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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'BN_copy.3openssl' command

\$ man BN_copy.3openssl

BN_COPY(3openssl) OpenSSL BN_COPY(3openssl)

NAME

BN_copy, BN_dup, BN_with_flags - copy BIGNUMs

SYNOPSIS

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

```
BIGNUM *BN_copy(BIGNUM *to, const BIGNUM *from);
```

```
BIGNUM *BN_dup(const BIGNUM *from);
```

```
void BN_with_flags(BIGNUM *dest, const BIGNUM *b, int flags);
```

DESCRIPTION

BN_copy() copies from to to. BN_dup() creates a new BIGNUM containing the value from.

BN_with_flags creates a temporary shallow copy of b in dest. It places significant restrictions on the copied data. Applications that do not adhere to these restrictions may encounter unexpected side effects or crashes. For that reason use of this function is discouraged. Any flags provided in flags will be set in dest in addition to any flags already

set in b. For example this might commonly be used to create a temporary copy of a BIGNUM with the BN_FLG_CONSTTIME flag set for constant time operations. The temporary copy in dest will share some internal state with b. For this reason the following restrictions apply to the use of dest:

? dest should be a newly allocated BIGNUM obtained via a call to BN_new(). It should not have been used for other purposes or initialised in any way.

? dest must only be used in "read-only" operations, i.e. typically those functions where the relevant parameter is declared "const".

? dest must be used and freed before any further subsequent use of b

RETURN VALUES

BN_copy() returns to on success, NULL on error. BN_dup() returns the new BIGNUM, and NULL on error. The error codes can be obtained by ERR_get_error(3).

SEE ALSO

ERR_get_error(3)

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