

**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.