Package 'dsepadi'

September 9, 2005

Title Dynamic Systems Estimation - PADI extensions

Description Multivariate Time Series - PADI extensions

Depends R (>= 2.0.0), tframe, dse1 (>= 2005.9-1)

Version 2005.9-1

LazyLoad yes

License Free. See the LICENCE file for details.

Author Paul Gilbert <pgilbert@bank-banque-canada.ca>

Maintainer Paul Gilbert <pgilbert@bank-banque-canada.ca>

URL http://www.bank-banque-canada.ca/pgilbert

R topics documented:

---

availability   *Check Data Availability*

Description

Check the dates for which date is available.

Usage

```
availability(obj, ...)
## Default S3 method:
availability(obj, names=NULL, server="ets", dbname="",
             verbose=TRUE, timeout=60, stop.on.error=TRUE, warn=TRUE, ...)
## S3 method for class 'tfPADIdata':
availability(obj, verbose=TRUE, timeout=60, ...)
```

Arguments

obj	a vector of series identifiers or an object of class `tfPADIdata`. See TS-data.TSPADIdata.
...	arguments passed to other methods.
verbose	TRUE or FALSE indicating if the results should be printed.
timeout	an integer indicating the number of seconds to wait before concluding that the server is not available.
names	A character vector of names to be associated with the ids in printed results.
server	A character vector of servers to be associated with the ids.
dbname	A character vector of databases to be associated with the ids.
stop.on.error	
	logical indicating if the function should stop if any series produces an error, or continue with other series.
warn	logical indicating if warning messages should be supressed.

Details

If verbose is TRUE then the start, end, and frequency are printed for each series in data.id. A list is return (invisibly) with the same information. The default method works for a character vector argument. An argument of class TSPADIdata may supply some additional information, and several of the indicated optional arguments do not apply to that method.

Value

A list with elements start, end, and frequency.

See Also

tfPADIdata, TSPADIdata, setTSPADIdata, retrieve.and.verify.data

Examples

```
if(require("padi") && checkPADIserver("ets")) {
   library()  # debugging to see where padi is found if this fails
   d <- tfPADIdata("D1", server="ets")
   availability(d)}
```

---

freeze.tfPADIdata   *Get fixed data snapshot*

Description

Get a time series matrix structure from a database

Usage

```
## S3 method for class 'tfPADIdata':
freeze(data, timeout=60, ...)
## S3 method for class 'FAMEdata':
freeze(data, ...)
```

Arguments

data	A description of how to get data.
timeout	an integer indicating the number of seconds to wait before concluding that the server is not available.
...	Arguments passed to other methods.

Details

This function extracts data from a database (for example using the TS PADI programs are available at www.bank-banque-canada.ca/pgilbert). This method is generic. Typically the argument data is a tfPADIdata or TSPADIdata object identifying the source of the data. See help for tfPADIdata and TSPADIdata. The default method usually just returns its argument, so freeze has no effect. This way freeze can be used to write functions which will take a snapshot from the database when they execute or will work with an already fixed copy of data if that is what is supplied. The default does allow for a character argument, in which case it is used to construct a tfPADIdata object using server="ets", then freeze that object. This allows for a simple syntax to grab a series from the database. The server="ets" is for convenience at the Bank of Canada and another default server might be more convenient elsewhere.

Value

A time series matrix.

See Also

tfPADIdata freeze.TSPADIdata TSPADIdata

Examples

```
if (require("padi") && checkPADIserver("ets")){
 z1 <- freeze("D1")
 z2 <- freeze(tfPADIdata(c("B1630", "B1642"), server="ets"))
  }
```

---

freeze.TSPADIdata   *Get fixed data snapshot using TSPADI*

Description

Get a TSdata structure from TSPADI Database Interface

Usage

```
## S3 method for class 'TSPADIdata':
freeze(data, timeout=60, ...)
```

Arguments

data	An object of class TSPADIdata.
timeout	an integer indicating the number of seconds to wait before concluding that the server is not available.
...	Arguments passed to other methods.

Details

This function extracts data using the TS PADI interface to a database. See TSPADIdata, tfPADIdata, and freeze for more details.

Value

A TSdata object taken from the database.

See Also

freeze TSdata TSPADIdata

Examples

```
    inflation.sa.names <- TSPADIdata2(
     output = list(
          c("ets","", "b820678",  "ytoypc", "price services"),
          c("ets","", "b800938",  "ytoypc", "total unit labour costs")
            ), stop.on.error=TRUE, warn=TRUE )
    if(require("padi") & require("dse2") && checkPADIserver("ets"))
       z <- freeze(inflation.sa.names)
```

---

getpadi   *Get Data from TSPADI Database Interface*

Description

Get data from a TSPADI database interface.

Usage

```
getpadi(series, server=Sys.info()[["nodename"]], dbname="",
            start.server=TRUE, server.process=PADIserverProcess(),
            cleanup.script=PADIcleanupScript(),
            starty=0,startm=0,startd=1, endy=0,endm=0,endd=1,
            nobs=0,max.obs=2000, transformations=NULL, pad=FALSE,
            user=Sys.info()[["user"]], passwd="",
            stop.on.error=TRUE, use.tframe=FALSE, warn=TRUE, timeout=60)
```

Arguments

series	A character string giving the name of the series. Alternately, series can be a vector of character strings specifying multiple series.
server	A character string giving the network name of the server which is to be requested to supply the series. If series specifies multiple series and they are not all on the same server then server should be a vector of character strings with elements corresponding to the elements of series.
dbname	A character string giving additional information to the server about the location of the series (eg. the name of a database). If series specifies multiple series and they are not all on the same database then dbname should be a vector of character strings with elements corresponding to the elements of series.
starty	An integer indicating the starting year.
startm	An integer indicating the starting period.
startd	An integer indicating the starting day.
endy	An integer indicating the ending year.
endm	An integer indicating the ending period.
endd	An integer indicating the ending day.
nobs	The number of observations.
max.obs	integer indicating the possible returned data size used to define the size of the buffer to prepare.
transformations	
	A character string giving transformations to be applied to the series (e.g. "log"). If multiple series are being requested then transformations can be a single string, in which case it is applied to all series, or a vector of character strings, one for each series. If no transformation is to be applied to some series then "" should be used.
pad	If FALSE (default) then all series are truncated to the interection of available time periods (i.e. the latest start date and earliest end date). If TRUE then series are padded with NA so the result starts at the earliest available observation and ends at the last available observation.

```
start.server  try to start a server if one is not running
server.process
              command to execute in an attempt to start a server
cleanup.script
              command to execute to terminate a server if one is started
```

user	user id for access to the database (if necessary)
passwd	password for access to the database (if necessary)

```
stop.on.error
```
If TRUE then stop is executed when an error occurs. Otherwise, the error message is returned and the calling program must deal with it.

use.tframe	If use.tframe=FALSE then ts() is used to construct the time series, otherwise the tframe utilities are used. Certain transformations available with DSE require the tframe stucture and an error may result if these transformations are attempted with use.tframe=FALSE.
warn	Print warning messages for some crude frequency conversions (weekly data).
timeout	an integer indicating the number of seconds to wait before concluding that the server is not available.

Details

See getpadi.default

Value

A time series matrix with a column for each series.

See Also

putpadi

---

identifiers	*Get Identifiers from a data object*

Description

Get Identifiers from a data object

Usage

```
identifiers(obj)
## Default S3 method:
identifiers(obj)
## S3 method for class 'tfPADIdata':
identifiers(obj)
```

Arguments

obj	An object which contains source series identifier information.

Value

A list with elements input and output which are strings indicating the input and output series identifiers.

See Also

[tfPADIdata](#) [TSPADIdata](#) [sourceInfo](#) [sourcedb](#)

Examples

```
if(require("padi") && checkPADIserver("ets")) {
 d <- tfPADIdata("D1", server="ets")
 identifiers(d)
 }
```

---

inputData.TSPADIdata
TS Input and Output Specific Methods

Description

See the generic function description.

Usage

```
## S3 method for class 'TSPADIdata':
inputData(x, series=seq(length=nseriesInput(x)))
## S3 method for class 'TSPADIdata':
outputData(x,series=seq(length=nseriesOutput(x)))
## S3 method for class 'TSPADIdata':
periodsInput(x)
## S3 method for class 'TSPADIdata':
periodsOutput(x)
```

Arguments

x   a TSPADIdata object.

series   series to select. Passed to selectSeries.

---

modify   *modify a database descriptor object*

Description

Modify a database descriptor object with new information

Usage

```
modify(obj, start=NA, end=NA, frequency=NA,
                    pad=NA, pad.start=pad, pad.end=pad,
                    server=NA, db=NA, start.server=NA,
                    server.process=NA, cleanup.script=NA,
                    stop.on.error=NA, warn=NA,
                    append=NA, use.tframe=NA, ...)
## S3 method for class 'tfPADIdata':
modify(obj,
                    start=NA, end=NA, frequency=NA,
                    pad=NA, pad.start=pad, pad.end=pad,
                    server=NA, db=NA, start.server=NA,
                    server.process=NA, cleanup.script=NA,
                    stop.on.error=NA, warn=NA,
                    append=NA, use.tframe=NA,
                 series=NA, transforms=NA, names=NA, ...)
```

Arguments

obj	database descriptor object to be modified.
append	if specified, append should be a list of (series, server, db, transforms, names) as specified for tfPADIdata. These are appended as additional series to the object.
series	see tfPADIdata descriptions.
server	see tfPADIdata descriptions.
db	see tfPADIdata descriptions.
transforms	see tfPADIdata descriptions.
start	see tfPADIdata descriptions.
end	see tfPADIdata descriptions.
frequency	see tfPADIdata descriptions.
names	see tfPADIdata descriptions.
pad	see tfPADIdata descriptions.
pad.start	see tfPADIdata descriptions.
pad.end	see tfPADIdata descriptions.
use.tframe	see tfPADIdata descriptions.
start.server	see tfPADIdata descriptions.
server.process	see tfPADIdata descriptions.
cleanup.script	see tfPADIdata descriptions.

```
stop.on.error
                see tfPADIdata descriptions.
warn            see tfPADIdata descriptions.
...             arguments to be passed to other methods.
```

Details

Any specified (non NA) optional arguments are used to modify the object. Values replace existing values (except in the case of append).

Value

A object of class "tfPADIdata" which can be used to retrieve a matrix time series object.

See Also

[tfPADIdata](#) [freeze](#) [modify.TSPADIdata](#)

Examples

```
if(require("padi")) {
  z <- tfPADIdata( c("seriesA", "seriesB"), server="myserver")
  z <- modify(z, pad.end=TRUE )
  }
```

---

modify.TSPADIdata   *Modify a TSPADIdata Object*

Description

Modify a TSPADIdata object with new information

Usage

```
## S3 method for class 'TSPADIdata':
modify(obj,
                    start=NA, end=NA, frequency=NA,
                    pad=NA, pad.start=pad, pad.end=pad,
                    server=NA, db=NA, start.server=NA,
                    server.process=NA, cleanup.script=NA,
                    stop.on.error=NA, warn=NA,
                    append=NA, use.tframe=NA,
                output=NA,                  input=NA,
                output.server=NA,       input.server=NA,
                output.db=NA,           input.db=NA,
                output.transforms=NA,   input.transforms=NA,
                output.names=NA,        input.names=NA,
                    ...)
```

Arguments

`obj`	a tfPADIdata object.
`output`	see tfPADIdata description of `series`.
`output.server`	see tfPADIdata descriptions.
`output.db`	see tfPADIdata descriptions.
`output.transforms`	see tfPADIdata descriptions.
`output.names`	see tfPADIdata descriptions.
`input`	see tfPADIdata descriptions of `series`
`input.server`	see tfPADIdata descriptions.
`input.db`	see tfPADIdata descriptions.
`input.transforms`	see tfPADIdata descriptions.
`input.names`	see tfPADIdata descriptions.
`start`	see tfPADIdata descriptions.
`end`	see tfPADIdata descriptions.
`frequency`	see tfPADIdata descriptions.
`pad`	see tfPADIdata descriptions.
`pad.start`	see tfPADIdata descriptions.
`pad.end`	see tfPADIdata descriptions.
`start.server`	see tfPADIdata descriptions.
`server.process`	see tfPADIdata descriptions.
`server`	see tfPADIdata descriptions.
`db`	see tfPADIdata descriptions.
`cleanup.script`	see tfPADIdata descriptions.
`stop.on.error`	see tfPADIdata descriptions.
`warn`	see tfPADIdata descriptions.
`append`	see tfPADIdata descriptions.
`use.tframe`	see tfPADIdata descriptions.
`...`	arguments to be passed to other methods.

Details

This is the way to modify a TSPADIdata object.

Value

An object of class "TSPADIdata" "TSdata".

See Also

[TSPADIdata](#) [modify.tfPADIdata](#) [freeze.TSPADIdata](#) [freeze.TSPADIdata](#) [TSPADIdata](#)

Examples

```
inflation.sa.names <- TSPADIdata2(
    output = list(
        c("ets","", "b820678",  "ytoypc", "price services"),
        c("ets","", "b800938",  "ytoypc", "total unit labour costs")
        ), stop.on.error=TRUE, warn=TRUE )
z <- modify(inflation.sa.names, server="newserver")
```

---

print.tfPADIdata   *Print a tfPADIdata Object*

Description

See the generic function description.

Usage

```
## S3 method for class 'tfPADIdata':
print(x, ...)
```

Arguments

x   a tfPADIdata object.

...   arguments to be passed to other methods.

See Also

print tfPADIdata

Examples

```
if(require("padi") && checkPADIserver("ets"))
    print(tfPADIdata(c("series1", "series2"), server="ets"))
```

---

print.TSPADIdata   *Print Specific Methods*

Description

See the generic function description.

Usage

```
## S3 method for class 'TSPADIdata':
print(x, ...)
```

Arguments

x   a TSPADIdata object.

...   arguments to be passed to other methods.

See Also

print summary

---

putpadi   *PADI Functions*

Description

see details

Usage

```
putpadi(data, server=Sys.info()[["nodename"]],  dbname="",
                series=seriesNames(data),
                start.server=TRUE, server.process=PADIserverProcess(),
                cleanup.script=PADIcleanupScript(),
                user=Sys.info()[["user"]], passwd="",
                stop.on.error=TRUE, warn=TRUE, timeout=60)
  ## S3 method for class 'TSdata':
  putpadi(data, server=Sys.info()[["nodename"]], dbname,
                series=seriesNames(data),
                start.server=TRUE, server.process=padi.server.process(),
                cleanup.script=padi.cleanup.script(),
                user=Sys.info()[["user"]], passwd="",
                stop.on.error=TRUE, warn=TRUE, timeout=60)
```

Arguments

data   a tfPADIdata object with data to put on the server.

server   string or vector of strings indicating the server where the series will be found.
                Scalar values are expanded to a vector of appropriate length.

dbname   string or vector of strings indicating additional information for the server. Scalar
                values are expanded to a vector of appropriate length.

series   vector of strings to use for series identifiers.

start.server   logical indicating if a (local) server should be started.

server.process
                string indicating the name to be used to start a server process.

cleanup.script
                string indicating the name to be used to shut down a server process.

user   an optional string used by the server to check permission.

passwd   an optional string used by the server to check permission.

stop.on.error
                logical indicating if the function should stop if any series produces an error, or
                continue with other series.

warn   logical indicating if warning messages should be supressed.

timeout   an integer indicating the number of seconds to wait before concluding that the
                server is not available.

Details

See putpadi.default.

Value

depends

See Also

[getpadi](#) [putpadi.TSdata](#)

---

refresh *Retrieve new data from a database*

Description

Extact source information and retreive an updated version of the data from a database.

Usage

```
refresh(data)
```

Arguments

data   An object which has previously been obtained with freeze, so it contains
            source information which can be extracted and freeze re-applied.

Value

A time series object with class depending on the source information.

Examples

```
if(require("padi") && checkPADIserver("ets")) {
   d <- tfPADIdata("D1", server="ets")
   d <- freeze(d)
   d <- refresh(d) }
```

retrieve.and.verify.data
Retrieve and Verify Data

Description

Retrieve data from a database and verify a subset.

Usage

```
retrieve.and.verify.data(data.names,
    verification.data=verification.data, fuzz=1e-10)
```

Arguments

data.names   An object of class TSdata indicating databases and series.

verification.data
              An object of class TSdata.

fuzz   A (small) real number indicating the size of errors to tolerate.

Details

The data from the data base is compared with verification.data, which would normally be a subset
(e.g. a subset used for model estimation). The comparison is done on the sub-sample for which
verification data is available. This provides a mechanism for detecting large data revisions or re-
basing.

Value

An object of class TSdata containing data from the data bases is returned.

See Also

[TSPADIdata setTSPADIdata settfPADIdata freeze](#)

Examples

```
if(require("padi") & require("dse2") && checkPADIserver("ets")) {
   dnames <- TSPADIdata(output="D1", server="ets")
   d <- freeze(dnames)
   retrieve.and.verify.data(dnames, verification.data=d)}
```

---

settfPADIdata	*Prompt for series names*

Description

Prompt for data series names and locations and create a data object.

Usage

```
settfPADIdata(preamble=TRUE)
```

Arguments

preamble   a logical indicating if the description of how to enter data should be printed.

Details

The function prompts for the names and database locations of series. The data can be retrieved, in which case it is returned as currently available on the database (and becomes a time series matrix), or it may be left dynamic, in which case it is of class 'tfPADIdata' and the discription can be used anytime to retrieve data.

Value

An object of class 'tfPADIdata' (or retrieved time series matrix).

See Also

[freeze](#) [TSdata](#) [TSdata.object](#)

Examples

```
data <- settfPADIdata()
```

---

setTSPADIdata	*Prompt for Series Names*

Description

Prompt for data series names and locations and create a data object.

Usage

```
setTSPADIdata()
```

Details

The function prompts for the names and database locations of series to be used for input (exogenous) variables and output (endogenous) variables and creates a data object. The data can be retrieved, in which case it is fixed as currently available (and becomes an object of class 'TSdata'), or it may be left dynamic, in which case it is retrieved whenever it is referenced (and is of class 'TSPADIdata' 'TSdata').

Value

An object of class 'TSdata' or of class 'TSPADIdata' 'TSdata'

See Also

freeze TSdata

Examples

```
## Not run: data <- setTSPADIdata()
```

| sourcedb | *Get sourcedb from a data object* |

Description

Get sourcedb from a data object

Usage

```
sourcedb(obj)
## Default S3 method:
sourcedb(obj)
## S3 method for class 'tfPADIdata':
sourcedb(obj)
```

Arguments

obj   An object which contains source data base information.

Value

A list with elements input and output which are strings indicating the input and output sourcedb.

See Also

TSPADIdata identifiers sourceInfo

Examples

```
if(require("padi") && checkPADIserver("ets")) {
   d <- tfPADIdata("D1", server="ets")
   d <- freeze(d)
   sourcedb(d) }
```

---

sourceInfo   *Get source information from a data object*

Description

Get source information from an object

Usage

```
sourceInfo(obj)
## Default S3 method:
sourceInfo(obj)
## S3 method for class 'tfPADIdata':
sourceInfo(obj)
```

Arguments

obj   An object which contains source series information.

Value

A list with elements input and output which are strings indicating the input and output source.

See Also

[TSPADIdata](identifiers) `identifiers`

Examples

```
if(require("padi") && checkPADIserver("ets")) {
   d <- tfPADIdata("D1", server="ets")
   d <- freeze(d)
   sourceInfo(d)}
```

---

sourceInfo.TSdata   *tfPADI Specific Methods*

Description

See the generic function description.

Usage

```
## S3 method for class 'TSdata':
sourceInfo(obj)
## S3 method for class 'TSestModel':
sourceInfo(obj)

## S3 method for class 'TSdata':
sourcedb(obj)
```

```
## S3 method for class 'TSestModel':
sourcedb(obj)

## S3 method for class 'TSdata':
sourceserver(obj)
## S3 method for class 'TSestModel':
sourceserver(obj)

## S3 method for class 'TSdata':
identifiers(obj)
## S3 method for class 'TSestModel':
identifiers(obj)
```

Arguments

obj   An object of class TSdata or TSestModel.

See Also

[sourceInfo](#)

---

sourceInfo.TSPADIdata
                    TSPADIdata Specific Methods

Description

See the generic function description.

Usage

```
## S3 method for class 'TSPADIdata':
sourceInfo(obj)
## S3 method for class 'TSPADIdata':
sourcedb(obj)
## S3 method for class 'TSPADIdata':
sourceserver(obj)
## S3 method for class 'TSPADIdata':
availability(obj, verbose=TRUE, timeout=60, ...)
## S3 method for class 'TSPADIdata':
identifiers(obj)
## S3 method for class 'TSPADIdata':
periods(x)
```

Arguments

obj   a TSPADIdata object.

x   a TSPADIdata object.

verbose   a logical indicating if extra information should be printed.

timeout   an integer indicating the number of seconds to wait before concluding that the
                    server is not available.

...   (further arguments, currently disregarded).

See Also

[sourceInfo](#)

---

sourceserver	*Get source server from a data object*

Description

Get source server information from an object

Usage

```
sourceserver(obj)
## Default S3 method:
sourceserver(obj)
## S3 method for class 'tfPADIdata':
sourceserver(obj)
```

Arguments

obj   An object which contains source series information.

Value

A list with elements input and output which are strings indicating the input and output sourceserver.

See Also

[TSPADIdata](#) [identifiers](#) [sourcedb](#) [sourceInfo](#)

Examples

```
if(require("padi") && checkPADIserver("ets")) {
   d <- tfPADIdata("D1", server="ets")
   sourceserver(d)}
```

---

tfPADIdata	*make tfPADIdata object*

Description

Make a tfPADIdata object from a vector of identifiers

Usage

```
tfPADIdata(series,  server = "", db= "", transforms= "",
        start=NA, end=NA, frequency=NA, names=NULL,
        pad=FALSE, pad.start=pad, pad.end=pad,
        use.tframe=TRUE,
        start.server=FALSE,
        server.process=PADIserverProcess(),
        cleanup.script=PADIcleanupScript(),
        stop.on.error=TRUE, warn=TRUE)
is.tfPADIdata(obj)
```

Arguments

series	vectors of strings indicating series identifiers.
server	string or vector of strings indicating the server where the series will be found. Scalar values are expanded to a vector of appropriate length.
db	string or vector of strings indicating additional information for the server. Scalar values are expanded to a vector of appropriate length.
transforms	see details.
start	a two element vector of starting year and period which is used when requesting data.
end	a two element vector of end year and end period which is used when requesting data.
frequency	a scalar indicating frequency. This is not used in requesting data, but if supplied it is used as a check of returned data. A warning is issued if returned data does not have this frequency.
names	names to replace series identifiers.
pad	TRUE or FALSE indicating if data should be padded with NAs on both ends to the length of the longest available series. If padding is not done then series are truncated to the intersection of available data so there are no NAs in the result. pad.start and pad.end are the arguments which are actually used. pad is just a convenient way to specify both.
pad.start	logical indicating if NAs should be padded to beginning of data.
pad.end	logical indicating if NAs should be padded to end of data.
use.tframe	logical indicating if the tframe library methods should be used for the time dimension.
start.server	logical indicating if a (local) server should be started.
server.process	string indicating the name to be used to start a server process.
cleanup.script	string indicating the name to be used to shut down a server process.
stop.on.error	logical indicating if the function should stop if any series produces an error, or continue with other series.
warn	logical indicating if warning messages should be supressed.
obj	Any object.

Details

This is the way to produce an object which can be used for database access. The transforms a vector of strings, one for each series, giving any transformations which should be applied when the data is retrieved (with eval(call()), e.g. "log", or "" if no transform is to be applied).

Value

A object of class "tfPADIdata" which can be used to retrieve a matrix time series object.

See Also

[freeze](#)

Examples

```
if(require("padi")) {
    z <- tfPADIdata( c("seriesA", "seriesB"), server="myserver")
    is.tfPADIdata(z)
    }
```

```
tfperiods.tfPADIdata
```
Specific Methods for Tframed data

Description

See the generic function description.

Usage

```
## S3 method for class 'tfPADIdata':
tframe(x)
## S3 method for class 'tfPADIdata':
tfperiods(x)
## S3 method for class 'tfPADIdata':
tfstart(x, ...)
## S3 method for class 'tfPADIdata':
tfend(x, ...)
## S3 method for class 'tfPADIdata':
tffrequency(x, ...)
## S3 method for class 'tfPADIdata':
seriesNames(x)
```

Arguments

x   a tfPADIdata object.

...   (further arguments, currently disregarded).

See Also

[tframe](#), [tfperiods](#), [tfstart](#), [tfend](#), [tffrequency](#), [freeze](#), [seriesNames](#)

`tfputpadi`	*Write Data to a Data Server*

Description

Write data to a server.

Usage

```
tfputpadi(data,
      server = Sys.info()[["nodename"]],
      dbname = "",
      series = seriesNames(data),
      start.server =TRUE,
      server.process = padi.server.process(),
      cleanup.script = padi.cleanup.script(),
      user = Sys.info()[["user"]], passwd= "",
      stop.on.error =TRUE, warn =TRUE, timeout=60)
```

Arguments

`data`	a tfPADIdata object with data to put on the server.
`server`	string or vector of strings indicating the server where the series will be found. Scalar values are expanded to a vector of appropriate length.
`dbname`	string or vector of strings indicating additional information for the server. Scalar values are expanded to a vector of appropriate length.
`series`	vector of strings to use for series identifiers.
`start.server`	logical indicating if a (local) server should be started.
`server.process`	
	string indicating the name to be used to start a server process.
`cleanup.script`	
	string indicating the name to be used to shut down a server process.
`user`	an optional string used by the server to check permission.
`passwd`	an optional string used by the server to check permission.
`stop.on.error`	
	logical indicating if the function should stop if any series produces an error, or continue with other series.
`warn`	logical indicating if warning messages should be supressed.
`timeout`	an integer indicating the number of seconds to wait before concluding that the server is not available.

Details

This function writes data to a database using the TS PADI programs available at `www.bank-banque-canada.ca/pgilbert`.

Value

A tfPADIdata object (as would be suitable for retrieving the data).

See Also

tfPADIdata putpadi

TSPADIdata2 *Constructor for TSPADIdata object*

Description

Make a TSPADIdata object from identifier information

Usage

```
TSPADIdata2(input=NULL, output=NULL,
  start = NA, end = NA, frequency = NA,
  pad.start = FALSE, pad.end = FALSE,
  start.server = NULL, server.process = NULL, cleanup.script = NULL,
  stop.on.error =TRUE, warn =TRUE)
```

Arguments

input   Lists of character vectors indicating data to be used as input. Each vector has 5
                elements indicating the server, the database, the series identifier, any tranforma-
                tion, and a name.

output   List (as for input) indicating outputs. At least one of input or output should be
                specified.

start, end, frequency, pad.start, pad.end
                Information about data retrieval. See tfPADIdata for more details.

start.server, server.process, cleanup.script, stop.on.error, warn
                Additional information server operation. See tfPADIdata for more details.

Details

This is an alternate way to produce an object which can be used for PADI database access. Input and
output values are passed to tfPADIdata so the TSdata object return is a list of tfPADIdata objects
called input and output (but either of these can be NULL).

Value

An object of class "TSPADIdata" "TSdata".

See Also

freeze.TSPADIdata freeze.TSPADIdata tfPADIdata TSPADIdata2 setTSPADIdata

Examples

```
inflation.sa.names <- TSPADIdata2(
    output = list(
         c("ets","",  "ippia401",  "ytoypc", "industrial product price index"),
         c("ets","",  "b820600",   "ytoypc", "cpi"),
         c("ets","",  "b820655",   "ytoypc", "cpixfe"),
         c("ets","",  "b820672",   "ytoypc", "price goods excl food & energy"),
         c("ets","",  "b820678",   "ytoypc", "price services"),
         c("ets","",  "b800938",   "ytoypc", "total unit labour costs")
           ), stop.on.error=TRUE, warn=TRUE )
```

TSPADIdata   *Constructor for TSPADIdata object*

Description

Make a TSPADIdata object from identifier information

Usage

```
TSPADIdata(output=NULL,               input=NULL,
                       output.server=server,   input.server=server,
                       output.db=db,           input.db=db,
                       output.transforms="",   input.transforms="",
                       output.names=NULL,      input.names=NULL,
                        start=NA, end=NA, frequency=NA,
                        pad=FALSE, pad.start=pad, pad.end=pad,
                        server="", db="", start.server=NULL,
                        server.process=NULL, cleanup.script=NULL,
                        stop.on.error=TRUE, warn=TRUE)

    is.TSPADIdata(obj)
```

Arguments

output   see tfPADIdata description of `series`.
output.server
                see tfPADIdata descriptions.
output.db   see tfPADIdata descriptions.
output.transforms
                see tfPADIdata descriptions.
output.names   see tfPADIdata descriptions.
input   see tfPADIdata description of `series`.
input.server   see tfPADIdata descriptions.
input.db   see tfPADIdata descriptions.
input.transforms
                see tfPADIdata descriptions.
input.names   see tfPADIdata descriptions.

start	see tfPADIdata descriptions.
end	see tfPADIdata descriptions.
frequency	see tfPADIdata descriptions.
pad	see tfPADIdata descriptions.
pad.start	see tfPADIdata descriptions.
pad.end	see tfPADIdata descriptions.
server	see tfPADIdata descriptions.
db	see tfPADIdata descriptions.
start.server	see tfPADIdata descriptions.
server.process	
	see tfPADIdata descriptions.
cleanup.script	
	see tfPADIdata descriptions.
stop.on.error	
	see tfPADIdata descriptions.
warn	see tfPADIdata descriptions.
obj	any object.

Details

This is the way to produce an object which can be used for PADI database access. Input and output values are passed to tfPADIdata so the TSdata object return is a list of tfPADIdata objects called input and output (but either of these can be NULL).

Value

An object of class "TSPADIdata" "TSdata".

See Also

[freeze.TSPADIdata](#) [freeze.TSPADIdata](#) [tfPADIdata](#) [TSPADIdata2](#) [setTSPADIdata](#)

Examples

```
z <- TSPADIdata(output=c("seriesA", "seriesB"), server="myserver")
is.TSPADIdata(z)
```

---

tsp.tfPADIdata	*Specific Methods for tsp*

Description

See the generic function description.

Usage

```
## S3 method for class 'tfPADIdata':
tsp(x)
```

Arguments

x   A tfPADIdata object.

See Also

tsp

---

tsp.TSPADIdata   *Specific Methods for tsp*

Description

See the generic function description.

Usage

```
## S3 method for class 'TSPADIdata':
tsp(x)
```

Arguments

x   a TSPADIdata object.

See Also

tsp

Index