





```

1 0001 0 MODULE EXTIDX (
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 extends the volume's index file.
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: 14-Apr-1977 10:44
48 0048 1
49 0049 1 MODIFIED BY:
50 0050 1
51 0051 1 V03-006 ACG0438 Andrew C. Goldstein, 2-Aug-1984 11:54
52 0052 1 Add check of index file bitmap size to max files check
53 0053 1
54 0054 1 V03-005 CDS0003 Christian D. Saether 25-Apr-1984
55 0055 1 Long addressing mode for certain external routines.
56 0056 1
57 0057 1 V03-004 ACG0409 Andrew C. Goldstein, 21-Mar-1984 21:58

```

; Rc

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58 0058 1 Remove file number parameter; set index file EOF to end.
59 0059 1
60 0060 1 V03-003 CDS0002 Christian D. Saether 30-Dec-1983
61 0061 1 Use L_NORM linkage and BIND_COMMON macro.
62 0062 1
63 0063 1 V03-002 CDS0001 Christian D. Saether 20-Sep-1983
64 0064 1 Serialize reading of index file header.
65 0065 1 Stuff FH2$L_HIGHWATER if appropriate.
66 0066 1
67 0067 1 V03-001 ACG0274 Andrew C. Goldstein, 23-Mar-1982 11:25
68 0068 1 Allow use of alternate index file header
69 0069 1
70 0070 1 V02-002 STJ34965 Steven T. Jeffreys, 28-Feb-1981
71 0071 1 Temporary fix to set FIBSV_NOCHARGE bit for the
72 0072 1 index file, so that it will not be charged for diskquota.
73 0073 1
74 0074 1 B0101 ACG0121 Andrew C. Goldstein, 16-Jan-1980 21:39
75 0075 1 Make context save and restore into subroutines
76 0076 1
77 0077 1 B0100 ACG0001 Andrew C. Goldstein, 10-Oct-1978 20:00
78 0078 1 Previous revision history moved to [F11B.SRC]F11B.REV
79 0079 1 **
80 0080 1
81 0081 1
82 0082 1 LIBRARY 'SYS$LIBRARY:LIB.L32';
83 0083 1 REQUIRE 'SRC$:FCPDEF.B32';
```

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85 1074 1 GLOBAL ROUTINE EXTEND_INDEX : L_NORM NOVALUE =
86 1075 1
87 1076 1 ++
88 1077 1
89 1078 1 FUNCTIONAL DESCRIPTION:
90 1079 1
91 1080 1     This routine extends the volume's index file.
92 1081 1
93 1082 1 CALLING SEQUENCE:
94 1083 1     EXTEND_INDEX ( )
95 1084 1
96 1085 1 INPUT PARAMETERS:
97 1086 1     NONE
98 1087 1
99 1088 1 IMPLICIT INPUTS:
100 1089 1     CURRENT_VCB: address of volume VCB
101 1090 1
102 1091 1 OUTPUT PARAMETERS:
103 1092 1     NONE
104 1093 1
105 1094 1 IMPLICIT OUTPUTS:
106 1095 1     NONE
107 1096 1
108 1097 1 ROUTINE VALUE:
109 1098 1     NONE
110 1099 1
111 1100 1 SIDE EFFECTS:
112 1101 1     index file extended, index file window and index file FCB modified
113 1102 1
114 1103 1 --
115 1104 1
116 1105 2 BEGIN
117 1106 2
118 1107 2 LOCAL
119 1108 2     MAX_FILES,           : max number of files on volume
120 1109 2     FILESIZE,           : size of index file after extend.
121 1110 2     FIB                  : REF BBLOCK, address of FIB for extend operation
122 1111 2     HEADER               : REF BBLOCK, address of index file header
123 1112 2     FCB                  : REF BBLOCK, address of index file FCB
124 1113 2     WINDOW               : REF BBLOCK, address of index file window
125 1114 2     FREE_POINTERS,      : number of free retrieval pointers
126 1115 2                       : in index file window
127 1116 2     FILES_TO_GO,        : number of files likely to be created
128 1117 2                       : on this volume
129 1118 2     BLOCKS_NEEDED;      : amount to extend index file by
130 1119 2
131 1120 2 BIND_COMMON;
132 1121 2
133 1122 2 EXTERNAL ROUTINE
134 1123 2     SERIAL_FILE         : L_NORM,
135 1124 2     RELEASE_SERIAL_LOCK : L_NORM,
136 1125 2     SAVE_CONTEXT        : L_NORM, save reentrant context area
137 1126 2     RESTORE_CONTEXT     : L_NORM, restore reentrant context area
138 1127 2     READ_IDX_HEADER    : L_NORM, read index file header
139 1128 2     TURN_WINDOW        : L_NORM ADDRESSING_MODE (GENERAL), ! update file window
140 1129 2     EXTEND              : L_NORM, extend a file
141 1130 2     CHECKSUM            : L_NORM, compute file header checksum

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: R

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142 1131 2 WRITE_HEADER : L_NORM, : write back file header
143 1132 2 RESET_LBN : L_NORM, : reassign LBN of buffer
144 1133 2 WRITE_BLOCK : L_NORM, : write a disk block
145 1134 2 INVALIDATE : L_NORM, : invalidate buffer
146 1135 2 INIT_FCB2 : L_NORM; : update file control block
147 1136 2
148 1137 2
149 1138 2 ! Extending the index file is a secondary operation, so we must save away the
150 1139 2 ! primary context, and then set up the appropriate context for this operation.
151 1140 2 !
152 1141 2
153 1142 2 SAVE_CONTEXT ();
154 1143 2 FIB = SECOND FIB;
155 1144 2 CH$FILL (0, FIB$C_LENGTH, .FIB);
156 1145 2 FIB[FIB$W_FID_NUM] = 1;
157 1146 2 FIB[FIB$W_FID_SEQ] = 1;
158 1147 2
159 1148 2 PRIMARY_FCB = FCB = .CURRENT_VCB[VCB$C_FCBFL];
160 1149 2 CURRENT_WINDOW = WINDOW = .FCB[FCB$C_W[FL]];
161 1150 2
162 1151 2 ! Serialize on the index file header.
163 1152 2 !
164 1153 2
165 1154 2 PRIM_LCKINDX = SERIAL_FILE (FIB [FIB$W_FID]);
166 1155 2
167 1156 2 ! Read the index file header.
168 1157 2 !
169 1158 2
170 1159 2 HEADER = READ_IDX_HEADER ();
171 1160 2
172 1161 2 ! Turn the index file window to VBN 3. Then compute the number of free
173 1162 2 ! retrieval pointers in the index file window, discounting pointers (if
174 1163 2 ! any) that only map the boot and home block.
175 1164 2 !
176 1165 2
177 1166 2 KERNEL_CALL (TURN_WINDOW, .WINDOW, .HEADER, 3, 1);
178 1167 2
179 1168 2 FREE_POINTERS = (.WINDOW[WCBSW_SIZE]-WCBS$C_LENGTH)/6 - .WINDOW[WCBSW_NMAP];
180 1169 2 IF .WINDOW[WCBSL_STVBN] + .WINDOW[WCBSW_P1_COUNT] LEQ 3
181 1170 2 THEN
182 1171 2 BEGIN
183 1172 2 FREE_POINTERS = .FREE_POINTERS + 1;
184 1173 2 IF .WINDOW[WCBSL_STVBN] + .WINDOW[WCBSW_P1_COUNT] + .WINDOW[WCBSW_P2_COUNT] LEQ 3
185 1174 2 THEN FREE_POINTERS = .FREE_POINTERS + 1;
186 1175 2 END;
187 1176 2 IF .FREE_POINTERS LEQ 0 THEN FREE_POINTERS = 1;
188 1177 2
189 1178 2 ! Check the amount of index file (as determined by max files and the
190 1179 2 ! size of the index file bitmap).
191 1180 2 !
192 1181 2
193 1182 2 MAX_FILES = MINU (.CURRENT_VCB[VCB$C_MAXFILES], .CURRENT_VCB[VCBSB_IBMAPSIZE] * 4096);
194 1183 2 FILES_TO_GO = .MAX_FILES - .FCB[FCB$C_FILESIZE]
195 1184 2 + .CURRENT_VCB[VCBSB_IBMAPSIZE] + .CURRENT_VCB[VCBSW_CLUSTER]*4;
196 1185 2 IF .FILES_TO_GO LEQ 0
197 1186 2 THEN ERR_EXIT (SS$IDXFILEFULL);
198 1187 2
```

```
199 1188 2 ! Compute the number of files likely to still be created on the volume. This
200 1189 2 ! is the minimum of the number permitted minus the current number and a
201 1190 2 ! fraction of the number of free blocks on the volume. The amount to extend
202 1191 2 ! the index file by is this quantity divided by the number of available
203 1192 2 ! retrieval pointers in the index file window.
204 1193 2 !
205 1194 2
206 1195 2 FILES_TO_GO = MINU (.FILES_TO_GO,
207 1196 2 .CURRENT_VCB[VCBSL_FREE] / .CURRENT_VCB[VCBSW_CLUSTER] / 4);
208 1197 2
209 1198 2 BLOCKS_NEEDED = MINU (.FILES_TO_GO / .FREE_POINTERS, 1000);
210 1199 2
211 1200 2 ! Build the extend control in the FIB and call the EXTEND routine.
212 1201 2 !
213 1202 2
214 1203 2 FIB[FIBSL_EXSZ] = .BLOCKS_NEEDED;
215 1204 2 FIB[FIBSV_ALCON] = 1;
216 1205 2 FIB[FIBSV_ALCONB] = 1;
217 1206 2 FIB[FIBSV_ALDEF] = 1;
218 1207 2 FIB[FIBSV_NOHDREXT] = 1;
219 1208 2
220 1209 2 ! Set NOCHARGE bit so the index file will not be charged for diskquota.
221 1210 2 !
222 1211 2 FIB [FIBSV_NOCHARGE] = 1;
223 1212 2
224 1213 2 EXTEND (.FIB, .HEADER);
225 1214 2
226 1215 2 FILESIZE = .FIB[FIBSL_EXSZ] + .FIB[FIBSL_EXVBN] - 1;
227 1216 2 BBLOCK [HEADER[FH2$W_RECATTR], FAT$HIBLK] = ROT (.FILESIZE, 16);
228 1217 2 ! IF NOT .CURRENT_VCB[VCBSV_NOHIGHWATER]
229 1218 2 THEN BBLOCK [HEADER[FH2$W_RECATTR], FAT$EFBLK] = ROT (.FILESIZE+1, 16);
230 1219 2
231 1220 2 ! If this file header supports it, stuff the high water field to
232 1221 2 ! be the allocated size.
233 1222 2 !
234 1223 2
235 1224 2 IF .HEADER [FH2$B_IDOFFSET] GEQU ($BYTEOFFSET (FH2$L_HIGHWATER)+4)/2
236 1225 2 THEN
237 1226 2 .HEADER [FH2$L_HIGHWATER] = .FILESIZE + 1;
238 1227 2
239 1228 2 ! Now write the header, update the FCB, and restore the primary context.
240 1229 2 !
241 1230 2
242 1231 2 CHECKSUM (.HEADER);
243 1232 2 WRITE_HEADER ();
244 1233 2 RESET_LBN (.HEADER, .CURRENT_VCB[VCBSL_IHDR2LBN]);
245 1234 2 WRITE_BLOCK (.HEADER);
246 1235 2 INVALIDATE (.HEADER);
247 1236 2 KERNEL_CALL (INIT_FCB2, .FCB, .HEADER);
248 1237 2
249 1238 2 RELEASE_SERIAL_LOCK (.PRIM_LCKINDX);
250 1239 2 PRIM_LCKINDX = 0;
251 1240 2
252 1241 2 RESTORE_CONTEXT ();
253 1242 2 USER_STATUS[1] = 0;
254 1243 2
255 1244 1 END; ! end of routine EXTEND_INDEX
```

: 2

: R

				.TITLE	EXTIDX		
				.IDENT	\V04-000\		
				.EXTRN	SERIAL FILE, RELEASE SERIAL LOCK		
				.EXTRN	SAVE_CONTEXT, RESTORE_CONTEXT		
				.EXTRN	READ_IDX_HEADER		
				.EXTRN	TURN_WINDOW, EXTEND		
				.EXTRN	CHECKSUM, WRITE_HEADER		
				.EXTRN	RESET_LBN, WRITE_BLOCK		
				.EXTRN	INVALIDATE, INIT_FCB2		
				.PSECT	\$CODE\$,NOWRT,2		
				.ENTRY	EXTEND_INDEX, Save R2,R3,R4,R5,R6,R7,R8	:	1074
0040	8F	00		MOVAB	-128(BASE), R8	:	1118
			0000G	MOVAB	-104(BASE), R7	:	
				CALLS	#0, SAVE_CONTEXT	:	1142
				MOVAB	580(BASE), FIB	:	1143
				MOVCS	#0, (SP), #0, #64, (FIB)	:	1144
						:	
			04	MOVL	#65537, 4(FIB)	:	1145
				MOVL	@0(R7), FCB	:	1148
			08	MOVL	FCB, 8(BASE)	:	
				MOVL	16(FCB), WINDOW	:	1149
			0C	MOVL	WINDOW, 12(BASE)	:	
				PUSHAB	4(FIB)	:	1154
			0000G	CALLS	#1, SERIAL_FILE	:	
			18	MOVL	R0, 24(BASE)	:	
			0000G	CALLS	#0, READ_IDX_HEADER	:	1159
				MOVL	R0, HEADER	:	
				PUSHL	#1	:	1166
				PUSHL	#3	:	
			00000000G	PUSHR	#*M<R2,R3>	:	
				CALLS	#4, TURN_WINDOW	:	
			50	MOVZWL	8(WINDOW), R0	:	1168
			50	SUBL2	#48, R0	:	
			50	DIVL2	#6, R0	:	
			55	MOVZWL	22(WINDOW), FREE_POINTERS	:	
55			50	SUBL3	FREE_POINTERS, R0, FREE_POINTERS	:	1169
			50	MOVZWL	48(WINDOW), R0	:	
			50	ADDL2	44(WINDOW), R0	:	
			03	CML	R0, #3	:	
				BGTRU	1\$	:	
			55	INCL	FREE_POINTERS	:	1172
			50	MOVZWL	48(WINDOW), R0	:	1173
			50	ADDL2	44(WINDOW), R0	:	
			51	MOVZWL	54(WINDOW), R1	:	
			50	ADDL2	R1, R0	:	
			03	CML	R0, #3	:	
				BGTRU	1\$	:	
			55	INCL	FREE_POINTERS	:	1174
			55	TSTL	FREE_POINTERS	:	1176
			03	BGTR	2\$	:	
			55	MOVL	#1, FREE_POINTERS	:	
			50	MOVL	(R7), R0	:	1182



51		51	38	A0	9A	00096	MOVZBL	56(R0), R1	
		51		0C	78	0009A	ASHL	#12, R1, R1	
		50	44	A0	D0	0009E	MOVL	68(R0), R0	
		51		50	D1	000A2	CMPL	R0, R1	
				03	1B	000A5	BLEQU	3\$	
		50		51	D0	000A7	MOVL	R1, R0	
		50	38	A4	C2	000AA	SUBL2	56(FCB), R0	1183
		51		67	D0	000AE	MOVL	(R7), R1	1184
		52	38	A1	9A	000B1	MOVZBL	56(R1), R2	
		52		50	C0	000B5	ADDL2	R0, R2	
		50	3C	A1	3C	000B8	MOVZWL	60(R1), R0	
		50		6240	DE	000BC	MOVAL	(R2)[R0], FILES_TO_GO	
				05	14	000C0	BGTR	4\$	1185
			08D0	8F	BF	000C2	CHMU	#2256	1186
					04	000C6	RET		
		51		67	D0	000C7	MOVL	(R7), R1	1196
51	40	52	3C	A1	3C	0C0CA	MOVZWL	60(R1), R2	
		A1		52	C7	000CE	DIVL3	R2, 64(R1), R1	
		51		04	C6	000D3	DIVL2	#4, R1	
		52		50	D0	000D6	MOVL	FILES_TO_GO, R2	
		51		52	D1	000D9	CMPL	R2, R1	
				03	1B	000DC	BLEQU	5\$	
		52		51	D0	000DE	MOVL	R1, R2	
		50		52	D0	000E1	MOVL	R2, FILES_TO_GO	1195
		50		55	C6	000E4	DIVL2	FREE_POINTERS, R0	1198
	000003E8	8F		50	D1	000E7	CMPL	R0, #1000	
				05	1B	000EE	BLEQU	6\$	
		50	03E8	8F	3C	000F0	MOVZWL	#1000, R0	
	18	A6		50	D0	000F5	MOVL	BLOCKS_NEEDED, 24(FIB)	1203
	16	A6	820B	8F	A8	000F9	BISW2	#33291, 22(FIB)	1211
				53	DD	000FF	PUSHL	HEADER	1213
				56	DD	00101	PUSHL	FIB	
	0000G	CF		02	FB	00103	CALLS	#2, EXTEND	
56	18	A6	1C	A6	C1	00108	ADDL3	28(FIB), 24(FIB), R6	1215
				56	D7	0010E	DECL	FILESIZE	
18	A3	56		10	9C	00110	ROTL	#16, FILESIZE, 24(HEADER)	1216
		50		67	D0	00115	MOVL	(R7), R0	1217
	09	53		04	E0	00118	BBS	#4, 83(R0), 7\$	
		50	01	A6	9E	0011D	MOVAB	1(R6), R0	1218
1C	A3	50		10	9C	00121	ROTL	#16, R0, 28(HEADER)	
		28		63	91	00126	CMPB	(HEADER), #40	1224
				05	1F	00129	BLSSU	8\$	
	4C	A3	01	A6	9E	0012B	MOVAB	1(R6), 76(HEADER)	1226
				53	DD	00130	PUSHL	HEADER	1231
	0000G	CF		01	FB	00132	CALLS	#1, CHECKSUM	
	0000G	CF		00	FB	00137	CALLS	#0, WRITE_HEADER	1232
		50		67	D0	0013C	MOVL	(R7), R0	1233
			2C	A0	DD	0013F	PUSHL	44(R0)	
				53	DD	00142	PUSHL	HEADER	
	0000G	CF		02	FB	00144	CALLS	#2, RESET_LBN	
				53	DD	00149	PUSHL	HEADER	1234
	0000G	CF		01	FB	0014B	CALLS	#1, WRITE_BLOCK	
				53	DD	00150	PUSHL	HEADER	1235
	0000G	CF		01	FB	00152	CALLS	#1, INVALIDATE	
				53	DD	00157	PUSHL	HEADER	1236
				54	DD	00'59	PUSHL	FCB	
	0000G	CF		02	FB	0015B	CALLS	#2, INIT_FCB2	

EXTIDX  
V04-000

L 7  
16-Sep-1984 00:27:54  
14-Sep-1984 12:30:24

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[F11X.SRC]EXTIDX.B32;1

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(2)

FIL  
V04

0000G	CF	18	AA	DD	00160	PUSHL	24(BASE)	:	1238
			01	FB	00163	CALLS	#1, RELEASE_SERIAL_LOCK	:	
0000G	CF	18	AA	D4	00168	CLRL	24(BASE)	:	1239
			00	FB	0016B	CALLS	#0, RESTORE_CONTEXT	:	1241
		04	A8	D4	00170	CLRL	4(R8)	:	1242
			04	00173		RET		:	1244

: Routine Size: 372 bytes, Routine Base: \$CODE\$ + 0000

```

: 256      1245 1
: 257      1246 1 END
: 258      1247 0 ELUDOM

```

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	372	NOVEC,NOWRT, RD, EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	Symbols		Pages Mapped	Processing Time
	Total	Loaded Percent		
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	49 0	1000	00:01.9

COMMAND QUALIFIERS

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

```

: Size:          372 code + 0 data bytes
: Run Time:      00:20.0
: Elapsed Time: 00:38.7
: Lines/CPU Min: 3746
: Lexemes/CPU-Min: 45989
: Memory Used: 260 pages
: Compilation Complete

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Thumbnail 1	Thumbnail 2	Thumbnail 3	Thumbnail 4	Thumbnail 5	Thumbnail 6	Thumbnail 7	Thumbnail 8	Thumbnail 9	Thumbnail 10
Thumbnail 11	Thumbnail 12	Thumbnail 13	Thumbnail 14	Thumbnail 15	Thumbnail 16	Thumbnail 17	Thumbnail 18	Thumbnail 19	Thumbnail 20
Thumbnail 21	Thumbnail 22	Thumbnail 23	Thumbnail 24	Thumbnail 25	Thumbnail 26	Thumbnail 27	Thumbnail 28	Thumbnail 29	Thumbnail 30
Thumbnail 31	Thumbnail 32	Thumbnail 33	Thumbnail 34	Thumbnail 35	Thumbnail 36	Thumbnail 37	Thumbnail 38	Thumbnail 39	Thumbnail 40
Thumbnail 41	Thumbnail 42	Thumbnail 43	Thumbnail 44	Thumbnail 45	Thumbnail 46	Thumbnail 47	Thumbnail 48	Thumbnail 49	Thumbnail 50
Thumbnail 51	Thumbnail 52	Thumbnail 53	Thumbnail 54	Thumbnail 55	Thumbnail 56	Thumbnail 57	Thumbnail 58	Thumbnail 59	Thumbnail 60
Thumbnail 61	Thumbnail 62	Thumbnail 63	Thumbnail 64	Thumbnail 65	Thumbnail 66	Thumbnail 67	Thumbnail 68	Thumbnail 69	Thumbnail 70
Thumbnail 71	Thumbnail 72	Thumbnail 73	Thumbnail 74	Thumbnail 75	Thumbnail 76	Thumbnail 77	Thumbnail 78	Thumbnail 79	Thumbnail 80
Thumbnail 81	Thumbnail 82	Thumbnail 83	Thumbnail 84	Thumbnail 85	Thumbnail 86	Thumbnail 87	Thumbnail 88	Thumbnail 89	Thumbnail 90
Thumbnail 91	Thumbnail 92	Thumbnail 93	Thumbnail 94	Thumbnail 95	Thumbnail 96	Thumbnail 97	Thumbnail 98	Thumbnail 99	Thumbnail 100