



Full credit is given to the above companies including the OS that this PDF file was generated!

Red Hat Enterprise Linux Release 9.2 Manual Pages on 'b2i_PVK_bio_ex.3oss1' command

\$ man b2i_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 enclevel,  
                pem_password_cb *cb, void *u);
```

```
int i2b_PVK_bio_ex(BIO *out, const EVP_PKEY *pk, int enclevel,  
                   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 enclevel is 1 then a password obtained via pem_password_cb is used to encrypt the private key. If enclevel 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.

COPYRIGHT

Copyright 2021 The OpenSSL Project Authors. All Rights Reserved.

Licensed under the Apache License 2.0 (the "License"). You may not use this file except in compliance with the License. You can obtain a copy in the file LICENSE in the source distribution or at <https://www.openssl.org/source/license.html>.

3.0.7 2023-07-13 B2I_PVK_BIO_EX(3ossl)