Package 'Travel'

October 14, 2021

Title An utility to create an ALTREP object with a virtual pointer

Version 1.0.0

Description Creates a virtual pointer for R's ALTREP object which does not
have the data allocates in memory. The pointer is made by the file
mapping of a virtual file so it behaves exactly the same as a regular
pointer. All the requests to access the pointer will be sent to the
underlying file system and eventually handled by a customized
data-reading function.
The main purpose of the package is to reduce the memory consumption when
using R's vector to represent a large data. The use cases of the package
include on-disk data representation, compressed vector(e.g. RLE) and etc.

License GPL-3

biocViews Infrastructure

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.1.1

SystemRequirements C++11 Windows: Dokan Linux&Mac: fuse, pkg-config

LinkingTo Rcpp

Imports Rcpp

Suggests testthat, BiocStyle, knitr, rmarkdown, inline, parallel

VignetteBuilder knitr

URL https://github.com/Jiefei-Wang/Travel

BugReports https://github.com/Jiefei-Wang/Travel/issues

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R **topics documented:**

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wrap_altrep	*Create a new ALTREP object from an R ALTREP*

Description

Create a new ALTREP object from an R ALTREP, the new ALTREP object owns a data pointer.
However, it is a dummy pointer in the sense that the data is not in the memory. The pointer can
be operated as a normal pointer but the request of accessing the data will be send to the wrapped
ALTREP object.

Usage

```
wrap_altrep(x)
```

Arguments

x   an ALTREP object

Value

A new ALTREP object

Examples

```
x <- 1:10
y <- wrap_altrep(x)
```

Index