

**NAME**

gnutls\_privkey\_export\_rsa\_raw2 - API function

**SYNOPSIS**

```
#include <gnutls/abstract.h>
```

```
int gnutls_privkey_export_rsa_raw2(gnutls_privkey_t key, gnutls_datum_t * m, gnutls_datum_t * e,  
gnutls_datum_t * d, gnutls_datum_t * p, gnutls_datum_t * q, gnutls_datum_t * u, gnutls_datum_t * e1,  
gnutls_datum_t * e2, unsigned int flags);
```

**ARGUMENTS**

gnutls\_privkey\_t key

Holds the certificate

gnutls\_datum\_t \* m

will hold the modulus

gnutls\_datum\_t \* e

will hold the public exponent

gnutls\_datum\_t \* d

will hold the private exponent

gnutls\_datum\_t \* p

will hold the first prime (p)

gnutls\_datum\_t \* q

will hold the second prime (q)

gnutls\_datum\_t \* u

will hold the coefficient

gnutls\_datum\_t \* e1

will hold  $e1 = d \bmod (p-1)$

gnutls\_datum\_t \* e2

will hold  $e2 = d \bmod (q-1)$

unsigned int flags

flags from `gnutls_abstract_export_flags_t`

**DESCRIPTION**

This function will export the RSA private key's parameters found in the given structure. The new parameters will be allocated using **gnutls\_malloc()** and will be stored in the appropriate datum.

**RETURNS**

**GNUTLS\_E\_SUCCESS** on success, otherwise a negative error code.

**SINCE**

3.6.0

**REPORTING BUGS**

Report bugs to <bugs@gnutls.org>.

Home page: <https://www.gnutls.org>

**COPYRIGHT**

Copyright (C) 2001- Free Software Foundation, Inc., and others.

Copying and distribution of this file, with or without modification, are permitted in any medium without royalty provided the copyright notice and this notice are preserved.

**SEE ALSO**

The full documentation for **gnutls** is maintained as a Texinfo manual. If the `/usr/local/share/doc/gnutls/` directory does not contain the HTML form visit

<https://www.gnutls.org/manual/>