

Lecture Notes

Download financial statements

What?

Financial statements are available for securities through several web sites including Yahoo! Finance, Google and Nasdaq. These include, balance sheet, income statement and cash flow statement. Nasdaq.com, however, provides these financial statements in a structured format which makes the download process easy, fast and relatively reliable. These financial statement are available for the current period as well as for the past few periods (usually four quarters or four years).

Method

While we can download financial data to many of the spreadsheet software, we will be using Stata.

`fetch_statements` downloads financial statements from Nasdaq.com.

Syntax and options

`fetch_statements namelist(max=1), freq(string) st(string)`

- `freq()`: frequency of the financial statement filing. It can be annual (a) or quarterly (q).
- `st()`: financial statement type. It can be income statement (IS), balance sheet (BS) or cash flow statement (CF).

Example

The following example will download the annual income statement for AAPL.

```
net install http://researchdata.com/stata/048/fetch_statements.pkg, force
fetch_statements AAPL, freq(a) st(IS)
```

item	9_29_2018	9_30_2017	9_24_2016	9_26_2015
1 Total Revenue	265,595,000.00	229,234,000.00	215,639,000.00	233,715,000.00
2 Cost of Revenue	163,756,000.00	141,848,000.00	131,376,000.00	140,809,000.00
3 Gross Profit	101,839,000.00	88,186,000.00	84,263,000.00	93,626,000.00
4 Operating Expenses	-	-	-	-
5 Research and Development	14,236,000.00	11,581,000.00	10,845,000.00	8,867,000.00
6 Sales General and Admin.	16,785,000.00	15,261,000.00	14,194,000.00	14,329,000.00
7 Non-Recurring Items	0.00	0.00	0.00	0.00
8 Other Operating Items	0.00	0.00	0.00	0.00
9 Operating Income	70,898,000.00	61,344,000.00	60,024,000.00	71,230,000.00
10 Add'l income/expense items	2,805,000.00	2,745,000.00	1,348,000.00	1,285,000.00
11 Earnings Before Interest and Tax	72,983,000.00	64,089,000.00	61,372,000.00	72,515,000.00
12 Interest Expense	0.00	0.00	0.00	0.00
13 Earnings Before Tax	72,983,000.00	64,089,000.00	61,372,000.00	72,515,000.00
14 Income Tax	13,372,000.00	15,738,000.00	15,685,000.00	19,121,000.00
15 Minority Interest	0.00	0.00	0.00	0.00
16 Equity Earnings/Loss Unconsolidated Subsidiary	0.00	0.00	0.00	0.00
17 Net Income-Cont. Operations	59,531,000.00	48,351,000.00	45,687,000.00	53,394,000.00
18 Net Income	59,531,000.00	48,351,000.00	45,687,000.00	53,394,000.00
19 Net Income Applicable to Common Shareholders	59,531,000.00	48,351,000.00	45,687,000.00	53,394,000.00

Figure 1: Downloaded AAPL annual income statement

Example

The following example will download the most recent (2018 or 2017) annual income statements for all S&P-500 companies.

```
net install http://researchdata.com/stata/010/fetchcomponents.pkg, force
fetchcomponents, symbol(^GSPC)
levelsof Symbol, local(symbols) clean
foreach aa in `symbols' {
  di "`aa'"
  clear
  capture: fetch_statements `aa', freq(a) st(IS)
  if (_rc==0) {
    if (_N>5) {
      qui: ds
      local temp = word("`r(varlist)'",2)
      rename `temp' most_recent
      keep item most_recent
      gen symbol="`aa'"
      capture: append using SP500_IS.dta
      save SP500_IS.dta, replace
    }
  }
}
```

Example

The following example will download the most recent (2018 or 2017) annual balance sheets for all S&P-500 companies.

```
fetchcomponents, symbol(^GSPC)
levelsof Symbol, local(symbols) clean
foreach aa in `symbols' {
  di "`aa'"
  clear
  capture: fetch_statements `aa', freq(a) st(BS)
  if (_rc==0) {
    if (_N>5) {
      qui: ds
      local temp = word("`r(varlist)'",2)
      rename `temp' most_recent
      keep item most_recent
      gen symbol="`aa'"
      capture: append using SP500_BS.dta
      save SP500_BS.dta, replace
    }
  }
}
```

Example

The following example will download the most recent (2018 or 2017) annual cash flow statement for all S&P-500 companies.

```
fetchcomponents, symbol(^GSPC)
levelsof Symbol, local(symbols) clean
foreach aa in `symbols' {
  di "`aa'"
  clear
  capture: fetch_statements `aa', freq(a) st(CF)
  if (_rc==0) {
    if (_N>5) {
      qui: ds
      local temp = word("`r(varlist)'",2)
      rename `temp' most_recent
      keep item most_recent
      gen symbol="`aa'"
      capture: append using SP500_CF.dta
      save SP500_CF.dta, replace
    }
  }
}
```

