



*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\_abs\_is\_word.3ossl' command**

**\$ man BN\_abs\_is\_word.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)