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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