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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'b2i_PVK_bio.3ossl' command

$ man b2i_PVK_bio.3ossl

B2I_PVK_BIO_EX(3ossl) OpenSSL B2I_PVK_BIO_EX(3ossl)

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.

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