

# Revolution R Community 5.1 - 100% R and more...™

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## Introduction

Revolution R Community is an enhanced version of the Open Source R 2.13.2 environment for data analysis and graphics.

This release includes the following features:

- The foreach and iterators packages, a set of packages for creating looping constructs that can be executed in parallel.
- Enhanced documentation
- Optimized math libraries

## Foreach/Iterators Packages

The foreach and iterators packages work together with the R programming language to enable you to run many looping constructions in parallel. Parallel operation requires a separate *parallel backend*; in addition to those provided with Revolution R Community, several more are available on CRAN. The following packages are provided in Revolution R Community to support the foreach and iterators functionality:

- foreach (provides a loop-like syntax for sequential and parallel computation)
- iterators (provides support for iterators, a generalized looping variable)
- revolIPC (Windows only; provides low-level interprocess communication tools, including support for semaphores, mutexes, and task queues)

- doSMP (Windows only; a parallel backend for `foreach` based on `revoIPC`, which permits parallel computation of `foreach` loops on any modern symmetric multi-processor computer, especially those with multicore processors)
- doMC (Linux only: a parallel backend for `foreach`, based on Simon Urbanek's `multicore` package)
- multicore (Linux only: a package for running parallel computations in R on machines with multiple cores or CPUs.)

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## Enhanced Documentation

Along with the complete R documentation set included with all R distributions, Revolution R Community includes the following documents:

- *Getting Started with Revolution R*. This document is installed as a PDF document, `RevoMan.pdf`, in the `doc` subdirectory of your Revolution R Community installation directory.
- *ForEach/Iterators User's Guide*. This document is installed as a PDF document, `foreachit.pdf` in the `doc` subdirectory of your Revolution R Community installation directory.

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## Windows Information

### Windows Installation Notes

- Before running the installer, close any other programs running on the system and disable any antivirus software you may have running, such as McAfee Total Protection or Norton AntiVirus.
- Revolution R Community installation requires Administrator privileges.

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### Installing R from CRAN with Revolution R Community

If you need to run R from a CRAN distribution alongside Revolution R Community, you can easily do so. However, many external applications and packages that interface with such external applications are configured to work with the "current version" of R. When you install Revolution R, Revolution R registers itself as the current version of R. If you later install a different version of R, that will by default set itself as the current version of R.

To keep Revolution R as your current version of R, clear the check boxes labeled **Save version number in registry** and **Associate R with .RData files** on the **Select Additional Tasks** screen of the R for Windows installer.

If you *want* R from the CRAN installation to be your current R version, and you have installed Revolution R alongside it so that Revolution R is your current version, the easiest thing to do is uninstall the CRAN R and then re-install it with default settings.

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## Supported Windows Platforms

Revolution R Community is supported on the following Windows operating systems:

- Windows XP (32- and 64-bit)
- Windows Vista (32- and 64-bit)
- Windows 7 (32- and 64-bit)

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## Red Hat Information

Revolution R is now available for Red Hat Enterprise Linux 5.x and 6.x. To install, download and unpack the tarball, then run the `install.py` script included in the top-level directory. Complete installation instructions are included in the file `instman.pdf` in the top-level directory.

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## Controlling Threads for Optimized Math Libraries

Two functions allow you to control the number of threads used by the optimized math libraries. The `getMKLthreads` function returns the number of threads the optimized math libraries are currently configured to use (by default, this is the number of processing cores on your computer). The `setMKLthreads` function specifies the number of threads the optimized math libraries may use; use this to limit the number of processing cores on your system available to the optimized math libraries. Type

```
?setMKLthreads
```

for more information.

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## Getting Support

Telephone and e-mail technical support for Revolution R is available by subscription. To order a support subscription, call Revolution Analytics at 855-GET-REVO.

All Revolution R users are invited to participate in the [Revolution R Forum](#). This is the place to get user-to-user support on Revolution products and ask questions of other Revolution R users. Revolution staff members monitor the Forum's content, and may answer questions as time permits.

If you have questions about Revolution R Enterprise, please contact Revolution Technical Support by sending e-mail to:

`support@revolutionanalytics.com`

or fill out this [Web support form](#).

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## **Obtaining Source Code**

Revolution R contains R, which is covered by the GNU Public License (GPL). In accordance with that license, the modified R source code is available for download at the same location as the Revolution R binaries.

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