

# Time Series Database Interface: TSgetSymbol wrapper to getSymbols

December 19, 2010

## 1 Introduction

The code from the vignette that generates this guide can be loaded into an editor with `edit(vignette("TSgetSymbol"))`. This uses the default editor, which can be changed using `options()`. It should be possible to view the pdf version of the guide for this package with `print(vignette("TSgetSymbol"))`.

Once R is started, the functions in this package are made available with

```
> library("TSgetSymbol")
```

This will also load required packages *TSdbi*, *DBI*, *methods*, *tframePlus*, *zoo*, and *quantmod*.

*TSgetSymbol* is just a wrapper to *getSymbols* in *quantmod*. It does not provide extra functionality, only an interface that is consistent with *TSdbi*. *TSgetSymbol* does not support writing data.

### 1.1 Examples Using TSgetSymbol with FRED

```
> con <- TSconnect("getSymbol", dbname = "FRED")
> x <- TSget("M2", con)
> plot(x)
> tfplot(x)
> TSrefperiod(x)
```

NULL

```
> TSdescription(x)
```

```
[1] "M2 from FRED"
```

It is also possible to specify a connection to be used as the default:

```
> options(TSconnection = con)
> tfplot(TSget(serIDs = "M2"))
```

```

> x2 <- TSget("CPIAUCNS", con)
> tfplot(x2)
> plot(x2)
> TSdescription(x2)

[1] "CPIAUCNS from FRED"

> x <- TSget(c("CPIAUCNS", "M2"), con)
> plot(x)
> tfplot(x)
> TSdescription(x)

[1] "CPIAUCNS from FRED" "M2 from FRED"

> TSdates(c("CPIAUCNS", "M2"), con)

      [,1]
[1,] "CPIAUCNS from -20819 1 to 14914 1      1"
[2,] "M2 from 1980-11-03 to 2010-12-06      0.142857142857143"

```

The following connects to yahoo and loads Ford. This is a multivariate time series with open, close, etc.

```

> yahoo <- TSconnect("getSymbol", dbname = "yahoo")
> x <- TSget("F", con = yahoo)
> plot(x)
> tfplot(x)

```

See the *TSdbi* vignette for additional details.