



## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'bindresvport.3' command**

### **\$ man bindresvport.3**

BINDRESVPORT(3)      Linux Programmer's Manual      BINDRESVPORT(3)

#### NAME

bindresvport - bind a socket to a privileged IP port

#### SYNOPSIS

```
#include <sys/types.h>
#include <netinet/in.h>

int bindresvport(int sockfd, struct sockaddr_in *sin);
```

#### DESCRIPTION

bindresvport() is used to bind the socket referred to by the file descriptor sockfd to a privileged anonymous IP port, that is, a port number arbitrarily selected from the range 512 to 1023.

If the bind(2) performed by bindresvport() is successful, and sin is not NULL, then sin->sin\_port returns the port number actually allocated.

sin can be NULL, in which case sin->sin\_family is implicitly taken to be AF\_INET. However, in this case, bindresvport() has no way to return the port number actually allocated. (This information can later be obtained using getsockname(2).)

#### RETURN VALUE

bindresvport() returns 0 on success; otherwise -1 is returned and errno set to indicate the cause of the error.

#### ERRORS

bindresvport() can fail for any of the same reasons as bind(2). In ad?

dition, the following errors may occur:

EACCES The calling process was not privileged (on Linux: the calling process did not have the CAP\_NET\_BIND\_SERVICE capability in the user namespace governing its network namespace).

EADDRINUSE

All privileged ports are in use.

EAFNOSUPPORT (EPFNOSUPPORT in glibc 2.7 and earlier)

sin is not NULL and sin->sin\_family is not AF\_INET.

ATTRIBUTES

For an explanation of the terms used in this section, see at?

tributes(7).

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?Interface ? Attribute ? Value ?

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?bindresvport() ? Thread safety ? glibc >= 2.17: MT-Safe ?

? ? ? glibc < 2.17: MT-Unsafe ?

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The bindresvport() function uses a static variable that was not protected by a lock before glibc 2.17, rendering the function MT-Unsafe.

CONFORMING TO

Not in POSIX.1. Present on the BSDs, Solaris, and many other systems.

NOTES

Unlike some bindresvport() implementations, the glibc implementation ignores any value that the caller supplies in sin->sin\_port.

SEE ALSO

bind(2), getsockname(2)

COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at https://www.kernel.org/doc/man-pages/.