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explain_putc(3) explain_putc(3)

NAME

explain_putc - explain putc(3) errors

SYNOPSIS

```
#include #include kexplain/putc.h>
const char *explain_putc(int c, FILE *fp);
const char *explain_errno_putc(int errnum, int c, FILE *fp);
void explain_message_putc(char *message, int message_size, int c, FILE *fp);
void explain_message_errno_putc(char *message, int message_size, int errnum, int c, FILE *fp);
```

DESCRIPTION

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

explain_putc

```
const char *explain_putc(int c, FILE *fp);
```

The **explain_putc** function is used to obtain an explanation of an error returned by the *putc*(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.

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

```
if (putc(c, fp) == EOF)
{
    fprintf(stderr, "%s\n", explain_putc(c, fp));
    exit(EXIT_FAILURE);
}
```

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

explain_errno_putc

const char *explain_errno_putc(int errnum, int c, FILE *fp);

The **explain_errno_putc** function is used to obtain an explanation of an error returned by the *putc*(3) system call. The least the message will contain is the value of strerror(errnum), but usually it will do much better, and indicate the underlying cause in more detail.

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

```
if (putc(c, fp) == EOF)
{
   int err = errno;
   fprintf(stderr, "%s\n", explain_errno_putc(err, c, fp));
   exit(EXIT_FAILURE);
}
```

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.

- c The original c, exactly as passed to the putc(3) system call.
- fp The original fp, exactly as passed to the putc(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.



explain putc(3) explain putc(3)

explain_message_putc

void explain_message_putc(char *message, int message_size, int c, FILE *fp);

The **explain_message_putc** function may be used to obtain an explanation of an error returned by the putc(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.

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

```
if (putc(c, fp) == EOF)
{
    char message[3000];
    explain_message_putc(message, sizeof(message), c, fp);
    fprintf(stderr, "%s\n", message);
    exit(EXIT_FAILURE);
}
```

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.

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

explain message errno putc

void explain_message_errno_putc(char *message, int message_size, int errnum, int c, FILE *fp);

The **explain_message_errno_putc** function may be used to obtain an explanation of an error returned by the *putc*(3) system call. The least the message will contain is the value of strerror(errnum), but usually it will do much better, and indicate the underlying cause in more detail.

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

```
if (putc(c, fp) == EOF)
{
    int err = errno;
    char message[3000];
    explain_message_errno_putc(message, sizeof(message), err, c, fp);
    fprintf(stderr, "%s\n", message);
    exit(EXIT_FAILURE);
}
```

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.

- c The original c, exactly as passed to the putc(3) system call.
- fp The original fp, exactly as passed to the putc(3) system call.

SEE ALSO

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