Package ‘spam64’

March 8, 2019

Type Package

Title 64-Bit Extension of the SPArse Matrix R Package ‘spam’

Version 2.2-2

Date 2019-03-07

Description Provides the Fortran code of the R package ‘spam’ with 64-bit integers. Loading this package together with the R package spam enables the sparse matrix class spam to handle huge sparse matrices with more than $2^{31}$-1 non-zero elements.

Suggests spam (== 2.2-2)

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URL https://git.math.uzh.ch/reinhard.furrer/spam

NeedsCompilation yes

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Date/Publication 2019-03-08 16:10:03 UTC
Description

Provides the Fortran code of the R package spam with 64-bit integers. Loading this package together with the R package spam enables the sparse matrix class spam to handle huge sparse matrices with more than $2^{31}-1$ non-zero elements.

Note

It is intended to use spam64 together with spam. To avoid issues on 32-bit platforms we did not link the packages spam and spam64 using dependencies. Some spam64 functions have been successfully tested with 64-bit matrices. However, we expect that some functions of spam do not work with 64-bit matrices (yet). Please do not hesitate to contact us via email or https://git.math.uzh.ch/reinhard.furrer/spam in case you would like to use a spam function with 64-bit matrices that is not working properly in the current version.

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References


Examples

```r
## Not run:
library("spam")
library("spam64")
s1 <- spam(1, ncol=2^30) # 32-bit matrix
s1
```
s2 <- cbind(s1, s1)  # 64-bit matrix
s2

s3 <- spam(1, ncol=2^31)  # 64-bit matrix
s3

## End(Not run)
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