# Package 'prrd'

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<b>Description</b> Reverse depends for a given package are queued such that multiple workers can run the reverse-dependency tests in parallel.
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prrd-package

Parallel Runs of Reverse Depends

# Description

Reverse depends for a given package are queued such that multiple workers can run the reverse-dependency tests in parallel.

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#### Maintainer

Dirk Eddelbuettel <edd@debian.org>

#### Author(s)

Dirk Eddelbuettel

dequeueJobs

Dequeue and run reverse-dependency checks, possibly in parallel

# **Description**

Dequeue package for (potentially parallel) reverse-dependency check

# Usage

```
dequeueJobs(package, directory, exclude = NULL, date = format(Sys.Date()))
dequeueDepends(package, directory)
```

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# **Arguments**

package A character variable denoting a package

directory A character variable denoting a directory for the queuefile

exclude An optional character variable denoting an exclusion set csv file.

date Optional character variable describing a date (as part of the queue file, default is

current date.

#### **Details**

This function consumes previously enqueued jobs for reverse dependency checks. It is set up in such a way that multiple distinct and independent process can run checks in parallel without effecting each other. If the underlying queue file is on a network drive, this should may also work across multiple machines.

#### Value

A queue is create as a side effect, its elements are returned invisibly

#### Author(s)

Dirk Eddelbuettel

enqueueJobs Enqueues reverse-dependent packages
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#### **Description**

Enqueue package for subsequent reverse-dependency check

#### Usage

```
enqueueJobs(package, directory, dbfile = "", addfailed = FALSE)
enqueueDepends(package, directory)
```

#### **Arguments**

package	A character variable denoting a package
directory	A character variable denoting a directory

dbfile Optional character with path to previous runs db file addfailed Optional logical swith to add previous failures

#### **Details**

This function relies on the available.packages function from R along with the liteq package. The getQueueFile function is used to determine the queue file directory and name.

#### Value

A queue is create as a side effect, its elements are returned invisibly

## Author(s)

Dirk Eddelbuettel

# **Examples**

```
## Not run:
td <- tempdir()
options(repos=c(CRAN="https://cloud.r-project.org"))
jobsdf <- enqueueJobs(package="digest", directory=td)
## End(Not run)</pre>
```

getDatabaseConnection Database Helper Functions

# Description

Several Database Connection Helper Functions

# Usage

```
getDatabaseConnection(file)
createTable(con)
insertRow(con, df)
createRunDataTable(con)
```

# **Arguments**

file A character variable pointing to a sqlite3 file

con A database connection object

df A one-row data.frame with results to be appended

# **Details**

These functions return a connection, create a table and insert a row of data, respectively.

#### Value

A connection object

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#### Author(s)

Dirk Eddelbuettel

runSanityChecks Various Helper Functions

## **Description**

These functions create a data directory name given a package name and additional optional arguments which can be used to store test meta-data and results, return a queue file name, return the configuration object (retrieved from several standard locations) and load the exclusion set.

#### Usage

```
runSanityChecks()
runEnqueueSanityChecks()
getDataDirectory(package, date = format(Sys.Date()), path = ".",
    sep = "_")
getQueueFile(package, date = format(Sys.Date()), path = ".", sep = "_")
getConfig(debug = FALSE)
getExclusionSet(exclusionfile)
```

# Arguments

package	Character variable providing the package name.
date	Optional character variable describing a date, default is current date.

path Optional path, default is current directory.

sep Optional character with component separator, default is "\_".

debug Optional boolean

exclusionfile Character variable with path and file for an optional exclusion set.

## **Details**

Additional helper functions get particular directories, config settings or check some assumptions about files in PATH and alike,

#### Value

For getDataDirectory, a directory name. For getQueueFile, a queue database file name (used only internally). For getConfig, a named vector with config entries. For getExclusionSet a character vector of package names. Nothing is returned by runSanityChecks which is invoked for its side effect of validation (currently only if run-xvfb-safe is in the PATH).

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### **Config File**

An optional config file can be used to set several configuration variables. Currently supported are

**setup** The path to an R file that will be source'ed.

**workdir** The directory used for the parallel run of reverse depends. May be an absolute or relative path.

**libdir** The directory passed to .libPaths allow for additional build-dependencies. May be an absolute or relative path.

debug A boolean switch to enable more debugging output.

**verbose** A boolean switch to enable more verbose output.

The setup field is particularly useful as the file being sourced can contain other R expressions setting environment variables or options. It is (currently) searched in the four locations ".prrd.yaml", "~/.R/prrd.yaml", "~/.prrd.yaml", and "/etc/R/prrd.yaml". The first file found ends the search and is used, content is not merged from several files.

#### Author(s)

Dirk Eddelbuettel

# **Description**

Summarise results from (potentially parallel) reverse-dependency check

#### Usage

```
summariseQueue(package, directory, dbfile = "", extended = FALSE,
  foghorn = FALSE)
```

# **Arguments**

package	A character variable denoting a package
directory	A character variable denoting a directory
dbfile	A character variable for an optional override which, if present, is used over 'package' and 'directory'.
extended	A boolean variable to select extended analysis of failures, default is FALSE which skips this.
foghorn	A boolean variable to invoke the <b>foghorn</b> to retrieve and review CRAN result status, default is FALSE which skips this.

# Value

NULL, invisibly

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# Author(s)

Dirk Eddelbuettel

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