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# Rocky Enterprise Linux 9.2 Manual Pages on command 'socketpair.2'

### \$ man socketpair.2

SOCKETPAIR(2)

Linux Programmer's Manual

SOCKETPAIR(2)

#### NAME

socketpair - create a pair of connected sockets

### SYNOPSIS

#include <sys/types.h> /\* See NOTES \*/

#include <sys/socket.h>

int socketpair(int domain, int type, int protocol, int sv[2]);

#### DESCRIPTION

The socketpair() call creates an unnamed pair of connected sockets in the specified do?

main, of the specified type, and using the optionally specified protocol. For further de?

tails of these arguments, see socket(2).

The file descriptors used in referencing the new sockets are returned in sv[0] and sv[1].

The two sockets are indistinguishable.

#### **RETURN VALUE**

On success, zero is returned. On error, -1 is returned, errno is set appropriately, and

sv is left unchanged

On Linux (and other systems), socketpair() does not modify sv on failure. A requirement standardizing this behavior was added in POSIX.1-2008 TC2.

#### ERRORS

#### EAFNOSUPPORT

The specified address family is not supported on this machine.

EFAULT The address sv does not specify a valid part of the process address space.

EMFILE The per-process limit on the number of open file descriptors has been reached.

ENFILE The system-wide limit on the total number of open files has been reached.

## EOPNOTSUPP

The specified protocol does not support creation of socket pairs.

# **EPROTONOSUPPORT**

The specified protocol is not supported on this machine.

## CONFORMING TO

POSIX.1-2001, POSIX.1-2008, 4.4BSD. socketpair() first appeared in 4.2BSD. It is gener? ally portable to/from non-BSD systems supporting clones of the BSD socket layer (including System V variants).

### NOTES

On Linux, the only supported domains for this call are AF\_UNIX (or synonymously, AF\_LOCAL)

and AF\_TIPC (since Linux 4.12).

Since Linux 2.6.27, socketpair() supports the SOCK\_NONBLOCK and SOCK\_CLOEXEC flags in the type argument, as described in socket(2).

POSIX.1 does not require the inclusion of <sys/types.h>, and this header file is not re?

quired on Linux. However, some historical (BSD) implementations required this header

file, and portable applications are probably wise to include it.

# SEE ALSO

pipe(2), read(2), socket(2), write(2), socket(7), unix(7)

# 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/.

Linux

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SOCKETPAIR(2)