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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'socketcall.2' command**

**\$ man socketcall.2**

SOCKETCALL(2)      Linux Programmer's Manual      SOCKETCALL(2)

### NAME

socketcall - socket system calls

### SYNOPSIS

```
#include <linux/net.h>
```

```
int socketcall(int call, unsigned long *args);
```

### DESCRIPTION

socketcall() is a common kernel entry point for the socket system calls. call determines which socket function to invoke. args points to a block containing the actual arguments, which are passed through to the appropriate call.

User programs should call the appropriate functions by their usual names. Only standard library implementors and kernel hackers need to know about socketcall().

call      Man page

SYS\_SOCKET      socket(2)

SYS\_BIND      bind(2)

SYS\_CONNECT      connect(2)

SYS\_LISTEN      listen(2)

SYS\_ACCEPT      accept(2)

SYS\_GETSOCKNAME      getsockname(2)

SYS\_GETPEERNAME      getpeername(2)

SYS\_SOCKETPAIR      socketpair(2)

SYS\_SEND send(2)  
SYS\_RECV recv(2)  
SYS\_SENDDTO sendto(2)  
SYS\_RECVFROM recvfrom(2)  
SYS\_SHUTDOWN shutdown(2)  
SYS\_SETSOCKOPT setsockopt(2)  
SYS\_GETSOCKOPT getsockopt(2)  
SYS\_SENDMSG sendmsg(2)  
SYS\_RECVMSG recvmsg(2)  
SYS\_ACCEPT4 accept4(2)  
SYS\_RECVMMSG recvmsg(2)  
SYS\_SENDMMSG sendmsg(2)

## CONFORMING TO

This call is specific to Linux, and should not be used in programs intended to be portable.

## NOTES

On some architectures?for example, x86-64 and ARM?there is no socket() call() system call; instead socket(2), accept(2), bind(2), and so on really are implemented as separate system calls.

On x86-32, socketcall() was historically the only entry point for the sockets API. However, starting in Linux 4.3, direct system calls are provided on x86-32 for the sockets API. This facilitates the creation of seccomp(2) filters that filter sockets system calls (for new user-space binaries that are compiled to use the new entry points) and also provides a (very) small performance improvement.

## SEE ALSO

accept(2), bind(2), connect(2), getpeername(2), getsockname(2), getsockopt(2), listen(2), recv(2), recvfrom(2), recvmsg(2), send(2), sendmsg(2), sendto(2), setsockopt(2), shutdown(2), socket(2), socketpair(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/>.

Linux

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