

PortfolioStream - New Release Fact Sheet

An updated version of PortfolioStream was recently released with several enhancements to the previous version. This document describes the changes.

New Reporting Capabilities

Now the Sharpe Ratio can be determined using different methods of calculating the percent return. This makes the software's determination of the Sharpe Ratio more relevant to both systems that compound trade size and those that generate a fixed trade size throughout the history. The user can select to calculate the Sharpe Ratio using:

- Fixed Capital Percent Returns assuming profits are taken out of the portfolio.
- Returns from compounded Equity, which uses as the denominator in percent return the accumulated equity (as opposed to a fixed capital base).

Users can also specify to calculate the Sharpe Ratio from various interval return data including:

- Monthly
- Weekly
- Daily

New Graphing Capabilities

PortfolioStream now contains a whole new type of graph called Exposure Graphs. These are intended to display information relating to how much capital or margin a particular portfolio is using (open positions) over time. These graphs are designed to aid in assessing how much capital is required for a portfolio and also how much margin is utilized by the strategy. The Exposure Graphs are found in the Graphs tab in the Portfolio Report and can be accessed using the dropdown menu.

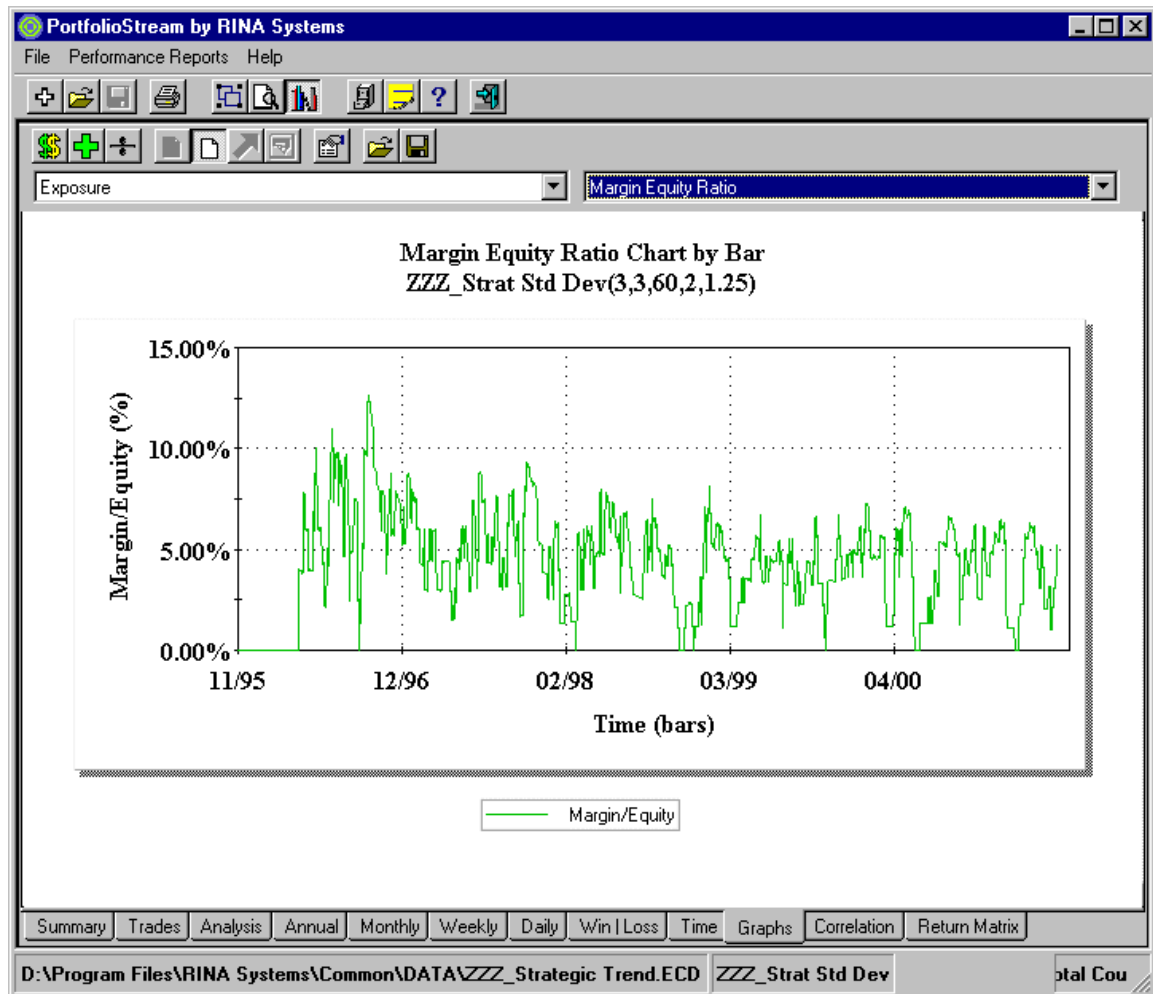
Exposure Graphs Include:

Margin

This graph displays the open position margin (determined in TradeStation Costs tab) for the portfolio on a daily basis over the entire history.

Margin to Equity Ratio

This graph displays the open position margin divided by the portfolio equity on a daily basis over the entire history.



Open Position

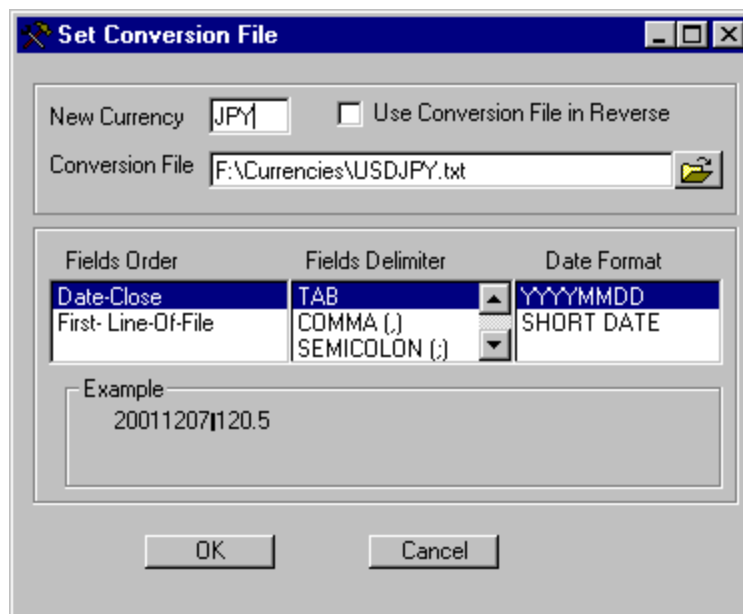
This graph displays the dollar (or which ever currency in which the security is denominated) value of open positions over time. It is calculated by taking the sum of open positions in the portfolio * number of shares for each position * price of the security for each position. For futures this roughly corresponds to the notional value of portfolio positions.

Unused Capital

This graph displays the equity not committed to open positions. Unused capital is reduced by initiating an open trade by taking the entry price * the number of shares (dollar for dollar). For purposes of this graph, short positions reduce the available capital by the number of shares short times the short trade entry price.

Currency Conversion

PortfolioStream users can convert any system results (performance report) into another currency denomination. This is relevant because when securities are traded across borders often a foreign denominated asset must be converted back to the home unit (the currency unit in which the portfolio valuation takes place). Examples would be US based traders trading in the Euro denominated Bund or European traders operating in Nasdaq stocks. This is accomplished by allowing the user to maintain a text file containing daily values for an exchange rate on their hard drive. PortfolioStream's interface allows the user to take a system report and direct it to be converted by the specified file. Using this method returns and performance statistics are converted on a day-by-day basis for the entire history (dynamically) versus simply specifying a fixed exchange rate.



Portfolio Design Capabilities

The new Portfolio Designer will for any set of system/market combinations determine the selection of markets that yields the highest Sharpe Ratio. This is accomplished through the use of a proprietary algorithm that substantially reduces the time required to solve this problem iteratively.

PortfolioStream by RINA Systems
 File Performance Reports Portfolio Designer Help
 Max Sharpe Ratio

Strategy Application Results for Markets

Sort by: [] Where ... [] [] []

Add Constraint
 Remove Constraint
 Show Data

Parameters	Net Profit	Avg. Trade Pcnt	Percent Profitable	Avg. Win/ Avg. Loss	Annual Rate of Return	Open Position P/L	Profit Factor
✓ AD 63/00(3,3,60,2,1.25)	(\$3,490.00)	-0.03%	32.56%	1.80	-0.01	(\$50.00)	0.87
✓ JY 63/00(3,3,60,2,1.25)	\$31,675.00	0.73%	48.65%	2.08	0.06	\$0.00	1.97
✓ CD 63/00(3,3,60,2,1.25)	\$340.00	0.00%	37.14%	1.73	0.00	(\$80.00)	1.02
✓ US 63/00(3,3,60,2,1.25)	\$2,187.50	0.04%	44.74%	1.34	0.00	\$500.00	1.08
✓ BP 63/00(3,3,60,2,1.25)	(\$7,825.00)	-0.18%	35.00%	1.35	-0.02	(\$812.50)	0.73
✓ SF 63/00(3,3,60,2,1.25)	\$21,112.50	0.62%	45.45%	2.46	0.04	\$762.50	2.05

Improved Testing Automation / Multi Time-Frame Optimization

In addition to being able to optimize across multiple markets and parameters, PortfolioStream now supports the ability to run studies across time frames. Users can now select the intervals against which a study should be run (if multi time frame optimization is desired).

Apply Strategy/Optimization (Automatic Mode)

ZZZ_Strat Std Dev
 Template: ZZZ_Strategic Trend2-ZZZ_Strat Std Dev;
 Input CSL: ...\\ZZZ_StrTrend_FinFut.csl
 Time Frame: 120 min 240 min Daily Weekly

Validate CSL

Parameter	Start	Stop	Step
ATRtrailingSX_ATRs	3	3	1
ATRtrailingLX_ATRs	3	3	1
WSSTANDDEVBA...	40	40	1
WSSTANDDEVBA...	1.5	2.5	1
WSSTANDDEVBA...	1.25	2.50	.25

Set Optimization Range: 1.5 2.5 1

Run Strategy Cancel