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Rocky Enterprise Linux 9.2 Manual Pages on command 'bindresvport.3t'

\$ man bindresvport.3t

BINDRESVPORT(3) BSD Library Functions Manual BINDRESVPORT(3)

NAME

bindresvport, bindresvport_sa ? bind a socket to a privileged IP port

SYNOPSIS

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

```
#include <rpc/rpc.h>
```

```
int
```

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

```
int
```

```
bindresvport_sa(int sd, struct sockaddr *sa);
```

DESCRIPTION

The bindresvport() and bindresvport_sa() functions are used to bind a socket descriptor to a privileged IP port, that is, a port number in the range 0-1023.

If sin is a pointer to a struct sockaddr_in then the appropriate fields in the structure should be defined. Note that sin->sin_family must be initialized to the address family of the socket, passed by sd. If sin->sin_port is ?0? then an anonymous port (in the range 600-1023) will be chosen, and if bind(2) is successful, the sin->sin_port will be updated to

contain the allocated port.

If `sin` is the `NULL` pointer, an anonymous port will be allocated (as above). However, there is no way for `bindresvport()` to return the allocated port in this case.

Only root can bind to a privileged port; this call will fail for any other users.

Function prototype of `bindresvport()` is biased to `AF_INET` socket. The `bindresvport_sa()` function acts exactly the same, with more neutral function prototype. Note that both functions behave exactly the same, and both support `AF_INET6` sockets as well as `AF_INET` sockets.

RETURN VALUES

The `bindresvport()` function returns the value 0 if successful; otherwise the value -1 is returned and the global variable `errno` is set to indicate the error.

ERRORS

[`EPFNOSUPPORT`] If second argument was supplied, and address family did not match between arguments.

The `bindresvport()` function may also fail and set `errno` for any of the errors specified for the calls `bind(2)`, `getsockopt(2)`, or `setsockopt(2)`.

AVAILABILITY

The `bindresvport()` function is part of `libtirpc`.

SEE ALSO

`bind(2)`, `getsockopt(2)`, `setsockopt(2)`

BSD

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BSD