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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'BN\_copy.3ossl'***

***\$ man BN\_copy.3ossl***

BN\_COPY(3ossl)                      OpenSSL                      BN\_COPY(3ossl)

#### 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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BN\_COPY(3ossl)