
S-Trader
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+0.18%

# UOST | Ultimate Oscillator ST

## Contents

## Description

Developed by Larry Williams in 1976 and featured in the Stocks & Commodities Magazine in 1985, the Ultimate Oscillator is a momentum oscillator designed to capture momentum across three different timeframes. The multiple timeframe seeks to avoid the pitfalls of other oscillators. Many momentum oscillators surge at the beginning of a strong advance and then form a bearish divergence as the advance continues. This is because they are stuck with one timeframe. The Ultimate Oscillator attempts to correct this fault by incorporating longer timeframes into the basic formula. Williams identified a buy signal based on a bullish divergence and a sell signal based on a bearish divergence.

The difference between Ultimate Oscillator and Ultimate Oscillator ST indicators is that the first uses a summation function in the final calculation stage whereas the second uses smoothed values. Because of that the Ultimate Oscillator ST has one extra parameter – moving average type – than the Ultimate Oscillator.

## Formula

Step 1: Calculate Buying Power = BP = CLOSE – MIN(Low AND Prior Close)
Step 2: Calculate True Range = TR = MAX(High AND Prior Close) - MIN(Low AND Prior Close)
Step 3: Calculate Cycle 1 = Smoothed BP / Smoothed TR for cycle1 periods and selected moving average type using existing formulas;
Step 4: Calculate Cycle 2 = Smoothed BP / Smoothed TR for cycle2 periods and selected moving average type using existing formulas;
Step 5: Calculate Cycle 3 = Smoothed BP / Smoothed TR for cycle3 periods and selected moving average type using existing formulas;
Step 6: Calculate q = Cycle 3 Periods / Cycle 1 Periods and r = Cycle 2 Periods / Cycle 1 Periods;
Step 7: UOST = (q*Cycle 1 + r*Cycle 2 + Cycle 3) / (q + r + 1)

## Parameters

| | |
|---|---|
| **Cycle 1 Periods** | Any number of periods |
| **Cycle 2 Periods** | Any number of periods |
| **Cycle 3 Periods** | Any number of periods |
| **MA Type** | Any available moving average type |

## Output value(s)

There is one output value resulting from the formula, the Ultimate Oscillator ST.

## Plot

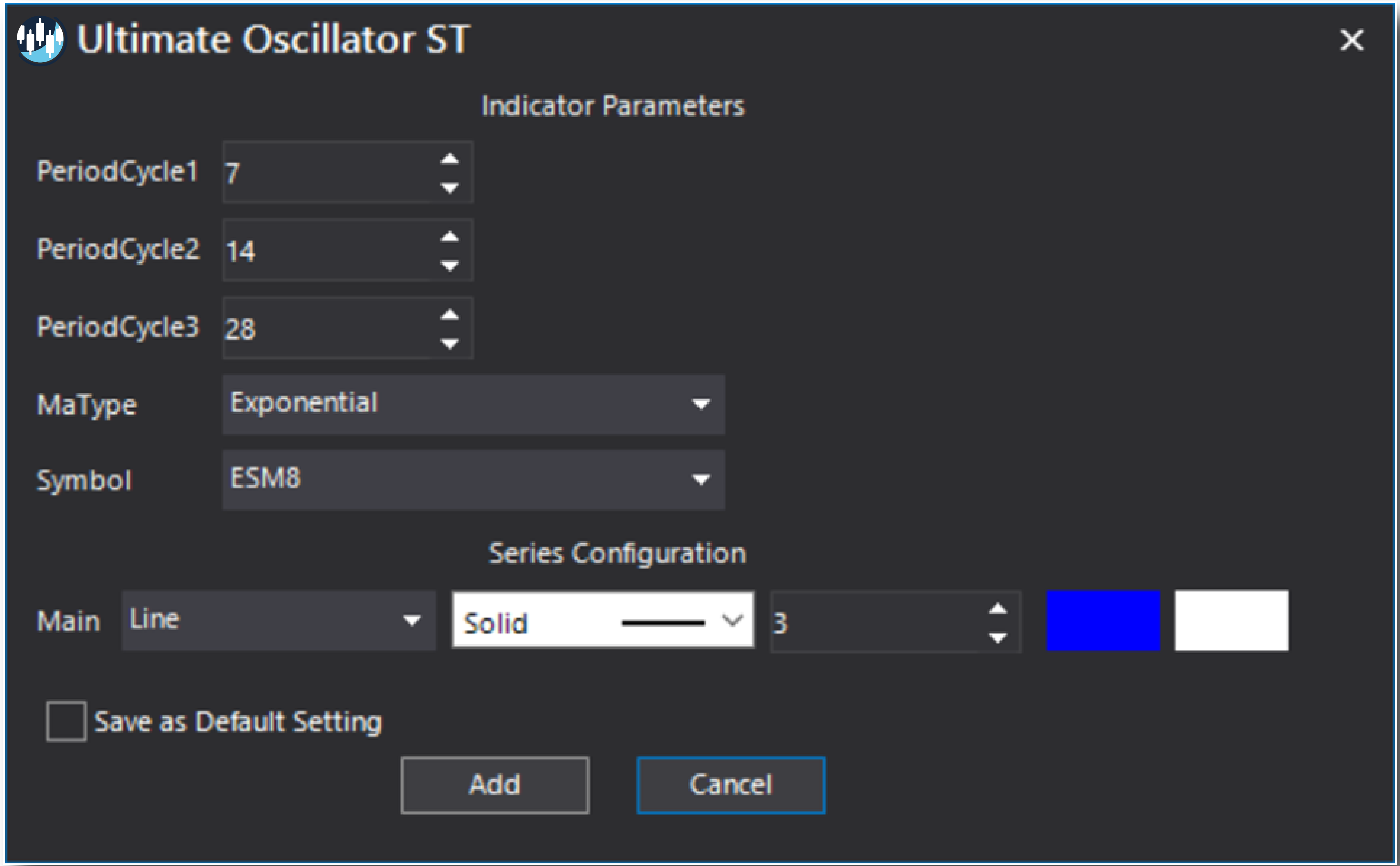
The plot is in a separate panel at the bottom.

## Quant Script™ Syntax

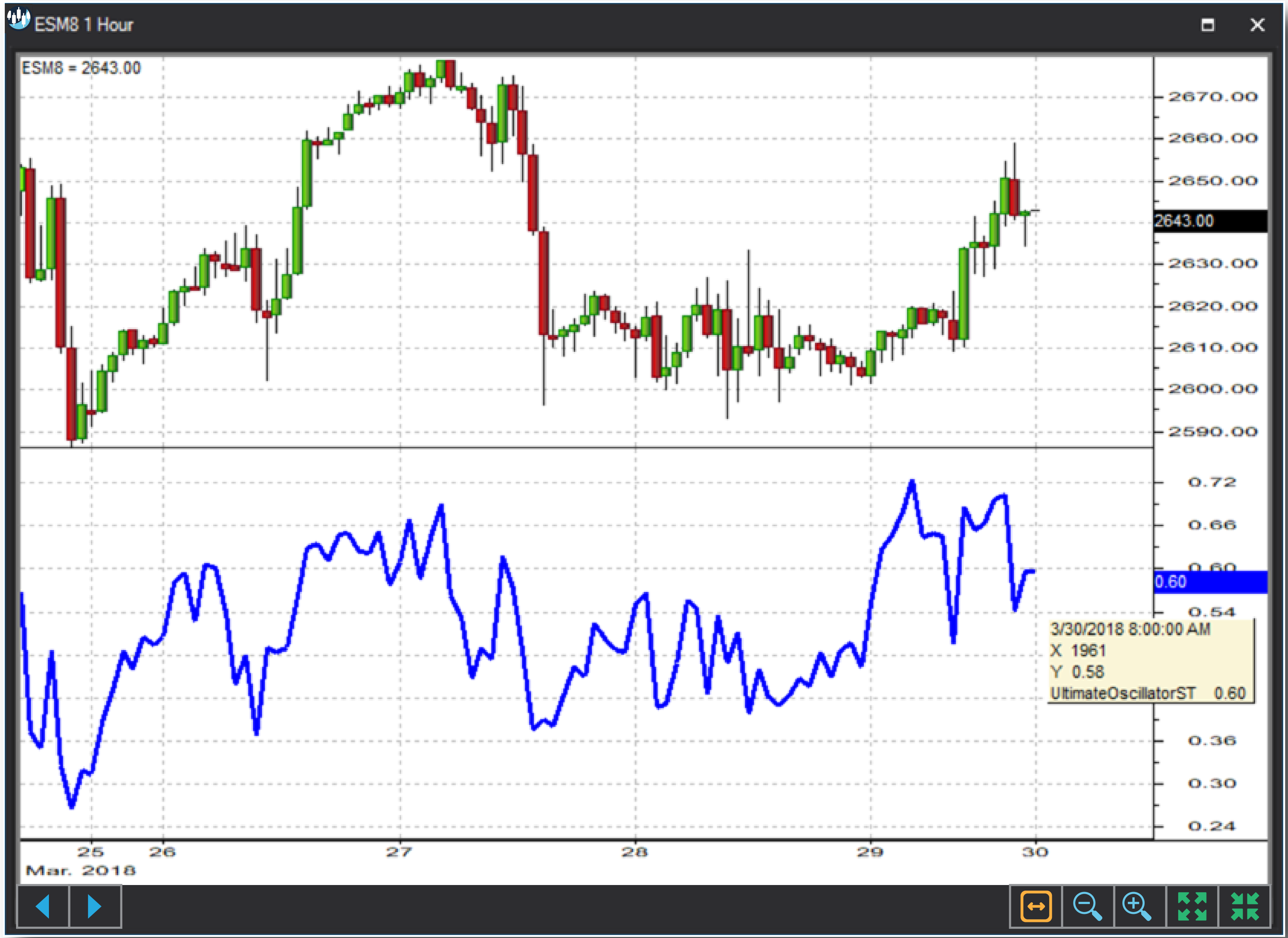
| | |
|---|---|
| **Short Form** | ***UOST*** (Cycle 1 Periods, Cycle 2 Periods, Cycle 3 Periods, MA Type) |
| **Long Form** | ***UltimateOscillatorST*** (Cycle 1 Periods, Cycle 2 Periods, Cycle 3 Periods, MA Type) |

# Dialogs

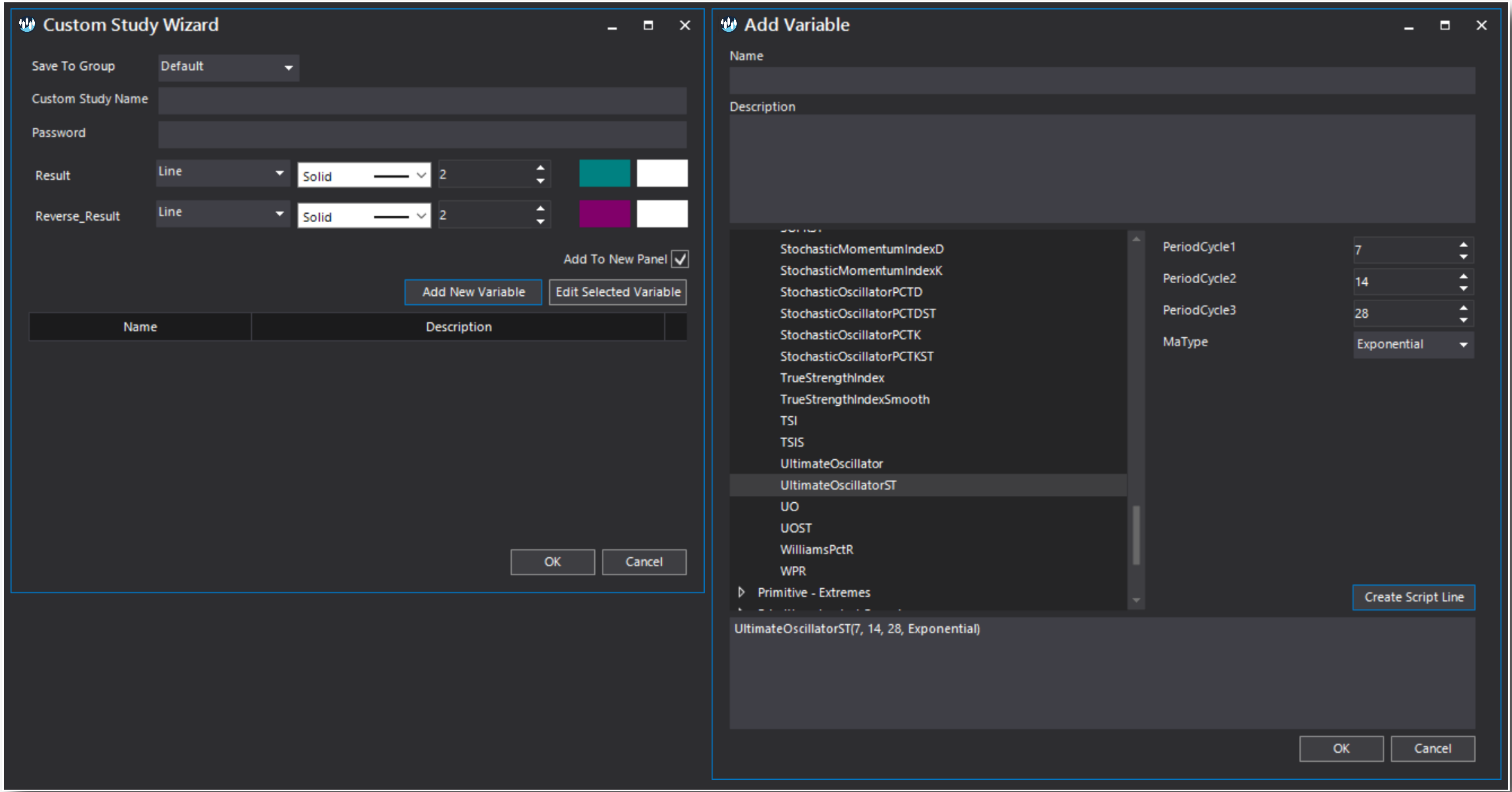
## Chart Study Dialog



## Sample Chart With Study



# Quant Script™ Wizard Study Dialog



# Quant Script™ Study Dialog