


```

1 0001 0 MODULE LIB$RENAME_FILE ( %TITLE 'Rename one or more files'
2 0002 0 IDENT = '1-006' ! File: LIB$RENAME.B32 Edit: BLS0331
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
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27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 **
31 0031 1 FACILITY: General Utility Library
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 LIB$RENAME_FILE renames one or more files.
36 0036 1
37 0037 1 ENVIRONMENT: User mode - AST reentrant
38 0038 1
39 0039 1 AUTHOR: Steven B. Lionel, CREATION DATE: 13-July-1982
40 0040 1
41 0041 1 MODIFIED BY:
42 0042 1
43 0043 1 1-001 - Original. SBL 13-July-1982
44 0044 1 1-002 - Add related-filespec argument. Pass FAB to confirm-routine.
45 0045 1 SBL 1-Oct-1982
46 0046 1 1-003 - Pass error source code to error-routine. SBL 11-Nov-1982
47 0047 1 1-004 - Allow for new argument to LIB$FILE_SCAN. BLS 6-FEB-1984
48 0048 1 1-005 - Correct related name string handling. Add new argument
49 0049 1 for filescan context. BLS 5-MAR-1984
50 0050 1 1-006 - Parse the null string after calling file_scan to free up
51 0051 1 internal RMS context. BLS 9-JUL-1984
52 0052 1 --
53 0053 1

```

```

: 55      0054 1 %SBTTL 'Declarations'
: 56      0055 1
: 57      0056 1 : PROLOGUE FILE:
: 58      0057 1
: 59      0058 1
: 60      0059 1 REQUIRE 'RTLIN:LIBPROLOG';           ! Switches, PSECTs, macros, etc.
: 61      0130 1
: 62      0131 1
: 63      0132 1 : LINKAGES:
: 64      0133 1
: 65      0134 1 :     NONE
: 66      0135 1
: 67      0136 1 : TABLE OF CONTENTS:
: 68      0137 1
: 69      0138 1
: 70      0139 1 FORWARD ROUTINE
: 71      0140 1     LIB$RENAME_FILE,           ! Rename one or more files
: 72      0141 1     DO RENAME: NOVALUE,       ! Rename a file
: 73      0142 1     RENAME_ERROR: NOVALUE,    ! Error routine
: 74      0143 1     COPY_RESULTANT_NAME,      ! Copy resultant filename
: 75      0144 1     RENAME_HANDLER;          ! Condition handler
: 76      0145 1
: 77      0146 1
: 78      0147 1 : MACROS:
: 79      0148 1
: 80      0149 1 :     NONE
: 81      0150 1
: 82      0151 1 : EQUATED SYMBOLS:
: 83      0152 1
: 84      0153 1 :     NONE
: 85      0154 1
: 86      0155 1 : FIELDS:
: 87      0156 1
: 88      0157 1
: 89      0158 1 : +
: 90      0159 1 : Define bit fields of FLAGS longword.
: 91      0160 1 : -
: 92      0161 1
: 93      0162 1 FIELD
: 94      0163 1     FLAGS_FIELDS =
: 95      0164 1     SET
: 96      0165 1
: 97      0166 1     V_NONEW_VERSION = [0,0,1,0] ! Don't create new version
: 98      0167 1     V_RESERVED   = [0,1,31,0] ! Reserved - MBZ
: 99      0168 1
: 100     0169 1     TES;
: 101     0170 1
: 102     0171 1
: 103     0172 1 : OWN STORAGE:
: 104     0173 1
: 105     0174 1 :     NONE
: 106     0175 1
: 107     0176 1 : EXTERNALS:
: 108     0177 1
: 109     0178 1
: 110     0179 1 EXTERNAL ROUTINE
: 111     0180 1     LIB$ANALYZE_SDESC_R2: LIB$ANALYZE_SDESC_R2$LINKAGE,

```

LIB\$RENAME_FILE Rename one or more files
1-006 Declarations

G 7
16-Sep-1984 01:10:50
14-Sep-1984 12:39:19

VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIB\$RENAME.B32;1

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LIB
1-0

```
.. 112      0181 1      LIB$FILE_SCAN,  
.. 113      0182 1      LIB$GET_VM,  
.. 114      0183 1      LIB$FREE_VM,  
.. 115      0184 1      LIB$COPY_DXDX,  
.. 116      0185 1      LIB$COPY_R_DX,  
.. 117      0186 1      LIB$SIG_TO_RET;  
.. 118      0187 1  
.. 119      0188 1      EXTERNAL LITERAL  
.. 120      0189 1      LIB$ERRROUCAL,  
.. 121      0190 1      LIB$INVARG,  
.. 122      0191 1      LIB$INVFILE$PE;
```

```

124 0192 1 %SBTTL 'LIB$RENAME FILE - Rename one or more files'
125 0193 1 GLOBAL ROUTINE LIB$RENAME FILE (
126 0194 1     OLD_FILESPEC: REF BLOCK [, BYTE],           ! Old file specification
127 0195 1     NEW_FILESPEC: REF BLOCK [, BYTE],        ! New file specification
128 0196 1     DEFAULT_FILESPEC: REF BLOCK [, BYTE],    ! Default old file specification
129 0197 1     RELATED_FILESPEC: REF BLOCK [, BYTE],    ! Related old file specification
130 0198 1     FLAGS: REF BLOCK [4, BYTE] FIELD (FLAGS_FIELDS), ! Option flags
131 0199 1     SUCCESS_ROUTINE,                          ! Called on successful rename
132 0200 1     ERROR_ROUTINE,                            ! Called on error
133 0201 1     CONFIRM_ROUTINE,                         ! Called for conformation
134 0202 1     USER_ARG,                                ! User argument
135 0203 1     OLD_RESULTANT_NAME: REF BLOCK [, BYTE],  ! Returned old filename
136 0204 1     NEW_RESULTANT_NAME: REF BLOCK [, BYTE],  ! Returned new filename
137 0205 1     FILE_SCAN_CONTEXT                        ! Context for filescan
138 0206 1 ) =
139 0207 1
140 0208 1 ++
141 0209 1 FUNCTIONAL DESCRIPTION:
142 0210 1
143 0211 1     LIB$RENAME_FILE changes the name(s) of one or more files. It is
144 0212 1     similar in function to the DCL RENAME command. The specification
145 0213 1     of the file(s) to be renamed may include wild cards.
146 0214 1
147 0215 1 CALLING SEQUENCE:
148 0216 1
149 0217 1     ret_status.wlc.v = LIB$RENAME FILE (
150 0218 1         OLD_FILESPEC.rt.dx, NEW_FILESPEC.rt.dx
151 0219 1         [, [DEFAULT_FILESPEC.rt.dx]
152 0220 1         [, [RELATED_FILESPEC.rt.dx]
153 0221 1         [, [FLAGS.r[u.r]
154 0222 1         [, [SUCCESS_ROUTINE.szem.r]
155 0223 1         [, [ERROR_ROUTINE.fzemlc.r]
156 0224 1         [, [CONFIRM_ROUTINE.fzemlc.r]
157 0225 1         [, [USER_ARG.rz]
158 0226 1         [, [OLD_RESULTANT_NAME.wt.dx]
159 0227 1         [, [NEW_RESULTANT_NAME.wt.dx]
160 0228 1         [, FILE_SCAN_CONTEXT.r[u.w]]]]]]]]))
161 0229 1
162 0230 1 FORMAL PARAMETERS:
163 0231 1
164 0232 1     OLD_FILESPEC - The file specification of the file(s)
165 0233 1                 to be renamed. Passed by descriptor.
166 0234 1                 The specification may include wild cards.
167 0235 1
168 0236 1     NEW_FILESPEC - The file specification for the new file
169 0237 1                 name(s). Passed by descriptor.
170 0238 1
171 0239 1     DEFAULT_FILESPEC - The default file specification of the file(s)
172 0240 1                 to be renamed. Passed by descriptor. This
173 0241 1                 is an optional parameter; if omitted, the
174 0242 1                 default is the null string.
175 0243 1
176 0244 1     RELATED_FILESPEC - The related file specification of the
177 0245 1                 files to be renamed. Passed by descriptor.
178 0246 1                 If omitted, the default is the null string.
179 0247 1                 "input file parsing" is used.
180 0248 1

```

```

181 0249 1
182 0250 1
183 0251 1
184 0252 1
185 0253 1
186 0254 1
187 0255 1
188 0256 1
189 0257 1
190 0258 1
191 0259 1
192 0260 1
193 0261 1
194 0262 1
195 0263 1
196 0264 1
197 0265 1
198 0266 1
199 0267 1
200 0268 1
201 0269 1
202 0270 1
203 0271 1
204 0272 1
205 0273 1
206 0274 1
207 0275 1
208 0276 1
209 0277 1
210 0278 1
211 0279 1
212 0280 1
213 0281 1
214 0282 1
215 0283 1
216 0284 1
217 0285 1
218 0286 1
219 0287 1
220 0288 1
221 0289 1
222 0290 1
223 0291 1
224 0292 1
225 0293 1
226 0294 1
227 0295 1
228 0296 1
229 0297 1
230 0298 1
231 0299 1
232 0300 1
233 0301 1
234 0302 1
235 0303 1
236 0304 1
237 0305 1
  
```

FLAGS

- A longword of flag bits specifying optional behavior. This is an optional parameter, the default is that all flags are clear.

V_NONEW_VERSION - Bit 0

In the case where NEW_FILESPEC does not specify a version number, controls whether or not a new version number for the output file is to be assigned.

If clear, the default, the output file has a version number one higher than any previously existing file of the same file name and file type. If set, the version number of the input file is used; if a file already exists with the same file name, type and version number, an error is returned.

This flag is equivalent to the /NONEW_VERSION qualifier of the DCL RENAME command.

SUCCESS_ROUTINE

- The entry mask of a routine to call for each successful rename, passed by reference. The calling format of the SUCCESS_ROUTINE is as follows:

```

CALL SUCCESS_ROUTINE (
    old_filespec.rt.ds,
    new_filespec.rt.ds,
    user_arg.rz)
  
```

old_filespec - The RMS resultant file specification of the file being renamed. If OLD_RESULTANT_NAME was specified, it is used to pass the string to SUCCESS_ROUTINE. Otherwise, a class S, type T string is passed.

new_filespec - The RMS resultant file specification of the newly renamed file. If NEW_RESULTANT_NAME was specified, it is used to pass the string to SUCCESS_ROUTINE. Otherwise, a class S, type T string is passed.

user_arg - The value of user arg passed to LIB\$RENAME_FILE is passed to SUCCESS_ROUTINE using the same mechanism as was used to pass it to LIB\$RENAME_FILE.

ERROR_ROUTINE

- The entry mask of a routine to call when a file error is detected, passed by reference. The function value returned by the routine determines whether or not more files will be processed.

```

238 0306 1
239 0307 1
240 0308 1
241 0309 1
242 0310 1
243 0311 1
244 0312 1
245 0313 1
246 0314 1
247 0315 1
248 0316 1
249 0317 1
250 0318 1
251 0319 1
252 0320 1
253 0321 1
254 0322 1
255 0323 1
256 0324 1
257 0325 1
258 0326 1
259 0327 1
260 0328 1
261 0329 1
262 0330 1
263 0331 1
264 0332 1
265 0333 1
266 0334 1
267 0335 1
268 0336 1
269 0337 1
270 0338 1
271 0339 1
272 0340 1
273 0341 1
274 0342 1
275 0343 1
276 0344 1
277 0345 1
278 0346 1
279 0347 1
280 0348 1
281 0349 1
282 0350 1
283 0351 1
284 0352 1
285 0353 1
286 0354 1
287 0355 1
288 0356 1
289 0357 1
290 0358 1
291 0359 1
292 0360 1
293 0361 1
294 0362 1
  
```

The calling format of the ERROR_ROUTINE is as follows:

```

ret_status.wlc.v = ERROR_ROUTINE (
  old_filespec.rt.ds,
  new_filespec.rt.ds,
  RMS_sts.rlc.r,
  RMS_stv.rlc.r,
  error_source.rl.r,
  user_arg.rz)
  
```

old_filespec - The RMS resultant file specification of the file being renamed when the error occurred. If OLD_RESULTANT_NAME was specified, it is used to pass the string to ERROR_ROUTINE. Otherwise, a class S, type T string is passed.

new_filespec - The RMS resultant file specification of the new file name being used when the error occurred. If NEW_RESULTANT_NAME was specified, it is used to pass the string to ERROR_ROUTINE. Otherwise, a class S, type T string is passed.

RMS_sts - The primary condition code which describes the error that occurred.

RMS_stv - The secondary condition code which describes the error that occurred.

error_source - An integer code that indicates at what point the error was found. The values are:
 0 = Error searching for old-file
 1 = Error parsing new filespec
 2 = Error renaming file

user_arg - The value of user_arg passed to LIB\$RENAME_FILE is passed to ERROR_ROUTINE using the same mechanism as was used to pass it to LIB\$RENAME_FILE.

If ERROR_ROUTINE returns a success status, then processing of files will continue. If a failure status is returned, then processing will cease immediately and LIB\$RENAME_FILE will return with an error status.

If ERROR_ROUTINE is not specified,

295 0363 1
296 0364 1
297 0365 1
298 0366 1
299 0367 1
300 0368 1
301 0369 1
302 0370 1
303 0371 1
304 0372 1
305 0373 1
306 0374 1
307 0375 1
308 0376 1
309 0377 1
310 0378 1
311 0379 1
312 0380 1
313 0381 1
314 0382 1
315 0383 1
316 0384 1
317 0385 1
318 0386 1
319 0387 1
320 0388 1
321 0389 1
322 0390 1
323 0391 1
324 0392 1
325 0393 1
326 0394 1
327 0395 1
328 0396 1
329 0397 1
330 0398 1
331 0399 1
332 0400 1
333 0401 1
334 0402 1
335 0403 1
336 0404 1
337 0405 1
338 0406 1
339 0407 1
340 0408 1
341 0409 1
342 0410 1
343 0411 1
344 0412 1
345 0413 1
346 0414 1
347 0415 1
348 0416 1
349 0417 1
350 0418 1
351 0419 1

CONFIRM_ROUTINE

LIB\$RENAME_FILE will return to its caller with the most severe of the error statuses encountered while renaming the files. Otherwise, if ERROR_ROUTINE is called for an error, the success status LIB\$ERRROUCAL is returned. Note that ERROR_ROUTINE is not called for errors related to string copying.

- The entry mask of a routine to call before each file is renamed, passed by reference. The function value returned by the routine determines whether or not the file will be renamed.

The calling format of CONFIRM_ROUTINE is as follows:

```
ret_status.wlc.v = CONFIRM_ROUTINE (  
    old_filespec.rt.ds,  
    new_filespec.rt.ds,  
    old_FAB.rr.r,  
    user_arg.rz)
```

old_filespec - The RMS resultant file specification of the file about to be renamed. If OLD_RESULTANT_NAME was specified, it is used to pass the string to CONFIRM_ROUTINE. Otherwise, a class S, type T string is passed.

new_filespec - The RMS resultant file specification which the file will be given. If NEW_RESULTANT_NAME was specified, it is used to pass the string to CONFIRM_ROUTINE. Otherwise, a class S, type T string is passed.

old_FAB - The address of the RMS FAB that describes the file being renamed. You may perform an RMS \$OPEN on the FAB to obtain file attributes you need to determine whether the file should be renamed, but you must close the file with \$CLOSE before returning to LIB\$RENAME_FILE

user_arg - The value of user_arg passed to LIB\$RENAME_FILE is passed to CONFIRM_ROUTINE using the same mechanism as was used to pass it to LIB\$RENAME_FILE.

If CONFIRM_ROUTINE returns success, the file is then renamed, otherwise that file is not

```

352 0420 1 1 renamed.
353 0421 1
354 0422 1 USER_ARG - A value passed to SUCCESS_ROUTINE,
355 0423 1 ERROR_ROUTINE and CONFIRM_ROUTINE each
356 0424 1 time they are called. Whatever mechanism
357 0425 1 is used to pass USER_ARG to LIB$RENAME_FILE is
358 0426 1 used to pass it to the action routine. This
359 0427 1 is an optional parameter, if omitted, zero
360 0428 1 is passed by immediate value.
361 0429 1
362 0430 1 OLD_RESULTANT_NAME - A string into which is written the old RMS resultant
363 0431 1 file specification of the last file processed
364 0432 1 by LIB$RENAME_FILE. Passed by descriptor.
365 0433 1 This is an optional parameter. If present,
366 0434 1 it is used to store the filespec passed to
367 0435 1 the action routines instead of a default
368 0436 1 class S, type T string.
369 0437 1
370 0438 1 NEW_RESULTANT_NAME - A string into which is written the new RMS resultant
371 0439 1 file specification of the last file processed
372 0440 1 by LIB$RENAME_FILE. Passed by descriptor.
373 0441 1 This is an optional parameter. If present,
374 0442 1 it is used to store the filespec passed to
375 0443 1 the action routines instead of a default
376 0444 1 class S, type T string.
377 0445 1
378 0446 1 FILE_SCAN_CONTEXT - The address of a longword, which is
379 0447 1 initialized to 0 before calling LIB$RENAME_FILE.
380 0448 1 This context is used by LIB$FILE_SCAN to retain
381 0449 1 multiple input file related file context, and
382 0450 1 need only be specified if dealing with multiple
383 0451 1 input files, as the DCL RENAME command does.
384 0452 1 The context allocated by LIB$FILE_SCAN while
385 0453 1 processing the LIB$RENAME_FILE requests may
386 0454 1 be deallocated by calling LIB$FILE_SCAN_END
387 0455 1 after all calls to LIB$RENAME_FILE have been
388 0456 1 completed.
389 0457 1
390 0458 1 IMPLICIT INPUTS:
391 0459 1
392 0460 1 NONE
393 0461 1
394 0462 1 IMPLICIT OUTPUTS:
395 0463 1
396 0464 1 NONE
397 0465 1
398 0466 1 COMPLETION STATUS:
399 0467 1
400 0468 1 SSS NORMAL Normal successful completion
401 0469 1 LIB$_ERRROUCAL Success - error routine called. A file error occurred
402 0470 1 but ERROR_ROUTINE was called to handle the condition.
403 0471 1 LIB$_INVSTRDES Invalid string descriptor
404 0472 1 LIB$_INVARG Invalid argument. FLAGS has undefined bits set.
405 0473 1 LIB$_INVFILSPE Invalid file specification. OLD_FILESPEC, NEW_FILESPEC
406 0474 1 or DEFAULT_OLD_FILESPEC contains more than 255 characters.
407 0475 1 LIB$_WRONUMARG Wrong number of arguments.
408 0476 1 LIB$_xxx Any error status from LIB$SCOPY_xxx
  
```



```

466 0534 2
467 0535 2
468 0536 2
469 0537 2
470 0538 2
471 0539 2
472 0540 2
473 0541 2
474 0542 2
475 0543 2
476 P 0544 2
477 0545 2
478 0546 2
479 P 0547 2
480 0548 2
481 P 0549 2
482 0550 2
483 P 0551 2
484 0552 2
485 P 0553 2
486 0554 2
487 0555 2
488 0556 2
489 0557 2
490 0558 2
491 0559 2
492 0560 2
493 0561 2
494 0562 2
495 0563 2
496 0564 2
497 0565 2
498 0566 2
499 0567 2
500 0568 2
501 0569 2
502 0570 2
503 0571 2
504 0572 2
505 0573 2
506 0574 2
507 0575 2
508 0576 2
509 0577 2
510 0578 2
511 0579 2
512 0580 2
513 0581 2
514 0582 2
515 0583 2
516 0584 2
517 0585 2
518 0586 2
519 0587 2
520 0588 2
521 0589 2
522 0590 2

$LIB$VALIDATE_ARGCOUNT (2,12);

!+
! Initialize the FAB and NAM blocks. See DO_RENAME for a description
! of NEWFAB's DNA field.
!-

$FAB_INIT (FAB=OLDFAB, NAM=OLDNAM);
$FAB_INIT (FAB=OLDFAB_R, NAM=OLDNAM_R, FNA=OLD_RSN);
$FAB_INIT (FAB=NEWFAB, NAM=NEWNAM,
DNA = UPLIT BYTE (';*'));
$FAB_INIT (FAB=NEWFAB_R, FNA=NEW_RSN, NAM=NEWNAM, FOP=(OFP));
$NAM_INIT (NAM=OLDNAM, ESA=OLD_ESN, ESS=NAM$C_MAXRSS,
RSA=OLD_RSN, RSS=NAM$C_MAXRSS, RLF=RLF_NAM);
$NAM_INIT (NAM=OLDNAM_R, ESA=OLD_RSN, ESS=NAM$C_MAXRSS,
RSA=OLD_RSN, RSS=NAM$C_MAXRSS);
$NAM_INIT (NAM=NEWNAM, ESA=NEW_RSN, ESS=NAM$C_MAXRSS,
RSA=NEW_RSN, RSS=NAM$C_MAXRSS, RLF=OLDNAM);
$NAM_INIT (NAM=NEWNAM_R, ESA=NEW_RSN, ESS=NAM$C_MAXRSS,
RSA=NEW_RSN, RSS=NAM$C_MAXRSS, RLF=OLDNAM);
$NAM_INIT (NAM=RLF_NAM);

!+
! Initialize WORST_ERROR to zero. It will be modified if errors occur.
!-

WORST_ERROR = 0;

!+
! Set up OLDFAB for the old file specification. Return LIB$_INVFILSPE
! if the string is longer than 255 characters.
!-

BEGIN
LOCAL
OLD_FILESPEC_LENGTH: WORD, ! Length of OLD_FILESPEC string
STATUS; ! Status from LIB$ANALYZE_SDESC.

STATUS = LIB$ANALYZE_SDESC R2 (OLD_FILESPEC [0,0,0,0];
OLD_FILESPEC_LENGTH, OLDFAB [FAB$L_FNA]);

IF NOT .STATUS
THEN
RETURN .STATUS;

IF .OLD_FILESPEC_LENGTH GTRU 255
THEN
RETURN LIB$_INVFILSPE;

OLDFAB [FAB$L_FNS] = .OLD_FILESPEC_LENGTH;
END;

!+
! Set up NEWFAB to refer to NEW_FILENAME. Return LIB$_INVFILSPE
! if the string is longer than 255 characters.
!-

```

```
523 0591 2 :-  
524 0592 2  
525 0593 2 BEGIN  
526 0594 2  
527 0595 2 LOCAL  
528 0596 2 NEW_FILESPEC_LENGTH,  
529 0597 2 STATUS; ! Status from LIB$ANALYZE_SDESC.  
530 0598 2  
531 0599 2 STATUS = LIB$ANALYZE_SDESC R2 (NEW_FILESPEC [0,0,0,0];  
532 0600 2 NEW_FILESPEC_LENGTH, NEWFAB [FABS_L_FNA]);  
533 0601 2  
534 0602 2 IF NOT .STATUS  
535 0603 2 THEN  
536 0604 2 RETURN .STATUS;  
537 0605 2  
538 0606 2 IF .NEW_FILESPEC_LENGTH GTRU 255  
539 0607 2 THEN  
540 0608 2 RETURN LIB$_INVFILSPE;  
541 0609 2  
542 0610 2 NEWFAB [FABS_B_FNS] = .NEW_FILESPEC_LENGTH;  
543 0611 2 END;  
544 0612 2  
545 0613 2  
546 0614 2 !+  
547 0615 2 | If DEFAULT_OLD_FILESPEC is present, set up the default name string  
548 0616 2 | in OLDFAB to refer to it.  
549 0617 2 | -  
550 0618 2  
551 0619 2 IF NOT NULLPARAMETER (3)  
552 0620 2 THEN  
553 0621 2 BEGIN  
554 0622 2 LOCAL  
555 0623 2 DEFAULT_FILESPEC_LENGTH: WORD, ! Length of DEFAULT_FILESPEC string  
556 0624 2 STATUS; ! Status from LIB$ANALYZE_SDESC.  
557 0625 2  
558 0626 2 STATUS = LIB$ANALYZE_SDESC R2 (DEFAULT_FILESPEC [0,0,0,0];  
559 0627 2 DEFAULT_FILESPEC_LENGTH, OLDFAB [FABS_L_DNA]);  
560 0628 2  
561 0629 2 IF NOT .STATUS  
562 0630 2 THEN  
563 0631 2 RETURN .STATUS;  
564 0632 2  
565 0633 2 IF .DEFAULT_FILESPEC_LENGTH GTRU 255  
566 0634 2 THEN  
567 0635 2 RETURN LIB$_INVFILSPE;  
568 0636 2  
569 0637 2 OLDFAB [FABS_B_DNS] = .DEFAULT_FILESPEC_LENGTH;  
570 0638 2 END;  
571 0639 2  
572 0640 2  
573 0641 2 !+  
574 0642 2 | If RELATED_FILESPEC is present, set up the related file specification  
575 0643 2 | in RLF_NAM to refer to it.  
576 0644 2 | -  
577 0645 2  
578 0646 2 RLF_DESC[DSC$W_LENGTH] = 0;  
579 0647 2 RLF_DESC[DSC$B_DTYPE] = DSC$K_DTYPE_T;  
RLF_DESC[DSC$B_CLASS] = DSC$K_CLASS_D;
```

; R

```
580 0648 2 RLF_DESC[DSC$A_POINTER] = 0;
581 0649 2 IF NOT NULLPARAMETER (4)
582 0650 2 AND NULLPARAMETER (12)
583 0651 2 THEN
584 0652 2 BEGIN
585 0653 2
586 0654 2 LOCAL
587 0655 2 RELATED_FILESPEC_LENGTH: WORD, ! Length of RELATED_FILESPEC string
588 0656 2 RELATED_FILESPEC_ADDR, ! and it's address
589 0657 2 STATUS; ! Status from LIB$ANALYZE_SDESC.
590 0658 2
591 0659 2 STATUS = LIB$ANALYZE_SDESC R2 (RELATED_FILESPEC [0,0,0,0];
592 0660 2 RELATED_FILESPEC_LENGTH, RELATED_FILESPEC_ADDR);
593 0661 2 IF NOT .STATUS
594 0662 2 THEN
595 0663 2 RETURN .STATUS;
596 0664 2
597 0665 2 IF .RELATED_FILESPEC_LENGTH GTRU 255
598 0666 2 THEN
599 0667 2 RETURN LIB$_INVFILSPE;
600 0668 2
601 0669 2 ! Must use LIB$GET_VM since LIB$FILE_SCAN may deallocate with FREE_VM
602 0670 2 STATUS = LIB$GET_VM(RELATED_FILESPEC_LENGTH, RLF_DESC[DSC$A_POINTER]);
603 0671 2 RLF_DESC[DSC$W_LENGTH] = .RELATED_FILESPEC_LENGTH;
604 0672 2 CH$MOVE(.RLF_DESC[DSC$W_LENGTH], .RELATED_FILESPEC_ADDR,
605 0673 2 .RLF_DESC[DSC$A_POINTER]);
606 0674 2 RLF_NAM[NAM$B_RSL] = .RLF_DESC[DSC$W_LENGTH];
607 0675 2 RLF_NAM[NAM$S_RSA] = .RLF_DESC[DSC$A_POINTER];
608 0676 2 END;
609 0677 2
610 0678 2 !+
611 0679 2 ! Verify that reserved bits aren't set in FLAGS, if present.
612 0680 2 !-
613 0681 2
614 0682 2 IF NOT NULLPARAMETER (5)
615 0683 2 THEN
616 0684 2 IF .FLAGS [V_RESERVED] NEQ 0
617 0685 2 THEN
618 0686 2 RETURN LIB$_INVARG;
619 0687 2
620 0688 2
621 0689 2 ! If passing context to lib$file_scan, then ensure that we
622 0690 2 ! don't confuse things with a dummy related nam block
623 0691 2
624 0692 2 IF NOT NULLPARAMETER(12)
625 0693 2 THEN OLDNAM[NAM$S_RLF] = 0;
626 0694 2 !+
627 0695 2 ! Call LIB$FILE_SCAN, which will call DO_RENAME for each file that is
628 0696 2 ! to be renamed. Pass as extra parameters the other FABs.
629 0697 2 ! These will be passed to DO_RENAME.
630 0698 2 !-
631 0699 2
632 0700 2 LIB$FILE_SCAN (
633 0701 2 OLDFAB, ! Input FAB
634 0702 2 DO_RENAME, ! Success routine
635 0703 2 RENAME_ERROR, ! Error routine
636 0704 2 (IF ACTUALCOUNT () GEQU 12 THEN .FILE_SCAN_CONTEXT ELSE 0), ! Context
```

```

637      NEWFAB,
638      OLDFAB_R,
639      NEWFAB_R,
640      (IF NOT NULLPARAMETER (5) THEN .FLAGS [0,0,32,0] ELSE 0), ! Flags
641      (IF ACTUALCOUNT ( ) GEQU 6 THEN .SUCCESS_ROUTINE ELSE 0), ! Success routine
642      (IF ACTUALCOUNT ( ) GEQU 7 THEN .ERROR_ROUTINE ELSE 0), ! Error routine
643      (IF ACTUALCOUNT ( ) GEQU 8 THEN .CONFIRM_ROUTINE ELSE 0), ! Confirm routine
644      (IF ACTUALCOUNT ( ) GEQU 9 THEN .USER_ARG ELSE 0), ! User argument
645      (IF ACTUALCOUNT ( ) GEQU 10 THEN .OLD_RESULTANT_NAME ELSE 0), ! Old resultant name
646      (IF ACTUALCOUNT ( ) GEQU 11 THEN .NEW_RESULTANT_NAME ELSE 0), ! New resultant name
647      WORST_ERROR, ! Worst error so far
648      INTERCEPT_FLAG); ! Signal intercept flag
649
650      LIB$FREE_VM(RLF_DESC[DSC$W_LENGTH],
651                RLF_DESC[DSC$A_POINTER]); !Deallocate temp descriptor
652
653      !+
654      ! Parse the null string to deallocate any internal
655      ! RMS context.
656      !-
657
658      OLDNAM[NAM$V_SVCTX] = 0;
659      OLDNAM[NAM$V_SYNCHK] = 1;
660      OLDNAM[NAM$B_ESL] = 0;
661      OLDNAM[NAM$B_RSL] = 0;
662      OLDNAM[NAM$B_ESS] = 0;
663      OLDNAM[NAM$B_RSS] = 0;
664      OLDNAM[NAM$S_RLF] = 0;
665      OLDFAB[FAB$B_FNS] = 0;
666      OLDFAB[FAB$B_DNS] = 0;
667      $PARSE(FAB=0[DFAB]);
668
669      !+
670      ! Return WORST_ERROR or SS$_NORMAL, as appropriate.
671      !-
672
673      IF .WORST_ERROR NEQ 0
674      THEN
675          RET_STATUS = .WORST_ERROR
676      ELSE
677          RET_STATUS = SS$_NORMAL;
678
679      RETURN .RET_STATUS;
680
681      END;
  
```

! End of routine LIB\$RENAME_FILE

```

.TITLE LIB$RENAME_FILE Rename one or more files
.IDENT \1-006\
.PSECT _LIB$CODE,NOWRT, SHR, PIC,2
2A 3B 0000 P.AAA: .ASCII \;* \
;
.EXTRN LIB$ANALYZE SDESC R2
.EXTRN LIB$FILE_SCAN, LIB$GET_VM
.EXTRN LIB$FREE_VM, LIB$SCOPY_DXDX
.EXTRN LIB$SCOPY_R_DX, LIB$SIG_TO_RET
  
```


0060	8F	00	6E		00	2C	0011E	MOVCS	#0, (SP), #0, #96, \$RMS_PTR	0552
			FDA0	CD	FDA0	CD	00125			
			FDA2	CD	6002	8F	B0	00128	MOVW	#24578, \$RMS_PTR
			FDA4	CD	14	AE	9E	00134	MNEGB	#1, \$RMS_PTR+2
			FDA4	CD		AE	9E	00134	MOVAB	NEW_RSN, \$RMS_PTR+4
			FDA4	CD		01	8E	0013A	MNEGB	#1, \$RMS_PTR+10
			FDA4	CD	14	AE	9E	0013F	MOVAB	NEW_RSN, \$RMS_PTR+12
			FDA4	CD		AE	9E	0013F	MOVAB	OLDNAM, \$RMS_PTR+16
0060	8F	00	FDB0	CD	FE60	CD	9E	00145	MOVAB	0554
				CD		00	2C	0014C	MOVCS	#0, (SP), #0, #96, \$RMS_PTR
				CD	FD40	CD		00153		
			FD40	CD	6002	8F	B0	00156	MOVW	#24578, \$RMS_PTR
			FD42	CD		01	8E	0015D	MNEGB	#1, \$RMS_PTR+2
			FD44	CD	14	AE	9E	00162	MOVAB	NEW_RSN, \$RMS_PTR+4
			FD44	CD		01	8E	00168	MNEGB	#1, \$RMS_PTR+10
			FD4A	CD	14	AE	9E	0016D	MOVAB	NEW_RSN, \$RMS_PTR+12
			FD4C	CD		AE	9E	0016D	MOVAB	OLDNAM, \$RMS_PTR+16
0060	8F	00	FD50	CD	FE60	CD	9E	00173	MOVAB	0555
				CD		00	2C	0017A	MOVCS	#0, (SP), #0, #96, \$RMS_PTR
				CD	0314	CE		00181		
			0314	CE	6002	8F	B0	00184	MOVW	#24578, \$RMS_PTR
				CD	04	AE	D4	0018B	CLRL	WORST_ERROR
				CD	04	AC	D0	0018E	MOVL	OLD_FILESPEC, R0
				CD		66	16	00192	JSB	LIB\$ANALYZE_SDESC_R2
			DC	AD		52	D0	00194	MOVL	R2, OLDFAB+44
				CD		50	E9	00198	BLBC	STATUS, 4\$
			00FF	8F		51	B1	0019B	CMPW	OLD_FILESPEC_LENGTH, #255
				CD		75	1A	001A0	BGTRU	6\$
			E4	AD		51	90	001A2	MOVB	OLD_FILESPEC_LENGTH, OLDFAB+52
				CD	08	AC	D0	001A6	MOVL	NEW_FILESPEC, R0
				CD		66	16	001AA	JSB	LIB\$ANALYZE_SDESC_R2
			FF3C	CD		52	D0	001AC	MOVL	R2, NEWFAB+44
				CD		50	E9	001B1	BLBC	STATUS, 4\$
			000000FF	8F		51	D1	001B4	CMPB	NEW_FILESPEC_LENGTH, #255
				CD		5A	1A	001BB	BGTRU	6\$
			FF44	CD		51	90	001BD	MOVB	NEW_FILESPEC_LENGTH, NEWFAB+52
				CD		6C	91	001C2	CMPB	(APT, #3)
				CD		1D	1F	001C5	BLSSU	2\$
				CD	0C	AC	D5	001C7	TSTL	12(AP)
				CD		18	13	001CA	BEQL	2\$
				CD	50	AC	D0	001CC	MOVL	DEFAULT_FILESPEC, R0
				CD		66	16	001D0	JSB	LIB\$ANALYZE_SDESC_R2
			E0	AD		52	D0	001D2	MOVL	R2, OLDFAB+48
				CD		50	E9	001D6	BLBC	STATUS, 4\$
			00FF	8F		51	B1	001D9	CMPW	DEFAULT_FILESPEC_LENGTH, #255
				CD		37	1A	001DE	BGTRU	6\$
			E5	AD		51	90	001E0	MOVB	DEFAULT_FILESPEC_LENGTH, OLDFAB+53
			0C	AE	020E0000	8F	D0	001E4	MOVL	#34471936, RLF_DESC
				CD	10	AE	D4	001EC	CLRL	RLF_DESC+4
				CD	04	6C	91	001EF	CMPB	(APT, #4)
				CD		4E	1F	001F2	BLSSU	8\$
				CD	10	AC	D5	001F4	TSTL	16(AP)
				CD		49	13	001F7	BEQL	8\$
				CD	0C	6C	91	001F9	CMPB	(APT, #12)
				CD		05	1F	001FC	BLSSU	3\$
				CD	30	AC	D5	001FE	TSTL	48(AP)
				CD		3F	12	00201	BNEQ	8\$
				CD	50	AC	D0	00203	MOVL	RELATED_FILESPEC, R0
				CD	10	66	16	00207	JSB	LIB\$ANALYZE_SDESC_R2

		6E		51	D0	00209		MOVL	R1, RELATED_FILESPEC_LENGTH		
		01		50	E8	0020C	4\$:	BLBS	STATUS, 5\$		0661
					04	0020F		RET			
		00FF		8F	6E	31 00210	5\$:	CMPW	RELATED_FILESPEC_LENGTH, #255		0665
					0A	1B 00215		BLEQU	7\$		
				50	D0	00217	6\$:	MOVL	#LIB\$_INVFILSPE, R0		0667
					04	0021E		RET			
					10	9F 0021F	7\$:	PUSHAB	RLF_DESC+4		0670
					04	9F 00222		PUSHAB	RELATED_FILESPEC_LENGTH		
		00000000G		00	02	FB 00225		CALLS	#2, LIB\$GET_VM		
					6E	B0 0022C		MOVW	RELATED_FILESPEC_LENGTH, RLF_DESC		0671
10	BE			62	AE	28 00230		MOVC3	RLF_DESC, (RELATED_FILESPEC_ADDR), -		0673
									@RLF_DESC+4		
		0317		CE	AE	90 00236		MOVW	RLF_DESC, RLF_NAM+3		0674
		0318		CE	AE	D0 0023C		MOVL	RLF_DESC+4, RLF_NAM+4		0675
				05	6C	91 00242	8\$:	CMPB	(APT), #5		0682
					15	1F 00245		BLSSU	9\$		
					14	AC D5 00247		TSTL	20(AP)		
					10	13 0024A		BEQL	9\$		
00	14	BC		1F	01	ED 0024C		CMPZV	#1, #31, @FLAGS, #0		0684
					08	13 00252		BEQL	9\$		
				50	D0	00254		MOVL	#LIB\$_INVARG, R0		0686
					04	0025B		RET			
				0C	6C	91 0025C	9\$:	CMPB	(AP), #12		0692
					09	1F 0025F		BLSSU	10\$		
					30	AC D5 00261		TSTL	48(AP)		
					04	13 00264		BEQL	10\$		
				FE70	CD	D4 00266		CLRL	OLDNAM+16		0693
				08	AE	9F 0026A	10\$:	PUSHAB	INTERCEPT_FLAG		0700
				08	AE	9F 0026D		PUSHAB	WORST_ERROR		
				0B	6C	91 00270		CMPB	(AP), #11		0714
					05	1F 00273		BLSSU	11\$		
					2C	AC DD 00275		PUSHL	NEW_RESULTANT_NAME		
					02	11 00278		BRB	12\$		
					7E	D4 0027A	11\$:	CLRL	-(SP)		
				0A	6C	91 0027C	12\$:	CMPB	(AP), #10		0713
					05	1F 0027F		BLSSU	13\$		
					28	AC DD 00281		PUSHL	OLD_RESULTANT_NAME		
					02	11 00284		BRB	14\$		
					7E	D4 00286	13\$:	CLRL	-(SP)		
				09	6C	91 00288	14\$:	CMPB	(AP), #9		0712
					05	1F 0028B		BLSSU	15\$		
					24	AC DD 0028D		PUSHL	USER_ARG		
					02	11 00290		BRB	16\$		
					7E	D4 00292	15\$:	CLRL	-(SP)		
				08	6C	91 00294	16\$:	CMPB	(AP), #8		0711
					05	1F 00297		BLSSU	17\$		
					20	AC DD 00299		PUSHL	CONFIRM_ROUTINE		
					02	11 0029C		BRB	18\$		
					7E	D4 0029E	17\$:	CLRL	-(SP)		
				07	6C	91 002A0	18\$:	CMPB	(AP), #7		0710
					05	1F 002A3		BLSSU	19\$		
					1C	AC DD 002A5		PUSHL	ERROR_ROUTINE		
					02	11 002A8		BRB	20\$		
					7E	D4 002AA	19\$:	CLRL	-(SP)		
				06	6C	91 002AC	20\$:	CMPB	(AP), #6		0709
					05	1F 002AF		BLSSU	21\$		


```

: 682 0749 1 %SBTTL 'DO_RENAME - Rename a file'
: 683 0750 1 ROUTINE DO_RENAME (
: 684 0751 1   OLDFAB: REF $FAB_DECL,           ! Next input file FAB
: 685 0752 1   UNUSED_1,                   ! Unused here
: 686 0753 1   UNUSED_2,                   ! Unused here
: 687 0754 1   UNUSED_3,                   ! Unused here
: 688 0755 1   NEWFAB: REF $FAB_DECL,       ! FAB for $PARSE
: 689 0756 1   OLDFAB_R: REF $FAB_DECL,    ! Source for $RENAME
: 690 0757 1   NEWFAB_R: REF $FAB_DECL,    ! Dest for $RENAME
: 691 0758 1   FLAGS: BLOCK [4, BYTE] FIELD (FLAGS_FIELDS), ! Option flags
: 692 0759 1   SUCCESS_ROUTINE,           ! Success routine address
: 693 0760 1   UNUSED_4,                   ! Unused here
: 694 0761 1   CONFIRM_ROUTINE,           ! Confirm routine address
: 695 0762 1   USER_ARG,                   ! User argument
: 696 0763 1   OLD_RESULTANT_NAME: REF BLOCK [, BYTE], ! Old resultant filename
: 697 0764 1   NEW_RESULTANT_NAME: REF BLOCK [, BYTE], ! New resultant filename
: 698 0765 1   UNUSED_5,                   ! Unused here
: 699 0766 1   INTERCEPT_FLAG: REF VECTOR [, LONG] ! Intercept flag
: 700 0767 1   ): NOVALUE =
: 701 0768 1
: 702 0769 1 ++
: 703 0770 1 FUNCTIONAL DESCRIPTION:
: 704 0771 1
: 705 0772 1   This routine is called once for each file that LIB$FILE_SCAN
: 706 0773 1   finds. It renames the file described by OLDFAB to the filename
: 707 0774 1   specified by NEWFAB.
: 708 0775 1
: 709 0776 1 CALLING SEQUENCE:
: 710 0777 1
: 711 0778 1   DO_RENAME is called by LIB$FILE_SCAN with the same arguments as
: 712 0779 1   were passed to it by LIB$RENAME_FILE.
: 713 0780 1
: 714 0781 1 FORMAL PARAMETERS:
: 715 0782 1
: 716 0783 1   See LIB$RENAME_FILE for a description of all parameters.
: 717 0784 1
: 718 0785 1 IMPLICIT INPUTS:
: 719 0786 1
: 720 0787 1   NONE
: 721 0788 1
: 722 0789 1 IMPLICIT OUTPUTS:
: 723 0790 1
: 724 0791 1   NONE
: 725 0792 1
: 726 0793 1 COMPLETION STATUS:
: 727 0794 1
: 728 0795 1   NONE
: 729 0796 1
: 730 0797 1 SIDE EFFECTS:
: 731 0798 1
: 732 0799 1   Renames a file
: 733 0800 1
: 734 0801 1 --
: 735 0802 1
: 736 0803 2 BEGIN
: 737 0804 2
: 738 0805 2 LOCAL
  
```

```

739 0806 2 OLDNAM: REF $NAM DECL, : NAM of OLDFAB
740 0807 2 OLDNAM_R: REF $NAM DECL, : NAM of OLDFAB_R
741 0808 2 NEWNAM: REF $NAM DECL, : NAM of NEWFAB
742 0809 2 NEWNAM_R: REF $NAM DECL, : NAM of NEWFAB_R
743 0810 2 OLD_LOCAL_DSC: BLOCK [8, BYTE], : Local descriptor for old name
744 0811 2 NEW_LOCAL_DSC: BLOCK [8, BYTE], : Local descriptor for new name
745 0812 2 OLD_STRING_PTR, : Pointer to old string
746 0813 2 NEW_STRING_PTR; : Pointer to new string
747 0814 2
748 0815 2 BUILTIN
749 0816 2 AP, : Argument pointer
750 0817 2 CALLG; : CALLG instruction
751 0818 2
752 0819 2
753 0820 2 !+
754 0821 2 !- Set NAM addresses.
755 0822 2 !-
756 0823 2 OLDNAM = .OLDFAB [FAB$L_NAM];
757 0824 2 OLDNAM_R = .OLDFAB_R [FAB$L_NAM];
758 0825 2 NEWNAM = .NEWFAB [FAB$L_NAM];
759 0826 2 NEWNAM_R = .NEWFAB_R [FAB$L_NAM];
760 0827 2
761 0828 2 !+
762 0829 2 !- Clear old statuses in FABs so that RENAME_ERROR can find the appropriate
763 0830 2 !- FAB when an error occurs. We actually set the statuses to 1 for easy
764 0831 2 !- testing.
765 0832 2 !-
766 0833 2
767 0834 2 OLDFAB_R [FAB$L_STS] = 1;
768 0835 2 NEWFAB [FAB$L_STS] = 1;
769 0836 2 NEWFAB_R [FAB$L_STS] = 1;
770 0837 2
771 0838 2 !+
772 0839 2 !- To make LIB$RENAME look just like DCL RENAME, duplicate its
773 0840 2 !- handling of version numbers. If the old filespec had a wildcard
774 0841 2 !- version, or if V_NONEW_VERSION was set, then use a default name of
775 0842 2 !- '*' for the first $PARSE of the new filespec. This will preserve
776 0843 2 !- the version number. Otherwise use a null default name, which will
777 0844 2 !- create the next highest version (if none was specified originally)
778 0845 2 !- or will use the specific version in the old filespec.
779 0846 2
780 0847 2 !- Since NEWFAB [FAB$L_DNA] was initialized to the address of the string
781 0848 2 !- '*;', all we need to do is set the length if it is to be used. If
782 0849 2 !- not, we need do nothing since its length is already zero!
783 0850 2 !-
784 0851 2
785 0852 2 IF .OLDNAM [NAM$V_WILD_VER] OR .FLAGS [V_NONEW_VERSION]
786 0853 2 THEN
787 0854 2 NEWFAB [FAB$B_DNS] = %CHARCOUNT ('*');
788 0855 2
789 0856 2 !+
790 0857 2 !- Call RMS to PARSE the new file name. We must do two parses, the first,
791 0858 2 !- with OFP (output file parse) CLEAR, to copy any and all fields left blank
792 0859 2 !- in the new name from the old name (which is in the related file block),
793 0860 2 !- and the second, with OFP SET, to substitute any names which have been
794 0861 2 !- explicitly wildcarded in the output name as these have been ignored
795 0862 2 !- during the first parse.

```



```

: 910 0977 4 BEGIN
: 911 0978 4 INTERCEPT_FLAG [0] = 1;
: 912 0979 4 SIGNAL_STOP (.COPY_STATUS);
: 913 0980 4 RETURN;
: 914 0981 4 END;
: 915 0982 3 END
: 916 0983 2 ELSE
: 917 0984 2 NEW_LOCAL_DSC [DSC$W_LENGTH] = .NEWNAM_R [NAMS$B_RSL];
: 918 0985 2
: 919 0986 2
: 920 0987 2
: 921 0988 2 !+ If there is a success routine, call it.
: 922 0989 2 !-
: 923 0990 2
: 924 0991 2 IF .SUCCESS_ROUTINE NEQA 0
: 925 0992 2 THEN
: 926 0993 2 BLISS (.SUCCESS_ROUTINE, .OLD_STRING_PTR, .NEW_STRING_PTR,
: 927 0994 2 .USER_ARG);
: 928 0995 2
: 929 0996 2 RETURN;
: 930 0997 2
: 931 0998 1 END;

```

! End of routine DO_RENAME

.EXTRN SYSS\$RENAME

01FC 0000 DO_RENAME:

					.WORD	Save R2,R3,R4,R5,R6,R7,R8	0750
	58	00000000G	00	9E	00002	MOVAB	SYSS\$PARSE, R8
	57	00000000G	00	9E	00009	MOVAB	LIB\$SCOPE_R_DX, R7
	5E		14	C2	00010	SUBL2	#20, SP
	50	04	AC	DO	00013	MOVL	OLDFAB, R0
	53	28	A0	DO	00017	MOVL	40(R0), OLDNAM
	52	18	AC	DO	0001B	MOVL	OLDFAB_R, R2
	50	28	A2	DC	0001F	MOVL	40(R2), OLDNAM_R
	50	14	AC	DO	00023	MOVL	NEWFAB, R0
	55	28	A0	DO	00027	MOVL	40(R0), NEWNAM
	51	1C	AC	DO	0002B	MOVL	NEWFAB_R, R1
	54	28	A1	DO	0002F	MOVL	40(R1), NEWNAM_R
08	A2		01	DO	00033	MOVL	#1, 8(R2)
08	A0		01	DO	00037	MOVL	#1, 8(R0)
08	A1		01	DO	0003B	MOVL	#1, 8(R1)
04	34	A3	03	E0	0003F	BBS	#3, 52(OLDNAM), 1\$
	04		20	AC	E9	BLBC	FLAGS, 2\$
	35	A0		02	90	MOVB	#2, 53(R0)
				50	DD	PUSHL	R0
	68			01	FB	CALLS	#1, SYSS\$PARSE
	0E			50	E9	BLBC	R0, 3\$
	50	1C	AC	DO	00054	MOVL	NEWFAB_R, R0
34	A0	08	A5	90	00058	MOVB	11(NEWNAM), 52(R0)
				50	DD	PUSHL	R0
	68			01	FB	CALLS	#1, SYSS\$PARSE
	03			50	E8	BLBS	R0, 4\$
			00A2	31	00065	BRW	11\$
	56	34	AC	DO	00068	MOVL	OLD_RESULTANT_NAME, OLD_STRING_PTR
			19	13	0006C	BEQL	5\$
							0888
							0889

		34	AC	DD	0006E	PUSHL	OLD_RESULTANT_NAME	0895
		04	A3	DD	00071	PUSHL	4(OLDNAM)	
08	52	03	A3	9A	00074	MOVZBL	3(OLDNAM), R2	0894
	AE		52	DO	00078	MOVL	R2, 8(SP)	
	67	08	AE	9F	0007C	PUSHAB	8(SP)	
	19		03	FB	0007F	CALLS	#3, LIB\$SCOPY_R_DX	
			50	E8	00082	BLBS	COPY_STATUS, 8\$	0896
			34	11	00085	BRB	7\$	0899
	56	0C	AE	9E	00087	5\$: MOVAB	OLD_LOCAL_DSC, OLD_STRING_PTR	0906
0E	AE	010E	8F	B0	0008B	MOVW	#270, OLD_LOCAL_DSC+2	0907
	52	03	A3	9A	00091	MOVZBL	3(OLDNAM), R2	0909
0C	AE		52	B0	00095	MOVW	R2, OLD_LOCAL_DSC	
10	AE	04	A3	DO	00099	MOVL	4(OLDNAM), OLD_LOCAL_DSC+4	0910
	55	38	AC	DO	0009E	6\$: MOVL	NEW_RESULTANT_NAME, NEW_STRING_PTR	0913
			19	13	000A2	BEQL	8\$	0914
		38	AC	DD	000A4	PUSHL	NEW_RESULTANT_NAME	0920
		0C	A4	DD	000A7	PUSHL	12(NEWNAM_R)	
08	53	0B	A4	9A	000AA	MOVZBL	11(NEWNAM_R), R3	0919
	AE	08	53	DO	000AE	MOVL	R3, 8(SP)	
	67		AE	9F	000B2	PUSHAB	8(SP)	
	19		03	FB	000B5	CALLS	#3, LIB\$SCOPY_R_DX	
			50	E8	000B8	BLBS	COPY_STATUS, 9\$	0921
	55	04	AE	9E	000BD	7\$: BRB	13\$	0924
06	AE	010E	8F	B0	0C0C1	8\$: MOVAB	NEW_LOCAL_DSC, NEW_STRING_PTR	0931
	53	0B	A4	9A	000C7	MOVW	#270, NEW_LOCAL_DSC+2	0932
04	AE		53	B0	000CB	MOVZBL	11(NEWNAM_R), R3	0934
08	AE	0C	A4	DO	000CF	MOVW	R3, NEW_LOCAL_DSC	
		2C	AC	D5	000D4	9\$: MOVL	12(NEWNAM_R), NEW_LOCAL_DSC+4	0935
			11	13	000D7	TSTL	CONFIRM_ROUTINE	0943
		30	AC	DD	000D9	BEQL	10\$	
		04	AC	DD	000DC	PUSHL	USER_ARG	0946
			55	DD	000DF	PUSHL	OLDFAB	
			56	DD	000E1	PUSHL	NEW_STRING_PTR	0945
2C	BC		04	FB	000E3	PUSHL	OLD_STRING_PTR	
	62		50	E9	000E7	CALLS	#4, @CONFIRM_ROUTINE	
	51	18	AC	DO	000EA	10\$: BLBC	R0, 16\$	0954
34	A1		52	90	000EE	MOVL	OLDFAB R, R1	
	50	1C	AC	DO	000F2	MOVB	R2, 52(R1)	
34	A0		53	90	000F6	MOVL	NEWFAB R, R0	0955
			50	DD	000FA	MOVB	R3, 52(R0)	
			7E	7C	000FC	PUSHL	R0	0956
			51	DD	000FE	CLRQ	-(SP)	
00000000G	00		04	FB	00100	PUSHL	R1	
	06		50	E8	00107	CALLS	#4, SYS\$RENAME	
0000V	CF		6C	FA	0010A	11\$: BLBS	R0, 12\$	0959
			04	0010F		CALLG	(AP), RENAME_ERROR	0958
		38	AC	D5	00110	12\$: RET		0968
			22	13	00113	TSTL	NEW_RESULTANT_NAME	
		38	AC	DD	00115	BEQL	14\$	
		04	A4	DD	00118	PUSHL	NEW_RESULTANT_NAME	0974
08	AE	03	A4	9A	0011B	PUSHL	4(NEWNAM_R)	
	67	08	AE	9F	00120	MOVZBL	3(NEWNAM_R), 8(SP)	0973
	13		03	FB	00123	PUSHAB	8(SP)	
40	BC		50	E8	00126	CALLS	#3, LIB\$SCOPY_R_DX	
			01	DO	00129	13\$: BLBS	COPY_STATUS, 15\$	0975
			50	DD	0012D	MOVL	#1, @INTERCEPT_FLAG	0978
						PUSHL	COPY_STATUS	0979

LIB\$RENAME_FILE Rename one or more files
1-006 DO_RENAME - Rename a file

B 9
16-Sep-1984 01:10:50
14-Sep-1984 12:39:19

VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBRENAME.B32;1

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(4)

LIE

00000000G 00

04 AE

03

24

30

24 BC

01 FB 0012F
04 00136
A4 9B 00137 14\$:
AC D5 0013C 15\$:
OB 13 0013F
AC DD 00141
55 DD 00144
56 DD 00146
03 FB 00148
04 0014C 16\$:

CALLS #1, LIB\$STOP
RET
MOVZBW 3(NEWMAM R), NEW_LOCAL_DSC
TSTL SUCCESS_ROUTINE
BEQL 16\$
PUSHL USER_ARG
PUSHL NEW_STRING_PTR
PUSHL OLD_STRING_PTR
CALLS #3, @SUCCESS_ROUTINE
RET

:
: 0977
: 0984
: 0991
:
: 0994
: 0993
:
: 0998

; Routine Size: 333 bytes. Routine Base: _LIB\$CODE + 0350

```
933 0999 1 %SBTTL 'RENAME_ERROR - Report error during rename'  
934 1000 1 ROUTINE RENAME_ERROR (  
935 1001 1     OLDFAB: REF $FAB_DECL,           | Next input file FAB  
936 1002 1     UNUSED_1,                   | Unused here  
937 1003 1     UNUSED_2,                   | Unused here  
938 1004 1     UNUSED_3,                   | Unused here  
939 1005 1     NEWFAB: REF $FAB_DECL,       | FAB for $PARSE  
940 1006 1     OLDFAB_R: REF $FAB_DECL,     | Source for $RENAME  
941 1007 1     NEWFAB_R: REF $FAB_DECL,     | Dest for $RENAME  
942 1008 1     UNUSED_4,                   | Unused here  
943 1009 1     UNUSED_5,                   | Unused here  
944 1010 1     ERROR_ROUTINE,             | Error routine address  
945 1011 1     UNUSED_6,                   | Unused here  
946 1012 1     USER_ARG,                   | User argument  
947 1013 1     OLD_RESULTANT_NAME: REF BLOCK [, BYTE], | Old resultant filename  
948 1014 1     NEW_RESULTANT_NAME: REF BLOCK [, BYTE], | New resultant filename  
949 1015 1     WORST_ERROR: REF BLOCK [4, BYTE], | Worst error so far  
950 1016 1     INTERCEPT_FLAG: REF VECTOR [, LONG] | Intercept flag  
951 1017 1     ): NOVALUE =  
952 1018 1  
953 1019 1 |++  
954 1020 1 | FUNCTIONAL DESCRIPTION:  
955 1021 1 |  
956 1022 1 |     This routine is called when LIB$FILE_SCAN detects an error.  
957 1023 1 |     It calls the user's error routine, if one exists.  
958 1024 1 |     If the user's error routine returns success, or if there is  
959 1025 1 |     no user error routine, processing of remaining files continues.  
960 1026 1 |     If the user's error routine returns failure, the error is  
961 1027 1 |     signalled. This signal is converted to the return status of  
962 1028 1 |     LIB$RENAME_FILE.  
963 1029 1 |  
964 1030 1 | CALLING SEQUENCE:  
965 1031 1 |  
966 1032 1 |     Called from LIB$FILE_SCAN and DO_RENAME with the same arguments  
967 1033 1 |     as passed to LIB$FILE_SCAN from LIB$RENAME_FILE.  
968 1034 1 |  
969 1035 1 | FORMAL PARAMETERS:  
970 1036 1 |  
971 1037 1 |     See body of LIB$RENAME_FILE for descriptions of arguments.  
972 1038 1 |  
973 1039 1 | IMPLICIT INPUTS:  
974 1040 1 |  
975 1041 1 |     NONE  
976 1042 1 |  
977 1043 1 | IMPLICIT OUTPUTS:  
978 1044 1 |  
979 1045 1 |     NONE  
980 1046 1 |  
981 1047 1 | COMPLETION STATUS:  
982 1048 1 |  
983 1049 1 |     NONE  
984 1050 1 |  
985 1051 1 | SIDE EFFECTS:  
986 1052 1 |  
987 1053 1 |     May signal the error  
988 1054 1 |  
989 1055 1 |--
```

```
990 1056 1
991 1057
992 1058
993 1059
994 1060
995 1061
996 1062
997 1063
998 1064
999 1065
1000 1066
1001 1067
1002 1068
1003 1069
1004 1070
1005 1071
1006 1072
1007 1073
1008 1074
1009 1075
1010 1076
1011 1077
1012 1078
1013 1079
1014 1080
1015 1081
1016 1082
1017 1083
1018 1084
1019 1085
1020 1086
1021 1087
1022 1088
1023 1089
1024 1090
1025 1091
1026 1092
1027 1093
1028 1094
1029 1095
1030 1096
1031 1097
1032 1098
1033 1099
1034 1100
1035 1101
1036 1102
1037 1103
1038 1104
1039 1105
1040 1106
1041 1107
1042 1108
1043 1109
1044 1110
1045 1111
1046 1112

BEGIN
LOCAL
  OLDFAB_PTR: REF $FAB_DECL,
  NEWFAB_PTR: REF $FAB_DECL,
  ERRFAB: REF $FAB_DECC,
  ERROR_SOURCE,

  OLD_LOCAL_DSC: BLOCK [8, BYTE],
  NEW_LOCAL_DSC: BLOCK [8, BYTE],
  OLD_STRING_PTR,
  NEW_STRING_PTR;

  ! Pointer to OLDFAB with error
  ! Pointer to NEWFAB with error
  ! Pointer to FAB with statuses
  ! Code that indicates source of
  ! error: 0 = file scan error
  !         1 = $PARSE error
  !         2 = $RENAME error
  ! Local descriptor for old name
  ! Local descriptor for new name
  ! Pointer to old string
  ! Pointer to new string

!+ Find out which OLDFAB and NEWFAB has the error.
!-
IF NOT .OLDFAB [FAB$L_STS]
THEN
  BEGIN
  !+
  ! Error from LIB$FILE_SCAN.
  !-
  LOCAL
    NAM: REF $NAM_DECL;      ! NAM block

  ERRFAB = .OLDFAB;
  OLDFAB_PTR = .OLDFAB;
  NEWFAB_PTR = .NEWFAB;
  NAM = .NEWFAB_PTR [FAB$L_NAM];
  NAM [NAM$B_RSC] = 0;      ! Just use FNM field in NEWFAB
  NAM [NAM$B_ESL] = 0;
  ERROR_SOURCE = 0;        ! Indicate error finding file
  END
ELSE
  !+
  ! It's not an error from LIB$FILE_SCAN. See if it's the error from
  ! one of the $PARSEs or the $RENAME.
  !-
  IF NOT .OLDFAB_R [FAB$L_STS]
  THEN
    BEGIN
    !+
    ! It's the $RENAME.
    !-
    ERRFAB = .OLDFAB_R;
    OLDFAB_PTR = .OLDFAB_R;
    NEWFAB_PTR = .NEWFAB_R;
    ERROR_SOURCE = 2;      ! Indicate RENAME error
    END
  ELSE IF NOT .NEWFAB [FAB$L_STS]
  THEN
    BEGIN
    !+

```

```
1047      1113      | It's the first $PARSE.
1048      1114      |
1049      1115      ERRFAB = .NEWFAB;
1050      1116      OLDFAB_PTR = .OLDFAB;
1051      1117      NEWFAB_PTR = .NEWFAB;
1052      1118      ERROR_SOURCE = 1;      ! Indicate $PARSE error
1053      1119      END
1054      1120      ELSE
1055      1121      BEGIN
1056      1122      |
1057      1123      | Must be the second $PARSE.
1058      1124      |
1059      1125      ERRFAB = .NEWFAB_R;
1060      1126      OLDFAB_PTR = .OLDFAB;
1061      1127      NEWFAB_PTR = .NEWFAB_R;
1062      1128      ERROR_SOURCE = 1;      ! Indicate $PARSE error
1063      1129      END;
1064      1130
1065      1131      |
1066      1132      | Call COPY_RESULTANT_NAME to copy the resultant name strings into either
1067      1133      | the user's strings or our own.
1068      1134      |
1069      1135
1070      1136      OLD_STRING_PTR = COPY_RESULTANT_NAME (.OLDFAB_PTR, OLD_LOCAL_DSC,
1071      1137      | .OLD_RESULTANT_NAME, .INTERCEPT_FLAG);
1072      1138      NEW_STRING_PTR = COPY_RESULTANT_NAME (.NEWFAB_PTR, NEW_LOCAL_DSC,
1073      1139      | .NEW_RESULTANT_NAME, .INTERCEPT_FLAG);
1074      1140
1075      1141      |
1076      1142      | If a user error routine has been specified, call it with arguments
1077      1143      | of the filename, STS, STV, error source, and user argument. If it returns
1078      1144      | failure, signal the error. Set WORST_ERROR to LIB$ERRROUCAL so
1079      1145      | that our caller can tell that ERROR_ROUTINE was called.
1080      1146      |
1081      1147
1082      1148      IF .ERROR_ROUTINE NEQA 0
1083      1149      THEN
1084      1150      BEGIN
1085      1151      IF NOT BLISS (.ERROR_ROUTINE, .OLD_STRING_PTR, .NEW_STRING_PTR,
1086      1152      | ERRFAB [FAB$L_STS], ERRFAB [FAB$L_STV],
1087      1153      | ERROR_SOURCE, .USER_ARG)
1088      1154      THEN
1089      1155      BEGIN
1090      1156      INTERCEPT_FLAG [0] = 1;      ! Cause handler to intercept signal
1091      1157      SIGNAL_STOP (.ERRFAB [FAB$L_STS]);
1092      1158      RETURN;
1093      1159      END;
1094      1160      WORST_ERROR [0,0,32,0] = LIB$ERRROUCAL;
1095      1161      END
1096      1162      ELSE
1097      1163      BEGIN
1098      1164      |
1099      1165      | If this error is worse than any previous errors, store it in
1100      1166      | WORST_ERROR. (Use GEQU so that the initial zero gets replaced if
1101      1167      | the error is a warning.)
1102      1168      |
1103      1169      |
```


LIB\$RENAME_FILE Rename one or more files
 1-006 RENAME_ERROR - Report error during rename

G 9
 16-Sep-1984 01:10:50 VAX-11 Bliss-32 V4.0-742
 14-Sep-1984 12:39:19 [LIBRTL.SRC]LIBRENAME.B32;1

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 (5)

LIE
 1-C

			04	AE	9F	00085				PUSHAB	ERROR_SOURCE		1152
			0C	A2	9F	00088				PUSHAB	12(ERRFAB)		
			08	A2	9F	0008B				PUSHAB	8(ERRFAB)		
					50	DD	0008E			PUSHL	NEW_STRING_PTR		
					54	DD	00090			PUSHL	OLD_STRING_PTR		
	28	BC		06	FB	00092				CALLS	#6, @ERROR_ROUTINE		
		OF		50	E8	00096				BLBS	R0, 5\$		
	40	BC		01	D0	00099				MOVL	#1, @INTERCEPT_FLAG		1156
			08	A2	DD	0009D				PUSHL	8(ERRFAB)		1157
	00000000G	00		01	FB	000A0				CALLS	#1, LIB\$STOP		
				04	000A7					RET			1155
	3C	BC	00000000G	8F	D0	000A8	5\$:			MOVL	#LIB\$ERRROUCAL, @WORST_ERROR		1160
				04	000B0					RET			1148
50	3C	BC		00	EF	000B1	6\$:			EXTZV	#0, #3, @WORST_ERROR, R0		1171
50	08	A2		00	ED	000B7				CMPZV	#0, #3, 8(ERRFAB), R0		
				05	1F	000BD				BLSSU	7\$		
	3C	BC	08	A2	D0	000BF				MOVL	8(ERRFAB), @WORST_ERROR		1173
				04	000C4	7\$:				RET			1178

: Routine Size: 197 bytes, Routine Base: _LIB\$CODE + 049D

LIB
 C

```

1-006
: 1114      1179  1 %SBTTL 'COPY_RESULTANT_NAME - Copy resultant filename'
: 1115      1180  1 ROUTINE COPY_RESULTANT_NAME (
: 1116      1181  1     FAB: REF $FAB DECL,           ! FAB of error
: 1117      1182  1     LOCAL_DSC: REF BLOCK [, BYTE], ! Our local descriptor
: 1118      1183  1     RESULTANT_NAME: REF BLOCK [, BYTE], ! Caller's string
: 1119      1184  1     INTERCEPT_FLAG: REF VECTOR [, LONG] ! Intercept flag
: 1120      1185  1     ) =
: 1121      1186  1
: 1122      1187  1     ++
: 1123      1188  1     FUNCTIONAL DESCRIPTION:
: 1124      1189  1
: 1125      1190  1         This routine is called from RENAME_ERROR to copy the resultant
: 1126      1191  1         file name (or best approximation) to either the user's string
: 1127      1192  1         or our own.
: 1128      1193  1
: 1129      1194  1     CALLING SEQUENCE:
: 1130      1195  1
: 1131      1196  1         string_ptr.wa.v = COPY_RESULTANT_NAME (FAB.rr.r, LOCAL_DSC.wq.r,
: 1132      1197  1         [RESULTANT_NAME.wt.dx], INTERCEPT_FLAG.wl.r)
: 1133      1198  1
: 1134      1199  1     FORMAL PARAMETERS:
: 1135      1200  1
: 1136      1201  1         FAB           - The FAB referencing the name we want.
: 1137      1202  1
: 1138      1203  1         LOCAL_DSC     - The descriptor which will get filled in with
: 1139      1204  1         a class S, type T descriptor of the string.
: 1140      1205  1
: 1141      1206  1         RESULTANT_NAME - The user's string, if any.
: 1142      1207  1
: 1143      1208  1         INTERCEPT_FLAG - The flag which we will set if we want to signal
: 1144      1209  1         an error so that RENAME_HANDLER will catch it.
: 1145      1210  1
: 1146      1211  1     IMPLICIT INPUTS:
: 1147      1212  1
: 1148      1213  1         NONE
: 1149      1214  1
: 1150      1215  1     IMPLICIT OUTPUTS:
: 1151      1216  1
: 1152      1217  1         NONE
: 1153      1218  1
: 1154      1219  1     FUNCTION VALUE:
: 1155      1220  1
: 1156      1221  1         The address of the user's string, if present, else LOCAL_DSC.
: 1157      1222  1
: 1158      1223  1     SIDE EFFECTS:
: 1159      1224  1
: 1160      1225  1         May signal an error
: 1161      1226  1
: 1162      1227  1     --
: 1163      1228  1
: 1164      1229  2     BEGIN
: 1165      1230  2
: 1166      1231  2     LOCAL
: 1167      1232  2         NAM: REF $NAM_DECL,           ! RMS NAM
: 1168      1233  2         STRING_PTR,           ! Pointer to the string to use
: 1169      1234  2         COPY_STATUS;           ! Status from LIB$SCOPY
: 1170      1235  2

```



```

1171 1236 2 !+
1172 1237 2 ! Set NAM to point to the NAM block. Fill in LOCAL_DSC.
1173 1238 2
1174 1239 2 NAM = .FAB [FABSL_NAM];
1175 1240 2 LOCAL_DSC [DSCSB_DTYPE] = DSCSK_DTYPE_T;
1176 1241 2 LOCAL_DSC [DSCSB_CLASS] = DSCSK_CLASS_S;
1177 1242 2
1178 1243 2 IF .NAM [NAMS_B_RSL] NEQ 0 ! Resultant filename present?
1179 1244 2 THEN
1180 1245 2 BEGIN
1181 1246 2 LOCAL_DSC [DSCSW_LENGTH] = .NAM [NAMS_B_RSL];
1182 1247 2 LOCAL_DSC [DSCSA_POINTER] = .NAM [NAMS_C_RSA];
1183 1248 2 END
1184 1249 2 ELSE IF .NAM [NAMS_B_ESL] NEQ 0 ! Expanded filename present?
1185 1250 2 THEN
1186 1251 2 BEGIN
1187 1252 2 LOCAL_DSC [DSCSW_LENGTH] = .NAM [NAMS_B_ESL];
1188 1253 2 LOCAL_DSC [DSCSA_POINTER] = .NAM [NAMS_C_ESA];
1189 1254 2 END
1190 1255 2 ELSE ! Use filename from FAB
1191 1256 2 BEGIN
1192 1257 2 LOCAL_DSC [DSCSW_LENGTH] = .FAB [FABS_B_FNS];
1193 1258 2 LOCAL_DSC [DSCSA_POINTER] = .FAB [FABS_C_FNA];
1194 1259 2 END;
1195 1260 2
1196 1261 2 !+
1197 1262 2 ! If the user has specified RESULTANT_NAME, copy the filename to it.
1198 1263 2 !-
1199 1264 2
1200 1265 2 STRING_PTR = .RESULTANT_NAME;
1201 1266 2 IF .STRING_PTR NEQA 0
1202 1267 2 THEN
1203 1268 2 BEGIN
1204 1269 2 COPY_STATUS = LIB$COPY_DXDX (.LOCAL_DSC, .RESULTANT_NAME);
1205 1270 2 IF NOT .COPY_STATUS
1206 1271 2 THEN
1207 1272 2 BEGIN
1208 1273 2 INTERCEPT_FLAG [0] = 1; ! Cause handler to intercept signal
1209 1274 2 SIGNAL_STOP (.COPY_STATUS);
1210 1275 2 RETURN .STRING_PTR; ! Won't get executed
1211 1276 2 END;
1212 1277 2 END
1213 1278 2 ELSE
1214 1279 2 STRING_PTR = .LOCAL_DSC; ! Use our own string
1215 1280 2
1216 1281 2 RETURN .STRING_PTR; ! Return pointer to string
1217 1282 2
1218 1283 2 END; ! End of routine COPY_RESULTANT_NAME

```

0004 0000 COPY_RESULTANT_NAME:

52	04	AC	DO	00002	WORD	Save R2
50	28	A2	DO	00006	MOVL	FAB, R2
					MOVL	40(R2), NAM

: 1180
: 1239
:

	51	08	AC	D0	0000A	MOVL	LOCAL_DSC, R1		1240
02	A1	010E	8F	B0	0000E	MOVW	#270, 2(R1)		
		03	A0	95	00014	TSTB	3(NAM)		1243
			0B	13	00017	BEQL	1\$		
	61	03	A0	9B	00019	MOVZBW	3(NAM), (R1)		1246
04	A1	04	A0	D0	0001D	MOVL	4(NAM), 4(R1)		1247
			19	11	00022	BRB	3\$		1243
			0B	A0	95	00024	1\$: TSTB	11(NAM)	1249
			0B	13	00027	BEQL	2\$		
	61	0B	A0	9B	00029	MOVZBW	11(NAM), (R1)		1252
04	A1	0C	A0	D0	0002D	MOVL	12(NAM), 4(R1)		1253
			09	11	00032	BRB	3\$		1249
	61	34	A2	9B	00034	2\$: MOVZBW	52(R2), (R1)		1257
04	A1	2C	A2	D0	00038	MOVL	44(R2), 4(R1)		1258
	52	0C	AC	D0	0003D	3\$: MOVL	RESULTANT_NAME, STRING_PTR		1265
			1E	13	00041	BEQL	4\$		1266
			0C	AC	DD	00043	PUSHL	RESULTANT_NAME	1269
			51	DD	00046	PUSHL	R1		
00000000G	00		02	FB	00048	CALLS	#2, LIB\$COPY_DXDX		
	12		50	EB	0004F	BLBS	COPY_STATUS, 5\$		1270
10	BC		01	D0	00052	MOVL	#1, INTERCEPT_FLAG		1273
			50	DD	00056	PUSHL	COPY_STATUS		1274
00000000G	00		01	FB	00058	CALLS	#1, LIB\$STOP		
			03	11	0005F	BRB	5\$		1275
	52		51	D0	00061	4\$: MOVL	R1, STRING_PTR		1279
	50		52	D0	00064	5\$: MOVL	STRING_PTR, R0		1281
			04	00067		RET			1283

; Routine Size: 104 bytes, Routine Base: _LIB\$CODE + 0562

```
1220 1284 1 %SBTTL 'RENAME_HANDLER - Local condition handler'
1221 1285 1 ROUTINE RENAME_HANDLER (
1222 1286 1     SIGNAL_ARGS: REF BLOCK [, BYTE],      ! Signal arguments array
1223 1287 1     MECH_ARGS: REF BLOCK [, BYTE],       ! Mechanism arguments array
1224 1288 1     ENABLE_ARGS: REF VECTOR [, LONG]    ! Enable arguments array
1225 1289 1 ) =
1226 1290 1
1227 1291 1 +-
1228 1292 1 FUNCTIONAL DESCRIPTION:
1229 1293 1
1230 1294 1     This is the condition handler enabled by LIB$RENAME_FILE.
1231 1295 1     If this is not an unwind, and if the INTERCEPT_FLAG enable
1232 1296 1     argument is set, then LIB$SIG_TO_RET is called to convert the
1233 1297 1     signal to a return status.
1234 1298 1
1235 1299 1 CALLING SEQUENCE:
1236 1300 1
1237 1301 1     status.wlc.v = RENAME_HANDLER (SIGNAL_ARGS.rl.ra, MECH_ARGS.rl.ra
1238 1302 1     , ENABLE_ARGS.rl.ra)
1239 1303 1
1240 1304 1 FORMAL PARAMETERS:
1241 1305 1
1242 1306 1     SIGNAL_ARGS - The signal argument list.
1243 1307 1
1244 1308 1     MECH_ARGS - The mechanism argument list.
1245 1309 1
1246 1310 1     ENABLE_ARGS - The enable argument list. The one enable
1247 1311 1     argument is the address of INTERCEPT_FLAG;
1248 1312 1
1249 1313 1 IMPLICIT INPUTS:
1250 1314 1
1251 1315 1     NONE
1252 1316 1
1253 1317 1 IMPLICIT OUTPUTS:
1254 1318 1
1255 1319 1     NONE
1256 1320 1
1257 1321 1 ROUTINE VALUE:
1258 1322 1
1259 1323 1     $$$_RESIGNAL
1260 1324 1
1261 1325 1 SIDE EFFECTS:
1262 1326 1
1263 1327 1     May cause an unwind.
1264 1328 1
1265 1329 1 --
1266 1330 1
1267 1331 2 BEGIN
1268 1332 2
1269 1333 2 BUILTIN
1270 1334 2     AP,      ! Argument pointer
1271 1335 2     CALLG; ! CALLG instruction
1272 1336 2
1273 1337 2
1274 1338 2     !+
1275 1339 2     ! Determine if this is an unwind. If not, then if INTERCEPT_FLAG
1276 1340 2     ! is set, turn this signal into an unwind.
1276 1340 2     !-
```

```

: 1277      1341 2
: 1278      1342 ~
: 1279      1343 ~
: 1280      1344 ~
: 1281      1345 ~
: 1282      1346 ~
: 1283      1347 ~
: 1284      1348 ~
: 1285      1349 ~
: 1286      1350 1
IF .SIGNAL_ARGS [CHF$L_SIG_NAME] NEQU SSS_UNWIND
THEN
  IF ..ENABLE_ARGS [1] ! Is INTERCEPT_FLAG set?
  THEN
    CALLG (.AP, LIB$SIG_TO_RET); ! Convert signal to return status
RETURN SSS_RESIGNAL; ! Resignal error
END; ! End of routine RENAME_HANDLER

```

```

0000 0000 RENAME_HANDLER:
      50      04 AC D0 00002 .WORD Save nothing : 1285
00000920 8F      04 AO D1 00006 MOVL SIGNAL_ARGS, R0 : 1342
      07      04 OF 13 0000E BEQL 1$ :
      50      0C AC D0 00010 MOVL ENABLE_ARGS, R0 : 1344
00000000G 07      04 BO E9 00014 BLBC @4(R0), 1$ :
      00      6C FA 00018 CALLG (AP), LIB$SIG_TO_RET : 1346
      50      0918 8F 3C 0001F 1$: MOVZWL #2328, R0 : 1348
      04 00024 RET : 1350

```

: Routine Size: 37 bytes, Routine Base: _LIB\$CODE + 05CA

: 1287 1351 1

LIB\$RENAME_FILE Rename one or more files
1-006 RENAME_HANDLER - Local condition handler

M 9
16-Sep-1984 01:10:50 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:39:19 [LIBRTL.SRC]LIBRENAME.B32;1

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: 1289 1352 1 END
: 1290 1353 1
: 1291 1354 0 ELUDOM

! End of module LIB\$RENAME_FILE

.EXTRN LIB\$STOP

PSECT SUMMARY

Name Bytes Attributes
:_LIB\$CODE 1519 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]STARLET.L32;1	9776	79	0	581	00:00.7
_\$255\$DUA28:[LIBRTL.OBJ]RTL.LIB.L32;1	36	2	5	8	00:00.1

COMMAND QUALIFIERS

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

: Size: 1517 code + 2 data bytes
: Run Time: 00:24.1
: Elapsed Time: 01:30.3
: Lines/CPU Min: 3369
: Lexemes/CPU-Min: 44856
: Memory Used: 283 pages
: Compilation Complete

LIB
1-0

