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.