



```
MM      MM      000000  DDDDDDDD  IIIIII  FFFFFFFF  YY      YY
MM      MM      000000  DDDDDDDD  IIIIII  FFFFFFFF  YY      YY
MMMM    MMMM    00      00  DD      DD      II      FF      YY      YY
MMMM    MMMM    00      00  DD      DD      II      FF      YY      YY
MM      MM      00      00  DD      DD      II      FF      YY      YY
MM      MM      00      00  DD      DD      II      FF      YY      YY
MM      MM      00      00  DD      DD      II      FF      YY      YY
MM      MM      00      00  DD      DD      II      FF      YY      YY
MM      MM      00      00  DD      DD      II      FF      YY      YY
MM      MM      00      00  DD      DD      II      FF      YY      YY
MM      MM      00      00  DD      DD      II      FF      YY      YY
MM      MM      00      00  DD      DD      II      FF      YY      YY
MM      MM      00      00  DD      DD      II      FF      YY      YY
MM      MM      00      00  DD      DD      II      FF      YY      YY
MM      MM      00      00  DD      DD      II      FF      YY      YY
MM      MM      00      00  DD      DD      II      FF      YY      YY
MM      MM      000000  DDDDDDDD  IIIIII  FF      YY      YY
MM      MM      000000  DDDDDDDD  IIIIII  FF      YY      YY
                                         ....
                                         ....
                                         ....
                                         ....
```

```
LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      IIIIII  SSSSSSSS
LLLLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLLLL IIIIII  SSSSSSSS
```

```

1 0001 0 MODULE MODIFY (
2 0002 0
3 0003 0     LANGUAGE (BLISS32),
4 0004 0     IDENT = 'V04-001'
5 0005 1 BEGIN
6 0006 1
7 0007 1
8 0008 1
9 0009 1
10 0010 1 * *****
11 0011 1 *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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27 0027 1 *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
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 implements the MODIFY function.
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: 6-Jan-1977 23:03
48 0048 1
49 0049 1 MODIFIED BY:
50 0050 1
51 0051 1     V04-001 ACG65998 Andrew C. Goldstein, 6-Sep-1984 15:33
52 0052 1     Checksum file header after setting revision date
53 0053 1
54 0054 1     V03-014 CDS0007 Christian D. Saether 14-Aug-1984
55 0055 1     Modify handling of extension fcbs.
56 0056 1
57 0057 1     V03-013 CDS0006 Christian D. Saether 22-Apr-1984

```

```

58 0058 1 Modify access arbitration.
59 0059 1
60 0060 1 V03-012 ACG0412 Andrew C. Goldstein, 22-Mar-1984 18:26
61 0061 1 Implement agent access mode support; add access mode to
62 0062 1 protection check call
63 0063 1
64 0064 1 V03-011 CDS0005 Christian D. Saether 19-Dec-1983
65 0065 1 Use BIND_COMMON macro to reduce number
66 0066 1 of external COMMON declarations.
67 0067 1
68 0068 1 V03-010 CDS0004 Christian D. Saether 25-Sep-1983
69 0069 1 Modify SERIAL_FILE interface.
70 0070 1
71 0071 1 V03-009 CDS0003 Christian D. Saether 25-Sep-1983
72 0072 1 Manually merge ACG0343, ACG56916.
73 0073 1
74 0074 1 V03-008 ACG0343 Andrew C. Goldstein, 19-Jul-1983 16:44
75 0075 1 Inhibit revision counting if NORECORD is specified
76 0076 1
77 0077 1 V03-007 ACG56916 Andrew C. Goldstein, 21-Jun-1983 14:11
78 0078 1 Update file revision and expiration when modified
79 0079 1
80 0080 1 V03-006 LMP0149 L. Mark Pilant, 13-Sep-1983 11:27
81 0081 1 Correct a logic problem that caused problems during the
82 0082 1 protection check of a write attribute operation.
83 0083 1
84 0084 1 V03-005 CDS0002 Christian D. Saether 4-May-1983
85 0085 1 Add call to SERIAL_FILE to interlock file processing.
86 0086 1
87 0087 1 V03-004 CDS0001 Christian D. Saether 20-Apr-1983
88 0088 1 Changes to arbitrate extend and truncate access
89 0089 1 in a cluster. Truncate now requires exclusive
90 0090 1 access to the file to succeed.
91 0091 1 Change interface to TRUNCATE routine.
92 0092 1
93 0093 1 V03-003 LMP0059 L. Mark Pilant, 21-Dec-1982 11:37
94 0094 1 Always create an FCB for a file header. This eliminates
95 0095 1 a lot of special case FCB handling.
96 0096 1
97 0097 1 V03-002 LMP0036 L. Mark Pilant, 17-Aug-1982 10:15
98 0098 1 Add support for ACL's.
99 0099 1
100 0100 1 V03-001 ACG0282 Andrew C. Goldstein, 6-Apr-1982 16:08
101 0101 1 Check for device write-locked before attempting operations
102 0102 1
103 0103 1 V02-007 ACG0223 Andrew C. Goldstein, 17-Nov-1981 21:49
104 0104 1 Allow modification of directory version limit
105 0105 1
106 0106 1 V02-006 ACG0171 Andrew C. Goldstein, 7-May-1980 18:34
107 0107 1 Condition check of truncate lock count on presence of FCB
108 0108 1
109 0109 1 V02-005 ACG0167 Andrew C. Goldstein, 16-Apr-1980 19:27
110 0110 1 Previous revision history moved to f11B.REV
111 0111 1 **
112 0112 1
113 0113 1
114 0114 1 LIBRARY 'SYS$LIBRARY:LIB.L32';

```

MODIFY  
V04-001

: 115  
: 116

0115 1 REQUIRE 'SRCS:FCPDEF.B32';  
1106 1

12  
~~16-Sep-1984~~ 00:46:29  
14-Sep-1984 12:30:37

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[F11X.SRC]MODIFY.B32;2 Page 3 (1)

MOU  
V04

.....

```

1107 1 GLOBAL ROUTINE MODIFY : L_NORM =
1108 1
1109 1 +-+
1110 1
1111 1 FUNCTIONAL DESCRIPTION:
1112 1
1113 1     This routine implements the MODIFY function.
1114 1
1115 1 CALLING SEQUENCE:
1116 1     MODIFY ( )
1117 1
1118 1 INPUT PARAMETERS:
1119 1     NONE
1120 1
1121 1 IMPLICIT INPUTS:
1122 1     CURRENT_WINDOW: window for file
1123 1     PRIMARY_FCB: FCB of file
1124 1     IO_PACKET: I/O packet in process
1125 1     FICE_HEADER: address of current file header
1126 1
1127 1 OUTPUT PARAMETERS:
1128 1     NONE
1129 1
1130 1 IMPLICIT OUTPUTS:
1131 1     NONE
1132 1
1133 1 ROUTINE VALUE:
1134 1     NONE
1135 1
1136 1 SIDE EFFECTS:
1137 1     file and FCB modified
1138 1
1139 1 --
1140 1
1141 2 BEGIN
1142 2
1143 2 LOCAL
1144 2     FCB_CREATED,          ! flag indicating new FCB created
1145 2     FIND_MODE,          ! mode for FIND call
1146 2     ABD                  : REF BBLOCKVECTOR [ ,ABD$C_LENGTH],
1147 2                          ! buffer descriptors
1148 2     FIB                  : REF BBLOCK,      ! FIB
1149 2     FCB                  : REF BBLOCK,      ! FCB of file
1150 2     HEADER               : REF BBLOCK,      ! file header
1151 2     STATUS:              ! Routine exit status
1152 2
1153 2 BIND_COMMON:
1154 2
1155 2 EXTERNAL ROUTINE
1156 2     REBLD_PRIM_FCB : L_NORM NOVALUE, ! rebuild primary fcb from header
1157 2     BUILD_EXT_FCBS : L_NORM NOVALUE, ! build extension fcb chain.
1158 2     ARBITRATE_ACCESS : [ JSB_2ARGS, ! arbitrate access interlocks.
1159 2     CONV_ACCLOCK    : L_NORM,        ! convert file access lock
1160 2     LOCK_COUNT      : L_NORM,        ! determine number of locks.
1161 2     SERIAL_FILE     : L_NORM,        ! interlock file processing.
1162 2     GET_FIB         : L_NORM,        ! get FIB of request
1163 2     GET_LOC_ATTR    : L_NORM,        ! get placement data from attribute list

```

```

175 1164 2 GET LOC : L_NORM, : get placement data
176 1165 2 FIND : L_NORM, : find name in directory
177 1166 2 SWITCH_VOLUME : L_NORM, : switch context to right volume
178 1167 2 SEARCH_FCB : L_NORM, : search FCB list
179 1168 2 READ_HEADER : L_NORM, : read file header
180 1169 2 CREATE_FCB : L_NORM, : create an FCB
181 1170 2 CHECK_PROTECT : L_NORM, : check file protection
182 1171 2 SET_REVISION : L_NORM, : set file revision end expiration
183 1172 2 WRITE_ATTRIB : L_NORM, : write file attributes
184 1173 2 EXTEND : L_NORM, : extend file
185 1174 2 TRUNCATE : L_NORM, : truncate file
186 1175 2 CHECKSUM : L_NORM, : checksum the file header
187 1176 2 UPDATE_FCB : L_NORM, : rebuild fcb from header
188 1177 2
189 1178 2
190 1179 2 ! First find the buffer descriptor, FIB, FCB, etc., and read the header.
191 1180 2
192 1181 2
193 1182 2 ! pointer to buffer descriptors
194 1183 2 ABD = .BBLOCK [.IO_PACKET[IRP$S_SVAPTE], AIB$S_DESCRIPTOR];
195 1184 2 FIB = GET_FIB (.ABD);
196 1185 2 IF .FIB[FIB$W_VERLIMIT] GTRU 32767
197 1186 2 THEN ERR_EXIT (SS$BADPARAM);
198 1187 2
199 1188 2 IF .FIB[FIB$V_ALLOCATR]
200 1189 2 THEN GET_LOC_ATTR (.ABD, .FIB);
201 1190 2 GET_LOC (.FIB, LOC_RVN, LOC_LBN);
202 1191 2
203 1192 2 ! If a directory ID is present, do a directory search first.
204 1193 2
205 1194 2
206 1195 2 FIND_MODE = 0;
207 1196 2 IF .FIB[FIB$W_VERLIMIT] NEQ 0
208 1197 2 THEN FIND_MODE = 2;
209 1198 2 IF .CLEANOP_FLAGS[CLF_DIRECTORY]
210 1199 2 THEN FIND (.ABD, .FIB, .FIND_MODE);
211 1200 2 SWITCH_VOLUME (.FIB[FIB$W_FID_RVN]);
212 1201 2
213 1202 2 ! If there is a file open on the channel, check the file ID returned by the
214 1203 2 ! FIND against the file ID that is open. If they are different, drop the FCB
215 1204 2 ! and window addresses on the floor.
216 1205 2
217 1206 2
218 1207 2 IF .PRIMARY_FCB NEQ 0
219 1208 2 THEN
220 1209 2 IF .PRIMARY_FCB[FCB$W_FID_NUM] NEQ .FIB[FIB$W_FID_NUM]
221 1210 2 OR .PRIMARY_FCB[FCB$W_FID_RVN] NEQ .FIB[FIB$W_FID_RVN]
222 1211 2 THEN
223 1212 2 BEGIN
224 1213 2 PRIMARY_FCB = 0;
225 1214 2 CURRENT_WINDOW = 0;
226 1215 2 END;
227 1216 2
228 1217 2 ! Synchronize further processing on this FID.
229 1218 2
230 1219 2
231 1220 2 PRIM_LCKINDX = SERIAL_FILE (FIB [FIB$W_FID]);

```

SEARCHED

```

232 1221 2
233 1222 FCB = SEARCH_FCB (FIB[FIB$W_FID]);
234 1223 HEADER = READ_HEADER (FIB[FIB$W_FID], .FCB);
235 1224
236 1225 ! At this point build the necessary FCB list if the file is not accessed.
237 1226 ! This is necessary to allow the ACL to be built.
238 1227
239 1228
240 1229 FCB_CREATED = 0;
241 1230 IF .FCB EQL 0
242 1231 THEN
243 1232 BEGIN
244 1233 FCB_CREATED = 1;
245 1234 FCB = KERNEL_CALL (CREATE_FCB, .HEADER);
246 1235 END;
247 1236 PRIMARY_FCB = FCB; ! Record FCB for external use
248 1237
249 1238 ! If the file is multi-header, read the extension headers and create
250 1239 ! extension FCB's as necessary. Finally, read back the primary header.
251 1240
252 1241
253 1242 IF .FCB_CREATED
254 1243 THEN
255 1244 BUILD_EXT_FCBS (.HEADER)
256 1245 ELSE
257 1246 IF .FCB [FCB$V_STALE]
258 1247 THEN
259 1248 BEGIN
260 1249 REBLD_PRIM_FCB (.FCB, .HEADER);
261 1250
262 1251 BUILD_EXT_FCBS (.HEADER);
263 1252
264 1253 END;
265 1254
266 1255
267 1256 ! Check that the volume is write enabled.
268 1257
269 1258
270 1259 IF .BBLOCK [CURRENT_UCB[UCB$L_DEVCHAR], DEV$V_SWL]
271 1260 THEN ERR_EXIT (SS$_ORITLCK);
272 1261
273 1262 ! Arbitrate access interlocks. If this is the accessor, then the file
274 1263 ! must be write accessed. Count a write to the file.
275 1264
276 1265
277 1266 IF .CURRENT_WINDOW NEQ 0
278 1267 THEN
279 1268 BEGIN
280 1269
281 1270 IF NOT .CURRENT_WINDOW[WCBS$V_WRITE]
282 1271 THEN ERR_EXIT (SS$_NOPRIV);
283 1272
284 1273 IF .FIB [FIB$V_TRUNC]
285 1274 THEN
286 1275 IF .FCB [FCB$W_REFCNT] NEQ 1
287 1276 OR LOCK_COUNT (.FCB [FCB$L_ACCLKID]) NEQ 1
288 1277 THEN

```



```

289 1278 3      ERR_EXIT (SS$_ACCONFLICT);
290 1279 3
291 1280 3      IF NOT .FIB[FIB$_NORECORD]
292 1281 3      THEN
293 1282 3          CURRENT_WINDOW [WCBSL_WRITES] = .CURRENT_WINDOW [WCBSL_WRITES] + 1;
294 1283 3
295 1284 3      END
296 1285 3
297 1286 3      ! If it is not, then the file must not be locked against modification
298 1287 3      ! and the caller must pass file protection. Count a revision to the file.
299 1288 3      !
300 1289 3
301 1290 3      ELSE
302 1291 3      BEGIN
303 1292 3
304 1293 3          IF .FIB [FIB$_EXTEND] OR .FIB [FIB$_TRUNC]
305 1294 3          THEN
306 1295 3              BEGIN
307 1296 3                  LOCAL
308 1297 3                  CURR_LKMODE;
309 1298 3
310 1299 3                  CHECK_PROTECT (WRITE_ACCESS, .HEADER, .FCB,
311 1300 3                      MAXU 7, IO_PACKET[IRP$_MODE], .FIB[FIB$_AGENT_MODE]);
312 1301 3
313 1302 3                  CURR_LKMODE = .FCB [FCB$_ACCLKMODE];
314 1303 3
315 1304 3                  IF .FIB [FIB$_EXTEND]
316 1305 3                  THEN
317 1306 3                      BEGIN
318 1307 3
319 1308 3                          IF .FIB[FIB$_TRUNC]
320 1309 3                          THEN ERR_EXIT (SS$_BADPARAM);
321 1310 3
322 1311 3                          IF NOT ARBITRATE_ACCESS (FIB$_WRITE, .FCB)
323 1312 3                          THEN
324 1313 3                              ERR_EXIT (SS$_ACCONFLICT);
325 1314 3                          END
326 1315 3                      ELSE
327 1316 3
328 1317 3                          ! This is a truncation. Truncation is only allowed if there is no other
329 1318 3                          ! access to the file whatever.
330 1319 3
331 1320 3
332 1321 3                          BEGIN
333 1322 3                          IF NOT ARBITRATE_ACCESS (FIB$_NOREAD, .FCB)
334 1323 3                          THEN
335 1324 3                              ERR_EXIT (SS$_ACCONFLICT);
336 1325 3
337 1326 3                          IF .FCB [FCB$_REFCNT] NEQ 0
338 1327 3                          OR LOCK_COUNT (.FCB [FCB$_ACCLKID]) NEQ 1
339 1328 3                          THEN
340 1329 3                              BEGIN
341 1330 3                                  CONV_ACCLOCK (.CURR_LKMODE, .FCB);
342 1331 3                                  ERR_EXIT (SS$_ACCONFLICT);
343 1332 3                              END;
344 1333 3
345 1334 3      END;          ! of trunc

```

```

346 1335 4
347 1336 4     CONV_ACCLOCK (.CURR_LKMODE, .FCB);
348 1337 4
349 1338 3     END;           ! of trunc or extend
350 1339 3
351 1340 3     IF NOT .FIB[FIB$V_NORECORD]
352 1341 3     THEN
353 1342 4         BEGIN
354 1343 4         SET REVISION (.HEADER, 1);
355 1344 4         CHECKSUM (.HEADER);
356 1345 3         END;
357 1346 2     END;
358 1347 2
359 1348 2     ! If an attribute list exists, perform the write attributes operation.
360 1349 2     !
361 1350 2
362 1351 2     IF .IO_PACKET[IRP$W_BCNT] GTR ABD$C_ATTRIB
363 1352 2     THEN
364 1353 3         BEGIN
365 1354 3         WRITE_ATTRIB (.HEADER, .ABD, 1);
366 1355 3         HEADER = .FILE_HEADER;
367 1356 3         CHECKSUM (.HEADER);
368 1357 2         END;
369 1358 2
370 1359 2     ! If the extend enable bit is on, perform the extend operation.
371 1360 2     ! If the truncate bit is on, perform the truncate operation. If both are
372 1361 2     ! on, it is an error.
373 1362 2     !
374 1363 2
375 1364 3     IF (.FIB[FIB$V_EXTEND] OR .FIB[FIB$V_TRUNC])
376 1365 2     AND .CURRENT_VCB[VCB$V_NOALLOC]
377 1366 2     THEN ERR_EXIT (SS$WRITLCK);
378 1367 2
379 1368 2     IF .FIB[FIB$V_EXTEND]
380 1369 2     THEN
381 1370 3         BEGIN
382 1371 3         EXTEND (.FIB, .HEADER);
383 1372 2         END;
384 1373 2
385 1374 2     IF .FIB[FIB$V_TRUNC]
386 1375 2     THEN
387 1376 2         TRUNCATE (.FIB, .HEADER, .FIB [FIB$L_EXVBN]);
388 1377 2
389 1378 2     HEADER = .FILE_HEADER;
390 1379 2     CHECKSUM (.HEADER);           ! checksum the file header
391 1380 2     UPDATE_FCB (.HEADER);
392 1381 2
393 1382 2     RETURN 1;
394 1383 2
395 1384 1     END;           ! end of routine MODIFY

```

```

.TITLE  MODIFY
.IDENT  \V04-001\

```

```

.EXTRN  REBLD PRIM_FCB, BUILD_EXT_FCBS
.EXTRN  ARBITRATE_ACCESS

```

					.EXTRN CONV ACCLOCK, LOCK COUNT		
					.EXTRN SERIAL_FILE, GET_FIB		
					.EXTRN GET_LOC_ATTR, GET_LOC		
					.EXTRN FIND, SWITCH_VOLUME		
					.EXTRN SEARCH_FCB, READ_HEADER		
					.EXTRN CREATE_FCB, CHECK_PROTECT		
					.EXTRN SET_REVISION, WRITE_ATTRIB		
					.EXTRN EXTEND, TRUNCATE		
					.EXTRN CHECKSUM, UPDATE_FCB		
					.PSECT \$CODE\$,NOWRT,2		
					.ENTRY MODIFY, Save R2,R3,R4,R5,R6,R7	1107	
	57	0000G	CF	9E	00002	MOVAB CHECKSUM, R7	1183
	50		90	AA	D0	MOVL -112(BASE), R0	1184
	56		2C	B0	D0	MOVL @44(R0), ABD	1185
				56	DD	PUSHL ABD	1188
	0000G		CF	01	FB	CALLS #1, GET_FIB	1189
	52			50	D0	MOVL R0, FIB	
	7FFF		8F	2C	A2	CMPW 44(FIB), #32767	1190
				03	1B	BLEQU 1\$	
09	16		A2	0118	31	BRW 17\$	
				04	E1	BBC #4, 22(FIB), 2\$	1195
				52	DD	PUSHL FIB	1196
				56	DD	PUSHL ABD	
	0000G		CF	02	FB	CALLS #2, GET_LOC_ATTR	
				20	AA	PUSHAB 32(BASE)	1197
				1C	AA	PUSHAB 28(BASE)	1198
				52	DD	PUSHL FIB	1199
	0000G		CF	03	FB	CALLS #3, GET_LOC	
				50	D4	CLRL FIND_MODE	1200
				2C	A2	TSTW 44(FIB)	1207
				03	13	BEQL 3\$	1209
				02	D0	MOVL #2, FIND_MODE	1210
08	50		6A	06	E1	BBC #6, (BASE), 4\$	1213
				50	DD	PUSHL FIND_MODE	1220
				52	DD	PUSHL FIB	
				56	DD	PUSHL ABD	
	0000G		CF	03	FB	CALLS #3, FIND	
	7E			08	A2	MOVZWL 8(FIB), -(SP)	1222
	0000G		CF	01	FB	CALLS #1, SWITCH_VOLUME	
	50			08	AA	MOVL 8(BASE), R0	1223
				11	13	BEQL 6\$	
	04		A2	24	A0	CMPW 36(R0), 4(FIB)	
				07	12	BNEQ 5\$	
	08		A2	28	A0	CMPW 40(R0), 8(FIB)	
				03	13	BEQL 6\$	
				08	AA	CLRQ 8(BASE)	1224
				04	A2	PUSHAB 4(FIB)	1225
	0000G		CF	01	FB	CALLS #1, SERIAL_FILE	
	18		AA	50	D0	MOVL R0, 24(BASE)	
				04	A2	PUSHAB 4(FIB)	1226
	0000G		CF	01	FB	CALLS #1, SEARCH_FCB	
	53			50	D0	MOVL R0, FCB	
				53	DD	PUSHL FCB	1227
				04	A2	PUSHAB 4(FIB)	
	0000G		CF	02	FB	CALLS #2, READ_HEADER	

	54		50	DO	00099	MOVL	RO, HEADER			
			55	D4	0009C	CLRL	FCB_CREATED		1229	
			53	D5	0009E	TSTL	FCB		1230	
			0D	12	000A0	BNEQ	7\$			
	55		01	DO	000A2	MOVL	#1, FCB_CREATED		1233	
			54	DD	000A5	PUSHL	HEADER		1234	
0000G	CF		01	FB	000A7	CALLS	#1, CREATE_FCB			
	53		50	DO	000AC	MOVL	RO, FCB			
08	AA		53	DO	000AF	7\$:	MOVL	FCB, 8(BASE)	1236	
	OB		55	E8	000B3	BLBS	FCB_CREATED, 8\$		1242	
	OE	23	A3	E9	000B6	BLBC	35(FCB), 9\$		1246	
			18	BB	000BA	PUSHR	#*M<R3,R4>		1250	
0000G	CF		02	FB	000BC	CALLS	#2, REBLD_PRIM_FCB			
			54	DD	000C1	8\$:	PUSHL	HEADER	1252	
0000G	CF		01	FB	000C3	CALLS	#1, BUILD_EXT_FCBS			
03	3B	A0	94	AA	DO	000C8	9\$:	MOVL	-108(BASE), RO	1259
			01	E1	000CC	BBC	#1, 59(RO), 10\$			
			00F4	31	000D1	BRW	28\$			
	50	0C	AA	DO	000D4	10\$:	MOVL	12(BASE), RO	1266	
			2D	13	000D8	BEQL	14\$			
03	OB	A0	01	E0	000DA	BBS	#1, 11(RO), 11\$		1270	
			24	BF	000DF	CHMU	#36		1271	
			04	000E1	RET					
	13	17	A2	E9	000E2	11\$:	BLBC	23(FIB), 12\$	1273	
	01	18	A3	B1	000E6	CMPW	24(FCB), #1		1275	
			61	12	000EA	BNEQ	19\$			
		48	A3	DD	000EC	PUSHL	72(FCB)		1276	
0000G	CF		01	FB	000EF	CALLS	#1, LOCK_COUNT			
	01		50	D1	000F4	CMPL	RO, #1			
			7F	12	000F7	BNEQ	22\$			
07	62		15	E0	000F9	12\$:	BBS	#21, (FIB), 13\$	1280	
	50	0C	AA	DO	000FD	MOVL	12(BASE), RO		1282	
		28	A0	D6	00101	INCL	40(RO)			
		0091	31	00104	13\$:	BRW	25\$		1266	
		16	A2	95	00107	14\$:	TSTB	22(FIB)	1293	
			04	19	0010A	BLSS	15\$			
	76	17	A2	E9	0010C	BLBC	23(FIB), 24\$			
	50	90	AA	DO	00110	15\$:	MOVL	-112(BASE), RO	1300	
7E	OB	A0	00	EF	00114	EXTZV	#0, #2, 11(RO), -(SP)			
	02	2E	A2	91	0011A	CMPB	46(FIB), (SP)			
	6E		04	1B	0011E	BLEQU	16\$			
	6E	2E	A2	9A	00120	MOVZBL	46(FIB), (SP)			
			53	DD	00124	16\$:	PUSHL	FCB	1299	
			54	DD	00126	PUSHL	HEADER			
			01	DD	00128	PUSHL	#1			
0000G	CF		04	FB	0012A	CALLS	#4, CHECK_PROTECT			
	55	0B	A3	9A	0012F	MOVZBL	11(FCB), CURR_LKMODE		1302	
		16	A2	95	00133	TSTB	22(FIB)		1304	
			17	18	00136	BGEQ	20\$			
	03	17	A2	E9	00138	BLBC	23(FIB), 18\$		1308	
			14	BF	0013C	17\$:	CHMU	#20	1309	
			04	0013E	RET					
	51		53	DO	0013F	18\$:	MOVL	FCB, R1	1311	
	50	0100	8F	3C	00142	MOVZWL	#256, RO			
		0000G	30	00147	BSBW	ARBITRATE_ACCESS				
	30		50	E8	0014A	BLBS	RO, 23\$			
			29	11	0014D	19\$:	BRB	22\$	1313	

	51		53	D0	0014F	20\$:	MOVL	FCB, R1	1322
	50	0400	8F	3C	00152		MOVZWL	#1024, R0	
			0000G	30	00157		BSBW	ARBITRATE_ACCESS	
	1B		50	E9	0015A		BLBC	R0, 22\$	
		18	A3	B5	0015D		TSTW	24(FCB)	1326
			0D	12	00160		BNEQ	21\$	
		48	A3	DD	00162		PUSHL	72(FCB)	1327
0000G	CF		01	FB	00165		CALLS	#1, LOCK_COUNT	
	01		50	D1	0016A		CMP	R0, #1	
			0E	13	0016D		BEQL	23\$	
			53	DD	0016F	21\$:	PUSHL	FCB	1330
			55	DD	00171		PUSHL	CURR_LKMODE	
0000G	CF		02	FB	00173		CALLS	#2, CONV_ACCLICK	
		0800	8F	BF	00178	22\$:	CHMU	#2048	1331
				04	0017C		RET		
			53	DD	0017D	23\$:	PUSHL	FCB	1336
			55	DD	0017F		PUSHL	CURR_LKMODE	
0000G	CF		02	FB	00181		CALLS	#2, CONV_ACCLOCK	
OE	62		15	E0	00186	24\$:	BBS	#21, (FIB), 25\$	1340
			01	DD	0018A		PUSHL	#1	1343
			54	DD	0018C		PUSHL	HEADER	
0000G	CF		02	FB	0018E		CALLS	#2, SET_REVISION	
			54	DD	00193		PUSHL	HEADER	1344
	67		01	FB	00195		CALLS	#1, CHECKSUM	
	50	90	AA	D0	00198	25\$:	MOVL	-112(BASE), R0	1351
	05	32	A0	B1	0019C		CMPW	50(R0), #5	
			14	1B	001A0		BLEQU	26\$	
			01	DD	001A2		PUSHL	#1	1354
0000G	CF	0050	8F	BB	001A4		PUSHR	#*M<R4, R6>	
	54	04	03	FB	001A8		CALLS	#3, WRITE_ATTRIB	
			AA	D0	001AD		MOVL	4(BASE), HEADER	1355
			54	DD	001B1		PUSHL	HEADER	1356
	67		01	FB	001B3		CALLS	#1, CHECKSUM	
		16	A2	95	001B6	26\$:	TSTB	22(FIB)	1364
			04	19	001B9		BLSS	27\$	
	OE	17	A2	E9	001BB		BLBC	23(FIB), 29\$	
	50	98	AA	D0	001BF	27\$:	MOVL	-104(BASE), R0	1365
05	OB	A0	04	E1	001C3		BBC	#4, 11(R0), 29\$	
		025C	8F	BF	001C8	28\$:	CHMU	#604	1366
				04	001CC		RET		
		16	A2	95	001CD	29\$:	TSTB	22(FIB)	1368
			07	18	001D0		BGEQ	30\$	
			14	BB	001D2		PUSHR	#*M<R2, R4>	1371
0000G	CF		02	FB	001D4		CALLS	#2, EXTEND	
	OA	17	A2	E9	001D9	30\$:	BLBC	23(FIB), 31\$	1374
		1C	A2	DD	001DD		PUSHL	28(FIB)	1376
			14	BB	001E0		PUSHR	#*M<R2, R4>	
0000G	CF		03	FB	001E2		CALLS	#3, TRUNCATE	
	54	04	AA	D0	001E7	31\$:	MOVL	4(BASE), HEADER	1378
			54	DD	001EB		PUSHL	HEADER	1379
	67		01	FB	001ED		CALLS	#1, CHECKSUM	
			54	DD	001F0		PUSHL	HEADER	1380
0000G	CF		01	FB	001F2		CALLS	#1, UPDATE_FCB	
	50		01	D0	001F7		MOVL	#1, R0	1382
			04	001FA			RET		1384

; Routine Size: 507 bytes. Routine Base: \$CODE\$ + 0000

MPV  
Syn  
ACL  
AQE  
BIT  
CAC  
CHI  
COL  
CUE  
DAT  
DIF  
FCE  
HEA  
INC  
IOC  
MAF  
MVL  
QUC  
RVI  
UCE  
UNP  
VBN  
VCE  
WCE  
WIN  
PSE  
---  
\$AE  
\$CC  
Pha  
---  
In1  
Con  
Pas  
Syn  
Pas  
Syn  
Pse  
Crc  
Ass  
The  
661  
The  
24  
10

: 396 1385 1  
: 397 1386 1 END  
: 398 1387 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	507	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	50 0	1000	00:02.0

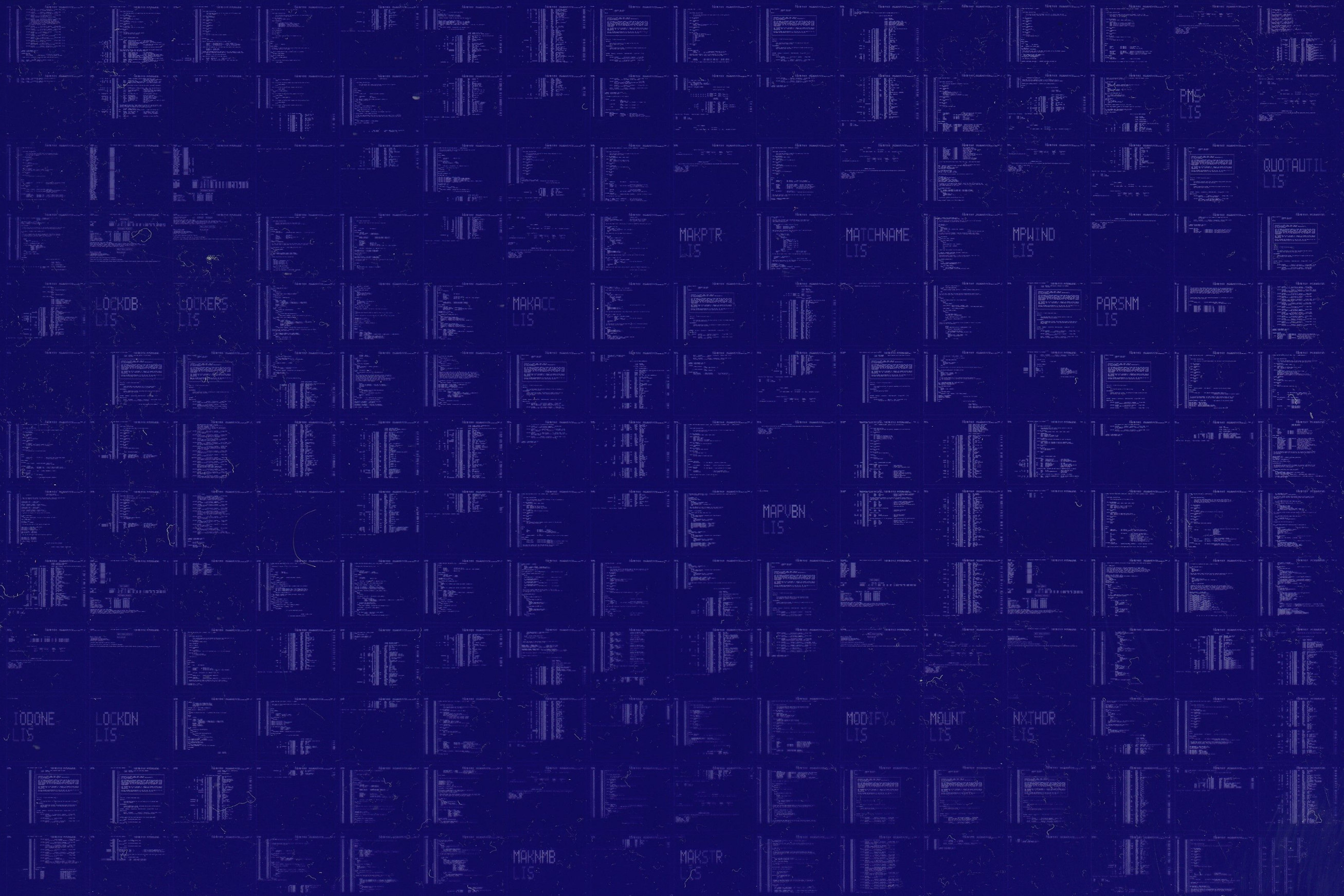
COMMAND QUALIFIERS

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

: Size: 507 code + 0 data bytes  
: Run Time: 00:24.2  
: Elapsed Time: 00:56.4  
: Lines/CPU Min: 3441  
: Lexemes/CPU-Min: 39769  
: Memory Used: 319 pages  
: Compilation Complete

0171 AH-BT13A-SE  
VAX/VMS V4.0

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PMS  
LIS

QUOTAUTIL  
LIS

MAKPTR  
LIS

MATCHNAME  
LIS

MPWIND  
LIS

LOCKDB  
LIS

LOCKERS  
LIS

MAKACC  
LIS

PARSNM  
LIS

MAPVBN  
LIS

TODONE  
LIS

LOCKDN  
LIS

MODIFY  
LIS

MOUNT  
LIS

MYTHOR  
LIS

MAKNMB  
LIS

MAKSTR  
LIS