Package: destep (via r-universe)

October 17, 2024

Title A toolkit to convert 'DeST' models to 'EnergyPlus' models

Version 0.0.0.9000

Description A toolkit to convert 'DeST' models to 'EnergyPlus' models.

License MIT + file LICENSE

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.1

SystemRequirements mdbtools (<https://github.com/mdbtools/mdbtools>, required on macOS and Linux); Microsoft Access ODBC Driver on Windows

Imports data.table, DBI, eplusr, odbc, RSQLite

Suggests archive, httr2, testthat (>= 3.0.0)

Config/testthat/edition 3

Repository https://hongyuanjia.r-universe.dev

RemoteUrl https://github.com/hongyuanjia/destep

RemoteRef HEAD

RemoteSha 84c225bfabb13ad40f8d0a70af404c5df525bec2

Contents

---

download_dest_model   *Download a typical building model from the DeST website*

Description

Download a typical building model from the DeST website

Usage

```
download_dest_model(building_type, location, year, dir = ".")
```

Arguments

building_type	[character] Building type to download.
location	[character] Location of the building.
year	[integer] Year of the building model.
dir	[string] Directory to save the file. Default is the current workding directory.

Details

The downloaded 7z file will be unachieved using the {archive} package.

Value

[character] Path to the downloaded file.

Note

Information about all available models can be retrieved by sending a GET request to https://svr.dest.net.cn/api/v1/all

Examples

```
## Not run:
download_typical_dest("Commerical office A", "Chongqin", 2015)

## End(Not run)
```

---

read_dest   *Read tables from a DeST model and convert to SQLite*

Description

Read tables from a DeST model and convert to SQLite

Usage

```
read_dest(accdb, tables = NULL, sqlite = ":memory:", verbose = FALSE)
```

Arguments

accdb	[string] Path to the DeST model file. Usually a Microsoft Access database file with .accdb extension.
tables	[character] Vector of table names to read from the DeST model. If NULL, which is the default, all tables will be read.
sqlite	[string] Path to the SQLite database file. If :memory:, which is the default, a temporary in-memory database will be created.
verbose	[logical] Whether to print information about the conversion process. Default is FALSE.

Value

[DBIConnection] A SQLite database connection with all specified tables..

Note

Tables with the same name will be overwritten in the SQLite database.

---

to_eplus   *Convert a DeST model to EnergyPlus model*

Description

Convert a DeST model to EnergyPlus model

Usage

```
to_eplus(dest, ver = "latest", copy = TRUE)
```

Arguments

dest	A [string or DBIConnection] path to a DeST model file or a DBIConnection object.
ver	[string] A character string specifying the EnergyPlus version. It can be "latest", which is the default, to indicate using the latest EnergyPlus version supported by the {eplusr} package.
copy	[logical] Whether to copy the input DeST database to a temporary SQLite database. Note that if FALSE, the input database will be modified during the conversion. Default is TRUE.

Value

[eplusr::Idf] The converted EnergyPlus model.

Index