

Package: JuliaConnectoR.utils (via r-universe)

May 27, 2026

Title Utility Functions for the JuliaConnectoR

Version 0.0.1

Description Utility functions for the JuliaConnectoR package for developers and users. Helps users of R packages that link R and Julia via JuliaConnectoR to install Julia and Julia dependencies, to connect R and Julia, to set the number of threads Julia uses from within R and to set a Julia seed from R. Helps developers to set up a github actions workflow to run both R and Julia.

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Depends JuliaConnectoR, usethis, JuliaCall, stringr, utils

Config/pak/sysreqs cmake git make libgit2-dev libicu-dev libuv1-dev libssl-dev libx11-dev

Repository <https://s3alfisc.r-universe.dev>

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check_julia_system_requirements

Checks if the used version of Julia and installed version of a Julia package are aligned with the requirements in the package's description file.

Description

Checks if the used version of Julia and installed version of a Julia package are aligned with the requirements in the package's description file.

Usage

```
check_julia_system_requirements(r_pkg)
```

Arguments

`r_pkg` The name of a package. The specified package's description file is checked for a required Julia and package version number

Examples

```
check_julia_system_requirements("fwildclusterboot")
```

connect_julia_r

Function to help connect Julia and R

Description

Function to help connect Julia and R

Usage

```
connect_julia_r()
```

install_julia	<i>Install Julia.</i>
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Description

Install Julia.

Usage

```
install_julia(prefix = JuliaCall:::julia_default_install_dir())
```

Arguments

prefix	the directory where Julia will be installed. If not set, a default location will be determined by rappdirs if it is installed, otherwise an error will be raised.
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install_julia_packages	<i>Install Julia packages from R</i>
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Description

Install Julia packages from R

Usage

```
install_julia_packages/packages)
```

Arguments

Character	Vector. The Julia packages to be installed
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Examples

```
packages <- c("WildBootTests", "FixedEffectModels", "Random")
packages <- c("WildBootTests.jl", "FixedEffectModels.jl", "Random.jl")
install_julia_packages/packages)
```

set_julia_nthreads *Helper function to set the number of threads for use in Julia*

Description

Helper function to set the number of threads for use in Julia

Usage

```
set_julia_nthreads()
```

set_julia_seed *Set a global seed in the current Julia session*

Description

Set a global seed in the current Julia session

Usage

```
set_julia_seed(rng)
```

Arguments

rng An integer that controls the random number generation

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