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LL          IIIIII  BBBB BBBB  EEEEEEEEEEE  XX      XX  TTTTTTTTTT  CCCCCCCC  000000  NN      NN
LL          IIIIII  BBBB BBBB  EEEEEEEEEEE  XX      XX  TTTTTTTTTT  CCCCCCCC  000000  NN      NN
LL          II      BB      BB  EE      EE  XX      XX  TT      TT  CC      CC  00      00  NN      NN
LL          II      BB      BB  EE      EE  XX      XX  TT      TT  CC      CC  00      00  NN      NN
LL          II      BB      BB  EE      EE  XX      XX  TT      TT  CC      CC  00      00  NN      NN
LL          II      BB      BB  EE      EE  XX      XX  TT      TT  CC      CC  00      00  NN      NN
LL          II      BBBB BBBB  EEEEEEEEEEE  XX      XX  TT      TT  CC      CC  00      00  NN      NN
LL          II      BBBB BBBB  EEEEEEEEEEE  XX      XX  TT      TT  CC      CC  00      00  NN      NN
LL          II      BB      BB  EE      EE  XX      XX  TT      TT  CC      CC  00      00  NN      NN
LL          II      BB      BB  EE      EE  XX      XX  TT      TT  CC      CC  00      00  NN      NN
LL          II      BB      BB  EE      EE  XX      XX  TT      TT  CC      CC  00      00  NN      NN
LL          II      BB      BB  EE      EE  XX      XX  TT      TT  CC      CC  00      00  NN      NN
LL          II      BB      BB  EE      EE  XX      XX  TT      TT  CC      CC  00      00  NN      NN
LLLLLLLLLLL IIIIII  BBBB BBBB  EEEEEEEEEEE  XX      XX  TT      TT  CCCCCCCC  000000  NN      NN
LLLLLLLLLLL IIIIII  BBBB BBBB  EEEEEEEEEEE  XX      XX  TT      TT  CCCCCCCC  000000  NN      NN

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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          II      SS
LLLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLLL IIIIII  SSSSSSSS

```

```
1 0001 0 %TITLE 'LIB$EXTRACT_CONCEALED - Extract concealed device and root directory'
2 0002 0 MODULE LIB$EXTRACT_CONCEALED ( ! Extract concealed device and root directory
3 0003 0 IDENT = 'V04-000' ! File: LIBEXTCON.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 *
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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 determines whether the device component of a file
37 0037 1 specification is a concealed device, and if so, whether it also
38 0038 1 specifies a root directory, and returns the concealed device and
39 0039 1 root directory.
40 0040 1
41 0041 1 ENVIRONMENT: Runs at any access mode - AST reentrant
42 0042 1
43 0043 1 AUTHOR: Martin L. Jack, CREATION DATE: 19-Dec-1981
44 0044 1
45 0045 1 MODIFIED BY:
46 0046 1
47 0047 1 1-001 - Original. MLJ 19-Dec-1981
48 0048 1 --
49 0049 1
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LIE
V04

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51      0050 1 %SBTTL 'Declarations'
52      0051 1
53      0052 1 SWITCHES:
54      0053 1
55      0054 1
56      0055 1 SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
57      0056 1
58      0057 1
59      0058 1 LINKAGES:
60      0059 1
61      0060 1 LINKAGE
62      0061 1 LINKAGE_JSB_3_6 = JSB(REGISTER=0,REGISTER=1,REGISTER=2):
63      0062 1 NOPRESERVE(3,4,5,6),
64      0063 1
65      0064 1 LINKAGE_JSB_2_2 = JSB(REGISTER=0;REGISTER=1,REGISTER=2);
66      0065 1
67      0066 1 TABLE OF CONTENTS:
68      0067 1
69      0068 1
70      0069 1 FORWARD ROUTINE
71      0070 1 LIB$EXTRACT_CONCEALED; ! Extract concealed device and root directory
72      0071 1
73      0072 1
74      0073 1 INCLUDE FILES:
75      0074 1
76      0075 1
77      0076 1 LIBRARY 'SYSS$LIBRARY:LIB'; ! System symbols
78      0077 1
79      0078 1 !*! REQUIRE 'RTLIN:RTLPSECT'; ! Define PSECT declarations macros
80      0079 1
81      0080 1
82      0081 1 MACROS:
83      0082 1
84      0083 1 NONE
85      0084 1
86      0085 1 EQUATED SYMBOLS:
87      0086 1
88      0087 1 NONE
89      0088 1
90      0089 1 FIELDS:
91      0090 1
92      0091 1 NONE
93      0092 1
94      0093 1 PSECTS:
95      0094 1
96      0095 1 !*! DECLARE_PSECTS (LIB); ! Declare PSECTS for LIB$ facility
97      0096 1 PSECT
98      0097 1 CODE = _LIB$CODE (READ, NOWRITE, EXECUTE, SHARE, PIC, ADDRESSING_MODE (WORD_RELATIVE)),
99      0098 1 PLIT = _LIB$CODE (READ, NOWRITE, EXECUTE, SHARE, PIC, ADDRESSING_MODE (WORD_RELATIVE)),
100     0099 1 OWN = _LIB$DATA (READ, WRITE, NOEXECUTE, NOSHARE, PIC, ADDRESSING_MODE (LONG_RELATIVE)),
101     0100 1 GLOBAL = _LIB$DATA (READ, WRITE, NOEXECUTE, NOSHARE, PIC, ADDRESSING_MODE (LONG_RELATIVE));
102     0101 1
103     0102 1 OWN STORAGE:
104     0103 1
105     0104 1 NONE
106     0105 1
107     0106 1 EXTERNAL REFERENCES:

```

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: 108      0107 1 !
: 109      0108 1
: 110      0109 1 EXTERNAL ROUTINE
: 111      0110 1     LIB$SCOPY_R_DX6:      LINKAGE_JSB_3_6,      ! String copy
: 112      0111 1     LIB$ANALYZE_SDESC_R2: LINKAGE_JSB_2_2;      ! Analyze descriptor
: 113      0112 1
: 114      0113 1 EXTERNAL LITERAL      ! Condition value symbols
: 115      0114 1     LIB$INVARG,          ! Invalid argument
: 116      0115 1     LIB$STRTRU,         ! String truncated
: 117      0116 1     LIB$INVFIL$PE;     ! Invalid file specification

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119 0117 1 %SBTTL 'LIB$EXTRACT CONCEALED - Extract concealed device and root directory'
120 0118 1 GLOBAL ROUTINE LIB$EXTRACT_CONCEALED ( Extract concealed device and root directory
121 0119 1 FILE_SPEC, File specification
122 0120 1 CONCEALED_DEVICE, concealed device name
123 0121 1 ROOT_DIRECTORY, Root directory name
124 0122 1 CONCEALED_DEVICE_LENGTH, Length of CONCEALED_DEVICE
125 0123 1 ROOT_DIRECTORY_LENGTH Length of ROOT_DIRECTORY
126 0124 1 ) =
127 0125 1
128 0126 1
129 0127 1 ++
130 0128 1 FUNCTIONAL DESCRIPTION:
131 0129 1 This routine determines whether the device component of a file
132 0130 1 specification is a concealed device, and if so, whether it also
133 0131 1 specifies a root directory, and returns the concealed device and
134 0132 1 root directory.
135 0133 1
136 0134 1 CALLING SEQUENCE:
137 0135 1
138 0136 1 ret_status.wlc.v = LIB$EXTRACT_CONCEALED (file-spec.rt.dx,
139 0137 1 [concealed-device.wt.dx], [root-directory.wt.dx],
140 0138 1 [concealed-device-length.wwu.r], [root-directory-length.wwu.r])
141 0139 1
142 0140 1 FORMAL PARAMETERS:
143 0141 1
144 0142 1 FILE_SPEC Address of a descriptor for the file
145 0143 1 specification to be analyzed. The string must
146 0144 1 not be longer than 255 characters.
147 0145 1
148 0146 1 CONCEALED_DEVICE Address of a descriptor to receive the
149 0147 1 concealed device name. This is an optional
150 0148 1 output parameter.
151 0149 1
152 0150 1 ROOT_DIRECTORY Address of a descriptor to receive the root
153 0151 1 directory name, without brackets or dot. This
154 0152 1 is an optional output parameter. If the file
155 0153 1 specification does not specify a root
156 0154 1 directory, this parameter receives a null
157 0155 1 string.
158 0156 1
159 0157 1 CONCEALED_DEVICE_LENGTH Address of a word to receive the number of
160 0158 1 characters written into concealed-device, not
161 0159 1 counting padding in the case of a fixed-length
162 0160 1 string. If the output string is truncated to
163 0161 1 the size specified in the concealed-device
164 0162 1 string, concealed-device-length is set to this
165 0163 1 size. Therefore, concealed-device-length can
166 0164 1 always be used by the calling program to access
167 0165 1 a valid substring of concealed-device. This is
168 0166 1 an optional output parameter, passed by
169 0167 1 reference.
170 0168 1
171 0169 1 ROOT_DIRECTORY_LENGTH Address of a word to receive the number of
172 0170 1 characters written into root-directory, not
173 0171 1 counting padding in the case of a fixed-length
174 0172 1 string. If the output string is truncated to
175 0173 1 the size specified in the root-directory
  
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176 0174 1 |
177 0175 1 | string, root-directory-length is set to this
178 0176 1 | size. Therefore, root-directory-length can
179 0177 1 | always be used by the calling program to access
180 0178 1 | a valid substring of root-directory. This is
181 0179 1 | an optional output parameter, passed by
182 0180 1 | reference.
183 0181 1 |
184 0182 1 | The output parameters are guaranteed to be stored only if the routine
185 0183 1 | value is true.
186 0184 1 | IMPLICIT INPUTS:
187 0185 1 |
188 0186 1 | NONE
189 0187 1 |
190 0188 1 | IMPLICIT OUTPUTS:
191 0189 1 |
192 0190 1 | NONE
193 0191 1 |
194 0192 1 | COMPLETION STATUS:
195 0193 1 |
196 0194 1 | S$$_NORMAL Normal successful completion
197 0195 1 |
198 0196 1 | LIB$_INVARG Required argument omitted, or file specification longer
199 0197 1 | than 255 characters
200 0198 1 |
201 0199 1 | LIB$_STRTRU String truncated (qualified success)
202 0200 1 |
203 0201 1 | LIB$_INVFILSPE String does not represent a valid concealed device with
204 0202 1 | optional root directory
205 0203 1 |
206 0204 1 | LIB$ANALYZE_SDESC errors
207 0205 1 | $TRNLOG errors
208 0206 1 | LIB$SCOPY errors
209 0207 1 |
210 0208 1 | SIDE EFFECTS:
211 0209 1 |
212 0210 1 | NONE
213 0211 1 |
214 0212 1 | --
215 0213 1 |
216 0214 2 | BEGIN
217 0215 2 | LOCAL
218 0216 2 | FAB: $FAB_DECL, ! FAB for $PARSE
219 0217 2 | NAM: $NAM_DECL, ! NAM block for $PARSE
220 0218 2 | ESA_BUFFER: VECTOR[NAM$C_MAXRSS,BYTE], ! Expanded string area
221 0219 2 | INPUT_DESC: BLOCK[DSC$K_Z_BLN,BYTE], ! Descriptor for input string
222 0220 2 | TRNLOG_DESC: BLOCK[DSC$K_Z_BLN,BYTE], ! Descriptor for translated input string
223 0221 2 | TRNLOG_BUFFER: VECTOR[LOG$C_NAMLENGTH,BYTE], ! Buffer for translated input string
224 0222 2 | INPUT_LENGTH, ! Length of compressed input
225 0223 2 | INPUT_ADDRESS: REF VECTOR[,BYTE], ! Address of compressed input
226 0224 2 | COMPRESS_CURSOR: REF VECTOR[,BYTE], ! Temporary for upcase/compress
227 0225 2 | DEV_LENGTH: WORD, ! Length of concealed device
228 0226 2 | DIR_LENGTH: WORD, ! Length of root directory
229 0227 2 | DIR_ADDRESS, ! Address of root directory
230 0228 2 | DELIMITER: BYTE, ! Closing directory delimiter
231 0229 2 | STATUS_1, ! Status return
232 0230 2 | STATUS_2, ! Status return

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233 0231 2 STATUS_3, ! Status return
234 0232 2 STATUS_4, ! Status return
235 0233 2 ROUTINE_VALUE; ! Final routine value
236 0234 2 BUILTIN
237 0235 2 ACTUALCOUNT, ! Determine argument count
238 0236 2 LOCC, ! LOCC instruction
239 0237 2 NULLPARAMETER; ! Test for null parameter
240 0238 2
241 0239 2 !+
242 0240 2 ! Ensure that the required parameter is present.
243 0241 2 !-
244 0242 2
245 0243 2 IF ACTUALCOUNT() EQL 0 THEN RETURN LIB$_INVARG;
246 0244 2
247 0245 2 !+
248 0246 2 ! Initialize RMS structures required to do a $PARSE.
249 0247 2 !-
250 0248 2
251 P 0249 2 $FAB_INIT(FAB=FAB,
252 0250 2 NAM=NAM);
253 P 0251 2 $NAM_INIT(NAM=NAM,
254 P 0252 2 ESA=ESA_BUFFER,
255 0253 2 ESS=NAM$_MAXRSS);
256 0254 2
257 0255 2 !+
258 0256 2 ! Analyze the input descriptor and set up the FAB filename descriptor.
259 0257 2 !-
260 0258 2
261 0259 2 BEGIN ! block to use output registers
262 0260 2 REGISTER
263 0261 2 R1 = 1;
264 0262 2 R2 = 2;
265 0263 2
266 0264 2 STATUS_1 = LIB$ANALYZE SDESC_R2(.FILE SPEC; R1, R2);
267 0265 2 IF NOT .STATUS_1 THEN RETURN .STATUS_T;
268 0266 2 IF .R1 GTRU 255 THEN RETURN LIB$_INVARG;
269 0267 2 FAB[FAB$_FNS] = .R1;
270 0268 2 FAB[FAB$_FNA] = .R2;
271 0269 2 END; ! block to use output registers
272 0270 2
273 0271 2 !+
274 0272 2 ! Parse the input string to obtain the expanded name string. Ignore errors
275 0273 2 ! provided that a device name was actually returned.
276 0274 2 !-
277 0275 2
278 0276 2 $PARSE(FAB=FAB);
279 0277 2 IF .NAM[NAM$_DEV] EQL 0 THEN RETURN LIB$_INVFILSPE;
280 0278 2
281 0279 2 !+
282 0280 2 ! Get a descriptor for the input device specification. The high order word is
283 0281 2 ! not initialized because system services ignore this word.
284 0282 2 !-
285 0283 2
286 0284 2 INPUT_DESC[DSC$_LENGTH] = .NAM[NAM$_DEV];
287 0285 2 INPUT_DESC[DSC$_POINTER] = .NAM[NAM$_DEV];
288 0286 2
289 0287 2 !+

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290 0288 2 | If the string contained a wildcard or a node name, internal RMS resources
291 0289 2 | have been consumed by $PARSE. Execute another $PARSE using the same FAB
292 0290 2 | on a null string to release these resources.
293 0291 2 | -
294 0292 2 |
295 0293 2 FAB[FAB$B_FNS] = 0;
296 0294 2 NAM[NAM$B_ESS] = 0;
297 0295 2 $PARSE(FAB=FAB);
298 0296 2 |
299 0297 2 | +
300 0298 2 | Strip text following a leading colon from the specification.
301 0299 2 | -
302 0300 2 |
303 0301 3 BEGIN ! block to use output registers
304 0302 3 REGISTER
305 0303 3     RO = 0;
306 0304 3 |
307 0305 3 LOCC(%REF(%C':'), INPUT_DESC[DSC$W_LENGTH], .INPUT_DESC[DSC$A_POINTER]; RO);
308 0306 3 INPUT_DESC[DSC$W_LENGTH] = .INPUT_DESC[DSC$W_LENGTH] - .RO;
309 0307 3 END; ! block to use output registers
310 0308 2 |
311 0309 2 | +
312 0310 2 | Translate the input device specification.
313 0311 2 | -
314 0312 2 |
315 0313 2 INPUT_ADDRESS = TRNLOG_BUFFER;
316 0314 2 TRNLOG_DESC[DSC$B_CLASS] = DSC$K_CLASS_2;
317 0315 2 TRNLOG_DESC[DSC$B_DTYPE] = DSC$K_DTYPE_2;
318 0316 2 TRNLOG_DESC[DSC$W_LENGTH] = LOG$C_NAMLENGTH;
319 0317 2 TRNLOG_DESC[DSC$A_POINTER] = .INPUT_ADDRESS;
320 0318 2 STATUS_2 = $TRNLOG(LOGNAM=INPUT_DESC, RSLLEN=TRNLOG_DESC, RSLBUF=TRNLOG_DESC);
321 0319 2 IF NOT .STATUS_2 THEN RETURN .STATUS_2;
322 0320 2 |
323 0321 2 | +
324 0322 2 | If the string has no translation, it does not represent a concealed device
325 0323 2 | or root directory specification.
326 0324 2 | -
327 0325 2 |
328 0326 2 IF .STATUS_2 EQL SSS_NOTRAN THEN RETURN LIB$_INVFILSPE;
329 0327 2 |
330 0328 2 | +
331 0329 2 | Uppcase and remove blanks, tabs, and nulls from the string.
332 0330 2 | -
333 0331 2 |
334 0332 2 INPUT_LENGTH = .TRNLOG_DESC[DSC$W_LENGTH];
335 0333 2 COMPRESS_CURSOR = .INPUT_ADDRESS;
336 0334 2 INCR N FROM 0 TO .INPUT_LENGTH-1 DO
337 0335 2     BEGIN
338 0336 2     LOCAL
339 0337 2     CHARACTER: BYTE;           ! Character from string
340 0338 2 |
341 0339 2 CHARACTER = .INPUT_ADDRESS[N];
342 0340 2 IF .CHARACTER NEQ %C' ' AND .CHARACTER NEQ %O'011' AND .CHARACTER NEQ 0
343 0341 2 THEN
344 0342 2     BEGIN
345 0343 2     IF .CHARACTER GEQU %C'a' AND .CHARACTER LEQU %C'z'
346 0344 2     THEN CHARACTER = .CHARACTER - %C'a' + %C'A';
    
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347 0345 4 COMPRESS_CURSOR[0] = .CHARACTER;
348 0346 4 COMPRESS_CURSOR = .COMPRESS_CURSOR + 1;
349 0347 3 END;
350 0348 2 END;
351 0349 2 INPUT_LENGTH = .COMPRESS_CURSOR - .INPUT_ADDRESS;
352 0350 2 DIR_LENGTH = 0;
353 0351 2
354 0352 2
355 0353 2 BEGIN ! block to use output registers
356 0354 3 REGISTER
357 0355 3 RO = 0;
358 0356 3 R1 = 1;
359 0357 3
360 0358 3 !+
361 0359 3 ! Test the string for the form "_any:any". If found, the portion of the
362 0360 3 ! string ending with the colon is a valid concealed device.
363 0361 3 !-
364 0362 3
365 0363 3 IF .INPUT_LENGTH LSSU 3 THEN RETURN LIB$_INVFILSPE; ! Not long enough
366 0364 3 IF .(.INPUT_ADDRESS)<0,16> NEQ '-'
367 0365 3 THEN RETURN LIB$_INVFILSPE; ! No double underline found
368 0366 3 IF NOT LOCC(%REF(%C:'), INPUT_LENGTH, .INPUT_ADDRESS; R0, R1)
369 0367 3 THEN RETURN LIB$_INVFILSPE; ! No colon found
370 0368 3 RO = .R0 - 1; ! Adjust count/pointer to include colon
371 0369 3 R1 = .R1 + 1;
372 0370 3 DEV_LENGTH = .R1 - .INPUT_ADDRESS; ! Length up to and including colon
373 0371 3 INPUT_ADDRESS = .R1; ! Prune device from string
374 0372 3 INPUT_LENGTH = .R0;
375 0373 2 END; ! block to use output registers
376 0374 2
377 0375 2 !+
378 0376 2 ! If there is no remaining string, exit with success, and no root
379 0377 2 ! directory.
380 0378 2 !-
381 0379 2
382 0380 2 IF .INPUT_LENGTH NEQ 0
383 0381 2 THEN
384 0382 3 BEGIN
385 0383 3
386 0384 4 BEGIN ! block to use output registers
387 0385 4 REGISTER
388 0386 4 RO = 0;
389 0387 4 R1 = 1; REF VECTOR[.BYTE];
390 0388 4
391 0389 4 !+
392 0390 4 ! Test the remaining string for the form "[any.]", where angle brackets
393 0391 4 ! may replace the square brackets. If found, this string is a valid
394 0392 4 ! root directory.
395 0393 4 !-
396 0394 4
397 0395 4 IF .INPUT_ADDRESS[0] NEQ %C '[' AND .INPUT_ADDRESS[0] NEQ %C '<'
398 0396 4 THEN RETURN LIB$_INVFILSPE; ! No directory delimiter
399 0397 4 DELIMITER = .INPUT_ADDRESS[0] - %C '[' + %C ']'; ! Get closing delimiter
400 0398 4 INPUT_ADDRESS = .INPUT_ADDRESS + 1; ! Prune delimiter from string
401 0399 4 INPUT_LENGTH = .INPUT_LENGTH - 1;
402 0400 4 DIR_ADDRESS = .INPUT_ADDRESS; ! Get pointer to beginning
403 0401 4 LOCC(%REF(%C:'), INPUT_LENGTH, .INPUT_ADDRESS; R0, R1);
```

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404 0402 4 IF .RO NEQ 2 THEN RETURN LIB$ _INVFILSPE; ! Dot followed by one character
405 0403 4 IF .R1[1] NEQ .DELIMITER THEN RETURN LIB$ _INVFILSPE; ! Wrong delimiter
406 0404 4 DIR_LENGTH = .R1 - .INPUT_ADDRESS; ! Get just intervening part
407 0405 3 END; ! block to use output registers
408 0406 3
409 0407 2 END;
410 0408 2
411 0409 2 !+
412 0410 2 ! Set up to detect string truncation.
413 0411 2 !-
414 0412 2
415 0413 2 ROUTINE_VALUE = SSS_NORMAL;
416 0414 2
417 0415 2 !+
418 0416 2 ! Re urn the concealed device specification, if requested, and determine if
419 0417 2 ! truncation occurred.
420 0418 2 !-
421 0419 2
422 0420 2 IF NOT NULLPARAMETER(2)
423 0421 2 THEN
424 0422 2 BEGIN
425 0423 2 REGISTER
426 0424 2 R1 = 1: WORD;
427 0425 2
428 0426 2 STATUS_3 = LIB$COPY R DX6(.DEV_LENGTH, TRNLOG_BUFFER, .CONCEALED_DEVICE);
429 0427 2 IF NOT .STATUS_3 THEN RETURN .STATUS_3;
430 0428 2 LIB$ANALYZE_SDESC R2(.CONCEALED_DEVICE; R1);
431 0429 2 IF .R1 LSSU .DEV_LENGTH
432 0430 2 THEN
433 0431 2 BEGIN
434 0432 2 DEV_LENGTH = .R1;
435 0433 2 ROUTINE_VALUE = LIB$ _STRTRU;
436 0434 2 END;
437 0435 2 END;
438 0436 2
439 0437 2 !+
440 0438 2 ! Return the length of the concealed device specification if requested.
441 0439 2 !-
442 0440 2
443 0441 2 IF NOT NULLPARAMETER(4)
444 0442 2 THEN
445 0443 2 (.CONCEALED_DEVICE_LENGTH)<0,16> = .DEV_LENGTH;
446 0444 2
447 0445 2 !+
448 0446 2 ! Return the root directory specification, if requested, and determine if
449 0447 2 ! truncation occurred.
450 0448 2 !-
451 0449 2
452 0450 2 IF NOT NULLPARAMETER(3)
453 0451 2 THEN
454 0452 2 BEGIN
455 0453 2 REGISTER
456 0454 2 R1 = 1: WORD;
457 0455 2
458 0456 2 STATUS_4 = LIB$COPY R DX6(.DIR_LENGTH, .DIR_ADDRESS, .ROOT_DIRECTORY);
459 0457 2 IF NOT .STATUS_4 THEN RETURN .STATUS_4;
460 0458 2 LIB$ANALYZE_SDESC_R2(.ROOT_DIRECTORY; R1);
    
```


Line	Label	Address	Op	Opnd	Code	Comment	Page
58		51	D6	0011A	INCL	R1	0369
		52	A3	0011C	SUBW3	INPUT ADDRESS, R1, DEV_LENGTH	0370
		51	D0	00120	MOVL	R1, INPUT_ADDRESS	0371
		53	70	9E 00123	MOVAB	-(R0), INPUT_LENGTH	0372
		2F	13	00126	BEQL	12\$	0380
	5B	8F	62	91 00128	CMPB	(INPUT_ADDRESS), #91	0395
		05	13	0012C	BEQL	9\$	
		3C	62	91 0012E	CMPB	(INPUT_ADDRESS), #60	
		18	12	00131	BNEQ	10\$	
54		82	02	81 00133	9\$:	ADDB3 #2, (INPUT_ADDRESS)+, DELIMITER	0397
		53	D7	00137	DECL	INPUT_LENGTH	0399
		5A	D0	00139	MOVL	INPUT_ADDRESS, DIR_ADDRESS	0400
62		53	2E	3A 0013C	LOCC	#46, INPUT_LENGTH, -(INPUT_ADDRESS)	0401
		02	50	D1 00140	CML	R0, #2	0402
		06	12	00143	BNEQ	10\$	
		54	01	A1 91 00145	CMPB	1(R1), DELIMITER	0403
		08	13	00149	BEQL	11\$	
		50	00000000G	8F D0 0014B	10\$:	MOVL #LIB\$_INVFILSPE, R0	
				04 00152	RET		
59		51	52	A3 00153	11\$:	SUBW3 INPUT ADDRESS, R1, DIR_LENGTH	0404
		57	01	D0 00157	12\$:	MOVL #1, ROUTINE_VALUE	0413
		02	6C	91 0015A	CMPB	(AP), #2	0420
			2D	1F 0015D	BLSSU	13\$	
			08	AC D5 0015F	TSTL	8(AP)	
			28	13 00162	BEQL	13\$	
		51	6E	9E 00164	MOVAB	TRNLOG BUFFER, R1	0426
		52	08	AC D0 00167	MOVL	CONCEALED DEVICE, R2	
		50	58	3C 0016B	MOVZWL	DEV_LENGTH, R0	
			00	16 0016E	JSB	LIB\$SCOPY_R DX6	
		66	50	E9 00174	BLBC	STATUS 3, -17\$	0427
		50	08	AC D0 00177	MOVL	CONCEALED DEVICE, R0	0428
			6B	16 0017B	JSB	LIB\$ANALYZE_SDESC_R2	
		58	51	B1 0017D	CMPW	R1, DEV_LENGTH	0429
			0A	1E 00180	BGEQU	13\$	
		58	51	B0 00182	MOVW	R1, DEV_LENGTH	0432
		57	00000000G	8F D0 00185	MOVL	#LIB\$_STRTRU, ROUTINE_VALUE	0433
		04	6C	91 0018C	13\$:	CMPB (AP), #4	0441
			09	1F 0018F	BLSSU	14\$	
			10	AC D5 00191	TSTL	16(AP)	
			04	13 00194	BEQL	14\$	
	10	BC	58	B0 00196	MOVW	DEV_LENGTH, @CONCEALED_DEVICE_LENGTH	0443
		03	6C	91 0019A	14\$:	CMPB (AP), #3	0450
			2D	1F 0019D	BLSSU	15\$	
			0C	AC D5 0019F	TSTL	12(AP)	
			28	13 001A2	BEQL	15\$	
		52	0C	AC D0 001A4	MOVL	ROOT DIRECTORY, R2	0456
		51	5A	D0 001A8	MOVL	DIR_ADDRESS, R1	
		50	59	3C 001AB	MOVZWL	DIR_LENGTH, R0	
			00	16 001AE	JSB	LIB\$SCOPY_R DX6	
		26	50	E9 001B4	BLBC	STATUS 4, -17\$	0457
		50	0C	AC D0 001B7	MOVL	ROOT DIRECTORY, R0	0458
			6B	16 001BB	JSB	LIB\$ANALYZE_SDESC_R2	
		59	51	B1 001BD	CMPW	R1, DIR_LENGTH	0459
			0A	1E 001C0	BGEQU	15\$	
		58	51	B0 001C2	MOVW	R1, DEV_LENGTH	0462
		57	00000000G	8F D0 001C5	MOVL	#LIB\$_STRTRU, ROUTINE_VALUE	0463
		05	6C	91 001CC	15\$:	CMPB (AP), #5	0471

```

      09 1F 001CF      BLSSU 16$
      14 AC D5 001D1   TSTL 20(AP)
      04 13 001D4      BEQL 16$
      14 BC 59 B0 001D6  MOVW DIR_LENGTH, @ROOT_DIRECTORY_LENGTH
      50 57 D0 001DA 16$:  MOVL ROUTINE_VALUE, R0
      04 001DD 17$:    RET
  
```

; Routine Size: 478 bytes, Routine Base: _LIB\$CODE + 0000

```

LIB$EXTRACT_CON LIB$EXTRACT_CONCEALED - Extract concealed devic 16-Sep-1984 02:26:06 VAX-11 Bliss-32 V4.0-742
V04-000 LIB$EXTRACT_CONCEALED - Extract concealed devic 14-Sep-1984 13:34:26 [VM$LIB.SRC]LIBEXTCON.B32;1
: 484 0481 1 END . End of module LIB$EXTRACT_CONCEALED
: 485 0482 0 ELUDOM

```

PSECT SUMMARY

Name	Bytes	Attributes
_LIB\$CODE	478	NOVEC,NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	Symbols		Pages Mapped	Processing Time
	Total	Loaded Percent		
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	69 0	1000	00:02.0

COMMAND QUALIFIERS

```

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

```

```

: Size: 478 code + 0 data bytes
: Run Time: 00:14.5
: Elapsed Time: 00:16.7
: Lines/CPU Min: 1994
: Lexemes/CPU-Min: 20238
: Memory Used: 238 pages
: Compilation Complete

```

