Package 'circumstance'

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circu	umstance-package circumstance package	
Description circumstance provides tools for parallelizing certain pomp calculations.		

Continue an iterative calculation

Description

continue

Continue an iterative computation where it left off.

Usage

```
continue(object, ...)
## S4 method for signature 'mif2List'
continue(object, ...)
```

2 mif2

Arguments

object the result of an iterative **pomp** computation

... additional arguments will be passed to the underlying method. This allows one

to modify parameters used in the original computations.

See Also

mif2

mif2

Parallel iterated filtering

Description

Runs multiple instances of mif2 using foreach.

Usage

```
## S4 method for signature 'ANY,data.frame'
mif2(data, starts, ...)

## S4 method for signature 'ANY,missing'
mif2(data, starts, ...)

## S4 method for signature 'pompList,missing'
mif2(data, starts, ...)

## S4 method for signature 'pfilterList,missing'
mif2(data, starts, ...)

## S4 method for signature 'mif2List,missing'
mif2(data, starts, ...)
```

Arguments

```
data passed to pomp::mif2

starts data frame containing parameters at which to begin iterated filtering

all additional arguments are passed to pomp::mif2
```

See Also

```
pomp::mif2.
```

pfilter 3

pfilter

Parallel particle filter computations

Description

Runs multiple instances of pfilter using foreach.

Usage

```
## S4 method for signature 'ANY,numeric'
pfilter(data, Nrep, ...)
## S4 method for signature 'ANY,missing'
pfilter(data, Nrep, ...)
## S4 method for signature 'pompList,numeric'
pfilter(data, Nrep, ...)
## S4 method for signature 'pompList,missing'
pfilter(data, Nrep, ...)
```

Arguments

```
data     passed to pomp::pfilter
Nrep     number of replicate particle filter computations to run. By default, Nrep = 1.
...     all additional arguments are passed to pomp::pfilter
```

See Also

```
pomp::pfilter.
```

Examples

```
library(circumstance)
library(doFuture)
library(doRNG)
registerDoFuture()
registerDoRNG()

ou2() -> ou2

plan(sequential)
system.time(ou2 |> pfilter(Np=10000,Nrep=6) -> pfs)

plan(multicore)
system.time(ou2 |> pfilter(Np=10000,Nrep=6) -> pfs)
```

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