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.	
<pre>URL http://www.mosek.com/</pre>	
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License LGPL (>= 2.1)	
SystemRequirements MOSEK (>= 6) and MOSEK License (>= 6)	
Suggests pkgbuild	
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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

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 update.rmosek update.rmosek 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

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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 re-

served 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:

#

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```
# 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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