

MemUse

May 29, 2013

memuse-package

Core memuse Classes and Methods

Description

The package gives the user the size (memory usage) of an in-core, dense matrix. The output is an S4 class object that can be manipulated to be presented in different ways (different units, short/long versions of those units, etc.). For more information, see the package vignette and the manual.

Details

Package: memuse
Type: Package
License: GPL
LazyLoad: yes

Author(s)

wrathematics

References

<http://wrathematics.github.io>

memuse-class

Class memuse

Description

Memory usage class object.

Creating Objects

```
new('memuse', size = ..., unit = ..., unit.prefix = ..., unit.names = ...)
```

Slots

size: Object of class `numeric`
unit: Object of class `character`
unit.prefix: Object of class `character`
unit.names: Object of class `character`

Prototype

numeric size 0
character unit "B"
character unit.prefix "IEC"
character unit.names "short"

Details

`memuse` is the container for memory usage data for an unallocated, dense, in-core R object. The `size` slot contains the memory usage in some unit of bytes. The `unit` slot contains the unit of bytes that `size` is stored in (e.g., kb, mb, gb, ...). The `unit.prefix` slot contains the unit prefix, either IEC or SI. The `unit.names` slot contains the unit names, either short (e.g., kb) or long (e.g., kilobyte).

See the `MemUse` guide vignette for more details.

See Also

[Control](#)

Description

A set of controls which provides default values for many functions in this package.

Details

.UNIT defaults to "best". The default choice will scale size values to the nearest (by scaling factor — 1024 or 1000 depending on unit prefix). Other acceptable choices are, for example, "kb" or "kib". If the user requests the wrong unit by prefix (e.g., "kb" instead of "kib" when the unit prefix is IEC), then the correct one will be chosen for the user.

.PREFIX defaults to "IEC". Acceptable values are "IEC" and "SI".

.NAMES defaults to "short". Acceptable values are "short" and "long".

All values are case insensitive. The correct case will be determined for the user if the incorrect case is supplied. For an explanation of what these values do, see [memuse-class](#) or the package user guide vignette.

See Also

[memuse-class](#)

Environment

Environment for the memuse Package

Description

The environment for the memuse package.

Index

*Topic **Classes**

memuse-class, [1](#)

*Topic **Data**

Control Variables, [2](#)

*Topic **Package**

memuse-package, [1](#)

.NAMES (Control Variables), [2](#)

.PREFIX (Control Variables), [2](#)

.UNIT (Control Variables), [2](#)

.memuse_envir (Environment), [3](#)

Control, [2](#)

Control (Control Variables), [2](#)

Control Variables, [2](#)

Environment, [3](#)

memuse (memuse-class), [1](#)

memuse-class, [1](#)

memuse-package, [1](#)