



Rocky Enterprise Linux 9.2 Manual Pages on command 'i2b_PVK_bio_ex.3oss1'

\$ man i2b_PVK_bio_ex.3oss1

B2I_PVK_BIO_EX(3oss1) OpenSSL B2I_PVK_BIO_EX(3oss1)

NAME

b2i_PVK_bio, b2i_PVK_bio_ex, i2b_PVK_bio, i2b_PVK_bio_ex - Decode and encode functions for reading and writing MSBLOB format private keys

SYNOPSIS

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

```
EVP_PKEY *b2i_PVK_bio(BIO *in, pem_password_cb *cb, void *u);
```

```
EVP_PKEY *b2i_PVK_bio_ex(BIO *in, pem_password_cb *cb, void *u,
```

```
          OSSL_LIB_CTX *libctx, const char *propq);
```

```
int i2b_PVK_bio(BIO *out, const EVP_PKEY *pk, int encllevel,
```

```
          pem_password_cb *cb, void *u);
```

```
int i2b_PVK_bio_ex(BIO *out, const EVP_PKEY *pk, int encllevel,
```

```
          pem_password_cb *cb, void *u,
```

```
          OSSL_LIB_CTX *libctx, const char *propq);
```

DESCRIPTION

`b2i_PVK_bio_ex()` decodes a private key of MSBLOB format read from a BIO. It attempts to automatically determine the key type. If the key is encrypted then `cb` is called with the user data `u` in order to obtain a password to decrypt the key. The supplied library context `libctx` and property query string `propq` are used in any decrypt operation.

`b2i_PVK_bio()` does the same as `b2i_PVK_bio_ex()` except that the default library context and property query string are used.

`i2b_PVK_bio_ex()` encodes `pk` using MSBLOB format. If `encllevel` is 1 then a password obtained via `pem_password_cb` is used to encrypt the private key. If `encllevel` is 0 then no encryption is applied. The user data in `u` is passed to the password callback. The supplied library context `libctx` and property query string `propq` are used in any decrypt operation.

`i2b_PVK_bio()` does the same as `i2b_PVK_bio_ex()` except that the default library context and property query string are used.

RETURN VALUES

The `b2i_PVK_bio()` and `b2i_PVK_bio_ex()` functions return a valid `EVP_KEY` structure or `NULL` if an error occurs. The error code can be obtained by calling `ERR_get_error(3)`.

`i2b_PVK_bio()` and `i2b_PVK_bio_ex()` return the number of bytes successfully encoded or a negative value if an error occurs. The error code can be obtained by calling `ERR_get_error(3)`.

SEE ALSO

`crypto(7)`, `d2i_PKCS8PrivateKey_bio(3)`

HISTORY

b2i_PVK_bio_ex() and i2b_PVK_bio_ex() were added in OpenSSL 3.0.

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