

Package: PEcAn.all (via r-universe)

August 15, 2024

Type Package

Title PEcAn functions used for ecological forecasts and reanalysis

Version 1.8.0.9000

Description The Predictive Ecosystem Carbon Analyzer (PEcAn) is a scientific workflow management tool that is designed to simplify the management of model parameterization, execution, and analysis. The goal of PEcAn is to streamline the interaction between data and models, and to improve the efficacy of scientific investigation.

Depends PEcAn.DB, PEcAn.settings, PEcAn.MA, PEcAn.logger, PEcAn.utils, PEcAn.uncertainty, PEcAn.data.atmosphere, PEcAn.data.land, PEcAn.data.remote, PEcAn.assim.batch, PEcAn.emulator, PEcAn.priors, PEcAn.benchmark, PEcAn.remote, PEcAn.workflow

Imports utils

Suggests mockery, PEcAn.ED2, PEcAn.SIPNET, PEcAn.BIOCRO, PEcAn.DALEC, PEcAn.LINKAGES, PEcAn.allometry, PEcAn.photosynthesis, sessioninfo, testthat

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LazyData true

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

Repository <https://pecanproject.r-universe.dev>

RemoteUrl <https://github.com/PecanProject/pecan>

RemoteRef HEAD

RemoteSha bb2cda9dddc97fc39b663de3016d49e0dd682a3a

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pecan_releases	<i>Dates, tags, and versions of all PEcAn releases</i>
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Description

Dates, tags, and versions of all PEcAn releases

Usage

pecan_releases

Format

- Data frame with 3 columns
- tag** name used to mark the release
- date** date released
- version** numeric version assigned to this release

Source

Extracted from Git tags in the [PEcAn development repository](#)

pecan_version	<i>Report installed PEcAn version</i>
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Description

Reports the currently installed or loaded version(s) of each PEcAn package, as well as the versions expected by the specified release(s) of the PEcAn system.

Usage

pecan_version(version = max(PEcAn.all::pecan_releases\$version), exact = FALSE)

Arguments

- version PEcAn release number to use for expected package versions
- exact Show only tags that exactly match version, or all tags that have it as a sub-string?

Details

When `exact = FALSE` (the default), `pecan_version` will show all releases whose names contain version as a substring. This is mostly so that e.g. "1.4.2" finds the release tag "v1.4.2", but since all matches are returned it can also be handy for seeing all patches sharing a minor version number (see examples).

If more than one version of a package is installed, the output from `pecan_version()` will contain multiple rows for that package. This can occur if you have installed different versions to different locations in `.libPaths()`, or if you've loaded a new version into your current session by loading it from its source directory without installing it to the R library. If you see multiple rows unexpectedly, try `find.package(<pkgname>, verbose = TRUE)` to see where each version was found.

Value

data frame with columns for package name, expected version(s), and installed version. If the `sessioninfo` package is installed, a fourth column reports where each package was installed from: local, github, CRAN, etc.

Examples

```
pecan_version()
pecan_version(c("1.4.0", "1.5.0", "1.6.0"))

# multiple matches are possible when exact = FALSE
pecan_version("v1.3", exact = TRUE)
pecan_version("v1.3", exact = FALSE)
```

`pecan_version_history` *Versions of all PEcAn packages in each release of PEcAn*

Description

Versions of all PEcAn packages in each release of PEcAn

Usage

```
pecan_version_history
```

Format

Data frame with at least 33 columns (plus one more every release!)

package Package name, as character

v1.0, ..., v1.7.2, ... Release numbers, each with the Git tag as the column name and numeric package versions as the row contents. NA means package did not exist in this version of PEcAn.

Source

Extracted from Git history of the [PEcAn development repository](#)

See Also

`pecan_version`, which queries this table and also reports the versions currently installed

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* **datasets**

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