

Package ‘BISdata’

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Type Package

Title Download Data from the Bank for International Settlements (BIS)

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Description Functions for downloading data from the Bank for International Settlements (BIS; <<https://www.bis.org/>>) in Basel. Supported are only full datasets in (typically) CSV format. The package is lightweight and without dependencies; suggested packages are used only if data is to be transformed into particular data structures, for instance into 'zoo' objects. Downloaded data can optionally be cached, to avoid repeated downloads of the same files.

Suggests zoo

License GPL-3

URL <https://enricoschumann.net/R/packages/BISdata/> ,
<https://git.sr.ht/~enricoschumann/BISdata> ,
<https://github.com/enricoschumann/BISdata>

LazyLoad yes

ByteCompile yes

NeedsCompilation no

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Description

Download datasets from the Bank for International Settlements (BIS) and convert to data frames.

Usage

```
fetch_dataset(dest.dir, dataset,
             bis.url = "https://data.bis.org/static/bulk/",
             exdir = tempdir(),
             return.class = NULL,
             frequency = NULL,
             ...,
             header = TRUE,
             sep = ",",
             stringsAsFactors = FALSE,
             check.names = FALSE,
             na.strings = "",
             quote = "\"",
             fill = TRUE)
```

```
datasets(url = "https://data.bis.org/bulkdownload", ...)
```

Arguments

<code>dest.dir</code>	file path: where to store the files?
<code>dataset</code>	the name of the file
<code>bis.url</code>	the base URL
<code>url</code>	the URL from which to fetch information about the datasets
<code>exdir</code>	file path: where to unzip?
<code>return.class</code>	NULL or character: currently, only <code>zoo</code> is supported
<code>frequency</code>	string, or nothing (NULL)
<code>...</code>	passed on to read.table
<code>header</code> , <code>sep</code> , <code>stringsAsFactors</code> , <code>check.names</code> , <code>na.strings</code> , <code>quote</code> , <code>fill</code>	passed on to read.table

Details

Supported are full datasets (typically) in CSV format. Downloaded data can optionally be cached, to avoid repeated downloads of the same files.

The default download fetches the data and puts them into a [data.frame](#). If `return.class` is not NULL, `fetch_dataset` selects/transforms data; but this is only supported for few datasets.

If the download fails with an error, then both functions will return NULL. For `fetch_dataset`, if the download failed with a warning from `download.file`, then the function will evaluate to the return value of `download.file`.

Value

typically a `data.frame`.

`bis_datasets` returns a `data.frame` with three columns:

<code>filename</code>	the dataset filename
<code>description</code>	a brief description of the dataset
<code>updated</code>	if available, the date when the dataset was last updated

Author(s)

Enrico Schumann

Examples

```
## (Internet connection required)
datasets()
bis.data <- fetch_dataset(dest.dir = tempdir(),
                          "WS_CBPOL_csv_col.zip")
```

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