# Package 'awsMethods'

July 2, 2014

**Version** 1.0-3

**Date** 2014-03-05

**Title** Class and Methods definitions for packages aws, adimpro, fmri,dwi

**Depends** R (>= 2.14.0), methods

**Description**
The package defines method extract and provides openMP support needed in several packages

**License** GPL (>= 2)



**URL** http://www.wias-berlin.de/projects/matheon_a3/

**Author** Joerg Polzehl [aut, cre],Felix Anker [ctb]

**Maintainer** Joerg Polzehl <joerg.polzehl@wias-berlin.de>

**NeedsCompilation** yes

**Repository** CRAN

**Date/Publication** 2014-03-05 18:21:42

## R topics documented:

---

`extract-methods` *Generic function* `extract`

---

## Description

Provides generic function `extract` currently used in packages `aws` and `dti`.

## Methods

Method `extract` is used to extract information from objects defined in packages `aws` and `dti`. Here only the generic function is defined. The method usually takes an argument `what='vector of characters'` defining which information is needed and returns a list with component names corresponding to the entries in `what`.

---

`signature(x = "ANY")`

`risk-methods` *Generic function* `risk`

---

## Description

Provides generic function `risk` currently used in package `aws`.

## Methods

Defines a method used in package `aws` to evaluate the quality of smoothing results. See help in package `aws` for details.

---

`signature(y = "ANY")`

`setCores` *Set the number of cores to use for openMP.*

---

## Description

The function sets the number of cores used in openMP parallelization in part of the Fortran code.

## Usage

```
setCores(n, reprt = TRUE)
```

## Arguments

| | |
|---|---|
| `n` | number of cores to use. If `n` is missing the actual number of cores in use is returned. |
| `reprt` | Logical, is `reprt==TRUE` the number of cores in use is reported. |

## Details

The number of cores is restricted to integers between 1 (default) and the number of available cores.

## Value

The function returns the number of cores in use.

## Note

This function is a slightly modified version of function setCores in package spMC version 0.2.2 written by Luca Sartore <drwolf85@gmail.com>

## Author(s)

Felix Anker (anker@wias-berlin.de)

## Examples

```
## Report number of cores available and in use
  setCores()
## Set number of cores used in openMP to minimum of
## 12 and number of available cores
  setCores(12)
```

# Index