

FFFFFFFFFF	111	111	111	XXX
FFFFFFFFFF	111	111	111	XXX
FFFFFFFFFF	111	111	111	XXX
FFF	111111	111111	111111	XXX
FFF	111111	111111	111111	XXX
FFF	111111	111111	111111	XXX
FFF	111	111	111	XXX
FFF	111	111	111	XXX
FFF	111	111	111	XXX
FFFFFFFFFF	111	111	111	XXX
FFFFFFFFFF	111	111	111	XXX
FFFFFFFFFF	111	111	111	XXX
FFF	111	111	111	XXX
FFF	111	111	111	XXX
FFF	111	111	111	XXX
FFF	111	111	111	XXX
FFF	111	111	111	XXX
FFF	111	111	111	XXX
FFF	111	111	111	XXX
FFF	111111111	111111111	111111111	XXX
FFF	111111111	111111111	111111111	XXX
FFF	111111111	111111111	111111111	XXX

\*\*FILE\*\*ID\*\*GETFIB

K 11

GGGGGGGG GGGGGGGG EEEEEEEEEE TTTTTTTTTT FFFFFFFFFF I||||| BBBBBBBB  
GGGGGGGG GGGGGGGG EEEEEEEEEE TTTTTTTTTT FFFFFFFFFF I||||| BBBBBBBB  
GGGGGGGG GGGGGGGG EEE EE TTT FF I||| BBBBBBBB BB  
GGGGGGGG GGGGGGGG EEE EE TTT FF I||| BBBBBBBB BB  
GGGGGGGG GGGGGGGG EEE EE TTT FF I||| BBBBBBBB BB  
GGGGGGGG GGGGGGGG EEE EE TTT FFFFFFFF I||| BBBBBBBB  
GGGGGGGG GGGGGGGG EEE EE TTT FFFFFFFF I||| BBBBBBBB  
GGGGGGGG GGGGGGGG EE EE TTT FF I||| BBBBBBBB BB  
GGGGGGGG GGGGGGGG GG EE TTT FF I||| BBBBBBBB BB  
GGGGGGGG GGGGGGGG GG EE TTT FF I||| BBBBBBBB BB  
GGGGGGGG GGGGGGGG EEEEEEEEEE TTT FF I||||| BBBBBBBB  
GGGGGGGG GGGGGGGG EEEEEEEEEE TTT FF I||||| BBBBBBBB

LL LL I||||| SSSSSSSS  
LL LL I||| SS SSSSSSSS  
LL LL I||| SS SSSSSS  
LLLLLLLLLL LLLLLLLL I||||| SSSSSSSS SSSSSSSS

GE1  
V04

```
1 0001 0 MODULE GETFIB (
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 *
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27 0027 1 *
28 0028 1 *
29 0029 1 ****
30 0030 1
31 0031 1 ++
32 0032 1
33 0033 1 FACILITY: F11ACP Structure Level 2
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1 This routine obtains the address of the FIB for this operation.
38 0038 1
39 0039 1 ENVIRONMENT:
40 0040 1
41 0041 1 STARLET operating system, including privileged system services
42 0042 1 and internal exec routines.
43 0043 1 --
44 0044 1
45 0045 1
46 0046 1
47 0047 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 7-Jan-1977 01:02
48 0048 1
49 0049 1 MODIFIED BY:
50 0050 1
51 0051 1 V03-005 LMP0219 L. Mark Pilant, 24-Mar-1984 23:15
52 0052 1 Preset FIBSL_ACL_STATUS to SSS_NORMAL.
53 0053 1
54 0054 1 V03-004 ACG0408 Andrew C. Goldstein, 20-Mar-1984 17:49
55 0055 1 Make APPLY_RVN and DEFAULT_RVN macros
56 0056 1
57 0057 1 V03-003 CDS0002 Christian D. Saether 18-Jan-1984
```

58 0058 1 | Modify interface to APPLY\_RVN.  
59 0059 1 |  
60 0060 1 | V03-002 CDS0001 Christian D. Saether 30-Dec-1983  
61 0061 1 | Use L\_NORM linkage and BIND\_COMMON macro.  
62 0062 1 |  
63 0063 1 | V03-001 ACG0358 Andrew C. Goldstein, 15-Sep-1983 11:44  
64 0064 1 | Remove -1,-1 DID conversion to MFD  
65 0065 1 |  
66 0066 1 | V02-005 ACG0238 Andrew C. Goldstein, 10-Dec-1981 14:31  
67 0067 1 | Allow dummy file ID of -1,-1,-1  
68 0068 1 |  
69 0069 1 | V02-004 STJ34965 Steven T. Jeffreys, 28-Feb-1981  
70 0070 1 | Temporary fix to clear FIB\$V\_NOCHARGE bit to prevent  
71 0071 1 | users from bypassing diskquota charging.  
72 0072 1 |  
73 0073 1 | V02-003 ACG0167 Andrew C. Goldstein, 10-Oct-1978 20:00  
74 0074 1 | Previous revision history moved to [F11B.SRC]F11B.REV  
75 0075 1 | \*\*  
76 0076 1 |  
77 0077 1 |  
78 0078 1 LIBRARY 'SYSSLIBRARY:LIB.L32';  
79 0079 1 REQUIRE 'SRC\$:FCPDEF.B32';

```
81      1070 1 GLOBAL ROUTINE GET_FIB (ABD) : L_NORM =
82      1071 1
83      1072 1 ++
84      1073 1
85      1074 1 FUNCTIONAL DESCRIPTION:
86      1075 1
87      1076 1 This routine obtains the address of the FIB for this operation.
88      1077 1 It copies the FIB from the buffer packet into local storage
89      1078 1 and zero extends it to maximum length.
90      1079 1
91      1080 1 CALLING SEQUENCE:
92      1081 1     GET_FIB (ARG1)
93      1082 1
94      1083 1 INPUT PARAMETERS:
95      1084 1     ARG1: buffer descriptor list
96      1085 1
97      1086 1 IMPLICIT INPUTS:
98      1087 1     CURRENT_WINDOW: address of user's window or 0
99      1088 1     IO_PACKET: address of user's I/O packet
100     1089 1
101     1090 1 OUTPUT PARAMETERS:
102     1091 1     NONE
103     1092 1
104     1093 1 IMPLICIT OUTPUTS:
105     1094 1     NONE
106     1095 1
107     1096 1 ROUTINE VALUE:
108     1097 1     address of FIB
109     1098 1
110     1099 1 SIDE EFFECTS:
111     1100 1     file ID may be written into FIB
112     1101 1     channel window pointer write-back inhibited
113     1102 1     result string buffers zeroed
114     1103 1
115     1104 1 ---
116     1105 1
117     1106 2 BEGIN
118     1107 2
119     1108 2 MAP
120     1109 2     ABD          : REF BBLOCKVECTOR [,ABD$C_LENGTH];
121     1110 2                  ! buffer descriptors
122
123     1112 2 LOCAL
124     1113 2     FCB          : REF BBLOCK,    ! FCB of file
125     1114 2     FIBL;        ! length of user FIB
126
127     1116 2 BIND_COMMON;
128
129     1118 2
130     1119 2     Get the length of the user-supplied FIB. If there is a window,
131     1120 2     and there is no user FIB, use the file ID from
132     1121 2     the window's FCB. Also use the FCB's file ID if the file number
133     1122 2     in the user FIB is zero.
134     1123 2
135     1124 2
136     1125 2     FIBL = .ABD[ABD$C_FIB, ABD$W_COUNT];
137     1126 2
```

```
138 1127 2 CH$COPY (.FIBL,  
139 1128 2     .ABD[ABD$C_FIB, ABD$W_TEXT] + ABD[ABD$C_FIB, ABD$W_TEXT] + 1,  
140 1129 2     0  
141 1130 2     FIB$C_LENGTH,  
142 1131 2     LOCAL_FIB);  
143 1132 2 CURRENT_FIB = LOCAL_FIB;  
144 1133 2  
145 1134 2 LOCAL_FIB[FIB$L_ACL_STATUS] = SSS_NORMAL;           ! Preset to success  
146 1135 2  
147 1136 2 ! If a non-zero directory ID is present, signal its presence in the  
148 1137 2 ! cleanup flags.  
149 1138 2  
150 1139 2  
151 1140 2 IF .LOCAL_FIB[FIB$W_DID_NUM] NEQ 0  
152 1141 2 OR .LOCAL_FIB[FIB$W_DID_RVN] NEQ 0  
153 1142 2 THEN  
154 1143 3 BEGIN  
155 1144 3     CLEANUP_FLAGS[CLF_DIRECTORY] = 1;  
156 1145 3     APPLY_RVN (LOCAL_FIB[FIB$W_DID_RVN], .CURRENT_RVN);  
157 1146 2 END;  
158 1147 2  
159 1148 2 IF .CURRENT_WINDOW NEQ 0  
160 1149 2 THEN  
161 1150 3 BEGIN  
162 1151 3     FCB = .CURRENT_WINDOW[WCB$L_FCB];  
163 1152 3     IF .LOCAL_FIB[FIB$W_FID_NUM] EQL 0  
164 1153 3     AND .LOCAL_FIB[FIB$W_FID_RVN] EQL 0  
165 1154 3     THEN CH$MOVE (FIB$S_FID, -FCB[FCB$W_FID], LOCAL_FIB[FIB$W_FID]);  
166 1155 2 END;  
167 1156 2  
168 1157 2 ! Default the RVN in the file ID to the RVN of the directory file, if given;  
169 1158 2 ! else default to the current RVN.  
170 1159 2  
171 1160 2  
172 1161 2 IF .LOCAL_FIB[FIB$B_FID_RVN] EQL 0  
173 1162 2 THEN LOCAL_FIB[FIB$B_FID_RVN] = .LOCAL_FIB[FIB$B_DID_RVN];  
174 1163 2 APPLY_RVN (LOCAL_FIB[FIB$W_FID_RVN], .CURRENT_RVN);  
175 1164 2  
176 1165 2 ! If the file ID in the FIB does not match that in the FCB, this operation  
177 1166 2 is not on the open file; clear the FCB and window addresses (except in  
178 1167 2 the case of a DEACCESS, in which we force the file ID to that of the open  
179 1168 2 file and signal an error).  
180 1169 2  
181 1170 2  
182 1171 2 IF .CURRENT_WINDOW NEQ 0  
183 1172 2 THEN  
184 1173 3 BEGIN  
185 1174 3     IF .LOCAL_FIB[FIB$W_FID_NUM] NEQ .FCB[FCB$W_FID_NUM]  
186 1175 3     OR .LOCAL_FIB[FIB$W_FID_RVN] NEQ .FCB[FCB$W_FID_RVN]  
187 1176 3 THEN  
188 1177 4 BEGIN  
189 1178 4     IF .IO_PACKET[IRPS$V_FCODE] EQL IO$_DEACCESS  
190 1179 4 THEN  
191 1180 5 BEGIN  
192 1181 5     CH$MOVE (FIB$S_FID, FCB[FCB$W_FID], LOCAL_FIB[FIB$W_FID]);  
193 1182 5     ERR_STATUS (SSS_BADPARAM);  
194 1183 5 END
```

.TITLE GETFB  
.IDENT \V04-000\

.PSECT SCODE\$,NOWRT,2

0040	8F	00	01	A140	01FC	00000	.ENTRY	GET_FIB, Save R2,R3,R4,R5,R6,R7,R8	1070	
			56	0204	CA	9E 00002	MOVAB	516(BASE), R6	1114	
			50	04	AC	DD 00007	MOVL	ABD, R0	1125	
			58	0A	A0	3C 0000B	MOVZWL	10(R0), FIBL	1128	
			51	08	A0	9E 0000F	MOVAB	8(R0), R1	1128	
			50		61	3C 00013	MOVZWL	(R1), R0	1128	
					58	2C 00016	MOVCS	FIBL, 1(R1)[R0], #0, #64, (R6)	1127	
					66	0001F				
			10	AA	56	D0 00020	MOVL	R6, 16(BASE)	1132	
			34	A6	01	D0 00024	MOVL	#1, 52(R6)	1134	
					0A	A6 B5 00028	TSTW	10(R6)	1140	
					05	12 0002B	BNEQ	1\$		
					OE	A6 B5 0002D	TSTW	14(R6)	1141	
					1C	13 00030	BEQL	3\$		
			6A		40	8F 00032	1\$: BISB2	#64, (BASE)	1144	
					OE	A6 95 00036	TSTB	14(R6)	1145	
					05	12 00039	BNEQ	2\$		
			OE	A6	A0	AA 0003B	MOVAB	-96(BASE), 14(R6)		
				01	OE	A6 91 00040	2\$: CMPB	14(R6), #1		
					08	12 00044	BNEQ	3\$		
					A0	AA D5 00046	TSTL	-96(BASE)		
					03	12 00049	BNEQ	3\$		

; Routine Size: 218 bytes, Routine Base: \$CODES + 0000

: 221 1210 1  
: 222 1211 1 END  
: 223 1212 0 ELUDOM

GETFIB  
V04-000

E 12  
16-Sep-1984 00:32:18    VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 12:30:28    DISK\$VMSMASTER:[F11X.SRC]GETFIB.B32;1 Page 7  
(2)

GETFIB  
V04-

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	218	NOVEC,NOWRT, RD , EXE,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	42	0	1000	00:01.9

COMMAND QUALIFIERS

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

Size: 218 code + 0 data bytes  
Run Time: 00:18.3  
Elapsed Time: 00:37.0  
Lines/CPU Min: 3984  
Lexemes/CPU-Min: 49673  
Memory Used: 237 pages  
Compilation Complete

0170 AH-BT13A-SE  
VAX/VMS V4.0

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