

Package ‘RcppGetconf’

January 20, 2025

Type Package

Title 'Rcpp' Interface for Querying System Configuration Variables

Version 0.0.4

Date 2025-01-07

Description The 'getconf' command-line tool provided by 'libc' allows querying of a large number of system variables. This package provides similar functionality.

URL <https://github.com/eddelbuettel/rcppgetconf>,
<https://dirk.eddelbuettel.com/code/rcpp.getconf.html>

BugReports <https://github.com/eddelbuettel/rcppgetconf/issues>

Imports Rcpp

LinkingTo Rcpp

SystemRequirements A POSIX system. Currently Linux and macOS are known to work.

OS_type unix

License GPL (>= 2)

Encoding UTF-8

RoxygenNote 6.0.1

NeedsCompilation yes

Author Dirk Eddelbuettel [aut, cre] (<<https://orcid.org/0000-0001-6419-907X>>)

Maintainer Dirk Eddelbuettel <edd@debian.org>

Repository CRAN

Date/Publication 2025-01-08 10:40:02 UTC

Contents

getAll	2
getConfig	3

Index	4
--------------	----------

getAll	<i>Return all System Configuration Settings</i>
--------	---

Description

Retrieve all configuration settings

Usage

```
getAll(path = ".")
```

Arguments

path An optional character object specifying a path. Default is the current directory.

Details

This functions returns all configuration settings which can be queried in a data.frame object. The system-level functions sysconf, pathconf and confstr provide all the underlying information.

Value

A data.frame with three colums for key, value and (source) type. Not all keys return a value; in those cases an empty string is returned. Type is one of path, sys and conf and signals how the value was obtained.

Author(s)

Dirk Eddelbuettel

See Also

[getConfig](#)

Examples

```
if (Sys.info()[["sysname"]] != "SunOS") {  
  head(getAll(), 30)  
  subset(getAll(), type=="path")  
}
```

getConfig	<i>Return a System Configuration Setting</i>
-----------	--

Description

Retrieve one configuration setting

Usage

```
getConfig(var, path = ".")
```

Arguments

var	An character object specifying a value for which configuration is queried.
path	An optional character object specifying a path. Default is the current directory.

Details

This functions returns the configuration setting for a given input. in a data.frame object. The system-level functions `sysconf`, `pathconf` and `confstr` provide the underlying information.

Value

A result value corresponding to the requested setting. The return type can be either integer for a numeric value, character for text or NULL in case to value could be retrieved.

Author(s)

Dirk Eddelbuettel

See Also

[getAll](#)

Examples

```
if (Sys.info()[["sysname"]] != "SunOS") {
  getConfig("_NPROCESSORS_CONF") # number of processor
  getConfig("LEVEL1_ICACHE_SIZE") # leve1 cache size
  getConfig("GNU_LIBC_VERSION") # libc version
}
```

Index

`getAll`, 2, 3
`getConfig`, 2, 3