

explain_putw(3)

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NAMEexplain_putw – explain *putw*(3) errors**SYNOPSIS**

```
#include <libexplain/putw.h>

const char *explain_putw(int value, FILE *fp);
const char *explain_errno_putw(int errnum, int value, FILE *fp);
void explain_message_putw(char *message, int message_size, int value, FILE *fp);
void explain_message_errno_putw(char *message, int message_size, int errnum, int value, FILE *fp);
```

DESCRIPTION

These functions may be used to obtain explanations for errors returned by the *putw*(3) system call.

explain_putw

```
const char *explain_putw(int value, FILE *fp);
```

The **explain_putw** function is used to obtain an explanation of an error returned by the *putw*(3) 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.

value The original value, exactly as passed to the *putw*(3) system call.

fp The original *fp*, exactly as passed to the *putw*(3) 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 (putw(value, fp) < 0)
{
    fprintf(stderr, "%s\n", explain_putw(value, fp));
    exit(EXIT_FAILURE);
}
```

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

explain_errno_putw

```
const char *explain_errno_putw(int errnum, int value, FILE *fp);
```

The **explain_errno_putw** function is used to obtain an explanation of an error returned by the *putw*(3) 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*.

value The original value, exactly as passed to the *putw*(3) system call.

fp The original *fp*, exactly as passed to the *putw*(3) 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 (putw(value, fp) < 0)
{
    int err = errno;
    fprintf(stderr, "%s\n", explain_errno_putw(err, value,
    fp));
}
```



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```
        exit(EXIT_FAILURE);
    }
```

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

explain_message_putw

```
void explain_message_putw(char *message, int message_size, int value, FILE *fp);
```

The **explain_message_putw** function is used to obtain an explanation of an error returned by the *putw(3)* 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.

value The original value, exactly as passed to the *putw(3)* system call.

fp The original fp, exactly as passed to the *putw(3)* system call.

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

```
if (putw(value, fp) < 0)
{
    char message[3000];
    explain_message_putw(message, sizeof(message), value, fp);
    fprintf(stderr, "%s\n", message);
    exit(EXIT_FAILURE);
}
```

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

explain_message_errno_putw

```
void explain_message_errno_putw(char *message, int message_size, int errnum, int value, FILE *fp);
```

The **explain_message_errno_putw** function is used to obtain an explanation of an error returned by the *putw(3)* 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*.

value The original value, exactly as passed to the *putw(3)* system call.

fp The original fp, exactly as passed to the *putw(3)* system call.

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

```
if (putw(value, fp) < 0)
{
    int err = errno;
    char message[3000];
    explain_message_errno_putw(message, sizeof(message), err,
    value, fp);
    fprintf(stderr, "%s\n", message);
    exit(EXIT_FAILURE);
}
```

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



`explain_putw(3)``explain_putw(3)`**SEE ALSO***putw(3)* output a word (int)*explain_putw_or_die(3)*

output a word (int) and report errors

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