S BOTH OPEN CHANNELS
: 462      0453 1
: 463      0454 1 FORMAL PARAMETERS:
: 464      0455 1
: 465      0456 1 NONE
: 466      0457 1
: 467      0458 1 IMPLICIT INPUTS:
: 468      0459 1
: 469      0460 1 CHANNEL: SYSSDISK CHANNEL
: 470      0461 1 MBX_CHANNEL: CHANNEL NUMBER TO F11ACP
: 471      0462 1
: 472      0463 1 IMPLICIT OUTPUTS:
: 473      0464 1
: 474      0465 1 NONE
: 475      0466 1
: 476      0467 1 ROUTINE VALUE:
: 477      0468 1 COMPLETION CODES:
: 478      0469 1
: 479      0470 1 NONE
: 480      0471 1
: 481      0472 1 SIDE EFFECTS:
: 482      0473 1
: 483      0474 1 NONE
: 484      0475 1
: 485      0476 1 !--
: 486      0477 1
: 487      0478 2 BEGIN
: 488      0479 2 !++
: 489      0480 2 !PUT OLD UCB ADDRESS BACK INTO CCB
: 490      0481 2 !--
: 491      0482 2
: 492      0483 2 ACP_MAIL[BBSSL_UCB]=.OLD_UCB;
: 493      0484 2 $CMKRNL(ROUTIN=SET_UCB);
: 494      0485 2
: 495      0486 2 !++
: 496      0487 2 !DE-ASSIGN BOTH ACTIVE CHANNELS
: 497      0488 2 !--
: 498      0489 2 $DASSGN(CHAN=.CHANNEL);
: 499      0490 2 $DASSGN(CHAN=.MBX_CHANNEL); !CLEAR MAILBOX CHANNEL
: 500      0491 1 END;

```

|           |    |           |             |        |                          |        |
|-----------|----|-----------|-------------|--------|--------------------------|--------|
|           |    |           | 0004 0000   | .ENTRY | RESTORE_CHANNEL, Save R2 | : 0446 |
|           | 52 | 00000000G | 00 9E 00002 | MOVAB  | SYSSDASSGN, R2           | : 0483 |
| 0000'     | CF | 0000'     | CF D0 00009 | MOVL   | OLD_UCB, ACP_MAIL+8      | : 0484 |
|           |    |           | 7E D4 00010 | CLRL   | -(SP)                    | :      |
|           |    | FF5B      | CF 9F 00012 | PUSHAB | SET_UCB                  | :      |
| 00000000G | 00 |           | 02 FB 00016 | CALLS  | #2, -SYSSCMKRNL          | :      |

GETREQ  
V04-000

8 15  
15-Sep-1984 23:36:36 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 11:54:33 [BADBLK.SRC]GETREQ.B32;1

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|    |       |    |    |       |        |                    |   |      |
|----|-------|----|----|-------|--------|--------------------|---|------|
| 7E | 0000' | CF | 3' | 0001D | MOVZWL | CHANNEL, -(SP)     | : | 0489 |
| 62 |       | 01 | FB | 00022 | CALLS  | #1, SYSSDASSGN     | : |      |
| 7E | 0000' | CF | 3C | 00025 | MOVZWL | MBX_CHANNEL, -(SP) | : | 0490 |
| 62 |       | 01 | FB | 0002A | CALLS  | #1, SYSSDASSGN     | : |      |
|    |       |    | 04 | 0002D | RET    |                    | : | 0491 |

; Routine Size: 46 bytes, Routine Base: \$CODE\$ + 00E8

GETREQ  
V04-000

C 15  
15-Sep-1984 23:36:36  
14-Sep-1984 11:54:33

VAX-11 Bliss-32 V4.0-742  
[BADBLK.SRC]GETREQ.B32;1

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: 503 0492 1 END  
: 504 0493 0 ELUDOM

PSECT SUMMARY

| Name      | Bytes | Attributes   |
|-----------|-------|--|
| \$GLOBALS | 34    | NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)   |
| \$SPLITS  | 40    | NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2) |
| \$CODES   | 278   | NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)   |
| \$OWNS    | 8     | NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)   |

Library Statistics

| File                            | Total | Symbols Loaded | Percent | Pages Mapped | Processing Time |
|---------------------------------|-------|----------------|---------|--------------|-----------------|
| _\$255\$DUA28:[SYSLIB]LIB.L32;1 | 18619 | 13             | 0       | 1000         | 00:01.9         |

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:GETREQ/OBJ=OBJ\$:GETREQ MSRC\$:GETREQ/UPDATE=(ENH\$:GETREQ)

: Size: 278 code + 82 data bytes  
: Run Time: 00:09.2  
: Elapsed Time: 00:15.5  
: Lines/CPU Min: 3215  
: Lexemes/CPU-Min: 14060  
: Memory Used: 71 pages  
: Compilation Complete

0018 AH-BT13A-SE  
VAX/VMS V4.0

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