NAME

CRYPTO_set_ex_data, CRYPTO_get_ex_data - internal application specific data functions

SYNOPSIS

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

int CRYPTO_set_ex_data(CRYPTO_EX_DATA *r, int idx, void *arg);

void *CRYPTO_get_ex_data(CRYPTO_EX_DATA *r, int idx);
```

DESCRIPTION

Several OpenSSL structures can have application specific data attached to them. These functions are used internally by OpenSSL to manipulate application specific data attached to a specific structure.

These functions should only be used by applications to manipulate **CRYPTO_EX_DATA** structures passed to the ***new_func()***, ***free_func()*** and ***dup_func()*** callbacks: as passed to ***RSA_get_ex_new_index()*** for example.

CRYPTO_set_ex_data() is used to set application specific data, the data is supplied in the **arg** parameter and its precise meaning is up to the application.

CRYPTO_get_ex_data() is used to retrieve application specific data. The data is returned to the application, this will be the same value as supplied to a previous ***CRYPTO_set_ex_data()*** call.

RETURN VALUES

CRYPTO_set_ex_data() returns 1 on success or 0 on failure.

CRYPTO_get_ex_data() returns the application data or 0 on failure. 0 may also be valid application data but currently it can only fail if given an invalid **idx** parameter.

On failure an error code can be obtained from *ERR_get_error(3)*.

SEE ALSO

RSA_get_ex_new_index(3), *DSA_get_ex_new_index(3)*, *DH_get_ex_new_index(3)*

HISTORY

CRYPTO_set_ex_data() and *CRYPTO_get_ex_data()* have been available since SSLeay 0.9.0.