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

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

DSA\_SIZE(3ossl)                    OpenSSL                    DSA\_SIZE(3ossl)

#### NAME

DSA\_size, DSA\_bits, DSA\_security\_bits - get DSA signature size, key bits or security bits

#### SYNOPSIS

```
#include <openssl/dsa.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 DSA_bits(const DSA *dsa);
```

```
int DSA_size(const DSA *dsa);
```

```
int DSA_security_bits(const DSA *dsa);
```

## DESCRIPTION

All of 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)`.

`DSA_bits()` returns the number of bits in key `dsa`: this is the number of bits in the `p` parameter.

`DSA_size()` returns the maximum size of an ASN.1 encoded DSA signature for key `dsa` in bytes. It can be used to determine how much memory must be allocated for a DSA signature.

`DSA_security_bits()` returns the number of security bits of the given `dsa` key. See `BN_security_bits(3)`.

## RETURN VALUES

`DSA_security_bits()` returns the number of security bits in the key, or -1 if `dsa` doesn't hold any key parameters.

`DSA_bits()` returns the number of bits in the key, or -1 if `dsa` doesn't hold any key parameters.

`DSA_size()` returns the signature size in bytes, or -1 if `dsa` doesn't hold any key parameters.

## SEE ALSO

`EVP_PKEY_get_bits(3)`, `EVP_PKEY_get_security_bits(3)`,  
`EVP_PKEY_get_size(3)`, `DSA_new(3)`, `DSA_sign(3)`

## HISTORY

All of these functions were deprecated in OpenSSL 3.0.

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3.0.7                    2023-07-13                    DSA\_SIZE(3ossl)