Rocky Enterprise Linux 9.2 Manual Pages on command 'bindresvport.3'

$ 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 de?

    scriptor sockfd to a privileged anonymous IP port, that is, a port num?

    ber 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 allo?

    cated.

    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 ob?

    tained 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               ?
??????????????????????????????????????????????????????????????????
?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 pro‐tected 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/.