

**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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