

Package ‘netstat’

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Type Package

Title Retrieve Network Statistics Including Available TCP Ports

Version 0.1.1

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BugReports <https://github.com/stevecondylis/netstat/issues>

URL <https://github.com/stevecondylis/netstat>

Description R interface for the 'netstat' command line utility used to retrieve and parse commonly used network statistics, including available and in-use transmission control protocol (TCP) ports. Primers offering technical background information on the 'netstat' command line utility are available in the ``Linux System Administrator's Manual'' by Michael Kerrisk (2014) <<http://man7.org/linux/man-pages/man8/netstat.8.html>>, and on the Microsoft website (2017) <<https://docs.microsoft.com/en-us/windows-server/administration/windows-commands/netstat>>.

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Encoding UTF-8

LazyData true

RoxygenNote 6.1.1

Imports utils

Language en-US

NeedsCompilation no

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netstat-package	<i>Retrieve Network Statistics Including Available TCP Ports</i>
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Description

Retrieve Network Statistics Including Available TCP Ports

Details

It has the goal of providing a convenient way of retrieving and parsing commonly used Transmission Control Protocol (TCP) port information provided via the 'netstat' command line utility.

Author(s)

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free_port	<i>Retrieve a Transmission Control Protocol (TCP) port that is not currently in use</i>
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Description

Retrieve a Transmission Control Protocol (TCP) port that is not currently in use

Usage

```
free_port(random)
```

Arguments

random	Boolean value that defaults to FALSE
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Value

An integer vector of length one

Examples

```
## Not run:
  free_port()
  free_port(random = TRUE)

## End(Not run)
```

free_ports	<i>Retrieve many (not all) Transmission Control Protocol (TCP) ports that are not currently in use</i>
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Description

Retrieve many (not all) Transmission Control Protocol (TCP) ports that are not currently in use

Usage

```
free_ports()
```

Value

An integer vector

Examples

```
## Not run:  
free_ports()  
  
## End(Not run)
```

parse_netstat	<i>Parse the output of the 'Netstat' command line utility - obtained via netstat()</i>
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Description

Parse the output of the 'Netstat' command line utility - obtained via netstat()

Usage

```
parse_netstat(netstat_output)
```

Arguments

netstat_output The output of netstat() - i.e. a character vector comprising the output of the Netstat command line utility

Value

A data.frame containing the Active Internet Connections from netstat() output

Examples

```
## Not run:
netstat_output <- netstat()
(active_connections_table <- parse_netstat(netstat_output))

## End(Not run)
```

ports_in_use	<i>Obtain the TCP ports currently in use</i>
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Description

Obtain the TCP ports currently in use

Usage

```
ports_in_use()
```

Value

A character vector of the TCP ports currently in use

Examples

```
## Not run:
(active_ports <- ports_in_use())

## End(Not run)
```

unassigned_ports	<i>Obtain a list of the largest ranges of unassigned Transmission Control Protocol (TCP) ports as provided by the Internet Assigned Numbers Authority (IANA)</i>
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Description

Obtain a list of the largest ranges of unassigned Transmission Control Protocol (TCP) ports as provided by the Internet Assigned Numbers Authority (IANA)

Usage

```
unassigned_ports()
```

Value

A character vector comprising unassigned Transmission Control Protocol (TCP) ports provided by the Internet Assigned Numbers Authority (IANA). Note that not all unassigned ports will necessarily be returned.

Examples

```
## Not run:  
  unassigned_ports()  
  
## End(Not run)
```

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