

Package ‘pexm’

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Type Package

Title Loading a JAGS Module for the Piecewise Exponential Distribution

Version 1.1.2

Description Load the Just Another Gibbs Sampling (JAGS) module ‘pexm’. The module provides the tools to work with the Piecewise Exponential (PE) distribution in a Bayesian model with the corresponding Markov Chain Monte Carlo algorithm (Gibbs Sampling) implemented via JAGS. Details about the module implementation can be found in Mayrink et al. (2021) <[doi:10.18637/jss.v100.i08](https://doi.org/10.18637/jss.v100.i08)>.

Depends coda, rjags

Imports msm

Encoding UTF-8

License GPL-3

URL <https://github.com/vdinizm/pexm>

BugReports <https://github.com/vdinizm/pexm/issues>

NeedsCompilation yes

RoxygenNote 7.1.2

Suggests testthat

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R topics documented:

loadpexm	2
pexm	3
Index	4

loadpexm	<i>loadpexm</i>
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Description

Function to load the Just Another Gibbs Sampling (JAGS) module **pexm** into the R environment.

Usage

```
loadpexm(f.path = NULL)
```

Arguments

<code>f.path</code>	This is an optional argument. If having difficulties to find the main file "pexm.so" (unix) or "pexm.dll" (windows), the user may choose to manually include here the corresponding quoted path to the target directory.
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Details

The main purpose of the present function is to load the target JAGS module **pexm** into the R environment. The **pexm** module allows the application of the Piecewise Exponential (PE) distribution in any Bayesian model implemented through JAGS. In order to apply this loading routine, it is necessary to have **JAGS** installed in the computer. The supporting package **rjags** is also required and it should have been automatically installed together with **pexm**. Important remark for Windows users: the JAGS version 4.3.0 is the one considered in the present implementation of **pexm**. If working with another version, one must download the source code of **pexm** and then modify the file "Makevars.win" (directory `src`). In this case, simply adapt the path in `JAGS_ROOT` with the correct version number. In order to build the present package, the source code of **runjags** (Denwood; 2016) was used as an example. Details about **pexm** and the piecewise exponential model can be found in Mayrink *et al.* (2021).

Value

Indication of whether the JAGS module **pexm** was correctly loaded in the R environment.

References

DOI:10.18637/jss.v071.i09 (Denwood; 2016)

DOI:10.18637/jss.v100.i08 (Mayrink *et al.*; 2021)

See Also

[pexm](#)

Examples

```
# Load the new module with the command below:  
loadpexm()
```

pexm	<i>pexm: Loading a Just Another Gibbs Sampling Module for the Piecewise Exponential Distribution</i>
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Description

Load the Just Another Gibbs Sampling (JAGS) module "pexm". The module provides the tools to work with the Piecewise Exponential (PE) distribution in a Bayesian model with the corresponding Markov Chain Monte Carlo algorithm (Gibbs Sampling) implemented via JAGS.

Details

The current version contains the main function `loadpexm` to load the proposed JAGS module. Details about JAGS can be found in the [JAGS User Manual](#). Download instructions are presented in the home page given by this [link](#). Details about **pexm** and the piecewise exponential model can be found in *Mayrink et al. (2021)*.

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References

DOI:10.18637/jss.v100.i08 ([Mayrink et al.; 2021](#))

See Also

[loadpexm](#)

Index

loadpexm, [2](#), [3](#)

pexm, [2](#), [3](#)