Package: RApiSerialize (via r-universe)

July 19, 2024

Type Package	
Title R API Serialization	
Version 0.1.3	
Date 2024-05-13	
Author Dirk Eddelbuettel, Ei-ji Nakama, Junji Nakano, and R Core (original code)	
Maintainer Dirk Eddelbuettel <edd@debian.org></edd@debian.org>	
Description Access to the internal R serialization code is provided for use by other packages at the C function level by using the registration of native function mechanism. Client packages simply include a single header file RApiSerializeAPI.h provided by this package. This packages builds on the Rhpc package by Ei-ji Nakama and Junji Nakano which also includes a (partial) copy of the file src/main/serialize.c from R itself. The R Core group is the original author of the serialization code made available by this package.	
<pre>URL https://github.com/eddelbuettel/rapiserialize,</pre>	
https://dirk.eddelbuettel.com/code/rapiserialize.html	
<pre>BugReports https://github.com/eddelbuettel/rapiserialize/issues License GPL (>= 2)</pre>	
Repository https://eddelbuettel.r-universe.dev	
RemoteUrl https://github.com/eddelbuettel/rapiserialize	
RemoteRef HEAD	
RemoteSha 6e244ede3ee8c44225a5b3faa7c113a6d1121297	
Contents	
RApiSerialize-package	2
Index	3

RApiSerialize-package RAPI for Serialization

Description

This package provides other packages with access to the internal R serialization code. Access is provided at the C function level via the registered function facility

For convenience and testing purposes, two wrapper functions are also provided at the R level.

Usage

```
serializeToRaw(obj, version=2, xdr=TRUE)
unserializeFromRaw(obj)
```

Arguments

obj An R object which is going to (un)serialized by the corresponding function.

version An integer selection the R serialization format. Default is 2, and values 2 or 3

are currently supported.

xdr A logical value selection (portable) XDR encoding which is the default. Use

FALSE for speed-up suitable for common little-endian system at a loss of porta-

bility.

Details

The C code in this package is taken from R source code, where it provided for use by R only in a way that renders it inaccessible to other packages.

This package aims to fill this gap by providing access to the same functionality, at the cost of making a copy.

To use the serialization and deserialization code provided here, a client package simply adds LinkingTo: RApiSerialize in its DESCRIPTION file and includes the header file RApiSerializeAPI.h.

Author(s)

Dirk Eddelbuettel put together this package, based on earlier work by Ei-ji Nakama and Junji Nakano who also included the C code from R for serialization in their **Rhpc** package. R Core wrote the underlying C code for use in R itself.

The package is maintained by Dirk Eddelbuettel.

See Also

The R source code in src/main/serialize.c.

Examples

```
## calling the R wrapper
serializeToRaw(letters)
```

Index