

NAME

BIO_set_data, BIO_get_data, BIO_set_init, BIO_get_init, BIO_set_shutdown, BIO_get_shutdown - functions for managing BIO state information

SYNOPSIS

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

```
void BIO_set_data(BIO *a, void *ptr);  
void *BIO_get_data(BIO *a);  
void BIO_set_init(BIO *a, int init);  
int BIO_get_init(BIO *a);  
void BIO_set_shutdown(BIO *a, int shut);  
int BIO_get_shutdown(BIO *a);
```

DESCRIPTION

These functions are mainly useful when implementing a custom BIO.

The **BIO_set_data()** function associates the custom data pointed to by **ptr** with the BIO. This data can subsequently be retrieved via a call to **BIO_get_data()**. This can be used by custom BIOs for storing implementation specific information.

The **BIO_set_init()** function sets the value of the BIO's "init" flag to indicate whether initialisation has been completed for this BIO or not. A nonzero value indicates that initialisation is complete, whilst zero indicates that it is not. Often initialisation will complete during initial construction of the BIO. For some BIOs however, initialisation may not complete until after additional steps have occurred (for example through calling custom ctrls). The **BIO_get_init()** function returns the value of the "init" flag.

The **BIO_set_shutdown()** and **BIO_get_shutdown()** functions set and get the state of this BIO's shutdown (i.e. BIO_CLOSE) flag. If set then the underlying resource is also closed when the BIO is freed.

RETURN VALUES

BIO_get_data() returns a pointer to the implementation specific custom data associated with this BIO, or NULL if none has been set.

BIO_get_init() returns the state of the BIO's init flag.

BIO_get_shutdown() returns the stat of the BIO's shutdown (i.e. BIO_CLOSE) flag.

SEE ALSO

bio(7), BIO_meth_new(3)

HISTORY

The functions described here were added in OpenSSL 1.1.0.

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