

Package ‘RcppFastFloat’

September 30, 2026

Type Package

Title 'Rcpp' Bindings for the 'fast_float' Header-Only Library for
Number Parsing

Version 0.0.6

Date 2026-09-29

Description Converting ascii text into (floating-point) numeric values is a very common problem. The 'fast_float' header-only 'C++' library by Daniel Lemire does it very well and very fast at up to or over to 1 gigabyte per second as described in more detail in <[doi:10.1002/spe.2984](https://doi.org/10.1002/spe.2984)>. 'fast_float' is licensed under the Apache 2.0 license and provided here for use by other R packages via a simple 'LinkingTo:' statement.

License GPL (>= 2)

Depends R (>= 3.5.0)

Imports Rcpp

LinkingTo Rcpp

Suggests tinytest

URL <https://github.com/eddelbuettel/rcppfastfloat/>,
<https://dirk.eddelbuettel.com/code/rcpp.fastfloat.html>

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

RoxygenNote 6.0.1

Encoding UTF-8

NeedsCompilation yes

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Date/Publication 2026-09-30 19:40:08 UTC

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as.double2	<i>Ultra efficient string-to-double Conversion</i>
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Description

For character vectors, as.double2() is a drop-in replacement for base::as.double().

Usage

as.double2(x)

Arguments

x A vector of type character.

Value

A vector of type double

See Also

as.double()

Examples

```
set.seed(8675309)
input <- sample(c(
  paste0(" \r\n\t\f\v", c(0.0, sqrt(seq(1, 10)))), " \r\n\t\f\v"),
  c("NaN", "-NaN", "nan", "-nan",
    "Inf", "-Inf", "inf", "-inf", "infinity", "-infinity",
    NA_character_,
    " 1970-01-01", "1970-01-02  ")
))
input

suppressWarnings(as.double2(input)) # NAs introduced by coercion

comparison <- suppressWarnings(
  matrix(c(as.double(input), as.double2(input)),
    ncol = 2L,
    dimnames = list(NULL, c("as.double()", "as.double2()")))
)
comparison
```

```
all.equal(comparison[, "as.double()"], comparison[, "as.double2()"])
```

parseExample

Floating Point Parsing Example

Description

This example is adapted from the example of the upstream README.md file, and generalized to be called from R with variable input.

Usage

```
parseExample(input = "3.1416 xyz ", verbose = TRUE)
```

Arguments

input	A character variable with text to parse including a simple default
verbose	A boolean variable to show or suppress progress, defaults to true

Value

A floating point scalar is returned on success; in case of parsing failure the function exists via `stop()`.

Examples

```
parseExample()
```

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