Package: inih (via r-universe)

December 31, 2024

Type Package

Title Fast INI File Parser for R

Version 0.1

Date 2024-12-31

Description Provide a simple 'INI' file parser to structured list format. Using the 'C' library 'inih' <https://github.com/benhoyt/inih> as backend of fast performance.

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URL https://github.com/DyfanJones/inih

BugReports https://github.com/DyfanJones/inih/issues

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

Encoding UTF-8

LinkingTo Rcpp

Imports Rcpp (>= 1.0.11)

Suggests knitr, testthat (>= 3.0.0)

Collate 'RcppExports.R'

Config/testthat/edition 3

Repository https://dyfanjones.r-universe.dev

RemoteUrl https://github.com/DyfanJones/inih

RemoteRef HEAD

RemoteSha 54ee31987af996859017facabf5165262b04f618

Contents

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read_ini   *Read Configuration Data from an INI File*

Description

This function reads an INI file and converts its contents into an R list structure.

Usage

```
read_ini(filename)
```

Arguments

filename   A string specifying the path to the input INI file.

Details

The `read_ini` function parses the specified INI file and converts its sections and key-value pairs into a nested R list. Each section in the INI file becomes a named list within the result, and each key-value pair within a section becomes an element of that list.

If the INI file cannot be loaded, the function will raise an error.

Value

A named list where each element is itself a named list representing sections and key-value pairs of the configuration data.

Examples

```
config <- list(
    section1 = list(
      key1 = "value1"
    ),
    section2 = list(
      keyA = "valueA",
      keyB = "valueB"
    )
)
 ini_file <- tempfile()
 write_ini(config, ini_file)
 read_ini(ini_file)

 unlink(ini_file)
```

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write_ini   *Write Configuration Data to an INI File*

Description

This function converts an R list structure into an INI file format and writes it to a specified file.

Usage

```
write_ini(config_list, filename)
```

Arguments

config_list   A named list where each element is itself a named list representing sections and
                key-value pairs of the configuration data.

filename   A string specifying the path to the output INI file.

Details

The config_list parameter should be a named list where each top-level name represents a section
in the INI file. Each section should be a named list where the names are the keys and the values
are the corresponding values in the INI file. Numeric values are converted to strings before being
written to the file.

If the config_list is empty, an empty INI file will be created.

Value

This function does not return a value. It writes the INI file to the specified path.

Examples

```
config <- list(
  section1 = list(
    key1 = "value1",
    key2 = 123
  ),
  section2 = list(
    keyA = "valueA",
    keyB = "valueB"
  )
)
ini_file <- tempfile()
write_ini(config, ini_file)
unlink(ini_file)
```

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