

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
<code>getrpcent_r()</code> , <code>getrpcbyname_r()</code> , <code>getrpcbynumber_r()</code>	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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