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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'BN\_is\_word.3ossl' command**

**\$ man BN\_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.

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