Package: naarma (via r-universe)

October 17, 2026

Type Package

Title Connect nanoarrow with (Rcpp)Armadillo

Version 0.0.1

Date 2024-12-17

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Description The nanoarrow package offers C-level functionality to work with Arrow object, along with a small amount of C++ integration. This package uses it to interact with Armadillo objects. Some auxiliary testing facility from the nanoarrow package is included here as well.

License GPL (>= 2)

Imports Rcpp (>= 1.0.11), nanoarrow

LinkingTo Rcpp, RcppArmadillo, nanoarrow

Suggests tinytest, arrow

RoxygenNote 6.0.1

Config/pak/sysreqs libzstd-dev

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

Date/Publication 2026-08-18 10:43:48 UTC

RemoteUrl https://github.com/eddelbuettel/naarma

RemoteRef HEAD

RemoteSha 8aabbd11a9c12553d68a1888431197244b6270df

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`armaMatrixExample` *Given a (nano)arrow object via two pointers, and a column size, return an arma matrix*

Description

Given a (nano)arrow object via two pointers, and a column size, return an arma matrix

Usage

```
armaMatrixExample(vec, ncol, verbose = FALSE)
```

Arguments

`vec`	A nanoarrow object
`ncol`	Number of columns in returned matrix
`verbose`	A logical value, default is false

Limitations

As this aims at **armadillo** operations, this functionality is limited to numeric vector columns. The framework used here could of course be extended to other Arrow formats.

Examples

```
sv <- nanoarrow::as_nanoarrow_array(c(4:8), nanoarrow::na_int16())  # internally int16
armaMatrixExample(sv, 2)
```

`armaVectorExample` *Given a (nano)arrow array external pointer object via two pointers (with the second tucked away as the tag), return an arma vector*

Description

Given a (nano)arrow array external pointer object via two pointers (with the second tucked away as the tag), return an arma vector

Usage

```
armaVectorExample(vec, verbose = FALSE)
```

Arguments

`vec`	A nanoarrow array object as an external pointer
`verbose`	A logical value, default is false

Limitations

As this aims at **armadillo** interoperation, this functionality is limited to numeric vector columns. The framework used here could of course be extended to other Arrow formats.

Examples

```
sv <- nanoarrow::as_nanoarrow_array(c(4:7), nanoarrow::na_int16())  # internally int16
armaVectorExample(sv)
```

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collectMatrixFromStream

Given a (nano)arrow stream object pointer, return an arma matrix

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Description

Given a (nano)arrow stream object pointer, return an arma matrix

Usage

```
collectMatrixFromStream(obj, verbose = FALSE)
```

Arguments

obj	A nanoarrow array stream object via an external pointer
verbose	A logical value, default is false

Limitations

As this aims at **armadillo** operation, the returned matrix is always double while supported many possible column types.

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