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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'RSA_security_bits.3ossl' command

\$ man RSA_security_bits.3ossl

RSA_SIZE(3ossl) OpenSSL RSA_SIZE(3ossl)

NAME

RSA_size, RSA_bits, RSA_security_bits - get RSA modulus size or security bits

SYNOPSIS

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

```
int RSA_bits(const RSA *rsa);
```

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 RSA_size(const RSA *rsa);
```

```
int RSA_security_bits(const RSA *rsa);
```

DESCRIPTION

RSA_bits() returns the number of significant bits.

rsa and rsa->n must not be NULL.

The remaining functions described on this page are deprecated.

Applications should instead use `EVP_PKEY_get_size(3)`,
`EVP_PKEY_get_bits(3)` and `EVP_PKEY_get_security_bits(3)`.

`RSA_size()` returns the RSA modulus size in bytes. It can be used to determine how much memory must be allocated for an RSA encrypted value.

`RSA_security_bits()` returns the number of security bits of the given `rsa` key. See `BN_security_bits(3)`.

RETURN VALUES

`RSA_bits()` returns the number of bits in the key.

`RSA_size()` returns the size of modulus in bytes.

`RSA_security_bits()` returns the number of security bits.

SEE ALSO

`BN_num_bits(3)`

HISTORY

The `RSA_size()` and `RSA_security_bits()` functions were deprecated in OpenSSL 3.0.

The `RSA_bits()` function was added in OpenSSL 1.1.0.

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