

# Package ‘bigreadr’

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**Version** 0.2.5

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**Title** Read Large Text Files

**Description** Read large text files by splitting them in smaller files.

Package 'bigreadr' also provides some convenient wrappers around fread() and fwrite() from package 'data.table'.

**License** GPL-3

**Encoding** UTF-8

**ByteCompile** true

**RoxygenNote** 6.1.0

**Imports** bigassertr (>= 0.1.1), data.table, parallelly, Rcpp, utils

**Suggests** spelling, testthat, covr, RSQLite

**LinkingTo** Rcpp

**Language** en-US

**URL** <https://github.com/privefl/bigreadr>

**BugReports** <https://github.com/privefl/bigreadr/issues>

**NeedsCompilation** yes

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## Contents

big_fread1 . . . . .	2
big_fread2 . . . . .	3
cbind_df . . . . .	3
fread2 . . . . .	4
fwrite2 . . . . .	5

nlines . . . . .	5
rbind_df . . . . .	6
split_file . . . . .	6
<b>Index</b>	<b>8</b>

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big_fread1	<i>Read large text file</i>
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## Description

Read large text file by splitting lines.

## Usage

```
big_fread1(file, every_nlines, .transform = identity,
            .combine = rbind_df, skip = 0, ..., print_timings = TRUE)
```

## Arguments

file	Path to file that you want to read.
every_nlines	Maximum number of lines in new file parts.
.transform	Function to transform each data frame corresponding to each part of the file. Default doesn't change anything.
.combine	Function to combine results (list of data frames).
skip	Number of lines to skip at the beginning of file.
...	Other arguments to be passed to <a href="#">data.table::fread</a> , excepted input, file, skip, col.names and showProgress.
print_timings	Whether to print timings? Default is TRUE.

## Value

A data.frame by default; a data.table when data.table = TRUE.

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big_fread2	<i>Read large text file</i>
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**Description**

Read large text file by splitting columns.

**Usage**

```
big_fread2(file, nb_parts = NULL, .transform = identity,
           .combine = cbind_df, skip = 0, select = NULL, progress = FALSE,
           part_size = 500 * 1024^2, ...)
```

**Arguments**

file	Path to file that you want to read.
nb_parts	Number of parts in which to split reading (and transforming). Parts are referring to blocks of selected columns. Default uses <code>part_size</code> to set a good value.
.transform	Function to transform each data frame corresponding to each block of selected columns. Default doesn't change anything.
.combine	Function to combine results (list of data frames).
skip	Number of lines to skip at the beginning of file.
select	Indices of columns to keep (sorted). Default keeps them all.
progress	Show progress? Default is FALSE.
part_size	Size of the parts if <code>nb_parts</code> is not supplied. Default is $500 * 1024^2$ (500 MB).
...	Other arguments to be passed to <a href="#">data.table::fread</a> , excepted input, file, skip, select and showProgress.

**Value**

The outputs of `fread2` + `.transform`, combined with `.combine`.

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cbind_df	<i>Merge data frames</i>
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**Description**

Merge data frames

**Usage**

```
cbind_df(list_df)
```

**Arguments**

`list_df` A list of multiple data frames with the same observations in the same order.

**Value**

One merged data frame.

**Examples**

```
str(iris)
str(cbind_df(list(iris, iris)))
```

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fread2	<i>Read text file(s)</i>
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**Description**

Read text file(s)

**Usage**

```
fread2(input, ..., data.table = FALSE,
       nThread = getOption("bigreadr.nThread"))
```

**Arguments**

`input` Path to the file(s) that you want to read from. This can also be a command, some text or an URL. If a vector of inputs is provided, resulting data frames are appended.

`...` Other arguments to be passed to [data.table::fread](#).

`data.table` Whether to return a `data.table` or just a `data.frame`? Default is `FALSE` (and is the opposite of [data.table::fread](#)).

`nThread` Number of threads to use. Default uses all threads minus one.

**Value**

A `data.frame` by default; a `data.table` when `data.table = TRUE`.

**Examples**

```
tmp <- fwrite2(iris)
iris2 <- fread2(tmp)
all.equal(iris2, iris) ## fread doesn't use factors
```

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fwrite2	<i>Write a data frame to a text file</i>
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**Description**

Write a data frame to a text file

**Usage**

```
fwrite2(x, file = tempfile(), ..., quote = FALSE,  
        nThread = getOption("bigreadr.nThread"))
```

**Arguments**

x	Data frame to write.
file	Path to the file that you want to write to. Defaults uses <code>tempfile()</code> .
...	Other arguments to be passed to <a href="#">data.table::fwrite</a> .
quote	Whether to quote strings (default is FALSE).
nThread	Number of threads to use. Default uses all threads minus one.

**Value**

Input parameter `file`, invisibly.

**Examples**

```
tmp <- fwrite2(iris)  
iris2 <- fread2(tmp)  
all.equal(iris2, iris) ## fread doesn't use factors
```

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nlines	<i>Number of lines</i>
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**Description**

Get the number of lines of a file.

**Usage**

```
nlines(file)
```

**Arguments**

file	Path of the file.
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**Value**

The number of lines as one integer.

**Examples**

```
tmp <- fwrite2(iris)
nlines(tmp)
```

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 rbind\_df

*Merge data frames*


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**Description**

Merge data frames

**Usage**

```
rbind_df(list_df)
```

**Arguments**

`list_df` A list of multiple data frames with the same variables in the same order.

**Value**

One merged data frame with the names of the first input data frame.

**Examples**

```
str(iris)
str(rbind_df(list(iris, iris)))
```

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 split\_file

*Split file every nlines*


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**Description**

Split file every nlines

Get files from splitting.

**Usage**

```
split_file(file, every_nlines, prefix_out = tempfile(),
           repeat_header = FALSE)
```

```
get_split_files(split_file_out)
```

**Arguments**

<code>file</code>	Path to file that you want to split.
<code>every_nlines</code>	Maximum number of lines in new file parts.
<code>prefix_out</code>	Prefix for created files. Default uses <code>tempfile()</code> .
<code>repeat_header</code>	Whether to repeat the header row in each file. Default is <code>FALSE</code> .
<code>split_file_out</code>	Output of <a href="#">split_file</a> .

**Value**

A list with

- `name_in`: input parameter `file`,
- `prefix_out`: input parameter `'prefix_out'`,
- `nfiles`: Number of files (parts) created,
- `nlines_part`: input parameter `every_nlines`,
- `nlines_all`: total number of lines of file.

Vector of file paths created by [split\\_file](#).

**Examples**

```
tmp <- fwrite2(iris)
infos <- split_file(tmp, 100)
str(infos)
get_split_files(infos)
```

# Index

`big_fread1`, [2](#)

`big_fread2`, [3](#)

`cbind_df`, [3](#)

`data.table::fread`, [2–4](#)

`data.table::fwrite`, [5](#)

`fread2`, [4](#)

`fwrite2`, [5](#)

`get_split_files (split_file)`, [6](#)

`nlines`, [5](#)

`rbind_df`, [6](#)

`split_file`, [6, 7](#)