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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'BIO\_new\_from\_core\_bio.3ossl'***

***\$ man BIO\_new\_from\_core\_bio.3ossl***

BIO\_S\_CORE(3ossl)            OpenSSL            BIO\_S\_CORE(3ossl)

#### NAME

BIO\_s\_core, BIO\_new\_from\_core\_bio - OSSL\_CORE\_BIO functions

#### SYNOPSIS

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

```
const BIO_METHOD *BIO_s_core(void);
```

```
BIO *BIO_new_from_core_bio(OSSL_LIB_CTX *libctx, OSSL_CORE_BIO *corebio);
```

#### DESCRIPTION

BIO\_s\_core() returns the core BIO method function.

A core BIO is treated as source/sink BIO which communicates to some external BIO. This is primarily useful to provider authors. A number of calls from libcrypto into a provider supply an OSSL\_CORE\_BIO parameter.

This represents a BIO within libcrypto, but cannot be used directly by a provider. Instead it should be wrapped using a `BIO_s_core()`.

Once a BIO is constructed based on `BIO_s_core()`, the associated `OSSL_CORE_BIO` object should be set on it using `BIO_set_data(3)`. Note that the BIO will only operate correctly if it is associated with a library context constructed using `OSSL_LIB_CTX_new_from_dispatch(3)`. To associate the BIO with a library context construct it using `BIO_new_ex(3)`.

`BIO_new_from_core_bio()` is a convenience function that constructs a new BIO based on `BIO_s_core()` and that is associated with the given library context. It then also sets the `OSSL_CORE_BIO` object on the BIO using `BIO_set_data(3)`.

## RETURN VALUES

`BIO_s_core()` return a core BIO `BIO_METHOD` structure.

`BIO_new_from_core_bio()` returns a BIO structure on success or NULL on failure. A failure will most commonly be because the library context was not constructed using `OSSL_LIB_CTX_new_from_dispatch(3)`.

## HISTORY

`BIO_s_core()` and `BIO_new_from_core_bio()` were added in OpenSSL 3.0.

## EXAMPLES

Create a core BIO and write some data to it:

```
int some_function(OSSL_LIB_CTX *libctx, OSSL_CORE_BIO *corebio) {
    BIO *cbio = BIO_new_from_core_bio(libctx, corebio);

    if (cbio == NULL)
        return 0;
```

```
BIO_puts(cbio, "Hello World\n");

BIO_free(cbio);

return 1;

}
```

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