Package ‘awsMethods’

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Title Class and Methods Definitions for Packages 'aws', 'adimpro', 'fmri', 'dwi'

Depends R (>= 3.2.0), methods

Description Defines the method extract and provides 'openMP' support as needed in several packages.

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URL http://www.wias-berlin.de/software/imaging/

NeedsCompilation yes

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### 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.

<table>
<thead>
<tr>
<th>signature(x = &quot;ANY&quot;)</th>
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</table>

### 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.

<table>
<thead>
<tr>
<th>signature(y = &quot;ANY&quot;)</th>
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### 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**

```r
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.
setCores

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>

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Examples

```r
## 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)
```
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