NAME

ERR_new, ERR_set_debug, ERR_set_error, ERR_vset_error - Error recording building blocks

SYNOPSIS

#include <openssl/err.h>

void ERR_new(void);
void ERR_set_debug(const char *file, int line, const char *func);
void ERR_set_error(int lib, int reason, const char *fmt, ...);
void ERR_vset_error(int lib, int reason, const char *fmt, va_list args);

DESCRIPTION

The functions described here are generally not used directly, but rather through macros such as **ERR_raise**(3). They can still be useful for anyone that wants to make their own macros.

ERR_new() allocates a new slot in the thread's error queue.

ERR_set_debug() sets the debug information related to the current error in the thread's error queue. The values that can be given are the filename *file*, line in the file *line* and the name of the function *func* where the error occurred. The names must be constant, this function will only save away the pointers, not copy the strings.

ERR_set_error() sets the error information, which are the library number *lib* and the reason code *reason*, and additional data as a format string *fmt* and an arbitrary number of arguments. The additional data is processed with **BIO_snprintf**(3) to form the additional data string, which is allocated and store in the error record.

ERR_vset_error() works like **ERR_set_error()**, but takes a **va_list** argument instead of a variable number of arguments.

RETURN VALUES

ERR_new, ERR_set_debug, ERR_set_error and ERR_vset_error do not return any values.

NOTES

The library number is unique to each unit that records errors. OpenSSL has a number of preallocated ones for its own uses, but others may allocate their own library number dynamically with **ERR_get_next_error_library**(3).

Reason codes are unique within each library, and may have an associated set of strings as a short description of the reason. For dynamically allocated library numbers, reason strings are recorded with

ERR_load_strings(3).

Provider authors are supplied with core versions of these functions, see **provider-base**(7).

SEE ALSO

ERR_raise(3), **ERR_get_next_error_library**(3), **ERR_load_strings**(3), **BIO_snprintf**(3), **provider-base**(7)

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