

Package ‘socketR’

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Title POSIX Socket Programming for R

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Description Provides a small POSIX sockets interface to R, enabling direct network communication from R for applications that need low-level socket control or lightweight client and server connections. This package provides IPv4 and IPv6 support with 'TCP/UDP' protocols. It functional API with 'socket_create' and an R6 interface through 'Socket' object.

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socketR-package	<i>POSIX socket programming for R</i>
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Description

External-pointer sockets implemented with base R's C API for POSIX TCP, UDP, IPv4, and IPv6 and Unix-domain socket operations, including bind, listen, accept, connect, send, receive, polling, shutdown, close, socket names, and typed options.

Details

Socket handles are RAII-managed external pointers and should still be closed explicitly with `socket_close()` when possible. Most system-call failures include the POSIX errno name and number.

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See Also

Useful links:

- <https://sassoftware.github.io/socketr/>

close.Socket	<i>Close an R6 Socket with the standard R connection API.</i>
--------------	---

Description

Close an R6 Socket with the standard R connection API.

Usage

```
## S3 method for class 'Socket'  
close(con, ...)
```

Arguments

con	A Socket R6 object.
...	Ignored.

close.socketr_socket	<i>Close a socketR handle with the standard R connection API.</i>
----------------------	---

Description

Close a socketR handle with the standard R connection API.

Usage

```
## S3 method for class 'socketr_socket'  
close(con, ...)
```

Arguments

con	A socketR socket handle.
...	Ignored.

Socket

R6 convenience wrapper for socketR handles.

Description

The public methods mirror the functional API: `is_open()`, `fd()`, `info()`, `set_blocking()`, `bind()`, `listen()`, `accept()`, `connect()`, `send()`, `receive()`, `send_to()`, `receive_from()`, `shutdown()`, `close()`, `local_name()`, `peer_name()`, `poll()`, `get_option()`, `set_option()`, and `set_options()`. They delegate to the corresponding documented functions while retaining the handle as object state.

Use `Socket$new_auto()` to create a connected client with IPv4/IPv6 fallback, or `Socket$new_listener()` to create a listening server with IPv4/IPv6 fallback.

Value

An R6 Socket object.

Public fields

`handle` The underlying `socketr_socket` external pointer.

Active bindings

`address` Local address, when bound.

`port` Local port, when bound.

`peer_address` Connected peer address, when connected.

`peer_port` Connected peer port, when connected.

`family` Address family ("inet", "inet6", or "unix").

`type` Socket type ("stream" or "dgram").

`protocol` Numeric socket protocol.

`blocking` Whether the socket is in blocking mode.

`open` Whether the underlying socket is open.

Methods

Public methods:

- `Socket$new()`
- `Socket$new_auto()`
- `Socket$new_listener()`
- `Socket$is_open()`
- `Socket$fd()`
- `Socket$info()`
- `Socket$set_blocking()`
- `Socket$bind()`

- `Socket$listen()`
- `Socket$accept()`
- `Socket$connect()`
- `Socket$as_connection()`
- `Socket$write()`
- `Socket$read()`
- `Socket$send()`
- `Socket$receive()`
- `Socket$send_to()`
- `Socket$receive_from()`
- `Socket$shutdown()`
- `Socket$close()`
- `Socket$local_name()`
- `Socket$peer_name()`
- `Socket$poll()`
- `Socket$get_option()`
- `Socket$set_options()`
- `Socket$set_option()`
- `Socket$clone()`

`Socket$new()`: Create a socket wrapper or wrap an existing handle.

Usage:

```
Socket$new(  
  domain = c("inet", "inet6", "unix"),  
  type = c("stream", "dgram"),  
  protocol = 0L,  
  nonblocking = FALSE,  
  cloexec = TRUE,  
  handle = NULL  
)
```

Arguments:

`domain` Address family passed to `socket_create()`.

`type` Socket type passed to `socket_create()`.

`protocol` Numeric protocol passed to `socket_create()`.

`nonblocking` Whether the new socket is nonblocking.

`cloexec` Whether the new socket is close-on-exec.

`handle` An existing socketR handle to wrap.

`Socket$new_auto()`: Create a connected client using IPv4/IPv6 endpoint fallback.

Usage:

```
Socket$new_auto(  
  address,  
  port = NULL,  
  type = c("stream", "dgram"),
```

```

    protocol = 0L,
    nonblocking = FALSE,
    cloexec = TRUE,
    prefer = c("inet6", "inet")
  )

```

Arguments:

address Hostname, IP address, or endpoint such as "[::1]:8080".

port Optional port when it is not embedded in address.

type Socket type, "stream" (TCP) or "dgram" (UDP).

protocol Numeric protocol, usually zero.

nonblocking Whether the socket should be nonblocking.

cloexec Whether to set close-on-exec.

prefer Address families to try, in order.

Returns: A connected [Socket](#) R6 object.

`Socket$new_listener()`: Create a listener using IPv4/IPv6 endpoint fallback.

Usage:

```

Socket$new_listener(
  address = NULL,
  port = NULL,
  backlog = 128L,
  reuse_address = TRUE,
  cloexec = TRUE,
  prefer = c("inet6", "inet")
)

```

Arguments:

address Local hostname, IP address, endpoint, or NULL for wildcard.

port Optional port when it is not embedded in address.

backlog Maximum pending connection queue length.

reuse_address Whether to set SO_REUSEADDR.

cloexec Whether to set close-on-exec.

prefer Address families to try, in order.

Returns: A listening [Socket](#) R6 object.

`Socket$is_open()`: Test whether the wrapped socket is open.

Usage:

```

Socket$is_open()

```

`Socket$fd()`: Return the wrapped socket file descriptor.

Usage:

```

Socket$fd()

```

`Socket$info()`: Return metadata for the wrapped socket.

Usage:

Socket\$info()

Socket\$set_blocking(): Set blocking mode.

Usage:

Socket\$set_blocking(blocking = TRUE)

Arguments:

blocking Whether operations should block.

Socket\$bind(): Bind the wrapped socket.

Usage:

Socket\$bind(address = NULL, port = NULL)

Arguments:

address Local hostname, IP address, or Unix path.

port Local port, or NULL for Unix sockets.

Socket\$listen(): Listen for stream connections.

Usage:

Socket\$listen(backlog = 128L)

Arguments:

backlog Maximum pending connection queue length.

Socket\$accept(): Accept a pending connection.

Usage:

Socket\$accept(nonblocking = NULL)

Arguments:

nonblocking Whether the accepted socket should be nonblocking.

Socket\$connect(): Connect the wrapped socket.

Usage:

Socket\$connect(address, port = NULL)

Arguments:

address Remote hostname, IP address, or Unix path.

port Remote port, or NULL for Unix sockets.

Socket\$as_connection(): Return the wrapped socket as an R connection.

Usage:

Socket\$as_connection()

Socket\$write(): Write bytes to the wrapped socket.

Usage:

Socket\$write(object, flags = 0L)

Arguments:

object Raw bytes or a character scalar.
flags Native send() flags.

Socket\$read(): Read bytes from the wrapped socket.

Usage:

Socket\$read(n = 4096L, flags = 0L)

Arguments:

n Maximum number of bytes.
flags Native recv() flags.

Socket\$send(): Send bytes on the wrapped socket.

Usage:

Socket\$send(data, flags = 0L)

Arguments:

data Raw bytes or a character scalar.
flags Native send() flags.

Socket\$receive(): Receive bytes from the wrapped socket.

Usage:

Socket\$receive(n = 4096L, flags = 0L)

Arguments:

n Maximum number of bytes.
flags Native recv() flags.

Socket\$send_to(): Send a datagram.

Usage:

Socket\$send_to(data, address, port = NULL, flags = 0L)

Arguments:

data Raw bytes or a character scalar.
address Destination hostname or IP address.
port Destination port.
flags Native sendto() flags.

Socket\$receive_from(): Receive a datagram.

Usage:

Socket\$receive_from(n = 4096L, flags = 0L)

Arguments:

n Maximum datagram payload size.
flags Native recvfrom() flags.

Socket\$shutdown(): Shut down part of the connection.

Usage:

```
Socket$shutdown(how = c("both", "read", "write"))
```

Arguments:

how One of "read", "write", or "both".

Socket\$close(): Close the wrapped socket.

Usage:

```
Socket$close()
```

Socket\$local_name(): Return the local socket name.

Usage:

```
Socket$local_name()
```

Socket\$peer_name(): Return the peer socket name.

Usage:

```
Socket$peer_name()
```

Socket\$poll(): Poll the wrapped socket.

Usage:

```
Socket$poll(events = "read", timeout_ms = 60000L)
```

Arguments:

events Requested readiness events.

timeout_ms Timeout in milliseconds.

Socket\$get_option(): Get a socket option.

Usage:

```
Socket$get_option(  
  level = "socket",  
  option,  
  type = c("int", "logical", "timeval", "linger", "raw"),  
  size = 256L  
)
```

Arguments:

level Option level.

option Option name or numeric constant.

type Return type.

size Maximum raw option size.

Socket\$set_options(): Set multiple socket options.

Usage:

```
Socket$set_options(options)
```

Arguments:

options Option specifications.

Socket\$set_option(): Set a socket option.

Usage:

```
Socket$set_option(
  level = "socket",
  option,
  value,
  type = c("int", "logical", "timeval", "linger", "raw")
)
```

Arguments:

level Option level.

option Option name or numeric constant.

value Option value.

type Value type.

Socket\$clone(): The objects of this class are cloneable with this method.

Usage:

```
Socket$clone(deep = FALSE)
```

Arguments:

deep Whether to make a deep clone.

socket_connections	<i>Adapt sockets and R connections for byte I/O.</i>
--------------------	--

Description

Adapt a socket handle to an R connection. The returned connection can be passed to base R functions such as `readBin()`, `writeBin()`, `readLines()`, and `writeLines()`. Closing the connection does not close the underlying socket handle; call `socket_close()` explicitly when the handle is no longer needed.

Uses R's connection dispatch, so this works with `socket_connection()` and other readable R connections.

Uses R's connection dispatch, so this works with `socket_connection()` and other writable R connections.

Usage

```
socket_connection(socket, close_socket = FALSE)
```

```
socket_connection_read(connection, n = 4096L)
```

```
socket_connection_write(connection, data)
```

Arguments

socket	A socketR socket handle.
close_socket	Whether closing the adapter should also close the underlying socket. The default FALSE preserves adapter-only close behavior.
connection	An open R connection.
n	Maximum number of bytes to read.
data	A raw vector.

Value

An R connection object.

A raw vector, possibly shorter than n at end-of-file.

Number of bytes written.

Examples

```
s <- socket_create()
con <- socket_connection(s)
close(con)
socket_close(s)
```

socket_connect_auto *Connect using the first available IPv6 or IPv4 endpoint.*

Description

Resolves address for both requested address families, tries endpoints in prefer order, and creates a socket matching the endpoint that succeeds. This is the address-aware alternative to an "auto" socket domain. It supports IPv4 and IPv6 Internet sockets only; Unix-domain filesystem paths are not resolved by this helper. Use type = "dgram" for UDP or the default type = "stream" for TCP.

Usage

```
socket_connect_auto(
  address,
  port = NULL,
  type = c("stream", "dgram"),
  protocol = 0L,
  nonblocking = FALSE,
  cloexec = TRUE,
  prefer = c("inet6", "inet")
)
```

Arguments

address	A hostname or numeric IP address.
port	A port between 0 and 65535, or NULL when embedded in a bracketed endpoint such as "[::1]:12345".
type	Socket type: "stream" or "dgram".
protocol	Numeric protocol, usually zero.
nonblocking	Whether the socket should be nonblocking.
cloexec	Whether to set close-on-exec.
prefer	Address families to try, in order.

Value

A connected socketR handle.

Examples

```
if (interactive()) {
  client <- socket_connect_auto("localhost", 80L)
  socket_close(client)
}
```

socket_datagrams	<i>Datagram socket I/O.</i>
------------------	-----------------------------

Description

Send bytes to a datagram destination.

Usage

```
socket_send_to(socket, data, address, port = NULL, flags = 0L)
```

```
socket_receive_from(socket, n = 4096L, flags = 0L)
```

Arguments

socket	A datagram socket handle.
data	A raw vector or character scalar.
address	Destination hostname, IP address, or Unix-domain path.
port	Destination port; NULL for Unix sockets.
flags	Native recvfrom() flags.
n	Maximum datagram payload size.

Value

Number of bytes sent, or NA_integer_ if I/O would block.

A list with data and address, or NULL if I/O would block.

Examples

```
if (interactive()) {
  receiver <- socket_create(type = "dgram")
  sender <- socket_create(type = "dgram")
  socket_bind(receiver, "127.0.0.1", 0L)
  socket_send_to(sender, "hello", "127.0.0.1",
                 socket_local_name(receiver)$port)
  socket_receive_from(receiver)
  socket_close(sender); socket_close(receiver)
}
```

socket_fd	<i>Return the native file descriptor, or NA for a closed socket.</i>
-----------	--

Description

Return the local socket name.

Usage

```
socket_fd(socket)
```

```
socket_info(socket)
```

```
socket_local_name(socket)
```

```
socket_peer_name(socket)
```

Arguments

socket A connected socket handle.

Value

An integer descriptor or NA_integer_.

A list containing socket metadata.

Address metadata as a list.

Address metadata as a list.

Examples

```
s <- socket_create()
socket_local_name(s)
socket_close(s)
```

socket_get_option	<i>Get a socket option.</i>
-------------------	-----------------------------

Description

Get a socket option.

Usage

```
socket_get_option(  
  socket,  
  level = "socket",  
  option,  
  type = c("int", "logical", "timeval", "linger", "raw"),  
  size = 256L  
)
```

Arguments

socket	A socketR socket handle.
level	Option level such as "socket" or "tcp".
option	Option name or native numeric constant.
type	Return type: "int", "logical", "timeval", "linger", or "raw".
size	Maximum raw option size.

Value

The option value.

socket_io	<i>Stream socket I/O.</i>
-----------	---------------------------

Description

Write bytes to a connected socket. This is a connection-style alias for `socket_send()`. It returns the number of bytes written, which may be less than the input length for a nonblocking socket or a large payload.

This is a connection-style alias for `socket_receive()`. Blocking sockets wait until at least one byte is available or the peer closes the connection.

Usage

```
socket_write(socket, object, flags = 0L)

socket_send(socket, data, flags = 0L)

socket_read(socket, n = 4096L, flags = 0L)

socket_receive(socket, n = 4096L, flags = 0L)
```

Arguments

socket	A connected socket handle.
object	A raw vector or character scalar.
flags	Native <code>recv()</code> flags.
data	A raw vector or character scalar.
n	Maximum number of bytes to receive.

Value

Number of bytes written, or `NA_integer_` if I/O would block.

Number of bytes sent, or `NA_integer_` if nonblocking I/O would block.

A raw vector, or `NULL` if a nonblocking read would block.

A raw vector, or `NULL` if nonblocking I/O would block.

Examples

```
if (interactive()) {
  server <- socket_create()
  client <- socket_create()
  socket_bind(server, "127.0.0.1", 0L)
  socket_listen(server)
  socket_connect(client, "127.0.0.1", socket_local_name(server)$port)
  peer <- socket_accept(server)
  socket_write(client, "hello")
}
```

```
    socket_read(peer, 5L)
    socket_close(peer); socket_close(client); socket_close(server)
  }
```

socket_lifecycle	<i>Manage a socket handle lifecycle.</i>
------------------	--

Description

Manage a socket handle lifecycle.

Test whether a socket handle is open.

Shut down part of a full-duplex socket.

Usage

```
socket_close(socket)
```

```
socket_is_open(socket)
```

```
socket_shutdown(socket, how = c("both", "read", "write"))
```

Arguments

socket A socketR socket handle.

how One of "read", "write", or "both".

Value

Invisibly, TRUE.

A logical scalar.

Invisibly, the socket handle.

Examples

```
s <- socket_create()
socket_close(s)
```

socket_listen_auto	<i>Listen on the first available IPv6 or IPv4 address family.</i>
--------------------	---

Description

Creates a stream listener, tries bind candidates in prefer order, and returns the first listener that binds and listens successfully. When address is NULL, the family wildcard ("::" or "0.0.0.0") is used. This helper supports IPv4 and IPv6 stream sockets only. Unix-domain sockets require an explicit filesystem path with [socket_create\(\)](#) and [socket_bind\(\)](#).

Usage

```
socket_listen_auto(
  address = NULL,
  port = NULL,
  backlog = 128L,
  reuse_address = TRUE,
  cloexec = TRUE,
  prefer = c("inet6", "inet")
)
```

Arguments

address	A local hostname or IP address, or NULL for a wildcard.
port	A port between 0 and 65535, or NULL when embedded in a bracketed endpoint such as "[::1]:12345".
backlog	Maximum pending connection queue length.
reuse_address	Whether to set SO_REUSEADDR before binding.
cloexec	Whether to set close-on-exec.
prefer	Address families to try, in order.

Value

A listening socketR handle.

Examples

```
listener <- socket_listen_auto(port = 0L, prefer = "inet")
socket_local_name(listener)
socket_close(listener)
```

socket_options	<i>Common socket option helpers.</i>
----------------	--------------------------------------

Description

These helpers read or set frequently used socket options. With the `value` argument omitted, the current option value is returned; otherwise the option is updated and the socket handle is returned invisibly. The `socket_linger()` helper uses `on` and `seconds` to configure `SO_LINGER`.

Usage

```
socket_reuse_address(socket, value)

socket_keep_alive(socket, value)

socket_broadcast(socket, value)

socket_no_delay(socket, value)

socket_quick_ack(socket, value)

socket_receive_buffer_size(socket, value)

socket_send_buffer_size(socket, value)

socket_receive_timeout(socket, value)

socket_send_timeout(socket, value)

socket_linger(socket, on, seconds = 0L)
```

Arguments

<code>socket</code>	A socketR socket handle.
<code>value</code>	Optional option value to set. Its type depends on the helper: logical, integer, or numeric seconds.
<code>on</code>	Optional logical linger enable flag.
<code>seconds</code>	Linger duration in seconds.

Value

The option value when reading; invisibly, the socket when setting.

Examples

```
s <- socket_create()
socket_reuse_address(s, TRUE)
socket_reuse_address(s)
socket_close(s)
```

socket_readiness	<i>Control socket blocking and readiness.</i>
------------------	---

Description

Control socket blocking and readiness.

Poll sockets for readiness.

Usage

```
socket_set_blocking(socket, blocking = TRUE)

socket_poll(sockets, events = "read", timeout_ms = 60000L)
```

Arguments

socket	A socketR socket handle.
blocking	Whether operations should block.
sockets	A socket handle or list of handles.
events	Requested "read", "write", or combined readiness.
timeout_ms	Timeout in milliseconds; use -1 to wait indefinitely.

Value

Invisibly, the socket handle.

A data frame with readiness flags and native revents values.

Examples

```
s <- socket_create()
socket_set_blocking(s, FALSE)
socket_close(s)

s <- socket_create()
socket_poll(s, "read", timeout_ms = 0L)
socket_close(s)
```

socket_resolve	<i>Resolve a hostname or address into socket endpoints.</i>
----------------	---

Description

Resolve a hostname or address into socket endpoints.

Usage

```
socket_resolve(address, domain = c("inet", "inet6"), port = 0L)
```

Arguments

address	A hostname or numeric IP address.
domain	Address family, such as "inet" or "inet6".
port	Numeric service port between 0 and 65535.

Value

A list of resolved endpoint metadata.

socket_setup	<i>Create and configure POSIX sockets.</i>
--------------	--

Description

Create a POSIX socket.

Usage

```
socket_create(  
  domain = c("inet", "inet6", "unix"),  
  type = c("stream", "dgram"),  
  protocol = 0L,  
  nonblocking = FALSE,  
  cloexec = TRUE  
)  
  
socket_bind(socket, address = NULL, port = NULL)  
  
socket_listen(socket, backlog = 128L)  
  
socket_accept(socket, nonblocking = NULL)  
  
socket_connect(socket, address, port = NULL)
```

Arguments

domain	Address family: "inet", "inet6", or "unix".
type	Socket type: "stream" or "dgram".
protocol	Numeric protocol, usually zero.
nonblocking	Whether the accepted socket should be nonblocking; NULL inherits the listener mode.
cloexec	Whether to set close-on-exec.
socket	A socketR socket handle.
address	A hostname, IP address, or Unix-domain path.
port	A port between 0 and 65535; NULL for Unix sockets.
backlog	Maximum pending connection queue length.

Value

A socketR external-pointer handle.
 Invisibly, the socket handle.
 Invisibly, the socket handle.
 A socket handle, or NULL when no connection is pending.
 TRUE when connected, or FALSE when connection is in progress.

Examples

```
s <- socket_create()
socket_close(s)
```

socket_set_option	<i>Set a socket option.</i>
-------------------	-----------------------------

Description

Set a socket option.

Usage

```
socket_set_option(
  socket,
  level = "socket",
  option,
  value,
  type = c("int", "logical", "timeval", "linger", "raw")
)
```

Arguments

socket	A socketR socket handle.
level	Option level such as "socket" or "tcp".
option	Option name or native numeric constant.
value	Value matching type.
type	Value type: "int", "logical", "timeval", "linger", or "raw".

Value

Invisibly, the socket handle.

socket_set_options	<i>Set multiple socket options in order.</i>
--------------------	--

Description

Each element of options must be a list containing option and value, with optional level and type entries. Options are applied in list order. If a native option fails, the error includes the zero-based count of options already applied in its applied field.

Usage

```
socket_set_options(socket, options)
```

Arguments

socket	A socketR socket handle.
options	A non-empty list of option specifications.

Value

The socket handle, invisibly.

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