Package 'Rmosek'

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Version 1.3.5

Title The R to MOSEK Optimization Interface

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Description This is a meta-package designed to support the installation of Rmosek (>= 6.0) and bring the optimization facilities of MOSEK (>= 6.0) to the R-language. The interface supports large-scale optimization of many kinds: Mixed-integer and continuous linear, second-order cone, exponential cone and power cone optimization, as well as continuous semidefinite optimization. Rmosek and the R-language are open-source projects. MOSEK is a proprietary product, but unrestricted trial and academic licenses are available.

URL http://www.mosek.com/

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License LGPL (>= 2.1)

SystemRequirements MOSEK (>= 6) and MOSEK License (>= 6)

Suggests pkgbuild

NeedsCompilation no

Repository CRAN

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export   *Unknown exported objects to be built*

Description

Unknown exported objects to be built:

- `mosek`
- `mosek_clean`
- `mosek_version`
- `mosek_read`
- `mosek_write`

Please use 'Rmosek::mosek_attachbuilder' to complete the installation of Rmosek.

See Also

[mosek_attachbuilder](#)

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mosek_attachbuilder   *Attach builder functions to the search path (install,update,remove)*

Description

This function [attach](#) a database to the search path with utilities to manage Rmosek in respect to the system requirement (i.e., MOSEK):

install.rmosek	Install Rmosek package.
update.rmosek	Update Rmosek package.
remove.rmosek	Remove Rmosek package.

These utilities are equivalent to, and accept the same arguments as, [install.packages](#), [update.packages](#) and [remove.packages](#), differing only in default argument values and the transmission of Rmosek-specific configuration variables (see details below).

Usage

```
mosek_attachbuilder(what_mosek_bindir,
                    pos=2L, name="Rmosek:builder", warn.conflicts=TRUE)
```

Arguments

what_mosek_bindir

> The path to the MOSEK 'bin' directory to build against. Should look like <MSKHOME>/mosek/<MSKVERSION>/tools/platform/<PLATFORM>/bin, where <MSKHOME> is the folder in which the MOSEK Optimization Suite has been installed. If NA, it uses the MOSEK binary directory of the last build (if any). If "", it attaches a generic builder.

pos
> Integer specifying position in search() where to attach.

name
> Name to use for the attached database. Names starting with package: are reserved for library.

warn.conflicts
> Logical. If TRUE, warnings are printed about conflicts from attaching the database, unless that database contains an object .conflicts.OK. A conflict is a function masking a function, or a non-function masking a non-function.

Details

The attached *.rmosek functions (install, update, remove) wrap the corresponding utils::*.packages functions with autoconfigured default argument values:

```
pkgs    = "Rmosek"
repos   = "https://download.mosek.com/R/<MOSEKMAJORVER>.<MOSEKMINORVER>"
```

configuration variables:

MSK_BINDIR	MOSEK 'bin' directory. If empty, autoconfigured from mosek executable on PATH.
MSK_HEADERDIR	MOSEK 'h' directory. If empty, autoconfigured from 'MSK_BINDIR'.
MSK_LIB	MOSEK library file. If empty, autoconfigured from 'MSK_BINDIR'.

and installation styles:

using_pkgbuild	Logical. Whether to execute in the 'pkgbuild' environment as is recommended on Windows to resolve Rtools.
using_sysenv	Logical. Whether to transmit configuration variables via Sys.setenv() as opposed to configure.vars.

Examples

```
## Not run:
#
```

```
# Build Rmosek for the given MOSEK Optimization Suite.
#
mosek_attachbuilder("<MSKHOME>/mosek/<MSKVERSION>/tools/platform/<PLATFORM>/bin")
install.rmosek()


#
# Update Rmosek for the MOSEK Optimization Suite of the last build (if any).
#
mosek_attachbuilder()     # Note: path is read from packageDescription("Rmosek")
update.rmosek()


#
# Build Rmosek (from offline package file) for the given MOSEK Optimization Suite.
#
mosek_attachbuilder("<MSKHOME>/mosek/<MSKVERSION>/tools/platform/<PLATFORM>/bin")
install.rmosek("<RMOSEKPATH>/Rmosek.tar.gz", repos=NULL)



## End(Not run)
```

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