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***Rocky Enterprise Linux 9.2 Manual Pages on command 'BN\_set\_word.3ossl'***

***\$ man BN\_set\_word.3ossl***

BN\_ZERO(3ossl)                      OpenSSL                      BN\_ZERO(3ossl)

**NAME**

BN\_zero, BN\_one, BN\_value\_one, BN\_set\_word, BN\_get\_word - BIGNUM assignment operations

**SYNOPSIS**

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

```
void BN_zero(BIGNUM *a);
```

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

```
const BIGNUM *BN_value_one(void);
```

```
int BN_set_word(BIGNUM *a, BN_ULONG w);
```

```
unsigned BN_ULONG BN_get_word(BIGNUM *a);
```

**DESCRIPTION**

BN\_ULONG is a macro that will be an unsigned integral type optimized for the most efficient implementation on the local platform.

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 a BN\_ULONG.

## RETURN VALUES

BN\_get\_word() returns the value a, or all-bits-set if a cannot be represented as a single integer.

BN\_one() and BN\_set\_word() return 1 on success, 0 otherwise.

BN\_value\_one() returns the constant. BN\_zero() never fails and returns no value.

## BUGS

If a BIGNUM is equal to the value of all-bits-set, it will collide with the error condition returned by BN\_get\_word() which uses that as an error value.

BN\_ULONG should probably be a typedef.

## SEE ALSO

BN\_bn2bin(3)

## HISTORY

In OpenSSL 0.9.8, BN\_zero() was changed to not return a value; previous versions returned an int.

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