



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 'BN_cmp.3ossl' command

\$ man BN_cmp.3ossl

BN_CMP(3ossl) OpenSSL BN_CMP(3ossl)

NAME

BN_cmp, BN_ucmp, BN_is_zero, BN_is_one, BN_is_word, BN_abs_is_word,
BN_is_odd - BIGNUM comparison and test functions

SYNOPSIS

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

```
int BN_cmp(const BIGNUM *a, const BIGNUM *b);
```

```
int BN_ucmp(const BIGNUM *a, const BIGNUM *b);
```

```
int BN_is_zero(const BIGNUM *a);
```

```
int BN_is_one(const BIGNUM *a);
```

```
int BN_is_word(const BIGNUM *a, const BN_ULONG w);
```

```
int BN_abs_is_word(const BIGNUM *a, const BN_ULONG w);
```

```
int BN_is_odd(const BIGNUM *a);
```

DESCRIPTION

BN_cmp() compares the numbers a and b. BN_ucmp() compares their absolute values.

BN_is_zero(), BN_is_one(), BN_is_word() and BN_abs_is_word() test if a

equals 0, 1, w, or |w| respectively. BN_is_odd() tests if a is odd.

RETURN VALUES

BN_cmp() returns -1 if $a < b$, 0 if $a == b$ and 1 if $a > b$. BN_ucmp() is the same using the absolute values of a and b.

BN_is_zero(), BN_is_one(), BN_is_word(), BN_abs_is_word() and BN_is_odd() return 1 if the condition is true, 0 otherwise.

HISTORY

Prior to OpenSSL 1.1.0, BN_is_zero(), BN_is_one(), BN_is_word(), BN_abs_is_word() and BN_is_odd() were macros.

COPYRIGHT

Copyright 2000-2021 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

BN_CMP(3ossl)