

FFFFFFFFFFFFFFFF	111	111	AAAAAAAAA	
FFFFFFFFFFFFFFFF	111	111	AAAAAAAAA	
FFFFFFFFFFFFFFFF	111	111	AAAAAAAAA	
FFF	111111	111111	AAA	AAA
FFF	111111	111111	AAA	AAA
FFF	111111	111111	AAA	AAA
FFF	111	111	AAA	AAA
FFF	111	111	AAA	AAA
FFF	111	111	AAA	AAA
FFFFFFFFFFFFFF	111	111	AAA	AAA
FFFFFFFFFFFFFF	111	111	AAA	AAA
FFFFFFFFFFFFFF	111	111	AAA	AAA
FFF	111	111	AAAAAAAAAAAAAAAA	
FFF	111	111	AAAAAAAAAAAAAAAA	
FFF	111	111	AAAAAAAAAAAAAAAA	
FFF	111	111	AAA	AAA
FFF	111	111	AAA	AAA
FFF	111	111	AAA	AAA
FFF	111	111	AAA	AAA
FFF	111111111	111111111	AAA	AAA
FFF	111111111	111111111	AAA	AAA
FFF	111111111	111111111	AAA	AAA


```
0001 0 MODULE GETREQ (
0002 0     LANGUAGE (BLISS32),
0003 0     IDENT = 'V04-000'
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1
0008 1 *****
0009 1 *
0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0027 1 *
0028 1 *****
0029 1
0030 1
0031 1 ++
0032 1
0033 1 FACILITY: F11ACP Structure Level 1
0034 1
0035 1 ABSTRACT:
0036 1
0037 1     This routine gets the next I/O request from the ACP queue.
0038 1     If no requests are queued, it hibernates.
0039 1
0040 1 ENVIRONMENT:
0041 1
0042 1     STARLET operating system, including privileged system services
0043 1     and internal exec routines. This routine must be called
0044 1     in kernel mode.
0045 1
0046 1 --
0047 1
0048 1
0049 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 19-Dec-1976 17:26
0050 1
0051 1 MODIFIED BY:
0052 1
0053 1     V03-002 LMP0221 L. Mark Pilant, 27-Mar-1984 13:13
0054 1     Change UCBSL_OWNUIC to ORBSL_OWNER and UCBSW_VPROT to
0055 1     ORBSW_PROT.
0056 1
0057 1     V03-001 ACG0408 Andrew C. Goldstein, 20-Mar-1984 16:37
```

GETREQ
V04-000

H 12
16-Sep-1984 01:06:24
14-Sep-1984 12:29:37

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[F11A.SRC]GETREQ.B32;1 Page 2 (1)

```
: 58      0058 1  | Reduce size of LOCAL_ARB
: 59      0059 1  |
: 60      0060 1  | V02-004 ACG38100      Andrew C. Goldstein, 3-Jun-1981 11:45
: 61      0061 1  |      Fix granting of SYSPRV to volume owner
: 62      0062 1  |
: 63      0063 1  | V02-003 ACG0167      Andrew C. Goldstein, 7-May-1980 18:50
: 64      0064 1  |      Previous revision history moved to F11A.REV
: 65      0065 1  | **
: 66      0066 1  |
: 67      0067 1  |
: 68      0068 1  | LIBRARY 'SYSS$LIBRARY:LIB.L32';
: 69      0069 1  | REQUIRE 'SRC$:FCPDEF.B32';
: 70      0384 1  |
: 71      0385 1  |
: 72      0386 1  | FORWARD ROUTINE
: 73      0387 1  | GET_REQUEST,      ! get next FCP request
: 74      0388 1  | GET_CCB;          ! get address of CCB of channel
```



```
76 0389 1 GLOBAL ROUTINE GET_REQUEST =
77 0390 1
78 0391 1 !++
79 0392 1
80 0393 1 FUNCTIONAL DESCRIPTION:
81 0394 1
82 0395 1     This routine gets the next I/O request from the ACP queue.
83 0396 1     If no requests are queued, it hibernates.
84 0397 1
85 0398 1 CALLING SEQUENCE:
86 0399 1     GET_REQUEST ()
87 0400 1
88 0401 1 INPUT PARAMETERS:
89 0402 1     NONE
90 0403 1
91 0404 1 IMPLICIT INPUTS:
92 0405 1     QUEUE_HEAD: address of ACP queue block
93 0406 1     IO_CHANNEL: I/O channel number
94 0407 1
95 0408 1 OUTPUT PARAMETERS:
96 0409 1     NONE
97 0410 1
98 0411 1 IMPLICIT OUTPUTS:
99 0412 1     CURRENT_UCB: address of UCB of request
100 0413 1     CURRENT_VCB: address of VCB of request
101 0414 1     CURRENT_WINDOW: window of file if accessed
102 0415 1     PRIMARY_FCB: FCB of file if accessed
103 0416 1
104 0417 1 ROUTINE VALUE:
105 0418 1     address of request I/O packet
106 0419 1
107 0420 1 SIDE EFFECTS:
108 0421 1     I/O channel assigned to device of request
109 0422 1
110 0423 1 !--
111 0424 1
112 0425 2 BEGIN
113 0426 2
114 0427 2 ! Note that the ACP queue header must be referenced through an explicit
115 0428 2 ! register. This is to ensure that the REMQUE expression in fact produces
116 0429 2 ! an single REMQUE instruction, and is not broken into an instruction
117 0430 2 ! sequence that is not interlocked.
118 0431 2
119 0432 2 REGISTER
120 0433 2     QUEUE_POINTER    : REF BBLOCK;
121 0434 2
122 0435 2 LOCAL
123 0436 2     P                : REF BBLOCK,    ! pointer to chase AQB list
124 0437 2     CCB              : REF BBLOCK,    ! pointer to CCB of i/o channel
125 0438 2     ORB              : REF BBLOCK,    ! Pointer to ORB from UCB
126 0439 2     ABD              : REF BBLOCKVECTOR [ABD$C_LENGTH],
127 0440 2     !                : pointer to buffer descriptor packet
128 0441 2     PACKET            : REF BBLOCK;    ! address of new I/O packet
129 0442 2
130 0443 2 EXTERNAL
131 0444 2     CLEANUP_FLAGS     : BITVECTOR,    ! cleanup action flags
132 0445 2     QUEUE_HEAD        : REF BBLOCK,    ! ACP queue list head
```

```
133 0446      DISK_UCB      : REF BBLOCK,      ! UCB of device 'SYS$DISK'
134 0447      CURRENT_UCB  : REF BBLOCK,      ! address of current UCB
135 0448      CURRENT_VCB  : REF BBLOCK,      ! address of current VCB
136 0449      CURRENT_WINDOW : REF BBLOCK,      ! address of file window
137 0450      PRIMARY_FCB   : REF BBLOCK,      ! address of file FCB
138 0451      LOCAL_ARB     : BBLOCK,          ! local copy of caller's ARB
139 0452      IO_CHANNEL    : BBLOCK,          ! channel for all I/O
140 0453      EXESGL_SYSUIC  : ADDRESSING_MODE (ABSOLUTE), ! highest SYSTEM UIC
141 0454      IOCSGL_AQBLIST : REF BBLOCK ADDRESSING_MODE (ABSOLUTE); ! system AQB listhead
142 0455
143 0456
144 0457
145 0458      EXTERNAL ROUTINE
146 0459      LOCK_IODB,      ! interlock system I/O database
147 0460      UNLOCK_IODB,    ! unlock system I/O database
148 0461      DEALLOCATE;    ! deallocate system dynamic memory
149 0462
150 0463      ! Attempt to dequeue a packet. If unsuccessful, hibernate and try again.
151 0464
152 0465
153 0466      WHILE 1 DO
154 0467      BEGIN
155 0468          QUEUE_POINTER = .QUEUE_HEAD;
156 0469          IF NOT REMQUE (.QUEUE_POINTER[AQBSL_ACPQFL], PACKET)
157 0470          THEN EXITLOOP;
158 0471
159 0472          IF .QUEUE_POINTER[AQBSB_MNTCNT] EQL 0
160 0473          THEN
161 0474
162 0475      ! If the REMQUE failed and the mount count in the AQB is zero, this ACP is
163 0476      ! potentially idle. Interlock the I/O database and check the queue and the
164 0477      ! count again. If the ACP is no longer idle, proceed as if nothing had happened.
165 0478      ! If it still is, unhook the AQB from the system AQB list. Once unhooked, the
166 0479      ! ACP can no longer be found by anyone. Then restore the original UCB of our
167 0480      ! I/O channel, deassign the channel, and go away.
168 0481
169 0482
170 0483      BEGIN
171 0484      LOCK_IODB ();
172 0485      IF .QUEUE_POINTER[AQBSB_MNTCNT] EQL 0
173 0486      AND .QUEUE_POINTER[AQBSL_ACPQFL] EQL QUEUE_POINTER[AQBSL_ACPQFL]
174 0487      THEN
175 0488      BEGIN
176 0489          P = .IOCSGL_AQBLIST;
177 0490          IF .P EQL .QUEUE_POINTER
178 0491          THEN IOCSGL_AQBLIST = .QUEUE_POINTER[AQBSL_LINK]
179 0492          ELSE
180 0493      BEGIN
181 0494          UNTIL .P[AQBSL_LINK] EQL .QUEUE_POINTER
182 0495          DO P = .P[AQBSL_LINK];
183 0496          P[AQBSL_LINK] = .QUEUE_POINTER[AQBSL_LINK];
184 0497          END;
185 0498      UNLOCK_IODB ();
186 0499      DEALLOCATE (.QUEUE_POINTER);
187 0500      CCB = GET_CCB (.IO_CHANNEL);
188 0501      CCB[CCBSL_UCB] = .DISK_UCB;
189 0502      $DASSGN (CHAN = .IO_CHANNEL);
```



```
190 0503 5          $DELPRC ();
191 0504 5          END
192 0505 4          ELSE
193 0506 4          UNLOCK_IODB ();
194 0507 4          END;
195 0508
196 0509          $HIBER;
197 0510          END;
198 0511          ! end of ACP wait loop
199 0512          ! First check the type code in the packet.
200 0513          !
201 0514          !
202 0515          IF .PACKET[IRPSB_TYPE] NEQ DYN$C_IRP
203 0516          THEN BUG_CHECK (NOTIRPAQB, FATAL, 'Not IRP pointer in AQB');
204 0517          !
205 0518          ! Set up the UCB and VCB pointers and assign the I/O channel to the UCB.
206 0519          ! Check the type codes on all packets and control blocks.
207 0520          !
208 0521          !
209 0522          CURRENT_UCB = .PACKET[IRPSL_UCB];
210 0523          IF .CURRENT_UCB[UCBSB_TYPE] NEQ DYN$C_UCB
211 0524          THEN BUG_CHECK (NOTUCBIRP, FATAL, 'Not UCB pointer in IRP');
212 0525          !
213 0526          CURRENT_VCB = .CURRENT_UCB[UCBSL_VCB];
214 0527          IF .CURRENT_VCB[VCBSB_TYPE] NEQ DYN$C_VCB
215 0528          THEN BUG_CHECK (NOTVCBUCB, FATAL, 'Not VCB pointer in UCB');
216 0529          !
217 0530          CCB = GET_CCB (.IO_CHANNEL);
218 0531          CCB[CCBSL_UCB] = .CURRENT_UCB;
219 0532          ORB = .CURRENT_UCB[UCBSL_ORB];
220 0533          ! and assign it by stuffing UCB
221 0534          ! Get the window and FCB addresses if there is a file open on the channel.
222 0535          ! If the low bit of the window pointer is on, ignore the pointer (deaccess pending).
223 0536          !
224 0537          !
225 0538          CURRENT_WINDOW = .PACKET[IRPSL_WIND];
226 0539          IF .(PACKET[IRPSL_WIND])<0,1>
227 0540          THEN CURRENT_WINDOW = 0;
228 0541          IF .(PACKET[IRPSL_WIND])<1,2> NEQ 0
229 0542          THEN BUG_CHECK (BADWCBPT, FATAL, 'Bad WCB pointer in IRP');
230 0543          !
231 0544          IF .CURRENT_WINDOW NEQ 0
232 0545          THEN
233 0546          BEGIN
234 0547          IF .CURRENT_WINDOW[WCBSB_TYPE] NEQ DYN$C_WCB
235 0548          THEN BUG_CHECK (NOTWCBIRP, FATAL, 'Not WCB Pointer in IRP');
236 0549          !
237 0550          IF .CURRENT_WINDOW[WCBSV_NOTFCP]
238 0551          THEN BUG_CHECK (NOTFCPWCB, FATAL, 'Not FCP window in IRP');
239 0552          !
240 0553          PRIMARY_FCB = .CURRENT_WINDOW[WCBSL_FCB];
241 0554          IF .PRIMARY_FCB[FCBSB_TYPE] NEQ DYN$C_FCB
242 0555          THEN BUG_CHECK (NOTFCBWCB, FATAL, 'Bad FCB pointer in window');
243 0556          END;
244 0557          !
245 0558          ! If this is a normal file processor request (as opposed to a window turn),
246 0559          ! clear the byte count in the descriptor for the channel window
```

```
247 0560 2 ! pointer to inhibit write-back. Also zero out the result string and
248 0561 2 ! length buffers. Set the spool file bit is this is I/O to a spool file.
249 0562 2 ! This is denoted for ACP functions by noting that IRP$L_UCB is different
250 0563 2 ! from IRP$L_MEDIA (the latter containing the spooled device UCB address.
251 0564 2 !
252 0565 2 !
253 0566 2 IF .PACKET[IRP$V_COMPLX]
254 0567 2 THEN
255 0568 2 BEGIN
256 0569 2 ABD = .BBLOCK [.PACKET[IRP$L_SWAPTE], AIB$L_DESCRIPTOR];
257 0570 2 ABD[ABD$C_WINDOW, ABD$W_COUNT] = 0;
258 0571 2 IF .PACKET[IRP$L_UCB] NEQ .PACKET[IRP$L_MEDIA]
259 0572 2 THEN CLEANUP_FLAGS[CLF_SPOOLFILE] = 1;
260 0573 2 END
261 0574 2 !
262 0575 2 ! If there is no buffer packet, the function must be an ACP control function.
263 0576 2 !
264 0577 2 !
265 0578 2 ELSE
266 0579 2 BEGIN
267 0580 2 IF .PACKET[IRP$V_FCODE] GTRU IOS_LOGICAL
268 0581 2 AND .PACKET[IRP$V_FCODE] NEQ IOS_ACPCONTROL
269 0582 2 THEN BUG_CHECK (NOBUF_PCKT, FATAL, 'Required buffer packet not present');
270 0583 2 END;
271 0584 2 !
272 0585 2 ! Set the system privilege flag bit, based on the caller's UIC and
273 0586 2 ! privileges.
274 0587 2 !
275 0588 2 !
276 0589 2 CHSMOVE (ARB$C_HEADER, .PACKET[IRP$L_ARB], LOCAL_ARB);
277 0590 2 IF .BBLOCK [LOCAL_ARB[ARB$Q_PRIV], PRV$V_SYSPRV]
278 0591 2 OR .BBLOCK [LOCAL_ARB[ARB$Q_PRIV], PRV$V_BYPASS]
279 0592 2 OR .(LOCAL_ARB[ARB$L_UIC]) < T6,16 > LEQU .EXE$GL_SYSUIC
280 0593 2 OR .LOCAL_ARB[ARB$L_OIC] EQL .ORB[ORB$L_OWNER]
281 0594 2 THEN
282 0595 2 BEGIN
283 0596 2 CLEANUP_FLAGS[CLF_SYSPRV] = 1;
284 0597 2 BBLOCK [LOCAL_ARB[ARB$Q_PRIV], PRV$V_SYSPRV] = 1;
285 0598 2 END;
286 0599 2 !
287 0600 2 RETURN .PACKET;
288 0601 2 !
289 0602 1 END;
```

! end of routine GETREQ

```
.TITLE GETREQ
.IDENT \V04-000\

.EXTRN CLEANUP_FLAGS, QUEUE_HEAD
.EXTRN DISK_UCB, CURRENT_UCB
.EXTRN CURRENT_VCB, CURRENT_WINDOW
.EXTRN PRIMARY_FCB, LOCAL_ARB
.EXTRN IO_CHANNEL, EXE$GL_SYSUIC
.EXTRN IO$GL_AQBLIST, LOCK_IODB
.EXTRN UNLOCK_IODB, DEALLOCATE
.EXTRN SYSSDASSGN, SYSSDELPRC
.EXTRN SYSSHIBER, BUG$NOTIRPAQB
```



```

                                OFFC 00000
                                1$:
5B      0000G CF 9E 00002
5A      0000 0000G 9F 9E 00007
59      0000G CF 9E 0000E
58      0000G CF 9E 00013
52      0000G CF D0 00018
56      00      B2 0F 0001D
              77 1C 00021
              54 D4 00023
              0B A2 95 00025
              66 12 00028
              54 D6 0002A
0000G CF 00 FB 0002C
57      54 E9 00031
52      62 D1 00034
              52 12 00037
53      6A D0 00039
52      53 D1 0003C
              06 12 0003F
6A      10 A2 D0 00041
              11 11 00045
52      10 A3 D1 00047 2$:
              06 13 0004B
53      10 A3 D0 0004D
              F4 11 00051
10      A3 10 A2 D0 00053 3$:
0000G CF 00 FB 00058 4$:
              52 DD 0005D
0000G CF 01 FB 0005F
              0000G CF DD 00064
0000V CF 01 FB 00068
55      50 D0 0006D
65      0000G CF D0 00070
              0000G CF DD 00075
00000000G 00 01 FB 00079
              7E 7C 00080
00000000G 00 02 FB 00082
              05 11 00089
0000G CF 00 FB 0008B 5$:
00000000G 00 00 FB 00090 6$:
              FF 7E 31 00097
0A      0A A6 91 0009A 7$:
              04 13 0009E
              FEFF 000A0
              0000* 000A2
6B      1C A6 D0 000A4 8$:
50      6B D0 000A8
10      0A A0 91 000AB
              04 13 000AF

.EXTRN BUGS_NOTUCBIRP, BUGS_NOTVCBUCB
.EXTRN BUGS_BADWCBIRP, BUGS_NOTWCBIRP
.EXTRN BUGS_NOTFCPWCB, BUGS_NOTFCBWCB
.EXTRN BUGS_NOBUFPCKT

.PSECT $CODE$,NOWRT,2

.ENTRY GET_REQUEST, Save R2,R3,R4,R5,R6,R7,R8,R9,- : 0389
R10,R11
MOVAB CURRENT_UCB, R11
MOVAB @#IOC$GL_AQBLIST, R10
MOVAB CURRENT_WINDOW, R9
MOVAB LOCAL_ARB, R8
MOVL QUEUE_HEAD, QUEUE_POINTER
REMQUE @0(QUEUE_POINTER), PACKET
BVC 7$
CLRL R4
TSTB 11(QUEUE_POINTER)
BNEQ 6$
INCL R4
CALLS #0, LOCK_IODB
BLBC R4, 5$
CMPL (QUEUE_POINTER), QUEUE_POINTER
BNEQ 5$
MOVL IOC$GL_AQBLIST, P
CMPL P, QUEUE_POINTER
BNEQ 2$
MOVL 16(QUEUE_POINTER), IOC$GL_AQBLIST
BRB 4$
CMPL 16(P), QUEUE_POINTER
BEQL 3$
MOVL 16(P), P
BRB 2$
MOVL 16(QUEUE_POINTER), 16(P)
CALLS #0, UNLOCK_IODB
PUSHL QUEUE_POINTER
CALLS #1, DEALLOCATE
PUSHL IO_CHANNEL
CALLS #1, GET_CCB
MOVL R0, CCB
MOVL DISK_UCB, (CCB)
PUSHL IO_CHANNEL
CALLS #1, SYSSDASSGN
CLRQ -(SP)
CALLS #2, SYSSDELPRC
BRB 6$
CALLS #0, UNLOCK_IODB
CALLS #0, SYSSHIBER
BRW 1$
CMPB 10(PACKET), #10
BEQL 8$
BUGW
.WORD <BUGS_NOTIRPAQB!4>
MOVL 28(PACKET), CURRENT_UCB
MOVL CURRENT_UCB, R0
CMPB 10(R0), #16
BEQL 9$
0468
0469
0472
0484
0485
0486
0489
0490
0491
0494
0495
0496
0498
0499
0500
0501
0502
0503
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0466
0515
0516
0522
0523
```

				FEFF 000B1	BUGW		0524
				0000* 000B3	.WORD	<BUG\$ NOTUCBIRP!4>	
	50			6B D0 000B5 9\$:	MOVL	CURRENT_UCB, R0	0526
0000G	CF	34		A0 D0 000B8	MOVL	52(R0), -CURRENT_VCB	
	50	0000G		CF D0 000BE	MOVL	CURRENT_VCB, R0	0527
	11	0A		A0 91 000C3	CMPB	10(R0), -#17	
				04 13 000C7	BEQL	10\$	
				FEFF 000C9	BUGW		0528
				0000* 000CB	.WORD	<BUG\$ NOTVCBUCB!4>	
		0000G		CF DD 000CD 10\$:	PUSHL	IO_CHANNEL	0530
0000V	CF			01 FB 000D1	CALLS	#1, GET_CCB	
	55			50 D0 000D6	MOVL	R0, CCB	
	50			6B D0 000D9	MOVL	CURRENT_UCB, R0	0531
	65			50 D0 000DC	MOVL	R0, (CCB)	
	57	1C		A0 D0 000DF	MOVL	28(R0), ORB	0532
	69	18		A6 D0 000E3	MOVL	24(PACKET), CURRENT_WINDOW	0538
	02	18		A6 E9 000E7	BLBC	24(PACKET), 11\$	0539
				69 D4 000EB	CLRL	CURRENT_WINDOW	0540
	06	18		A6 93 000ED 11\$:	BITB	24(PACKET), #6	0541
				04 13 000F1	BEQL	12\$	
				FEFF 000F3	BUGW		0542
				0000* 000F5	.WORD	<BUG\$ BADWCBPT!4>	
	50			69 D0 000F7 12\$:	MOVL	CURRENT_WINDOW, R0	0544
				2E 13 000FA	BEQL	15\$	
	12	0A		A0 91 000FC	CMPB	10(R0), #18	0547
				04 13 00100	BEQL	13\$	
				FEFF 00102	BUGW		0548
				0000* 00104	.WORD	<BUG\$ NOTWCBIRP!4>	
	50			69 D0 00106 13\$:	MOVL	CURRENT_WINDOW, R0	0550
04	0B	A0		02 E1 00109	BBC	#2, 11(R0), 14\$	
				FEFF 0010E	BUGW		0551
				0000* 00110	.WORD	<BUG\$ NOTFCPWCB!4>	
	50			69 D0 00112 14\$:	MOVL	CURRENT_WINDOW, R0	0553
0000G	CF	18		A0 D0 00115	MOVL	24(R0), -PRIMARY_FCB	
	50	0000G		CF D0 0011B	MOVL	PRIMARY_FCB, R0	0554
	07	0A		A0 91 00120	CMPB	10(R0), -#7	
				04 13 00124	BEQL	15\$	
				FEFF 00126	BUGW		0555
				0000* 00128	.WORD	<BUG\$ NOTFCBWCB!4>	
16	2A	A6		03 E1 0012A 15\$:	BBC	#3, 42(PACKET), 16\$	0566
	50			B6 D0 0012F	MOVL	24(PACKET), ABD	0569
		2C		A0 B4 00133	CLRW	2(ABD)	0570
	38	A6		A6 D1 00136	CMPL	28(PACKET), 56(PACKET)	0571
		1C		1C 13 0013B	BEQL	17\$	
0000G	CF	80		8F 88 0013D	BISB2	#128, CLEANUP_FLAGS	0572
				14 11 00143	BRB	17\$	0566
2F	20	A6		00 ED 00145 16\$:	CMPZV	#0, #6, 32(PACKET), #47	0580
				0C 1B 0014B	BLEQU	17\$	
38	20	A6		00 ED 0014D	CMPZV	#0, #6, 32(PACKET), #56	0581
				04 13 00153	BEQL	17\$	
				FEFF 00155	BUGW		0582
				0000* 00157	.WORD	<BUG\$ NOBUFPCKT!4>	
	68	58	B6	30 28 00159 17\$:	MOV C3	#48, 388(PACKET), LOCAL_ARB	0589
	17	03	A8	04 E0 0015E	BBS	#4, LOCAL_ARB+3, 18\$	0590
	12	03	A8	05 E0 00163	BBS	#5, LOCAL_ARB+3, 18\$	0591
00000000G	9F	3A	A8	00 ED 00168	CMPZV	#0, #16, LOCAL_ARB+58, @#EXESGL_SYSUIC	0592
			10	06 1B 00172	BLEQU	18\$	

GETREQ
V04-000

B 13
16-Sep-1984 01:06:24
14-Sep-1984 12:29:37

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0000G	CF	67	38	A8	D1	00174	CMPL	LOCAL_ARB+56, (ORB)	:	0593
03	A8			09	12	00178	BNEQ	19\$	:	
	50			01	88	0017A	BISB2	#1, CLEANUP_FLAGS+1	:	0596
				10	88	0017F	BISB2	#16, LOCAL_ARB+3	:	0597
				56	D0	00183	MOVL	PACKET, R0	:	0600
				04	00186		RET		:	0602

; Routine Size: 391 bytes, Routine Base: \$CODE\$ + 0000

```
291 0603 1 GLOBAL ROUTINE GET_CCB (CHANNEL) =
292 0604 1
293 0605 1 ++
294 0606 1
295 0607 1 FUNCTIONAL DESCRIPTION:
296 0608 1
297 0609 1 This routine returns the address of the channel control block
298 0610 1 associated with the given channel.
299 0611 1
300 0612 1
301 0613 1 CALLING SEQUENCE:
302 0614 1 GET_CCB (ARG1)
303 0615 1
304 0616 1 INPUT PARAMETERS:
305 0617 1 ARG1: channel number
306 0618 1
307 0619 1 IMPLICIT INPUTS:
308 0620 1 NONE
309 0621 1
310 0622 1 OUTPUT PARAMETERS:
311 0623 1 NONE
312 0624 1
313 0625 1 IMPLICIT OUTPUTS:
314 0626 1 NONE
315 0627 1
316 0628 1 ROUTINE VALUE:
317 0629 1 address of CCB
318 0630 1
319 0631 1 SIDE EFFECTS:
320 0632 1 NONE
321 0633 1
322 0634 1 --
323 0635 1
324 0636 1
325 0637 2 BEGIN
326 0638 2
327 0639 2 LINKAGE
328 0640 2 L_VERIFYCHAN = JSB (REGISTER = 0) :
329 0641 2 GLOBAL (CCB = 1)
330 0642 2 NOPRESERVE (2, 3, 4, 5);
331 0643 2
332 0644 2 GLOBAL REGISTER
333 0645 2 CCB = 1 : REF BBLOCK; ! CCB address returned
334 0646 2
335 0647 2 LOCAL
336 0648 2 STATUS, ! status of system call
337 0649 2 CCB_BASE : REF BBLOCK; ! other copy of CCB address, due to
338 0650 2 ! faulty flow analysis in BLISS
339 0651 2
340 0652 2 EXTERNAL ROUTINE
341 0653 2 IOC$VERIFYCHAN : L_VERIFYCHAN ADDRESSING_MODE (ABSOLUTE);
342 0654 2 ! exec routine to find CCB
343 0655 2
344 0656 2 STATUS = IOC$VERIFYCHAN (.CHANNEL);
345 0657 2 CCB_BASE = .CCB;
346 0658 2 IF NOT .STATUS
347 0659 2 THEN BUG_CHECK (INVCHAN, FATAL, 'Invalid ACP channel number');
```


GETREQ
V04-000

D 13
16-Sep-1984 01:06:24
14-Sep-1984 12:29:37

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[F11A.SRC]GETREQ.B32;1
Page 11
(3)

: 348
: 349
: 350
: 351
0660 2
0661 2 RETURN .CCB_BASE;
0662 2
0663 1 END;

! end of routine GET_CCB

OFFC 00000
50 04 AC D0 00002
04 00000000G 9F 16 00006
50 E8 0000C
FEFF 0000F
0000* 00011
50 51 D0 00013 1\$:
04 00016

.EXTRN IOC\$VERIFYCHAN, BUG\$_INVCHAN
.ENTRY GET_CCB, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,- ; 0603
R11
MOVL CHANNEL, R0 ; 0656
JSB @#IOC\$VERIFYCHAN
BLBS STATUS, 1\$; 0658
BUGW ; 0659
.WORD <BUG\$_INVCHAN!4>
MOVL CCB_BASE, R0 ; 0661
RET ; 0663

; Routine Size: 23 bytes, Routine Base: \$CODE\$ + 0187

: 352
: 353
: 354
0664 1
0665 1 END
0666 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	414	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_255\$DUA28:[SYSLIB]LIB.L32;1	18619	43	0	1000	00:01.9

COMMAND QUALIFIERS

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

E 13
16-Sep-1984 01:06:24

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```

; Size:          414 code + 0 data bytes
; Run Time:      00:12.2
; Elapsed Time:  00:32.8
; Lines/CPU Min: 3264
; Lexemes/CPU-Min: 17343
; Memory Used:   161 pages
; Compilation Complete

```


0165 AH-BT13A-SE
VAX/VMS V4.0

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