



```

LL      IIIIII  BBBB BBBB  FFFFFFFF  IIIIII  LL      P P P P P P P P  R R R R R R R R  000000
LL      IIIIII  BBBB BBBB  FFFFFFFF  IIIIII  LL      P P P P P P P P  R R R R R R R R  000000
LL      II      BB      BB  FF      FF      II      LL      PP      PP  RR      RR  00      00
LL      II      BB      BB  FF      FF      II      LL      PP      PP  RR      RR  00      00
LL      II      BB      BB  FF      FF      II      LL      PP      PP  RR      RR  00      00
LL      II      BB      BB  FF      FF      II      LL      PP      PP  RR      RR  00      00
LL      II      BB      BB  FF      FF      II      LL      PP      PP  RR      RR  00      00
LL      II      BB      BB  FF      FF      II      LL      PP      PP  RR      RR  00      00
LL      II      BB      BB  FF      FF      II      LL      PP      PP  RR      RR  00      00
LL      II      BB      BB  FF      FF      II      LL      PP      PP  RR      RR  00      00
LL      II      BB      BB  FF      FF      II      LL      PP      PP  RR      RR  00      00
LLLLLLLLLLLL IIIIII  BBBB BBBB  FFFFFFFF  IIIIII  LLLLLLLLLL PP      PP  RR      RR  000000
LLLLLLLLLLLL IIIIII  BBBB BBBB  FFFFFFFF  IIIIII  LLLLLLLLLL PP      PP  RR      RR  000000

```

```

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
LLLLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLLLL IIIIII  SSSSSSSS

```

:

.....

.....

.....

.....

.....

.....

.....

```

1 0001 0 %TITLE 'LIB$SET_FILE_PROT - Set file protection'
2 0002 0 MODULE LIB$SET_FILE_PROT ( ! Set file protection
3 0003 0 IDENT = 'V04-000' ! File: LIBFILPRO.B32 Edit: 1-001
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
10 0010 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. *
11 0011 1 * ALL RIGHTS RESERVED. *
12 0012 1 *
13 0013 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *
14 0014 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE *
15 0015 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER *
16 0016 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *
17 0017 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY *
18 0018 1 * TRANSFERRED. *
19 0019 1 *
20 0020 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE *
21 0021 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT *
22 0022 1 * CORPORATION. *
23 0023 1 *
24 0024 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS *
25 0025 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
26 0026 1 *
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1
31 0031 1 ++
32 0032 1 FACILITY: General Utility Library
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1 This routine sets the file protection of a file.
37 0037 1
38 0038 1 ENVIRONMENT: Runs at any access mode - AST reentrant
39 0039 1
40 0040 1 AUTHOR: Martin L. Jack, CREATION DATE: 23-Dec-1981
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original from LIBACP.B32. MLJ 23-Dec-1981
45 0045 1 --
46 0046 1

```

```

: 48      0047 1 %SBTTL 'Declarations'
: 49      0048 1
: 50      0049 1 | SWITCHES:
: 51      0050 1 |
: 52      0051 1 |
: 53      0052 1 SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
: 54      0053 1 |
: 55      0054 1 |
: 56      0055 1 | LINKAGES:
: 57      0056 1 |
: 58      0057 1 LINKAGE
: 59      0058 1     LINKAGE_JSB_2_2 = JSB(REGISTER=0;REGISTER=1,REGISTER=2);
: 60      0059 1 |
: 61      0060 1 | TABLE OF CONTENTS:
: 62      0061 1 |
: 63      0062 1 |
: 64      0063 1 FORWARD ROUTINE
: 65      0064 1     LIB$SET_FILE_PROT;                                ! Set file protection
: 66      0065 1 |
: 67      0066 1 |
: 68      0067 1 | INCLUDE FILES:
: 69      0068 1 |
: 70      0069 1 |
: 71      0070 1 LIBRARY 'SYS$LIBRARY:LIB';                            ! System symbols
: 72      0071 1 |
: 73      0072 1 |*! REQUIRE 'RTLIN:RTLPSECT';                                     ! Define PSECT declarations macros
: 74      0073 1 |
: 75      0074 1 |
: 76      0075 1 | MACROS:
: 77      0076 1 |
: 78      0077 1 |     NONE
: 79      0078 1 |
: 80      0079 1 | EQUATED SYMBOLS:
: 81      0080 1 |
: 82      0081 1 |     NONE
: 83      0082 1 |
: 84      0083 1 | FIELDS:
: 85      0084 1 |
: 86      0085 1 |     NONE
: 87      0086 1 |
: 88      0087 1 | PSECTS:
: 89      0088 1 |
: 90      0089 1 |*! DECLARE_PSECTS (LIB);                                           ! Declare PSECTs for LIB$ facility
: 91      0090 1 |     PSECT
: 92      0091 1 |         CODE = _LIB$CODE (READ, NOWRITE, EXECUTE, SHARE, PIC, ADDRESSING_MODE (WORD_RELATIVE)),
: 93      0092 1 |         PLIT = _LIB$CODE (READ, NOWRITE, EXECUTE, SHARE, PIC, ADDRESSING_MODE (WORD_RELATIVE)),
: 94      0093 1 |         OWN = _LIB$DATA (READ, WRITE, NOEXECUTE, NOSHARE, PIC, ADDRESSING_MODE (LONG_RELATIVE)),
: 95      0094 1 |         GLOBAL = _LIB$DATA (READ, WRITE, NOEXECUTE, NOSHARE, PIC, ADDRESSING_MODE (LONG_RELATIVE)) ;
: 96      0095 1 |
: 97      0096 1 | | OWN STORAGE:
: 98      0097 1 | |
: 99      0098 1 | |     NONE
: 100     0099 1 | |
: 101     0100 1 | | EXTERNAL REFERENCES:
: 102     0101 1 | |
: 103     0102 1 | |
: 104     0103 1 | EXTERNAL ROUTINE
  
```

LIB\$SET\_FILE\_PR LIB\$SET\_FILE\_PROT - Set file protection  
V04-000 Declarations

L 5  
16-Sep-1984 02:26:57 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 13:34:28 [VM\$LIB.SRC]LIBFILPRO.B32;1

Page 3  
(2)

```
: 105      0104 1      LIB$ANALYZE_SDESC_R2:      LINKAGE JSB_2_2,      ! Analyze descriptor
: 106      0105 1      LIB$FREE_EF,          ! Deallocate an event flag
: 107      0106 1      LIB$GET_EF,          ! Allocate an event flag
: 108      0107 1      SYS$SETDFPROT;        ! Read/set default file protection
: 109      0108 1
: 110      0109 1      EXTERNAL LITERAL      ! Completion status codes
: 111      0110 1      LIB$INVARG,          ! Invalid argument
: 112      0111 1      LIB$_INVFIL$PE;      ! Invalid file specification
```

LIE  
V04

```

: 114 0112 1 XSBTTL 'LIB$SET_FILE_PROT - Set file protection'
: 115 0113 1 GLOBAL ROUTINE [LIB$SET_FILE_PROT (
: 116 0114 1     FILE_SPEC,
: 117 0115 1     ENABLE_MASK,
: 118 0116 1     VALUE_MASK,
: 119 0117 1     ACTUAL_MASK
: 120 0118 1 ) =
: 121 0119 1
: 122 0120 1 ++
: 123 0121 1 FUNCTIONAL DESCRIPTION:
: 124 0122 1     This routine sets the file protection of a file.
: 125 0123 1
: 126 0124 1
: 127 0125 1 CALLING SEQUENCE:
: 128 0126 1
: 129 0127 1     ret_status.wlc.v = LIB$SET_FILE_PROT (file-spec.rt.dx,
: 130 0128 1     [enable-mask.rwu.r], [value-mask.rwu.r], [actual-mask.wwu.r])
: 131 0129 1
: 132 0130 1 FORMAL PARAMETERS:
: 133 0131 1
: 134 0132 1     FILE_SPEC      Address of a descriptor for the file specification.
: 135 0133 1     This string is a standard RMS file specification; it
: 136 0134 1     must not contain a node name nor wild card characters;
: 137 0135 1     it must reference a disk device. The string must be
: 138 0136 1     no longer than 255 characters.
: 139 0137 1
: 140 0138 1     ENABLE_MASK   Address of a word containing a mask to specify the bits
: 141 0139 1     of the file protection to be modified. Bits of the
: 142 0140 1     file protection corresponding to set bits in
: 143 0141 1     enable-mask are set to the value of the corresponding
: 144 0142 1     bit of the value-mask parameter; bits of the file
: 145 0143 1     protection corresponding to clear bits in enable-mask
: 146 0144 1     are not modified. This is an optional parameter. The
: 147 0145 1     default is a mask of all one bits, which results in
: 148 0146 1     changing all bits of the file protection.
: 149 0147 1
: 150 0148 1     VALUE_MASK    Address of a word containing a mask to specify the
: 151 0149 1     value of modified bits of the file protection. Bits of
: 152 0150 1     the file protection corresponding to set bits in
: 153 0151 1     enable-mask are set to the value of the corresponding
: 154 0152 1     bit of the value-mask parameter. This is an optional
: 155 0153 1     parameter. The default is the current process default
: 156 0154 1     file protection.
: 157 0155 1
: 158 0156 1     ACTUAL_MASK   Address of a word that receives the file protection
: 159 0157 1     value actually set. This is an optional output
: 160 0158 1     parameter. It is guaranteed to be stored only if the
: 161 0159 1     routine value is true.
: 162 0160 1
: 163 0161 1     The format of ENABLE_MASK, VALUE_MASK, and ACTUAL_MASK is:
: 164 0162 1
: 165 0163 1           1 1 1 1 1
: 166 0164 1           5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0
: 167 0165 1     +-----+-----+-----+-----+
: 168 0166 1     |World  |Group  |Owner  |System |
: 169 0167 1     |D E W R|D E W R|D E W R|D E W R|
: 170 0168 1     +-----+-----+-----+-----+

```

```

171 0169 1
172 0170 1      Set bits deny access and clear bits grant access.
173 0171 1
174 0172 1      IMPLICIT INPUTS:
175 0173 1
176 0174 1      NONE
177 0175 1
178 0176 1      IMPLICIT OUTPUTS:
179 0177 1
180 0178 1      NONE
181 0179 1
182 0180 1      COMPLETION STATUS:
183 0181 1
184 0182 1      SSS_NORMAL      Normal successful completion
185 0183 1
186 0184 1      LIB$_INVARG    Required argument omitted, or file-spec longer than
187 0185 1      255 characters
188 0186 1
189 0187 1      LIB$_INVFILSPE  File specification contained a node name or wildcard or
190 0188 1      did not reference a disk device
191 0189 1
192 0190 1      LIB$ANALYZE_SDESC errors
193 0191 1      $PARSE errors
194 0192 1      $SEARCH errors
195 0193 1      $ASSIGN errors
196 0194 1      LIB$GET_EF errors
197 0195 1      $QIO errors
198 0196 1      $DASSGN errors
199 0197 1      LIB$FREE_EF errors
200 0198 1
201 0199 1      SIDE EFFECTS:
202 0200 1
203 0201 1      File protection of file modified.
204 0202 1
205 0203 1      --
206 0204 1
207 0205 2      BEGIN
208 0206 2      LOCAL
209 0207 2      FAB:          $FAB_DECL,      ! FAB for $PARSE
210 0208 2      NAM:          $NAM_DECL,      ! NAM block for $PARSE
211 0209 2      ESA_BUFFER:  VECTOR[NAM$C MAXRSS,BYTE], ! Expanded string area
212 0210 2      TEMP_DESC:   BLOCK[DSC$K_5 BLN,BYTE], ! Utility descriptor
213 0211 2      FPRO:        BLOCK[ATR$S_FPRO,BYTE]
214 0212 2      VOLATILE,      ! File protection
215 0213 2      FIB:          BLOCK[FIB$C_LENGTH,BYTE], ! FIB
216 0214 2      FIB_DESC:   VECTOR[2],      ! Descriptor for FIB
217 0215 2      ATR:          BLOCKVECTOR[2,8,BYTE], ! Attribute descriptors
218 0216 2      IOSB:        VECTOR[4,WORD],    ! I/O status block
219 0217 2      CHANNEL:     WORD,              ! Channel number
220 0218 2      EFN,          ! Event flag number
221 0219 2      LOCAL_ENABLE: WORD,          ! Actual or defaulted ENABLE_MASK
222 0220 2      LOCAL_VALUE: WORD,          ! Actual or defaulted VALUE_MASK
223 0221 2      STATUS_1,      ! Status return
224 0222 2      STATUS_2,      ! Status return
225 0223 2      STATUS_3,      ! Status return
226 0224 2      STATUS_4,      ! Status return
227 0225 2      STATUS_5,      ! Status return

```

```
228 0226 2 STATUS_6, ! Status return
229 0227 2 STATUS_7, ! Status return
230 0228 2 FINAL_STATUS; ! Status return
231 0229 2 LABEL
232 0230 2 PROCESS; ! Block exited when processing complete
233 0231 2 BUILTIN
234 0232 2 ACTUALCOUNT, ! Return number of arguments
235 0233 2 NULLPARAMETER; ! Test if parameter specified
236 0234 2
237 0235 2 !+
238 0236 2 ! Ensure that the required parameter is present.
239 0237 2 !-
240 0238 2
241 0239 2 IF ACTUALCOUNT() EQL 0 THEN RETURN LIB$_INVARG;
242 0240 2
243 0241 2 !+
244 0242 2 ! Initialize RMS structures required to do a $PARSE and $SEARCH.
245 0243 2 !-
246 0244 2
247 P 0245 2 $FAB_INIT(FAB=FAB,
248 0246 2 NAM=NAM);
249 P 0247 2 $NAM_INIT(NAM=NAM,
250 0248 2 ESA=ESA_BUFFER,
251 P 0249 2 ESS=NAM$_MAXRSS);
252 0250 2
253 0251 2 !+
254 0252 2 ! Analyze the input descriptor and set up the FAB filename descriptor.
255 0253 2 !-
256 0254 2
257 0255 2 BEGIN ! block to use output registers
258 0256 2 REGISTER
259 0257 2 R1 = 1;
260 0258 2 R2 = 2;
261 0259 2
262 0260 2 STATUS_1 = LIB$ANALYZE_SDESC_R2(.FILE_SPEC; R1, R2);
263 0261 2 IF NOT .STATUS_1 THEN RETURN .STATUS_1;
264 0262 2 IF .R1 GTRU 255 THEN RETURN LIB$_INVARG;
265 0263 2 FAB[FAB$_FNS] = .R1;
266 0264 2 FAB[FAB$_FNA] = .R2;
267 0265 2 END; ! block to use output registers
268 0266 2
269 0267 2 !+
270 0268 2 ! Parse the file specification to obtain the expanded name string.
271 0269 2 !-
272 0270 2
273 0271 2 STATUS_2 = $PARSE(FAB=FAB);
274 0272 2 IF NOT .STATUS_2 THEN RETURN .STATUS_2;
275 0273 2
276 0274 2 !+
277 0275 2 ! Perform various error checks on the file specification. It must not have a
278 0276 2 ! node name, must not contain wildcards, and must reference a disk device.
279 0277 2 !-
280 0278 2
281 0279 2 IF
282 0280 2 (.NAM[NAM$_FNB] AND (NAM$_WILDCARD OR NAM$_NODE)) NEQ 0 OR
283 0281 2 NOT .BLOCK[FAB[FAB$_DEV], DEV$_RND; ,BYTE]
284 0282 2 THEN
```



```

285 0283 3 BEGIN
286 0284 3
287 0285 3 |
288 0286 3 | +
289 0287 3 | If the string contained a wildcard or a node name, internal RMS resources
290 0288 3 | have been consumed by $PARSE. Execute another $PARSE using the same FAB
291 0289 3 | on a null string to release these resources.
292 0290 3 |
293 0291 3 FAB[FAB$B_FNS] = 0;
294 0292 3 $PARSE(FAB=FAB);
295 0293 3 RETURN LIB$_INVFILSPE;
296 0294 3 END;
297 0295 3
298 0296 2 |
299 0297 2 | +
300 0298 2 | Perform a $SEARCH to get the file identification of the file.
301 0299 2 |
302 0300 2 STATUS_3 = $SEARCH(FAB=FAB);
303 0301 2 IF NOT .STATUS_3 THEN RETURN .STATUS_3;
304 0302 2
305 0303 2 |
306 0304 2 | +
307 0305 2 | Set up the FIB.
308 0306 2 |
309 0307 2 CH$FILL(0, FIB$_LENGTH, FIB);
310 0308 2 FIB[FIB$_ACCTL] = FIB$_WRITE OR FIB$_NOREAD OR FIB$_NOWRITE;
311 0309 2 FIB[FIB$_FID_NUM] = .NAM[NAM$_FID_NUM];
312 0310 2 FIB[FIB$_FID_SEQ] = .NAM[NAM$_FID_SEQ];
313 0311 2 FIB[FIB$_FID_RVN] = .NAM[NAM$_FID_RVN];
314 0312 2
315 0313 2 |
316 0314 2 | +
317 0315 2 | Set up the FIB descriptor.
318 0316 2 |
319 0317 2 FIB_DESC[0] = FIB$_LENGTH;
320 0318 2 FIB_DESC[1] = FIB;
321 0319 2
322 0320 2 |
323 0321 2 | +
324 0322 2 | Set up the attribute list.
325 0323 2 |
326 0324 2 ATR[0, ATR$_TYPE] = ATR$_FPRO; ! File protection
327 0325 2 ATR[0, ATR$_SIZE] = ATR$_FPRO;
328 0326 2 ATR[0, ATR$_ADDR] = FPRO;
329 0327 2 ATR[1, 0,0,32,0] = 0; ! End of list
330 0328 2
331 0329 2 |
332 0330 2 | +
333 0331 2 | Assign a channel to the device.
334 0332 2 |
335 0333 2 TEMP_DESC[DSC$_LENGTH] = .NAM[NAM$_DEV];
336 0334 2 TEMP_DESC[DSC$_POINTER] = .NAM[NAM$_DEV];
337 0335 2 STATUS_4 = $ASSIGN(DEVNAM=TEMP_DESC, CHAN=CHANNEL);
338 0336 2 IF NOT .STATUS_4 THEN RETURN .STATUS_4;
339 0337 2
340 0338 2 |
341 0339 2 | +
341 0339 2 | Allocate an event flag.

```

```

342 0340 2 !-
343 0341 2
344 0342 2 STATUS_5 = LIB$GET_EF(EFN);
345 0343 2 IF NOT .STATUS_5
346 0344 2 THEN
347 0345 2 BEGIN
348 0346 2     $DASSGN(CHAN=.CHANNEL);
349 0347 2     RETURN .STATUS_5;
350 0348 2 END;
351 0349 2
352 0350 2 !+
353 0351 2 ! Beginning of block that is exited when processing is complete. FINAL_STATUS
354 0352 2 ! contains the status to be returned to caller.
355 0353 2 !-
356 0354 2
357 0355 2 PROCESS: BEGIN
358 0356 2
359 0357 2 !+
360 0358 2 ! Evaluate the enable-mask.
361 0359 2 !-
362 0360 2
363 0361 2 LOCAL_ENABLE = -1;                ! Assume default
364 0362 2 IF NOT NULLPARAMETER(2)
365 0363 2 THEN
366 0364 2     LOCAL_ENABLE = .(.ENABLE_MASK)<0,16>;
367 0365 2
368 0366 2 !+
369 0367 2 ! If the enable-mask does not specify a change to all bits of the existing
370 0368 2 ! file protection, read attributes of the file.
371 0369 2 !-
372 0370 2
373 0371 2 IF .LOCAL_ENABLE NEQ 65535
374 0372 2 THEN
375 0373 2 BEGIN
376 P 0374 2     FINAL_STATUS = $QIOW(
377 P 0375 2     FUNC=IOS$ ACCESS,
378 P 0376 2     CHAN=.CHANNEL,
379 P 0377 2     EFN=.EFN,
380 P 0378 2     IOSB=IOSB,
381 P 0379 2     P1=FIB DESC,
382 0380 2     P5=ATTR);
383 0381 2 IF .FINAL_STATUS THEN FINAL_STATUS = .IOSB[0];
384 0382 2 IF NOT .FINAL_STATUS THEN LEAVE PROCESS;
385 0383 2 END;
386 0384 2
387 0385 2 !+
388 0386 2 ! Evaluate the value-mask.
389 0387 2 !-
390 0388 2
391 0389 2 IF NULLPARAMETER(3)
392 0390 2 THEN
393 0391 2     SYS$SETDFPROT(0, LOCAL_VALUE)                ! Read process default
394 0392 2 ELSE
395 0393 2     LOCAL_VALUE = .(.VALUE_MASK)<0,16>;
396 0394 2
397 0395 2 !+
398 0396 2 ! Evaluate the new protection value.

```

```

399      0397      3 :-
400      0398      3
401      0399      3 FPRO = (.FPRO AND NOT .LOCAL_ENABLE) OR (.LOCAL_VALUE AND .LOCAL_ENABLE);
402      0400      3
403      0401      3 !+
404      0402      3 ! If requested, return the new protection value.
405      0403      3 !-
406      0404      3
407      0405      3 IF NOT NULLPARAMETER(4)
408      0406      3 THEN
409      0407      3     (.ACTUAL_MASK)<0,16> = .FPRO;
410      0408      3
411      0409      3 !+
412      0410      3 ! Rewrite the file protection.
413      0411      3 !-
414      0412      3
415      P 0413      3 FINAL STATUS = $QIOW(
416      P 0414      3     FONC=IOS$ MODIFY,
417      P 0415      3     CHAN=.CHANNEL,
418      P 0416      3     EFN=.EFN,
419      P 0417      3     IOSB=IOSB,
420      P 0418      3     P1=FIB_DESC,
421      P 0419      3     P5=ATR);
422      0420      3 IF .FINAL_STATUS THEN FINAL STATUS = .IOSB[0];
423      0421      3 IF NOT .FINAL_STATUS THEN LEAVE PROCESS;
424      0422      3 FINAL_STATUS = SSS_NORMAL;
425      0423      3
426      0424      3 !+
427      0425      3 ! End of block that is exited when processing is complete. FINAL_STATUS
428      0426      3 ! contains the status that is to be returned to caller.
429      0427      3 !-
430      0428      3
431      2 0429      3 END; ! of block PROCESS
432      0430      3
433      2 0431      3 !+
434      2 0432      3 ! Deassign the channel and deallocate the event flag.
435      2 0433      3 !-
436      2 0434      3
437      2 0435      3 STATUS_6 = $DASSGN(CHAN=.CHANNEL);
438      2 0436      3 STATUS_7 = LIB$FREE_EF(EFN);
439      2 0437      3 IF NOT .STATUS_7 THEN RETURN .STATUS_7;
440      2 0438      3 IF NOT .STATUS_6 THEN RETURN .STATUS_6;
441      2 0439      3
442      2 0440      3 !+
443      2 0441      3 ! Return the status.
444      2 0442      3 !-
445      2 0443      3
446      2 0444      3 RETURN .FINAL_STATUS;
447      1 0445      3 END;

```

! End of routine LIB\$SET\_FILE\_PROT

```

.TITLE LIB$SET_FILE_PROT LIB$SET_FILE_PROT - Set file
       protection
.IDENT \V04-000\
.EXTRN LIB$ANALYZE_SDESC_R2
.EXTRN LIB$FREE_EF, LIB$GET_EF

```



18	AE	6C	AE	9E	000E0	MOVAB	FPRO, ATR+4	0326
		1C	AE	D4	000E5	CLRL	ATR+8	0327
70	AE	89	AD	9B	000E8	MOVZBW	NAM+57, TEMP_DESC	0333
74	AE	94	AD	DO	000ED	MOVL	NAM+68, TEMP_DESC+4	0334
			7E	7C	000F2	CLRQ	-(SP)	0335
		08	AE	9F	000F4	PUSHAB	CHANNEL	
		7C	AE	9F	000F7	PUSHAB	TEMP_DESC	
00000000G	00		04	FB	000FA	CALLS	#4, SYSSASSIGN	
	01		50	E8	00101	BLBS	STATUS_4, 7\$	0336
				04	00104	RET		
		08	AE	9F	00105	PUSHAB	EFN	0342
00000000G	00		01	FB	00108	CALLS	#1, LIB\$GET_EF	
	52		50	DO	0010F	MOVL	R0, STATUS_5	
	09		52	E8	00112	BLBS	STATUS_5, 3\$	0343
	7E		6E	3C	00115	MOVZWL	CHANNEL, -(SP)	0346
	67		01	FB	00118	CALLS	#1, SYSSDASIGN	
			00D0	31	0011B	BRW	16\$	0347
	52		01	AE	0011E	MNEGW	#1, LOCAL_ENABLE	0361
	02		6C	91	00121	CMPB	(AP), #2	0362
			09	1F	00124	BLSSU	9\$	
		08	AC	D5	00126	TSTL	8(AP)	
			04	13	00129	BEQL	9\$	
	52	08	BC	B0	0012B	MOVW	@ENABLE_MASK, LOCAL_ENABLE	0364
FFFF	8F		52	B1	0012F	CMPW	LOCAL_ENABLE, #65535	0371
			2A	13	00134	BEQL	10\$	
			7E	D4	00136	CLRL	-(SP)	0380
		18	AE	9F	00138	PUSHAB	ATR	
			7E	7C	0013B	CLRQ	-(SP)	
			7E	D4	0013D	CLRL	-(SP)	
		38	AE	9F	0013F	PUSHAB	FIB_DESC	
			7E	7C	00142	CLRQ	-(SP)	
		2C	AE	9F	00144	PUSHAB	IOSB	
			32	DD	00147	PUSHL	#50	
	7E		28	AE	3C	00149	MOVZWL	CHANNEL, -(SP)
			34	AE	DD	0014D	PUSHL	EFN
	68		0C	FB	00150	CALLS	#12, SYSSQIOW	
	53		50	DO	00153	MOVL	R0, FINAL_STATUS	
	7C		53	E9	00156	BLBC	FINAL_STATUS, 15\$	0381
	53	0C	AE	3C	00159	MOVZWL	IOSB, FINAL_STATUS	
	75		53	E9	0015D	BLBC	FINAL_STATUS, 15\$	0382
	03		6C	91	00160	CMPB	(AP), #3	0389
			05	1F	00163	BLSSU	11\$	
		0C	AC	D5	00165	TSTL	12(AP)	
			0E	12	00168	BNEQ	12\$	
		04	AE	9F	0016A	PUSHAB	LOCAL_VALUE	0391
			7E	D4	0016D	CLRL	-(SP)	
00000000G	00		02	FB	0016F	CALLS	#2, SYSSSETDFPROT	
			05	11	00176	BRB	13\$	
	04	0C	BC	B0	00178	MOVW	@VALUE_MASK, LOCAL_VALUE	0393
	51	6C	AE	3C	0017D	MOVZWL	FPRO, R1	0399
	50		52	3C	00181	MOVZWL	LOCAL_ENABLE, R0	
	51		50	CA	00184	BICL2	R0, RT	
	50	04	AE	3C	00187	MOVZWL	LOCAL_VALUE, R0	
	54		52	3C	0018B	MOVZWL	LOCAL_ENABLE, R4	
	54		54	D2	0018E	MCOML	R4, R4	
	50		54	CA	00191	BICL2	R4, R0	
6C	AE		51	A9	00194	BISW3	R1, R0, FPRO	

LIB  
 Sys  
 SS  
 ABS  
 CTL  
 CTL  
 CTL  
 DFI  
 FIL  
 HDF  
 IAC  
 IAC  
 IAC  
 IAC  
 IAC  
 IMC  
 JSE  
 LIB  
 LIB  
 OPS  
 PHC  
 REC  
 RET  
 SSI  
 SYS  
 SYS  
 SYS  
 SYS  
 VEC  
 VEC  
 PSE  
 ---  
 \$AL  
 \_L  
 Ph  
 ---  
 In  
 Co  
 Pa  
 Sys  
 Pa  
 Sys  
 Pse  
 Cre  
 As

LIB\$SET\_FILE\_PR V04-000 LIB\$SET\_FILE\_PROT - Set file protection  
 LIB\$SET\_FILE\_PROT - Set file protection

H 6  
 16-Sep-1984 02:26:57 VAX-11 Bliss-32 V4.0-742  
 14-Sep-1984 13:34:28 [VMSLIB.SRC]LIBFILPRO.B32;1

Page 12  
 (3)

04	6C	91	00199	CMPB	(AP), #4	: 0405
	0A	1F	0019C	BLSSU	14\$	
	10	AC	D5	TSTL	16(AP)	
	05	13	001A1	BEQL	14\$	
10	BC	6C	AE	MOVW	FPRO, @ACTUAL_MASK	: 0407
		7E	D4	CLRL	-(SP)	: 0419
	18	AE	9F	PUSHAB	ATR	
		7E	7C	CLRL	-(SP)	
		7E	D4	CLRL	-(SP)	
	38	AE	9F	PUSHAB	FIB_DESC	
		7E	7C	CLRL	-(SP)	
	2C	AE	9F	PUSHAB	IOSB	
		36	DD	PUSHL	#54	
	7E	28	AE	MOVZWL	CHANNEL, -(SP)	
		34	AE	PUSHL	EFN	
68		0C	FB	CALLS	#12, SYSSQIOW	
53		50	DO	MOVL	RO, FINAL_STATUS	
0A		53	E9	BLBC	FINAL_STATUS, 15\$	: 0420
53	0C	AE	3C	MOVZWL	IOSB, FINAL_STATUS	
03		53	E9	BLBC	FINAL_STATUS, 15\$	: 0421
53		01	DO	MOVL	#1, FINAL_STATUS	: 0422
7E		6E	3C	MOVZWL	CHANNEL, =(SP)	: 0435
67		01	FB	CALLS	#1, SYSSDASSGN	
52		50	DO	MOVL	RO, STATUS_6	
	08	AE	9F	PUSHAB	EFN	: 0436
00000000G	00	01	FB	CALLS	#1, LIB\$FREE EF	
	0A	50	E9	BLBC	STATUS_7, 18\$	: 0437
	04	52	E8	BLBS	STATUS_6, 17\$	: 0438
	50	52	DO	MOVL	STATUS_6, RO	
		04	001F1	RET		
	50	53	DO	MOVL	FINAL_STATUS, RO	: 0444
		04	001F5	RET		: 0445

; Routine Size: 502 bytes, Routine Base: \_LIB\$CODE + 0000

```
LIB$SET_FILE_PRO LIB$SET_FILE_PROT - Set file protection
V04-000 LIB$SET_FILE_PROT - Set file protection
: 449 0446 1 END
: 450 0447 0 ELUDOM
```

```
1 6
16-Sep-1984 02:26:57 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 13:34:28 [VMSLIB.SRC]LIBFILPRO.B32;1
! End of module LIB$SET_FILE_PROT
```

PSECT SUMMARY

```
Name Bytes Attributes
_LIB$CODE 502 NOVEC,NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)
```

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	89	0	1000	00:01.9

COMMAND QUALIFIERS

```
BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LISS:LIBFILPRO/OBJ=OBJ$:LIBFILPRO MSRC$:LIBFILPRO/UPDATE=(ENH$:LIBFILPRO)
```

```
: Size: 502 code + 0 data bytes
: Run Time: 00:13.9
: Elapsed Time: 00:16.3
: Lines/CPU Min: 1936
: Lexemes/CPU-Min: 24173
: Memory Used: 204 pages
: Compilation Complete
```

