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explain_puts(3) explain_puts(3)
```

NAME

explain_puts - explain puts(3) errors

SYNOPSIS

```
#include #include kexplain/puts.h>
const char *explain_puts(const char *s);
const char *explain_errno_puts(int errnum, const char *s);
void explain_message_puts(char *message, int message_size, const char *s);
void explain_message_errno_puts(char *message, int message_size, int errnum, const char *s);
```

DESCRIPTION

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

explain_puts

const char *explain_puts(const char *s);

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

s The original s, exactly as passed to the *puts*(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 (puts(s) < 0)
{
    fprintf(stderr, "%s\n", explain_puts(s));
    exit(EXIT_FAILURE);
}</pre>
```

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

explain_errno_puts

const char *explain_errno_puts(int errnum, const char *s);

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

s The original s, exactly as passed to the puts(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 (puts(s) < 0)
{
   int err = errno;
   fprintf(stderr, "%s\n", explain_errno_puts(err, s));
   exit(EXIT_FAILURE);
}</pre>
```

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



explain puts(3) explain puts(3)

explain_message_puts

void explain_message_puts(char *message, int message_size, const char *s);

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

s The original s, exactly as passed to the *puts*(3) system call.

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

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

The above code example is available pre-packaged as the *explain puts or die*(3) function.

explain_message_errno_puts

void explain_message_errno_puts(char *message, int message_size, int errnum, const char *s);

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

s The original s, exactly as passed to the *puts*(3) system call.

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

```
if (puts(s) < 0)
{
    int err = errno;
    char message[3000];
    explain_message_errno_puts(message, sizeof(message), err,
    s);
    fprintf(stderr, "%s\n", message);
    exit(EXIT_FAILURE);
}</pre>
```

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

SEE ALSO

puts(3) write a string and a trailing newline to stdout explain_puts_or_die(3)

write a string and a trailing newline to stdout and report errors

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