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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'BIO_s_core.3oss1' command

\$ man BIO_s_core.3oss1

BIO_S_CORE(3oss1) OpenSSL BIO_S_CORE(3oss1)

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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