

**NAME**

getrpcent\_r, getrpcbyname\_r, getrpcbynumber\_r – get RPC entry (reentrant)

**SYNOPSIS**

```
#include <netdb.h>

int getrpcent_r(struct rpcent *result_buf, char *buf,
               size_t buflen, struct rpcent **result);

int getrpcbyname_r(const char *name,
                  struct rpcent *result_buf, char *buf,
                  size_t buflen, struct rpcent **result);

int getrpcbynumber_r(int number,
                    struct rpcent *result_buf, char *buf,
                    size_t buflen, struct rpcent **result);
```

Feature Test Macro Requirements for glibc (see **feature\_test\_macros(7)**):

**getrpcent\_r()**, **getrpcbyname\_r()**, **getrpcbynumber\_r()**:

Since glibc 2.19:

    \_DEFAULT\_SOURCE

Glibc 2.19 and earlier:

    \_BSD\_SOURCE || \_SVID\_SOURCE

**DESCRIPTION**

The **getrpcent\_r()**, **getrpcbyname\_r()**, and **getrpcbynumber\_r()** functions are the reentrant equivalents of, respectively, **getrpcent(3)**, **getrpcbyname(3)**, and **getrpcbynumber(3)**. They differ in the way that the *rpcent* structure is returned, and in the function calling signature and return value. This manual page describes just the differences from the nonreentrant functions.

Instead of returning a pointer to a statically allocated *rpcent* structure as the function result, these functions copy the structure into the location pointed to by *result\_buf*.

The *buf* array is used to store the string fields pointed to by the returned *rpcent* structure. (The nonreentrant functions allocate these strings in static storage.) The size of this array is specified in *buflen*. If *buf* is too small, the call fails with the error **ERANGE**, and the caller must try again with a larger buffer. (A buffer of length 1024 bytes should be sufficient for most applications.)

If the function call successfully obtains an RPC record, then *\*result* is set pointing to *result\_buf*; otherwise, *\*result* is set to **NULL**.

**RETURN VALUE**

On success, these functions return 0. On error, they return one of the positive error numbers listed in **ERRORS**.

On error, record not found (**getrpcbyname\_r()**, **getrpcbynumber\_r()**), or end of input (**getrpcent\_r()**) *result* is set to **NULL**.

**ERRORS****ENOENT**

(**getrpcent\_r()**) No more records in database.

**ERANGE**

*buf* is too small. Try again with a larger buffer (and increased *buflen*).

**ATTRIBUTES**

For an explanation of the terms used in this section, see **attributes(7)**.

Interface	Attribute	Value
<b>getrpcent_r()</b> , <b>getrpcbyname_r()</b> , <b>getrpcbynumber_r()</b>	Thread safety	MT-Safe locale

**CONFORMING TO**

These functions are GNU extensions. Functions with similar names exist on some other systems, though typically with different calling signatures.

**SEE ALSO**

**getrpcent(3)**, **rpc(5)**

**COLOPHON**

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