NAME

BN_zero, BN_one, BN_value_one, BN_set_word, BN_get_word - BIGNUM assignment operations

SYNOPSIS

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

int BN_zero(BIGNUM *a);
int BN_one(BIGNUM *a);

const BIGNUM *BN_value_one(void);

int BN_set_word(BIGNUM *a, unsigned long w);
unsigned long BN_get_word(BIGNUM *a);
```

DESCRIPTION

BN_zero(), *BN_one()* and *BN_set_word()* set **a** to the values 0, 1 and **w** respectively. *BN_zero()* and *BN_one()* are macros.

BN_value_one() returns a **BIGNUM** constant of value 1. This constant is useful for use in comparisons and assignment.

BN_get_word() returns **a**, if it can be represented as an unsigned long.

RETURN VALUES

BN_get_word() returns the value **a**, and 0xffffffffL if **a** cannot be represented as an unsigned long.

BN_zero(), *BN_one()* and *BN_set_word()* return 1 on success, 0 otherwise. *BN_value_one()* returns the constant.

BUGS

Someone might change the constant.

If a **BIGNUM** is equal to 0xffffffffL it can be represented as an unsigned long but this value is also returned on error.

SEE ALSO

bn(3) , *BN_bn2bin(3)*

HISTORY

BN_zero(), *BN_one()* and *BN_set_word()* are available in all versions of SSLeay and OpenSSL. *BN_value_one()* and *BN_get_word()* were added in SSLeay 0.8.

BN_value_one() was changed to return a true const BIGNUM * in OpenSSL 0.9.7.