



## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'BIO\_get\_data.3oss1' command**

**\$ man BIO\_get\_data.3oss1**

BIO\_GET\_DATA(3oss1)            OpenSSL            BIO\_GET\_DATA(3oss1)

### 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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3.0.7                    2023-07-13                    BIO\_GET\_DATA(3ossl)