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explain_flock(3) explain_flock(3)
```

NAME

explain_flock - explain flock(2) errors

SYNOPSIS

```
#include #include kexplain/flock.h>
const char *explain_flock(int fildes, int command);
const char *explain_errno_flock(int errnum, int fildes, int command);
void explain_message_flock(char *message, int message_size, int fildes, int command);
void explain_message_errno_flock(char *message, int message_size, int errnum, int fildes, int command);
```

DESCRIPTION

These functions may be used to obtain explanations for errors returned by the *flock*(2) system call.

explain flock

const char *explain_flock(int fildes, int command);

The **explain_flock** function is used to obtain an explanation of an error returned by the flock(2) system call. The least the message will contain is the value of strerror(errno), but usually it will do much better, and indicate the underlying cause in more detail.

The errno global variable will be used to obtain the error value to be decoded.

fildes The original fildes, exactly as passed to the flock(2) system call.

command

The original command, exactly as passed to the flock(2) system call.

Returns: The message explaining the error. This message buffer is shared by all libexplain functions which do not supply a buffer in their argument list. This will be overwritten by the next call to any libexplain function which shares this buffer, including other threads.

Note: This function is **not** thread safe, because it shares a return buffer across all threads, and many other functions in this library.

```
Example: This function is intended to be used in a fashion similar to the following example:
```

```
if (flock(fildes, command) < 0)
{
   fprintf(stderr, "%s\n", explain_flock(fildes, command));
   exit(EXIT_FAILURE);
}</pre>
```

The above code example is available pre-packaged as the *explain_flock_or_die*(3) function.

explain_errno_flock

const char *explain_errno_flock(int errnum, int fildes, int command);

The **explain_errno_flock** function is used to obtain an explanation of an error returned by the *flock*(2) system call. The least the message will contain is the value of strerror(errno), but usually it will do much better, and indicate the underlying cause in more detail.

errnum

The error value to be decoded, usually obtained from the *errno* global variable just before this function is called. This is necessary if you need to call **any** code between the system call to be explained and this function, because many libc functions will alter the value of *errno*.

fildes The original fildes, exactly as passed to the flock(2) system call.

command

The original command, exactly as passed to the flock(2) system call.

Returns: The message explaining the error. This message buffer is shared by all libexplain functions which do not supply a buffer in their argument list. This will be overwritten by the next call to any libexplain function which shares this buffer, including other threads.

Note: This function is **not** thread safe, because it shares a return buffer across all threads, and many other functions in this library.

Example: This function is intended to be used in a fashion similar to the following example:

```
if (flock(fildes, command) < 0)
{</pre>
```



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```
int err = errno;
fprintf(stderr, "%s\n", explain_errno_flock(err, fildes,
command));
exit(EXIT_FAILURE);
```

The above code example is available pre-packaged as the *explain_flock_or_die*(3) function.

explain_message_flock

void explain_message_flock(char *message, int message_size, int fildes, int command);

The **explain_message_flock** function is used to obtain an explanation of an error returned by the flock(2) system call. The least the message will contain is the value of strerror(errno), but usually it will do much better, and indicate the underlying cause in more detail.

The errno global variable will be used to obtain the error value to be decoded.

message The location in which to store the returned message. If a suitable message return buffer is supplied, this function is thread safe.

message_size

The size in bytes of the location in which to store the returned message.

fildes The original fildes, exactly as passed to the flock(2) system call.

command

The original command, exactly as passed to the *flock*(2) system call.

Example: This function is intended to be used in a fashion similar to the following example:

```
if (flock(fildes, command) < 0)
{
    char message[3000];
    explain_message_flock(message, sizeof(message), fildes, command);
    fprintf(stderr, "%s\n", message);
    exit(EXIT_FAILURE);
}</pre>
```

The above code example is available pre-packaged as the *explain_flock_or_die*(3) function.

explain_message_errno_flock

void explain_message_errno_flock(char *message, int message_size, int errnum, int fildes, int command);

The **explain_message_errno_flock** function is used to obtain an explanation of an error returned by the *flock*(2) system call. The least the message will contain is the value of strerror(errno), but usually it will do much better, and indicate the underlying cause in more detail.

message The location in which to store the returned message. If a suitable message return buffer is supplied, this function is thread safe.

message_size

The size in bytes of the location in which to store the returned message.

errnum The error value to be decoded, usually obtained from the errno global variable just before this function is called. This is necessary if you need to call **any** code between the system call to be explained and this function, because many libc functions will alter the value of errno.

fildes The original fildes, exactly as passed to the flock(2) system call.

command

The original command, exactly as passed to the flock(2) system call.

Example: This function is intended to be used in a fashion similar to the following example:

```
if (flock(fildes, command) < 0)
{
   int err = errno;
   char message[3000];
   explain_message_errno_flock(message, sizeof(message), err,</pre>
```



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```
fildes, command);
  fprintf(stderr, "%s\n", message);
  exit(EXIT_FAILURE);
}
```

The above code example is available pre-packaged as the <code>explain_flock_or_die(3)</code> function.

SEE ALSO

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