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## ***Red Hat Enterprise Linux Release 9.2 Manual Pages on 'BIO\_next.3ossl' command***

***\$ man BIO\_next.3ossl***

BIO\_FIND\_TYPE(3ossl)          OpenSSL          BIO\_FIND\_TYPE(3ossl)

### NAME

BIO\_find\_type, BIO\_next, BIO\_method\_type - BIO chain traversal

### SYNOPSIS

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

```
BIO *BIO_find_type(BIO *b, int bio_type);
```

```
BIO *BIO_next(BIO *b);
```

```
int BIO_method_type(const BIO *b);
```

### DESCRIPTION

The `BIO_find_type()` searches for a BIO of a given type in a chain, starting at BIO `b`. If `type` is a specific type (such as `BIO_TYPE_MEM`) then a search is made for a BIO of that type. If `type` is a general type (such as `BIO_TYPE_SOURCE_SINK`) then the next matching BIO of the given general type is searched for. `BIO_find_type()` returns the next matching BIO or `NULL` if none is found.

The following general types are defined: `BIO_TYPE_DESCRIPTOR`, `BIO_TYPE_FILTER`, and `BIO_TYPE_SOURCE_SINK`.

For a list of the specific types, see the <openssl/bio.h> header file.

BIO\_next() returns the next BIO in a chain. It can be used to traverse all BIOs in a chain or used in conjunction with BIO\_find\_type() to find all BIOs of a certain type.

BIO\_method\_type() returns the type of a BIO.

## RETURN VALUES

BIO\_find\_type() returns a matching BIO or NULL for no match.

BIO\_next() returns the next BIO in a chain.

BIO\_method\_type() returns the type of the BIO b.

## EXAMPLES

Traverse a chain looking for digest BIOs:

```
BIO *btmp;

btmp = in_bio; /* in_bio is chain to search through */
do {
    btmp = BIO_find_type(btmp, BIO_TYPE_MD);
    if (btmp == NULL)
        break; /* Not found */
    /* btmp is a digest BIO, do something with it ... */
    ...

    btmp = BIO_next(btmp);
} while (btmp);
```

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