RcppClassic: Deprecated Rcpp API

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This vignette describes how to use the RcppClassic package. It has long been deprecated and superceded by the more powerful Rcpp package. All new R packages should use the Rcpp package instead.

```
R | packages | Rcpp | API | Deprecation
```

This document presents the RcppClassic package. This package has been factored out of Rcpp (Eddelbuettel et al., 2017; Eddelbuettel, 2013; Eddelbuettel et al., 2017; Eddelbuettel and Balamuta, 2017) and only contains code that is considered deprecated.

This package is released for the sole purpose of allowing package authors that are still using the classic Rcpp API to keep their package buildable. This document explains the changes needed in a package to use both the current and classic Rcpp APIs.

If you must use RcppClassic

A few changes are needed in packages that want to use the classic Rcpp API that is contained in RcppClassic. A sample package called RcppClassicExample is on CRAN and can be used as a template.

The DESCRIPTION file. The client package must declare that it depends on both Rcpp and RcppClassic in the Imports field and the LinkingTo field, so it must contain this:

```
Imports: RcppClassic, Rcpp
LinkingTo: RcppClassic, Rcpp
```

The NAMESPACE file. The client package should import both Rcpp and RcppClassic:

```
importFrom(Rcpp, evalCpp)
import(RcppClassic)
```

The Makevars file. The Makevars file must be updated so that user libraries for both **Rcpp** and **RcppClassic** are used. For **Rcpp** 0.11.0 we used

References

Eddelbuettel D (2013). Seamless R and C++ Integration with Rcpp. Use R! Springer, New York. ISBN 978-1-4614-6867-7.

Eddelbuettel D, Balamuta JJ (2017). "Extending R with C++: A Brief Introduction

```
## This can be placed on one or two lines too
PKG LIBS = \
  '$(R_HOME)/bin/Rscript -e \
     "Rcpp:::LdFlags()"' \
  '$(R_HOME)/bin/Rscript -e \
     "RcppClassic:::LdFlags()"
```

but starting with Rcpp version 0.11.0, the result of Rcpp:::LdFlags() is an empty string as Rcpp no longer provides a user-library. The above then reduces to

```
## This can be placed on one lines
PKG_LIBS = '$(R_HOME)/bin/Rscript -e \
   "RcppClassic:::LdFlags()"'
```

which finds the required RcppClassic library.

The Makevars.win files. The Makevars.win must also be updated for the same reason, and in similar way. \${R_HOME}/bin\${R_ARCH_BIN}/Rscript.exe \$(R_HOME)/bin/Rscript to reflect both the bi-architecture nature of Windows builds and the differently names Rscript executable.

Include RcppClassic.h instead of Rcpp.h. Finally, all instances of this line:

```
#include <Rcpp.h>
```

need to be replaced by:

```
#include <RcppClassic.h>
```

You should not use RcppClassic

The previous section discusses the set of changes required to update a package so that it uses the classic API from RcppClassic since it has been removed from Rcpp.

We do, however, recommend that package authors stop using the classic API. Iy has been more than superseded by the current **Rcpp** API in terms of performance, design, maintainance, and ease of use.

to Rcpp." PeerJ Preprints, 5. URL 10.7287/peerj.preprints.3188v1/. Eddelbuettel D, François R, Allaire J, Ushey K, Kou Q, Russel N, Chambers J, Bates D (2017). Rcpp: Seamless R and C++ Integration. R package version 0.12.12, URL http://CRAN.R-Project.org/package=Rcpp.