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explain_getpgid(3) explain_getpgid(3)
```

## **NAME**

explain\_getpgid - explain getpgid(2) errors

#### **SYNOPSIS**

```
#include #include keplain/getpgid.h>
const char *explain_getpgid(pid_t pid);
const char *explain_errno_getpgid(int errnum, pid_t pid);
void explain_message_getpgid(char *message, int message_size, pid_t pid);
void explain_message_errno_getpgid(char *message, int message_size, int errnum, pid_t pid);
```

### **DESCRIPTION**

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

#### explain\_getpgid

```
const char *explain_getpgid(pid_t pid);
```

The **explain\_getpgid** function is used to obtain an explanation of an error returned by the *getpgid*(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.

pid The original pid, exactly as passed to the getpgid(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:

```
pid_t result = getpgid(pid);
if (result < 0)
{
    fprintf(stderr, "%s\n", explain_getpgid(pid));
    exit(EXIT_FAILURE);
}</pre>
```

The above code example is available pre-packaged as the *explain\_getpgid\_or\_die*(3) function.

## explain\_errno\_getpgid

const char \*explain\_errno\_getpgid(int errnum, pid\_t pid);

The **explain\_errno\_getpgid** function is used to obtain an explanation of an error returned by the getpgid(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 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*.

pid The original pid, exactly as passed to the getpgid(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:

```
pid_t result = getpgid(pid);
if (result < 0)
{
   int err = errno;
   fprintf(stderr, "%s\n", explain_errno_getpgid(err, pid));
   exit(EXIT_FAILURE);
}</pre>
```



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```

The above code example is available pre-packaged as the explain\_getpgid\_or\_die(3) function.

## explain\_message\_getpgid

void explain\_message\_getpgid(char \*message, int message\_size, pid\_t pid);

The **explain\_message\_getpgid** function is used to obtain an explanation of an error returned by the *getpgid*(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.

pid The original pid, exactly as passed to the getpgid(2) system call.

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

```
pid_t result = getpgid(pid);
if (result < 0)
{
    char message[3000];
    explain_message_getpgid(message, sizeof(message), pid);
    fprintf(stderr, "%s\n", message);
    exit(EXIT_FAILURE);
}</pre>
```

The above code example is available pre-packaged as the explain\_getpgid\_or\_die(3) function.

## explain\_message\_errno\_getpgid

void explain\_message\_errno\_getpgid(char \*message, int message\_size, int errnum, pid\_t pid);

The **explain\_message\_errno\_getpgid** function is used to obtain an explanation of an error returned by the *getpgid*(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.

pid The original pid, exactly as passed to the getpgid(2) system call.

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

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

The above code example is available pre-packaged as the explain\_getpgid\_or\_die(3) function.

# **SEE ALSO**



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