

## 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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