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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'DH\_security\_bits.3ossl'***

***\$ man DH\_security\_bits.3ossl***

DH\_SIZE(3ossl)                      OpenSSL                      DH\_SIZE(3ossl)

#### NAME

DH\_size, DH\_bits, DH\_security\_bits - get Diffie-Hellman prime size and security bits

#### SYNOPSIS

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

The following functions have been deprecated since OpenSSL 3.0, and can be hidden entirely by defining OPENSSL\_API\_COMPAT with a suitable version value, see openssl\_user\_macros(7):

```
int DH_bits(const DH *dh);
```

```
int DH_size(const DH *dh);
```

```
int DH_security_bits(const DH *dh);
```

#### DESCRIPTION

The functions described on this page are deprecated. Applications should instead use EVP\_PKEY\_get\_bits(3), EVP\_PKEY\_get\_security\_bits(3) and EVP\_PKEY\_get\_size(3).

DH\_bits() returns the number of significant bits.

dh and dh->p must not be NULL.

DH\_size() returns the Diffie-Hellman prime size in bytes. It can be used to determine how much memory must be allocated for the shared secret computed by DH\_compute\_key(3).

DH\_security\_bits() returns the number of security bits of the given dh key. See BN\_security\_bits(3).

#### RETURN VALUES

DH\_bits() returns the number of bits in the key, or -1 if dh doesn't hold any key parameters.

DH\_size() returns the prime size of Diffie-Hellman in bytes, or -1 if dh doesn't hold any key parameters.

DH\_security\_bits() returns the number of security bits, or -1 if dh doesn't hold any key parameters.

#### SEE ALSO

EVP\_PKEY\_get\_bits(3), DH\_new(3), DH\_generate\_key(3), BN\_num\_bits(3)

#### HISTORY

All functions were deprecated in OpenSSL 3.0.

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