

Package ‘SyncRNG’

January 20, 2025

Version 1.3.3

Date 2024-02-11

Title A Synchronized Tausworthe RNG for R and Python

Author Gertjan van den Burg <gertjanvandenburg@gmail.com>

Maintainer Gertjan van den Burg <gertjanvandenburg@gmail.com>

Depends R (>= 3.0.0)

Description Generate the same random numbers in R and Python.

License GPL-2

Imports methods

Suggests testthat

Encoding UTF-8

RoxygenNote 7.3.1

NeedsCompilation yes

Repository CRAN

Date/Publication 2024-02-11 12:40:02 UTC

Contents

SyncRNG-class	1
Index	3

SyncRNG-class	<i>A Reference Class for SyncRNG</i>
---------------	--------------------------------------

Description

See [syncrng-package](#) for package documentation.

Fields

`seed` The seed for the random number generator
`state` The current state of the RNG, should not be modified by the user

Methods

`initialize(..., seed = 0)` Initialize the RNG using the C function `R_syncrng_seed`
`rand()` Generate a single random float in the range `[0, 1)`
`randbelow(n)` Generate a random integer below a given number
`randi()` Generate a single random 32-bit integer
`shuffle(x)` Randomly shuffle a provided array of values

Examples

```
s <- SyncRNG(seed=123456)
for (i in 1:10)
  cat(s$randi(), '\n')
```

Index

SyncRNG (SyncRNG-class), [1](#)
SyncRNG-class, [1](#)
syncrng-package, [1](#)