

Package ‘Travel’

October 18, 2022

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

Version 1.4.0

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>

git_url <https://git.bioconductor.org/packages/Travel>

git_branch RELEASE_3_15

git_last_commit afe6340

git_last_commit_date 2022-04-26

Date/Publication 2022-10-18

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wrap_altrep	<i>Create a new ALTREP object from an R ALTREP</i>
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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)
```

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