



## ***Red Hat Enterprise Linux Release 9.2 Manual Pages on 'PEM\_read\_bio\_ex.3openssl' command***

***\$ man PEM\_read\_bio\_ex.3openssl***

PEM\_READ\_BIO\_EX(3openssl)      OpenSSL      PEM\_READ\_BIO\_EX(3openssl)

### NAME

PEM\_read\_bio\_ex, PEM\_FLAG\_SECURE, PEM\_FLAG\_EAY\_COMPATIBLE,  
PEM\_FLAG\_ONLY\_B64 - read PEM format files with custom processing

### SYNOPSIS

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

#define PEM_FLAG_SECURE            0x1
#define PEM_FLAG_EAY_COMPATIBLE   0x2
#define PEM_FLAG_ONLY_B64         0x4

int PEM_read_bio_ex(BIO *in, char **name, char **header,
                    unsigned char **data, long *len, unsigned int flags);
```

### DESCRIPTION

PEM\_read\_bio\_ex() reads in PEM formatted data from an input BIO, outputting the name of the type of contained data, the header information regarding the possibly encrypted data, and the binary data payload (after base64 decoding). It should generally only be used to implement PEM\_read\_bio\_-family functions for specific data types or other usage, but is exposed to allow greater flexibility over how processing is performed, if needed.

If `PEM_FLAG_SECURE` is set, the intermediate buffers used to read in lines of input are allocated from the secure heap.

If `PEM_FLAG_EAY_COMPATIBLE` is set, a simple algorithm is used to remove whitespace and control characters from the end of each line, so as to be compatible with the historical behavior of `PEM_read_bio()`.

If `PEM_FLAG_ONLY_B64` is set, all characters are required to be valid base64 characters (or newlines); non-base64 characters are treated as end of input.

If neither `PEM_FLAG_EAY_COMPATIBLE` or `PEM_FLAG_ONLY_B64` is set, control characters are ignored.

If both `PEM_FLAG_EAY_COMPATIBLE` and `PEM_FLAG_ONLY_B64` are set, an error is returned; these options are not compatible with each other.

## NOTES

The caller must release the storage allocated for `*name`, `*header`, and `*data`. If `PEM_FLAG_SECURE` was set, use `OPENSSL_secure_free()`; otherwise, `OPENSSL_free()` is used.

## RETURN VALUES

`PEM_read_bio_ex()` returns 1 for success or 0 for failure.

## SEE ALSO

`PEM_bytes_read_bio(3)`

## HISTORY

The `PEM_read_bio_ex()` function was added in OpenSSL 1.1.1.

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