









## Performance summary

	All trades	Long trades	Short trades
Total Net Profit	57125 \$	-4455 \$	61580 \$
Gross Profit	321430 \$	2525 \$	318905 \$
Gross Loss	264305 \$	6980 \$	257325 \$
Profit Factor	1.22	0.36	1.24
Total Number of trades	953	21	932
Percent Profitable	51.21 %	33.33 %	51.61 %
Winning Trades	488	7	481
Losing Trades	465	14	451
Avg Trade Net Profit	337.28 \$	120.24 \$	342.17 \$
Avg Winning Trade	658.67 \$	360.71 \$	663 \$
Payout Ratio (Avg Win/Loss)	1.16	0.72	1.16
Avg Losing Trade	568.4 \$	498.57 \$	570.57 \$
Avg Profit by Day	42.47 \$	-165 \$	46.65 \$
Avg Profit by Month	396.7 \$	-234.47 \$	427.64 \$
Avg Profit by Year	4760.42 \$	-556.87 \$	5131.67 \$
Largest Winning Trade	3395 \$	815 \$	3395 \$
Largest Losing Trade	-1995 \$	-1125 \$	-1995 \$
Avg Consecutive Winning Trades	1.99	1.17	1.98
Avg Consecutive Losing Trades	1.89	2	1.85
Max Consecutive Winning Trades	10	2	10
Max Consecutive Losing Trades	7	3	7
Avg Bars in Total Trades	10.75	7.48	10.83
Avg Bars in Winning Trades	11.18	7.14	11.24
Avg Bars in Losing Trades	10.31	7.64	10.39
Drawdown	19060 \$	4455 \$	19875 \$
% Drawdown	49.05 %	44.55 %	42.95 %

SQN CL 3.12.153 performance results using 15 min testing

## Advanced settings

**Data** | Trading options | Money management | Cross checks (robustness) | Ranking | Notes

Configure trading engine, symbols and timeframes for the main backtest. You can configure also Out of sample (unseen) periods, and default spread, slippage, commissions.

[? Help](#)

### Trading engine

Engine

Additional charts  - +

these are additional charts that strategy has access to

### Backtest data settings

Symbol

Timeframe  +

Start day

End day

Available from 2006.1.2

to 2019.3.22

### Test parameters

Precision

Commision  ⚙

Spread  - +

Slippage  - +

Min. distance  - +

### Out of sample

[Show chart](#)

[+ Add OOS](#)

## Advanced settings

Data **Trading options** Money management Cross checks (robustness)

Trading options define behavior of the strategy and affect how and when strategy trades. You can set a time range or limit maximum trades per day.

### Build and Trading Options

Trading options	
Exit At End Of Day	<input checked="" type="checkbox"/>
End Of Day Exit Time	14:15 - +
Exit On Friday	<input type="checkbox"/>
Friday Exit Time	22:40 - +
Limit Time Range	<input checked="" type="checkbox"/>
Time Range From	08:00 - +
Time Range To	12:30 - +
Exit At End Of Range	<input type="checkbox"/>
Maximum Trades Per Day	1 - +
Minimum SL/PT	0 - +
Maximum SL/PT	0 - +
Session	
Session	No Session v
Build options	
Store Chart Data	<input type="checkbox"/>
Compute MAE/MFE and Daily equity	<input type="checkbox"/>
undefined	

## Advanced settings

Data Trading options Money management **Cross checks (robustness)** Ranking Notes

Cross checks allow you to run a sequence of further tests (cross checks) once the strategy passes the basic filters. You can have strategy retested with higher precision or run a Monte Carlo simulation or Optimization on it.

[? Help](#)

If you define also filters, you can automatically dismiss strategies that will not pass the cross check filter - this allows you to create a "strategy testing funnel" where only the strategies that pass all the tests are saved (this applies only to Builder).

Disable all cross checks

Run all crosschecks independently from crosscheck filters failure  
If turned off (default), when crosscheck filter on strategy fails no further crosschecks are evaluated. If turned on, ALL crosschecks will be performed for strategy, even if some of cross checks don't pass the filtering.

### BASIC (FAST)

These cross checks require none or only one additional backtest, so they are fast.

### CROSS CHECK SETTINGS

<input checked="" type="checkbox"/> Retest with higher precision	Higher precision: Selected timeframe only (fastest)	none
<input type="checkbox"/> Monte Carlo trades manipulation	2 tests with 30 simulations	2 conditions

### STANDARD (SLOW)

Cross checks that require multiple additional backtests, thus multiplying the time of processing the whole strategy.

<input type="checkbox"/> Retest on additional markets	Retest on: EURUSD_M1/H1	1 conditions
<input type="checkbox"/> Monte Carlo retest methods	6 tests with 10 simulations	2 conditions

### EXTENSIVE (SLOWEST)

Walk-Forward process is very slow, it requires tens or even hundreds of repeated backtests of the strategy in different time ranges and settings.

<input type="checkbox"/> Opt. Profile / Sys. Param. Permutation	Max optimizations: 1 000	4 conditions
<input type="checkbox"/> Walk-Forward Optimization	Out of sample: 20 %, runs: 10, optimize Periods and Exit types	6 conditions
<input type="checkbox"/> Walk-Forward Matrix	Out of sample: 10 - 40 %, runs: 5 - 20, optimize Periods and Exit types	none



This cross checks retests the strategy with higher precision.

It can be used if you are using the lowest 'Selected timeframe' precision in the main backtest to quickly find and evaluate the valid strategies. You can then use this cross check to retest the strategy with higher precision to see if it performs in a same way with higher precision backtesting.

Settings

Filtering

Test parameters

Symbol

CL

Timeframe

M15

Main test precision

Selected timeframe only (fastest)

Main test spread

1

Cross check precision

Selected timeframe only (fastest) ▼

Cross check spread

0

- +

Close

Save

This cross checks retests the strategy with higher precision.

It can be used if you are using the lowest 'Selected timeframe' precision in the main backtest to quickly find and evaluate the valid strategies. You can then use this cross check to retest the strategy with higher precision to see if it performs in a same way with higher precision backtesting.

Settings

**Filtering**

If you define any conditions here they will be evaluated after this cross check is computed.

If strategy fails these conditions, it will be dismissed (thrown away) and no further cross check will be evaluated.

<input type="checkbox"/>	Left value	<>=	Right value	
<input type="checkbox"/>	Net profit (Higher precis.)	>= ▼	80% of Net profit	X
<input type="checkbox"/>	# of trades (Higher precis.)	>= ▼	80% of # of trades	X
<input type="checkbox"/>	Max DD % (Higher precis.)	< ▼	130% of Max DD %	X

Add conditions



[Close](#)

Save

Data

Trading options

Money management

Cross checks (robustness)

**Ranking**

Notes

Define how strategy rank is computed and how many strategies to save to databank.  
If filtering is available you can configure filters the strategy has to pass before it is saved.

 Help
**Strategy Quality ranking (fitness)**Use 

Compute from

- Net Profit (Return)
- Return / Drawdown ratio
- R Expectancy (Van Tharp)
- Annual Return % / Max DD %
- Weighted Fitness (multiple goals)

**Strategy filtering conditions**

Configure how the strategies will be recognized as PASSED or FAILED.  
If strategy fails any of the filter below (including cross check filters) it will be marked as FAILED.

 Delete FAILED strategies from databank
**Custom filters**

<input type="checkbox"/>	Left value	<=>	Right value	<input type="checkbox"/>
<input type="checkbox"/>	Net profit	> ▾	6000	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Profit factor	>= ▾	1.22	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Ret/DD Ratio	>= ▾	3	<input checked="" type="checkbox"/>
<input type="checkbox"/>	% Stagnation	<= ▾	40 %	<input checked="" type="checkbox"/>
<input type="checkbox"/>	# of trades	>= ▾	300	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Stability	>= ▾	0.6	<input checked="" type="checkbox"/>

**Cross check filters**

In addition to global filters you can filter out strategy also in cross checks.  
These filters are configured separately in every cross check method used.

Overview

List of trades

Equity chart

Trade analysis

**Strategy config**

Source Code

Apply strategy config

to

Retester

Strategy last test

Project config

Data	Strategy last test	Project config
Engine	Tradestation	Tradestation
Symbol	CL	CL
Timeframe	M15	M15
Start date	2006.1.2	2006.1.2
End date	2017.12.31	2017.12.31
Test precision	Selected timeframe only (fastest)	Selected timeframe only (fastest)
Spread	1	1
Slippage	1	1
Commission	\$ 5.00 per full lot	\$ 5.00 per full lot
<b>Trading options</b>		
Exit At End Of Day	yes	yes
End Of Day Exit Time	14:15	14:15
Exit On Friday	no	no
Friday Exit Time	22:40	22:40
Limit Time Range	yes	yes
Time Range From	08:00	08:00
Time Range To	12:30	12:30
Exit At End Of Range	no	no
Maximum Trades Per Day	1	1
Minimum SL/PT	0	0
Maximum SL/PT	0	0
Session	No Session	No Session
Store Chart Data	no	no
Compute MAE/MFE and Daily equity	no	no
<b>Money management</b>		
Initial capital	10000.0	10000.0
Money Management method	Fixed size - Order size 1.00,	Fixed size - Order size 1.00,
Risk Management method	Allow all trades	Allow all trades
<b>Cross checks</b>		
RetestWithHigherPrecision	no	no
RetestOnAdditionalMarkets	no	no
OptProfileSysParamPermutation	no	no
MonteCarloManipulation	no	no
MonteCarloRetest	no	no
WalkForwardOptimization	no	no
WalkForwardMatrix	no	no
<b>Rankings</b>		
Maximum top strategies to store	3500	3500

Fitness computation

Main data backtest

Main data backtest

TradeStation TradeManager Performance  
ReportCL 4.22.152, @CL, 15 min., 1/1/2015 6:15:00 PM - 12/29/2017 5:00:00  
PM**TradeStation Performance Summary**

	<b>All Trades</b>	<b>Long Trades</b>	<b>Short Trades</b>
Total Net Profit	\$10,345.00	(\$535.00)	\$10,880.00
Gross Profit	\$58,770.00	\$480.00	\$58,290.00
Gross Loss	(\$48,425.00)	(\$1,015.00)	(\$47,410.00)
Profit Factor	1.21	0.47	1.23
Roll Over Credit	\$0.00	\$0.00	\$0.00
Open Position P/L	\$0.00	\$0.00	\$0.00
Select Total Net Profit	\$7,085.00	(\$535.00)	\$7,620.00
Select Gross Profit	\$55,510.00	\$480.00	\$55,030.00
Select Gross Loss	(\$48,425.00)	(\$1,015.00)	(\$47,410.00)
Select Profit Factor	1.15	0.47	1.16
Adjusted Total Net Profit	\$789.86	(\$1,460.42)	\$1,364.69
Adjusted Gross Profit	\$53,730.51	\$140.59	\$53,254.51
Adjusted Gross Loss	(\$52,940.65)	(\$1,601.01)	(\$51,889.82)
Adjusted Profit Factor	1.01	0.09	1.03
Total Number of Trades	251	5	246
Percent Profitable	54.18%	40.00%	54.47%
Winning Trades	136	2	134
Losing Trades	115	3	112
Even Trades	0	0	0
Avg. Trade Net Profit	\$41.22	(\$107.00)	\$44.23
Avg. Winning Trade	\$432.13	\$240.00	\$435.00
Avg. Losing Trade	(\$421.09)	(\$338.33)	(\$423.30)
Ratio Avg. Win:Avg. Loss	1.03	0.71	1.03
Largest Winning Trade	\$1,665.00	\$335.00	\$1,665.00
Largest Losing Trade	(\$1,475.00)	(\$495.00)	(\$1,475.00)
Largest Winner as % of Gross Profit	2.83%	69.79%	2.86%
Largest Loser as % of Gross Loss	3.05%	48.77%	3.11%
Net Profit as % of Largest Loss	701.36%	-108.08%	737.63%
Select Net Profit as % of Largest Loss	480.34%	-108.08%	516.61%
Adjusted Net Profit as % of Largest Loss	53.55%	-295.03%	92.52%
Max. Consecutive Winning Trades	6	1	6
Max. Consecutive Losing Trades	6	2	6
Avg. Bars in Total Trades	13.39	10.00	13.46
Avg. Bars in Winning Trades	13.52	10.00	13.57
Avg. Bars in Losing Trades	13.23	10.00	13.31
Avg. Bars in Even Trades	0.00	0.00	0.00
Max. Shares/Contracts Held	1	1	1
Total Shares/Contracts Held	251	5	246
Account Size Required	\$3,745.00	\$870.00	\$3,745.00
Total Slippage	\$5,020.00	\$100.00	\$4,920.00
Total Commission	\$1,255.00	\$25.00	\$1,230.00
Return on Initial Capital	10.35%		
Annual Rate of Return	3.30%		
Buy & Hold Return	-19.03%		
Return on Account	276.23%		
Avg. Monthly Return	\$287.36		
Std. Deviation of Monthly Return	\$1,049.77		
Return Retracement Ratio	3.77		
RINA Index	580.53		

Sharpe Ratio	0.11
K-Ratio	n/a
Trading Period	2 Years, 11 Months, 23 days, 2 hours
Percent of Time in the Market	2.97%
Time in the Market	1 Month, 1 day, 9 hours, 15 Minutes
Longest Flat Period	18 days, 15 Minutes
Max. Equity Run-up	\$12,810.00
Date of Max. Equity Run-up	12/6/2017 12:15
Max. Equity Run-up as % of Initial Capital	12.81%

**Max. Drawdown (Intra-day Peak to Valley)**

Value	(\$4,770.00)	(\$1,760.00)	(\$4,770.00)
Date	5/1/2015 08:15		
as % of Initial Capital	4.77%	1.76%	4.77%
Net Profit as % of Drawdown	216.88%	-30.40%	228.09%
Select Net Profit as % of Drawdown	148.53%	-30.40%	159.75%
Adjusted Net Profit as % of Drawdown	16.56%	-82.98%	28.61%

**Max. Drawdown (Trade Close to Trade Close)**

Value	(\$3,745.00)	(\$870.00)	(\$3,745.00)
Date	01/25/17 12:00		
as % of Initial Capital	3.75%	0.87%	3.75%
Net Profit as % of Drawdown	276.23%	-61.49%	290.52%
Select Net Profit as % of Drawdown	189.19%	-61.49%	203.47%
Adjusted Net Profit as % of Drawdown	21.09%	-167.86%	36.44%

Max. Trade Drawdown	(\$1,450.00)	(\$640.00)	(\$1,450.00)
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## General Backtesting Automation

## Currency

Base currency of: Symbol (USD) ▼

## Costs/Capitalization

Commission: \$ per Trade ▼

\$ 2.5 0 %

Position Slippage: \$ 10  per Trade  
 per Share/Contract

Initial Capital: \$ 100,000

Interest Rate: 2 %

Note: Initial Capital and Interest Rate are used only in the Strategy Performance Report.

## Back-testing resolution

 Use Look-Inside-Bar Back-testing Tick 1 ticks Second 1 second Minute 1 minute Daily

Maximum number of bars study will reference 175

## Position limits (for pyramiding strategies only)

 Allow up to 50 entry orders in the same

direction as the currently held position:

 when the order is generated by a different entry order regardless of the entry that generated the order

Maximum shares/contracts/units per position 65,000

## Trade size (if not specified by strategy)

 Fixed Shares/Contracts/Units 1 USD per trade \$ 10,000

Round down to nearest 100 shares/contracts/units

Minimum number shares/contracts/units: 100

OK

Cancel

Help