

NAME

ERR_get_error, ERR_peek_error, ERR_peek_last_error, ERR_get_error_line,
 ERR_peek_error_line, ERR_peek_last_error_line, ERR_get_error_line_data,
 ERR_peek_error_line_data, ERR_peek_last_error_line_data - obtain error code and data

SYNOPSIS

```
#include <openssl/err.h>
```

```
unsigned long ERR_get_error(void);
unsigned long ERR_peek_error(void);
unsigned long ERR_peek_last_error(void);
```

```
unsigned long ERR_get_error_line(const char **file, int *line);
unsigned long ERR_peek_error_line(const char **file, int *line);
unsigned long ERR_peek_last_error_line(const char **file, int *line);
```

```
unsigned long ERR_get_error_line_data(const char **file, int *line,
const char **data, int *flags);
unsigned long ERR_peek_error_line_data(const char **file, int *line,
const char **data, int *flags);
unsigned long ERR_peek_last_error_line_data(const char **file, int *line,
const char **data, int *flags);
```

DESCRIPTION

ERR_get_error() returns the earliest error code from the thread's error queue and removes the entry. This function can be called repeatedly until there are no more error codes to return.

ERR_peek_error() returns the earliest error code from the thread's error queue without modifying it.

ERR_peek_last_error() returns the latest error code from the thread's error queue without modifying it.

See [ERR_GET_LIB\(3\)](#) for obtaining information about location and reason of the error, and [ERR_error_string\(3\)](#) for human-readable error messages.

ERR_get_error_line(), *ERR_peek_error_line()* and *ERR_peek_last_error_line()* are the same as the above, but they additionally store the file name and line number where the error occurred in **file* and **line*, unless these are **NULL**.

ERR_get_error_line_data(), *ERR_peek_error_line_data()* and *ERR_peek_last_error_line_data()* store additional data and flags associated with the error code in **data* and **flags*, unless these are **NULL**. **data* contains a string if **flags*&**ERR_TXT_STRING** is true.

An application **MUST NOT** free the **data* pointer (or any other pointers returned by these functions) with *OPENSSL_free()* as freeing is handled automatically by the error library.

RETURN VALUES

The error code, or 0 if there is no error in the queue.

SEE ALSO

[err\(3\)](#), [ERR_error_string\(3\)](#), [ERR_GET_LIB\(3\)](#)

HISTORY

ERR_get_error(), *ERR_peek_error()*, *ERR_get_error_line()* and *ERR_peek_error_line()* are available in all versions of SSLeay and OpenSSL. *ERR_get_error_line_data()* and *ERR_peek_error_line_data()* were added in SSLeay 0.9.0. *ERR_peek_last_error()*, *ERR_peek_last_error_line()* and *ERR_peek_last_error_line_data()* were added in OpenSSL 0.9.7.