

**NAME**

`BIO_f_readbuffer` - read only buffering BIO that supports `BIO_tell()` and `BIO_seek()`

**SYNOPSIS**

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

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

**DESCRIPTION**

**BIO\_f\_readbuffer()** returns the read buffering BIO method.

This BIO filter can be inserted on top of BIO's that do not support **BIO\_tell()** or **BIO\_seek()** (e.g. A file BIO that uses stdin).

Data read from a read buffering BIO comes from an internal buffer which is filled from the next BIO in the chain.

**BIO\_gets()** is supported for read buffering BIOs. Writing data to a read buffering BIO is not supported.

Calling **BIO\_reset()** on a read buffering BIO does not clear any buffered data.

**NOTES**

Read buffering BIOs implement **BIO\_read\_ex()** by using **BIO\_read\_ex()** operations on the next BIO (e.g. a file BIO) in the chain and storing the result in an internal buffer, from which bytes are given back to the caller as appropriate for the call. **BIO\_read\_ex()** is guaranteed to give the caller the number of bytes it asks for, unless there's an error or end of communication is reached in the next BIO. The internal buffer can grow to cache the entire contents of the next BIO in the chain. **BIO\_seek()** uses the internal buffer, so that it can only seek into data that is already read.

**RETURN VALUES**

**BIO\_f\_readbuffer()** returns the read buffering BIO method.

**SEE ALSO**

**bio(7)**, **BIO\_read(3)**, **BIO\_gets(3)**, **BIO\_reset(3)**, **BIO\_ctrl(3)**.

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