

Universal Trend Detection System (UNITRDES)



“Never miss a trend again”

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Professional Software Solutions
<http://www.ProfSoftware.com/trend>

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(UNITRDES Version 1.3b)

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Universal Trend Detection System (UNITRDES) - Overview

Welcome to the powerful new “Universal Trend Detection system (UNITRDES)“, which can assist you in detecting a trend and improve your trading in the following ways:

- Instant intuitive paint bar coloring showing the current market conditions and trend in real-time - using a proprietary continuous coloring scheme (UT_Bars)
- Automated Trading System (UT_TRD)
- Evaluating the trend strength and duration with additional available indicators (UT_Trend)

UNITRDES is truly universal and can be used and applied to:

- Stocks (AAPL, GOOG, INTC etc)
- ETF's (USO, SPY, DIA etc)
- Futures (E-Mini ES, NQ etc)
- FOREX (EURUSD etc)
- Any timeframe (Daily and Intraday Minutes, ticks, volume)

All parameters are easily adjustable for best performance in your market – details below.

Here is an example of the power of the UNITRDES trading system – using the Oil ETF(USO) over the last 2.5 years – it gained 178% in 2 long and 2 short trades:



UNITRDES is using advanced proprietary statistical models and has been developed by “Professional Software Solutions (PSS)” which extensive 30+ years software development experience.

Check for updates and new versions at <http://www.ProfSoftware.com/trend>

Installation

The installation is easily completed within a few minutes.

Trial Period

You can try the “Universal Trend Detection (UNITRDES)” for free for 14 days!

Download

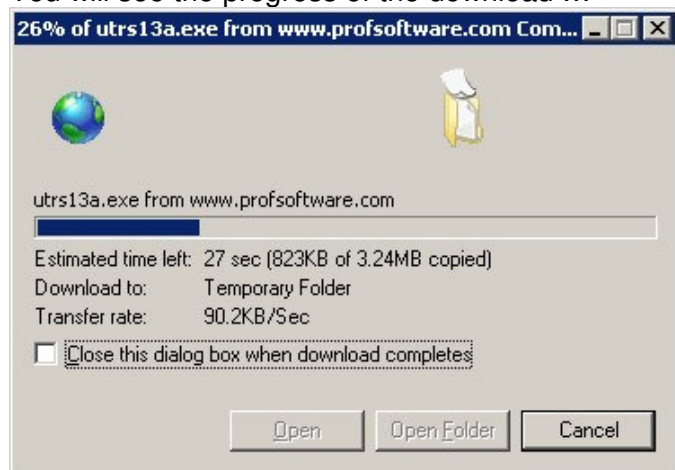
Download and install from: www.profsoftware.com/trend/dl.htm

Close the browser before you start the installation, so the files are not “occupied” and the install fails.

The internet browser will show the download box- click on the RUN button:



You will see the progress of the download ...

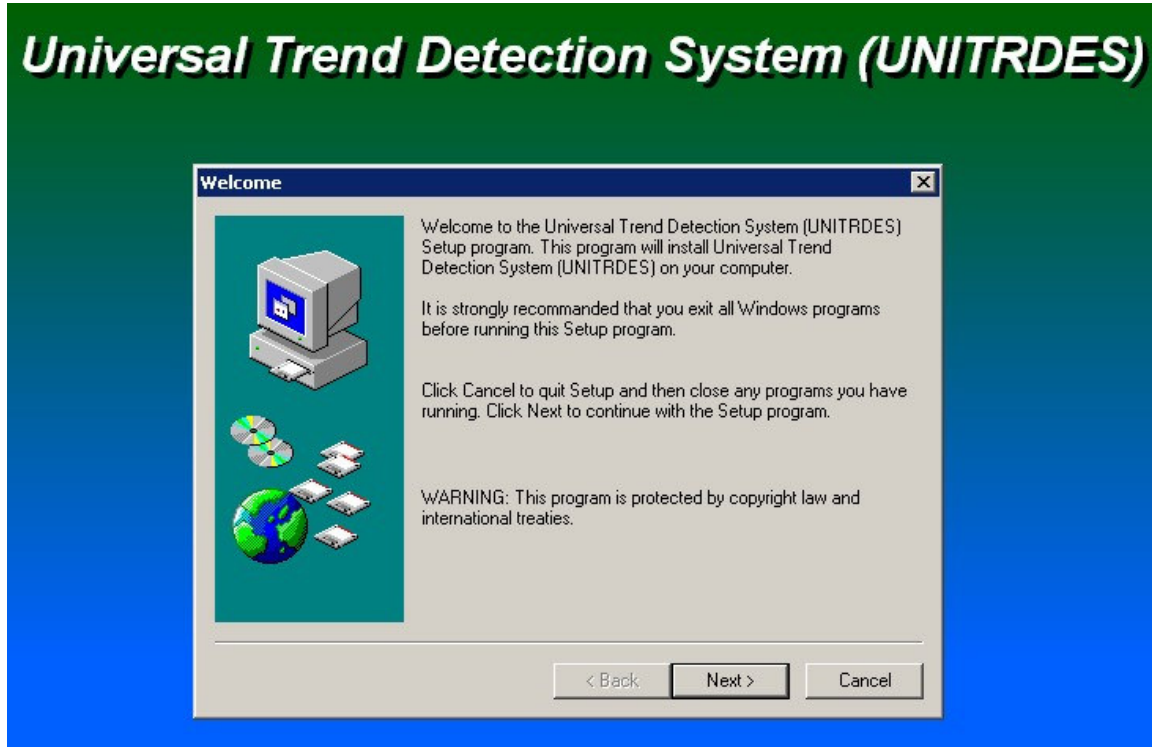


When the download has completed – confirm the installation: Click on the RUN button

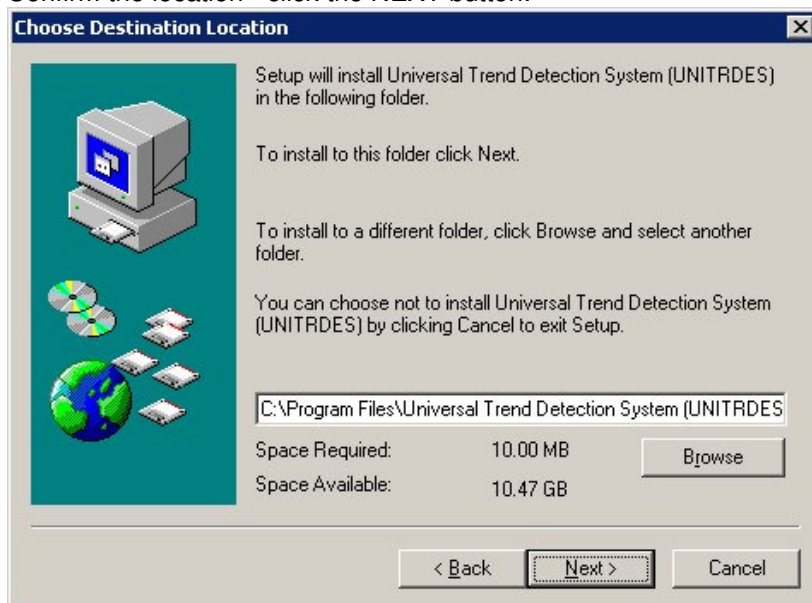


Setup

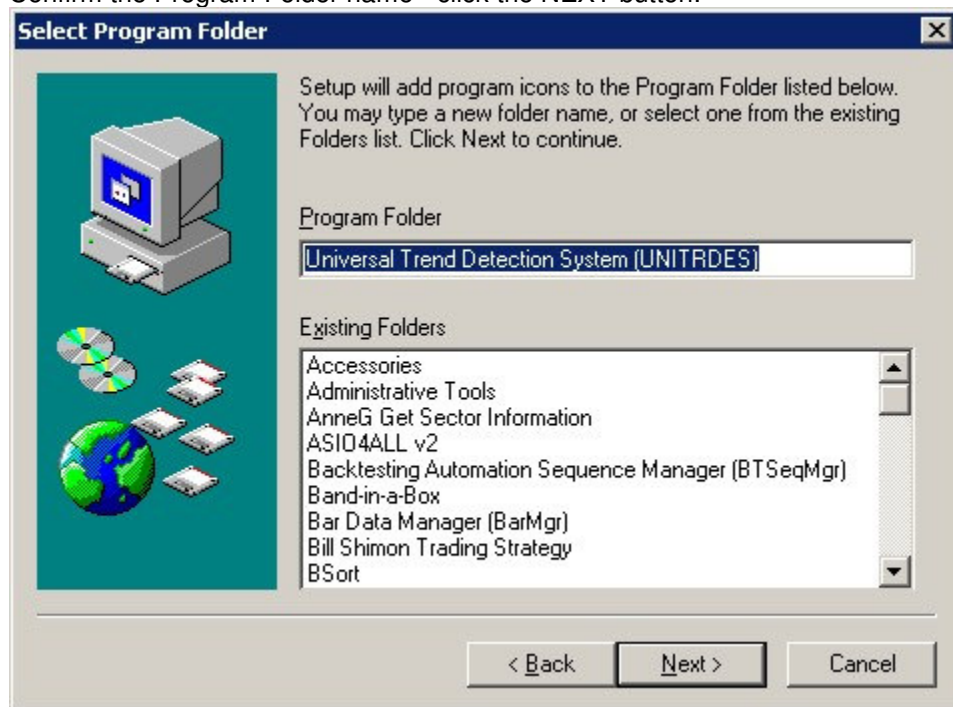
After a few seconds the actual installation will start - click on the NEXT button



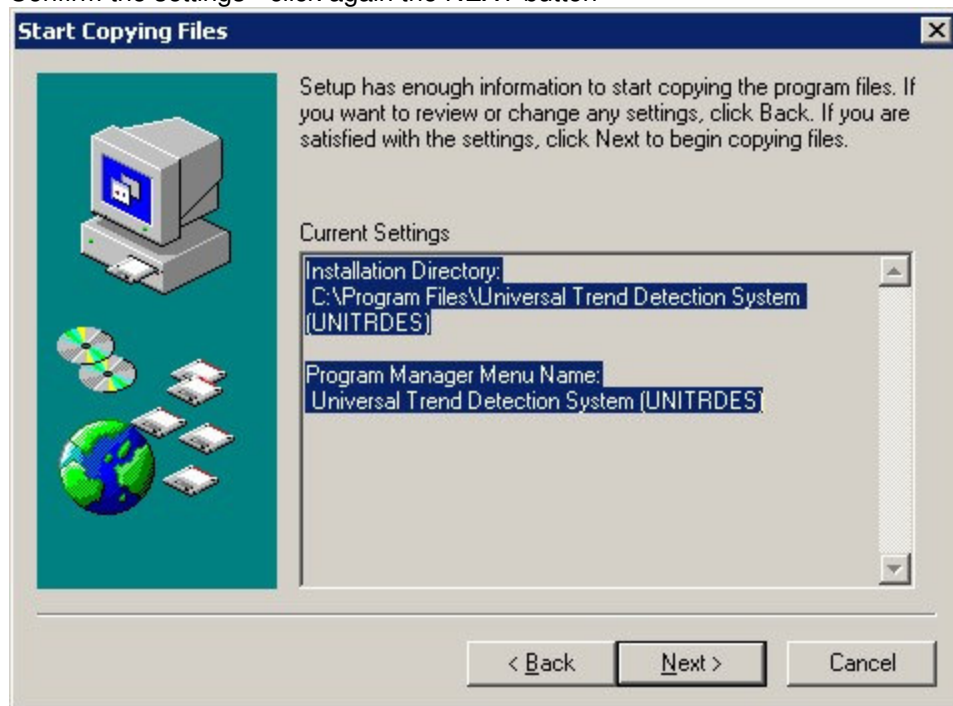
Confirm the location - click the NEXT button:



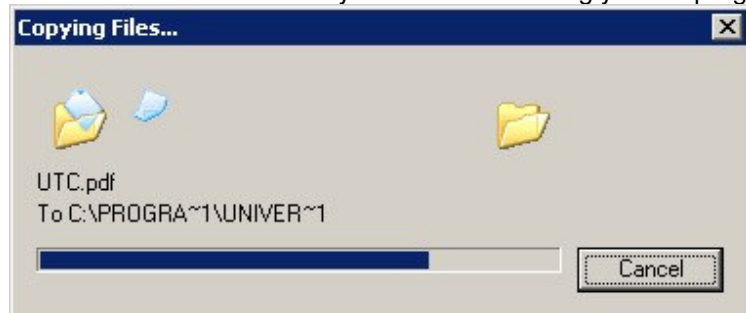
Confirm the Program Folder name - click the NEXT button:



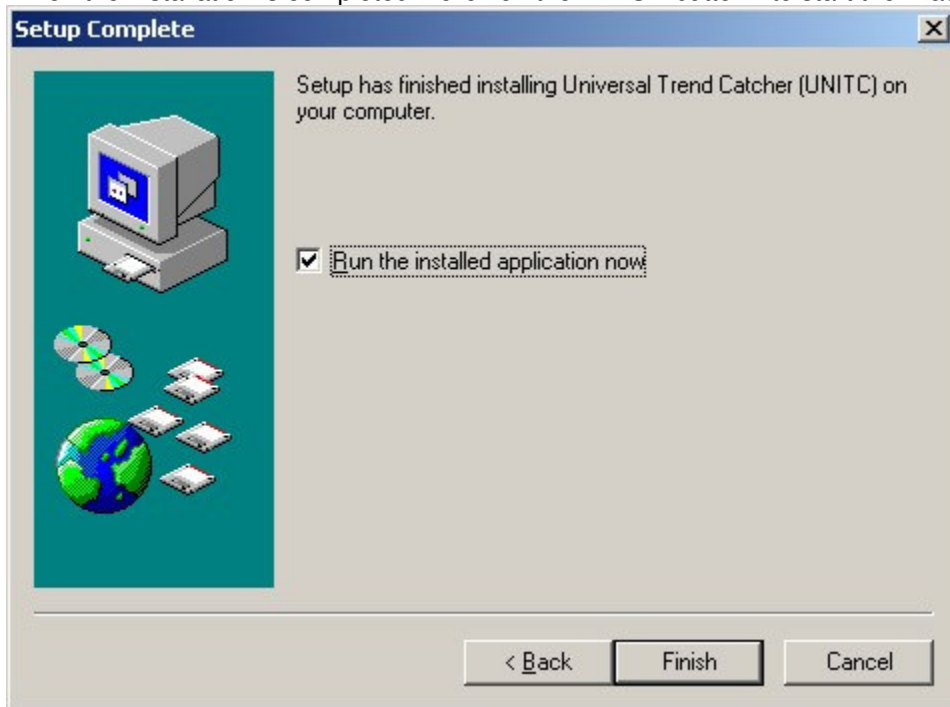
Confirm the settings - click again the NEXT button



and UNITRDES will be finally installed ... showing you the progress

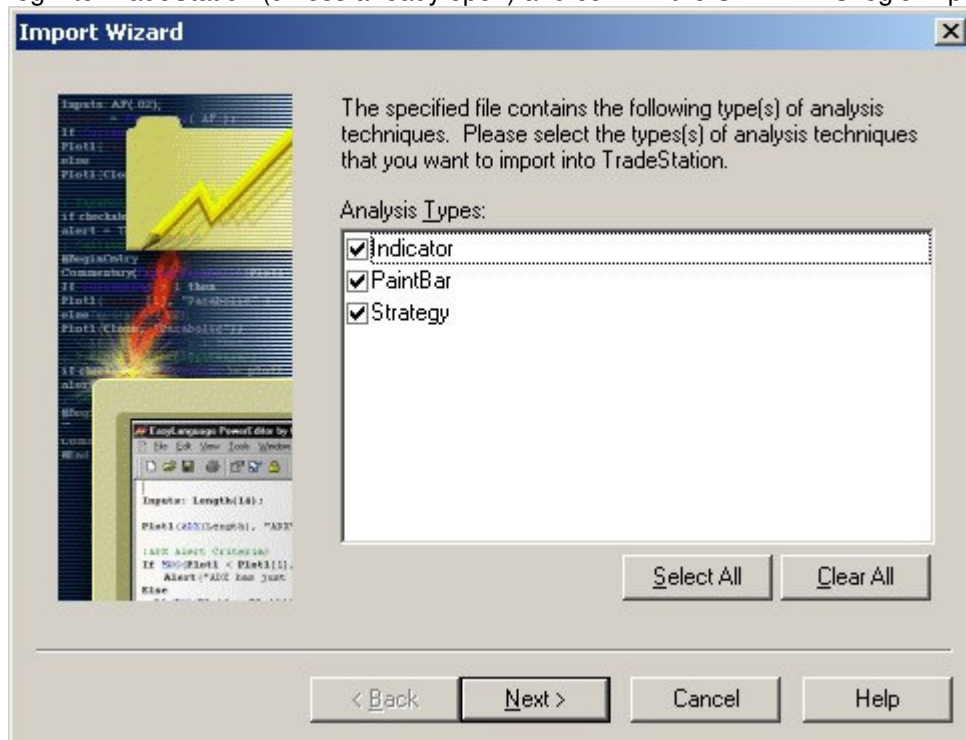


When the installation is completed – click on the FINISH button - to start the TradeStation logic import

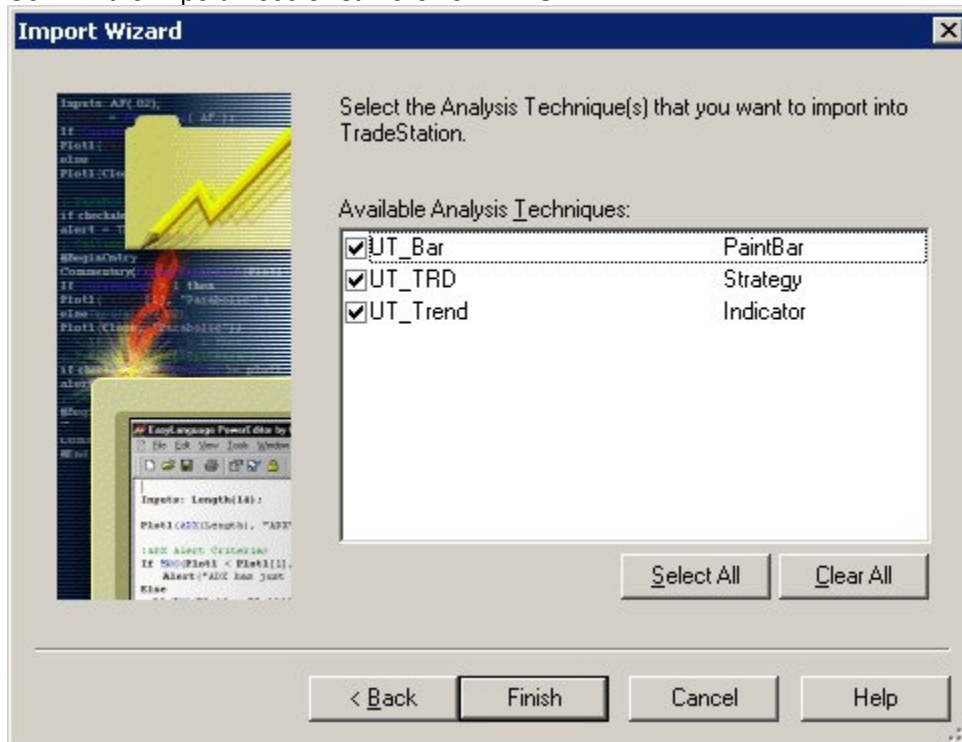


Tradestation Import

Login to TradeStation (unless already open) and confirm the UNITRDES logic import – click on NEXT



Confirm the import module list – click on FINISH:



Opening your first Trend Sample

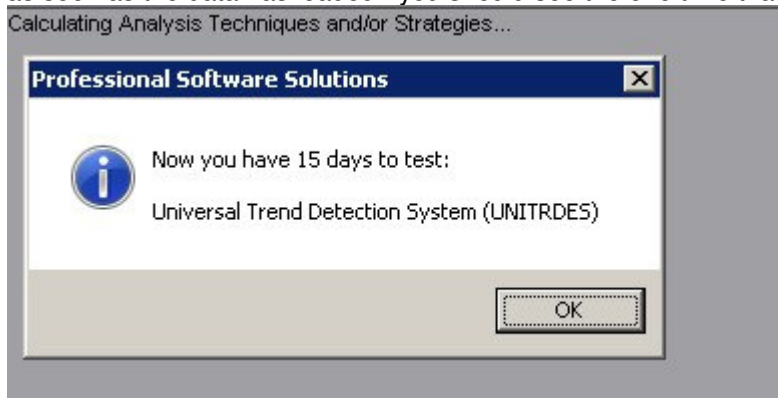
Now you can open the first UNITRDES Sample file.

Click on Start/Programs and find the new “Universal Trend Detection (UNITRDES)” entry then select your sample - for example the “USO Oil Daily Sample1”:

(If you do not have the appropriate datafeed – then select a different sample)



as soon as the data has loaded - you should see the one time trial confirmation – click OK:



And the USO Daily Sample1 chart should appear:



Now you are ready to use the “Universal Trend Detection (UNITRDES)” system.

What is a Trend?

Here is the definition from Wikipedia - http://en.wikipedia.org/wiki/Market_trends

“Market trends are described as sustained movements in market prices over a period of time.”

The “Universal Trend Detection (UNITRDES)” allows you to detect a trend in real-time.

You can customize the “period of time” with the UTScope parameter - as the number of bars to be used.

You can customize also the detection of the “sustained movement” with the UTStep parameter – see below.

A trend movement is rarely completely smooth and unchallenged.

Usually the trend will experience a secondary counter trend, before it resumes again.

Finally the trend will have exhausted itself and either transition into a neutral sideways period or a new counter trend will start. As you can see a “trend” is not a very precise mathematical formula, that’s why we give you several parameters to adjust the trend detection to your preferences – see below!

Here is an example (USO Oil July to Oct 2007):



The “period of time” used here is 40 bars (UTScope=40) and strong sensitivity (UTStep=80)

Universal Trend Detection - Sample Charts

We have provides several chart samples for the different markets and timeframes to demonstrate the power and versatility of the “Universal Trend Detection System”.

Each sample can be accessed from the menu: Start/Programs/Universal Trend Detection:



Or downloaded from: <http://profsoftware.com/trend/home.htm#Samples>

Downloading sample workspaces

Click on the links below (after you install UNITRDES) to open the sample workspaces:

[GOOG Stock 30Minute Intraday Sample](#)

[AAPL Stock 30Minute Intraday Sample \(AAPL I30\)](#)

[USO ETF Daily Sample1 \(USO D1\)](#)

[SPY ETF Daily Sample \(SPY D\)](#)

[XLF ETF 15Minute Intraday Sample \(XLF I15\)](#)

[FOREX EURUSD 30Min Intraday Sample \(EUR I30\)](#)

[ES SP500 eMini Futures 5Minute Intraday Sample \(ES I5\)](#)

[Euro Futures 3Minute Intraday Sample \(EC I5\)](#)

[EC Futures 15Minute Intraday Sample \(EC I15\)](#)

[Crude3 Oil Mini Futures 5Minute Intraday Sample \(QM I5\)](#)

[10Year Treasury Futures 5Minute Intraday Sample \(TY I5\)](#)

[USO ETF Daily Sample2 \(USO D2\)](#)

DISCLAIMER:

Futures, stocks, and spot currency trading have large potential rewards, but also large potential risk. You must be aware of the risks and be willing to accept them in order to invest in the futures, stocks, and forex markets. Don't trade with money you can't afford to lose. This system is neither a solicitation nor an offer to Buy/Sell futures, stocks or forex. No representation is being made that any account will or is likely to achieve profits or losses similar to those presented here.

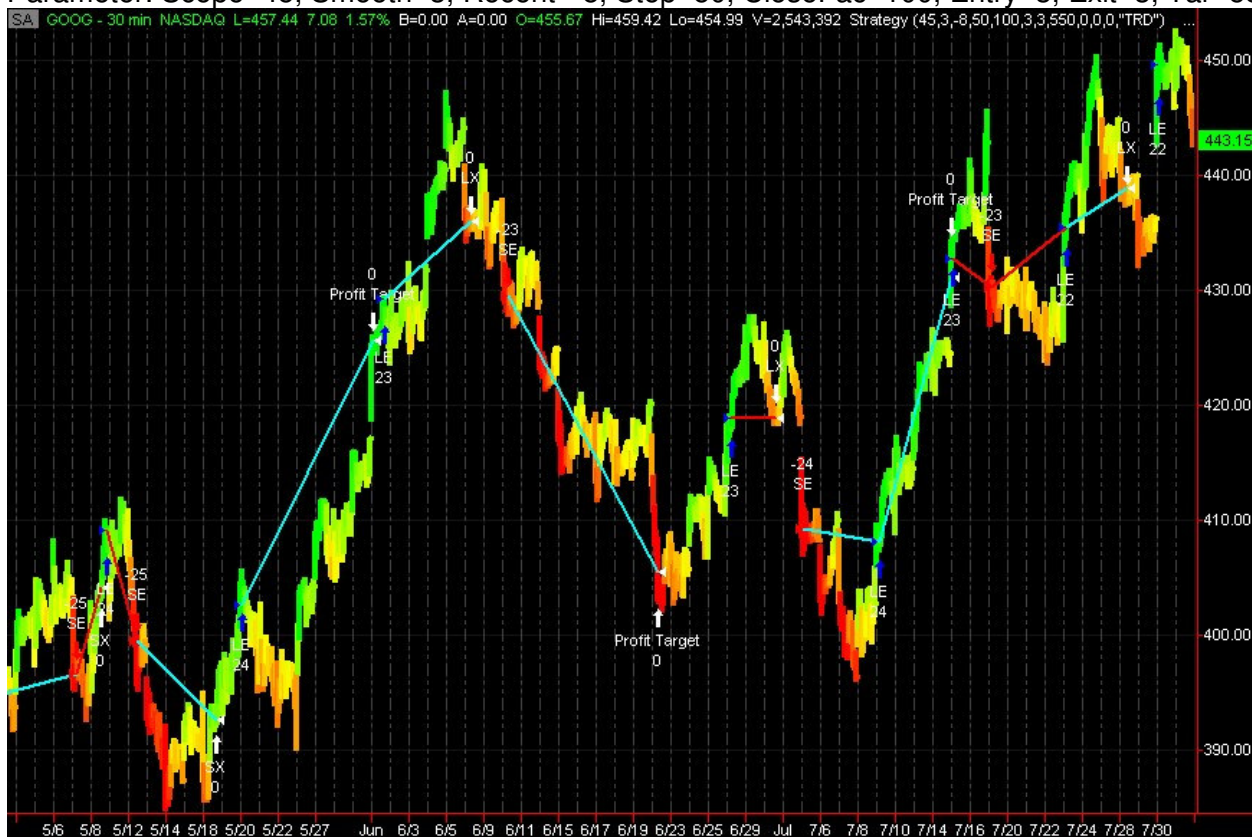
Past performance of indicators or methodology are not necessarily indicative of future results.

CFTC RULE 4.41 - HYPOTHETICAL OR SIMULATED PERFORMANCE RESULTS HAVE CERTAIN LIMITATIONS. UNLIKE AN ACTUAL PERFORMANCE RECORD, SIMULATED RESULTS DO NOT REPRESENT ACTUAL TRADING. ALSO, SINCE THE TRADES HAVE NOT BEEN EXECUTED, THE RESULTS MAY HAVE UNDER-OR-OVER COMPENSATED FOR THE IMPACT, IF ANY, OF CERTAIN MARKET FACTORS, SUCH AS LACK OF LIQUIDITY. NO REPRESENTATION IS BEING MADE THAT ANY ACCOUNT WILL OR IS LIKELY TO ACHIEVE PROFIT OR LOSSES SIMILAR TO THOSE SHOWN.

GOOG Stock 30Minute Intraday Sample (GOOG_I30)

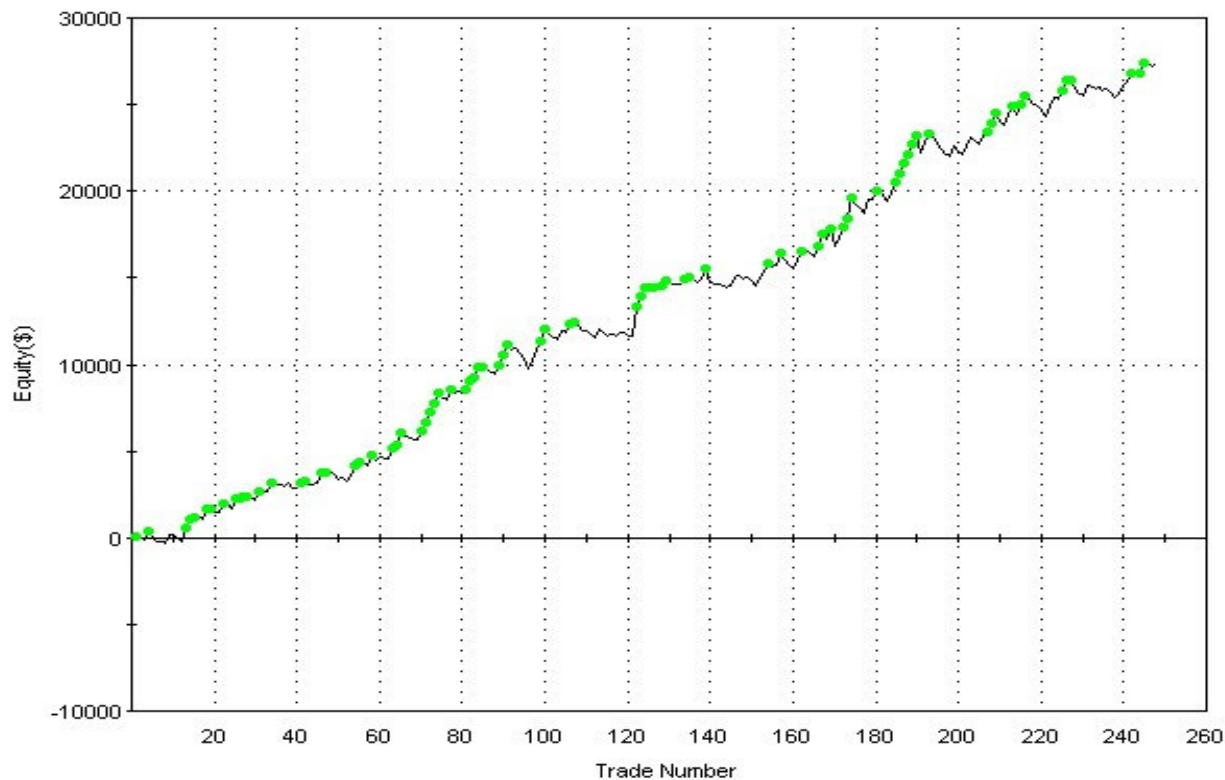
Loads 12,001 bars from July 31st, 2009:

Parameter: Scope=45, Smooth=3, Recent=-8, Step=50, CloseFac=100, Entry=3, Exit=3, Tar=550

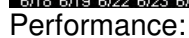


Performance:

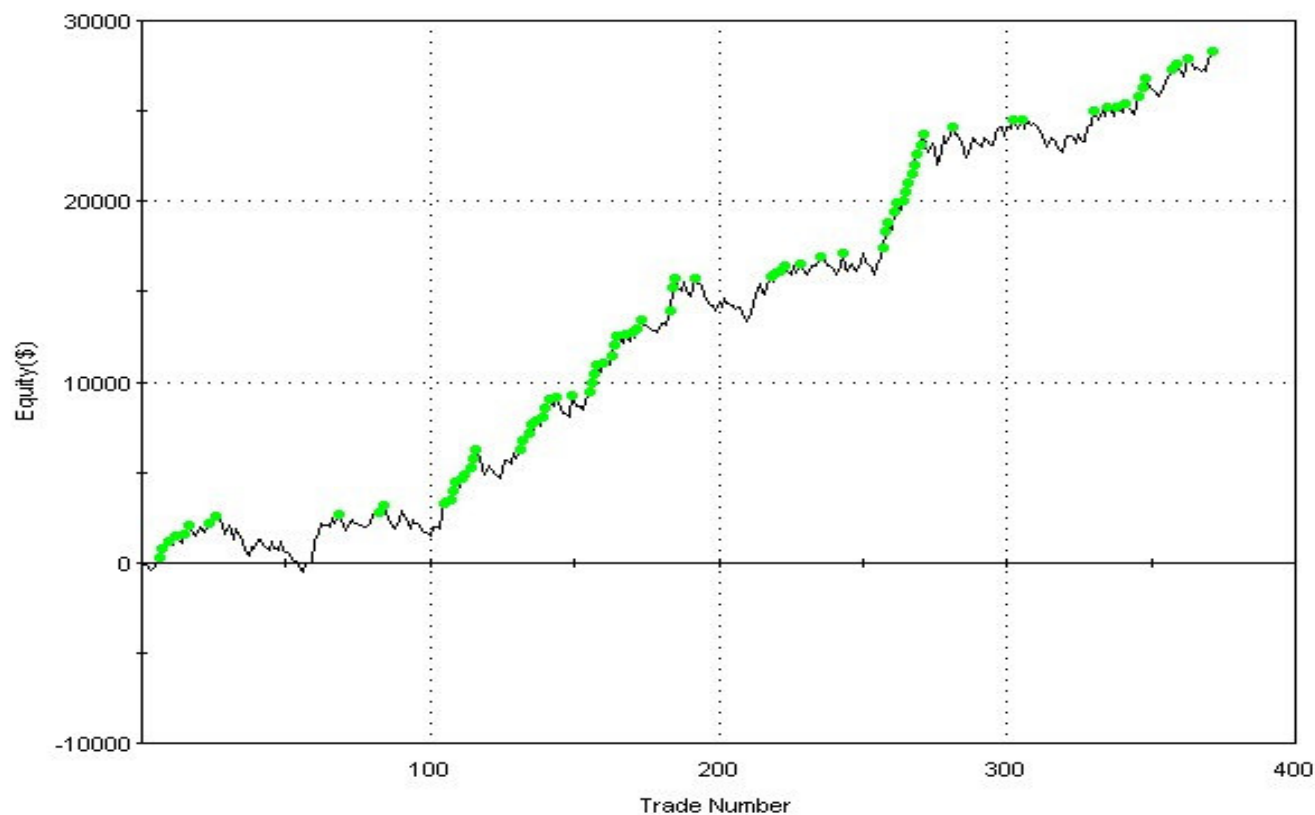
Equity Curve Line - GOOG 30 min(08/09/06 14:30 - 07/31/09 16:00)



Parameter: Scope=160, Smooth=1, Recent=-10, Step=60, CloseFac=100, Entry=3, Exit=2, Tar=500



Equity Curve Line - AAPL 30 min(11/22/05 10:30 - 07/31/09 16:00)



USO ETF Daily Sample1 (USO_D1)

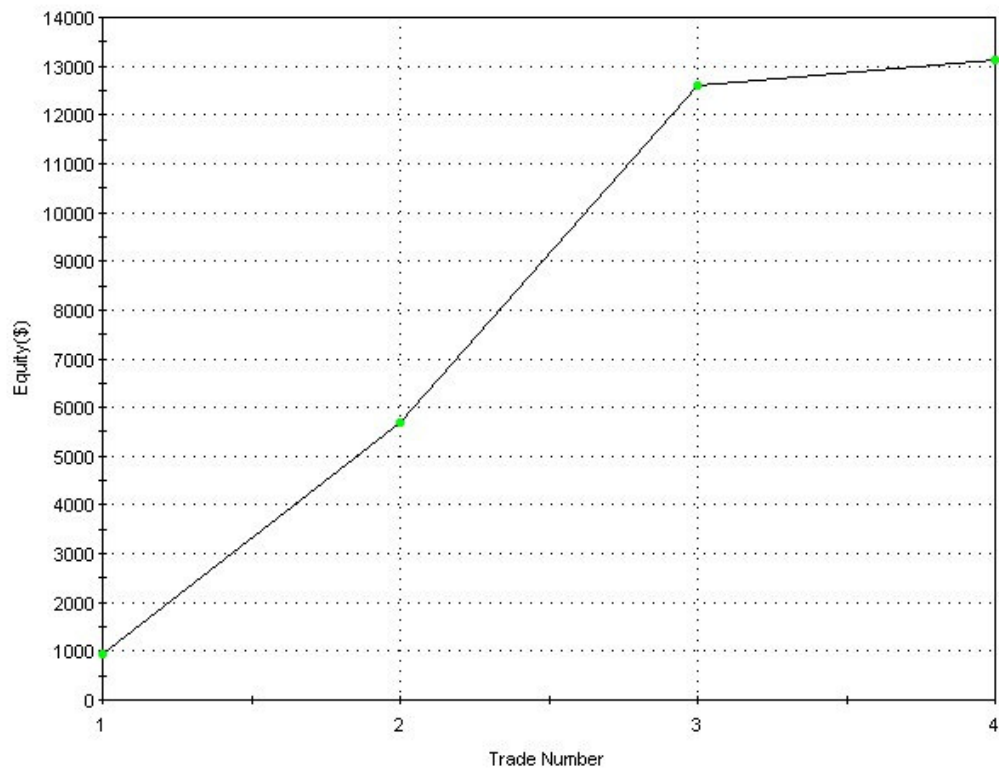
Loads 4 years from July, 2009 and trades more frequently:

Parameter: Scope=40, Smooth=1, Recent=2, Step=80, CloseFac=100, Entry=2, Exit=3, Tar=0



Performance:

Equity Curve Line - USO Daily(04/10/06 16:00 - 08/07/09 16:00)



SPY ETF Daily Sample (SPY_D)

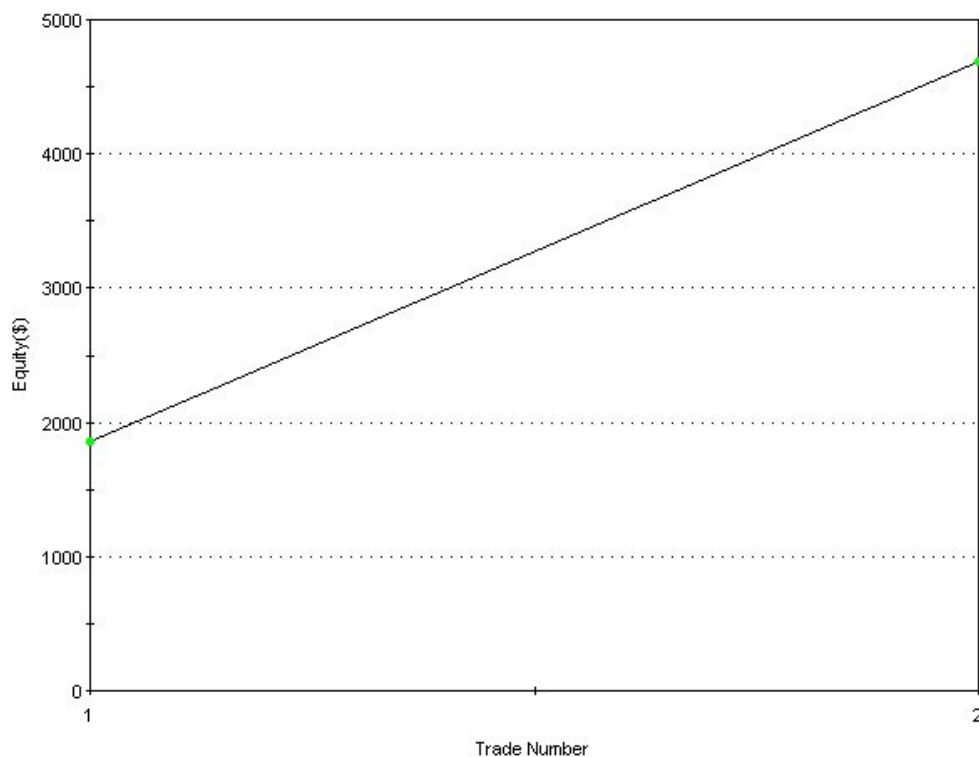
Loads Oct 2003 to July, 2009 and trades on major trend changes:

Parameter: Scope=200, Smooth=1, Recent=10, Step=115, CloseFac=100, Entry=2, Exit=2, Tar=0



Performance:

Equity Curve Line - SPY Daily(10/01/03 16:00 - 08/07/09 16:00)



XLF ETF 15Minute Intraday Sample (XLF_I15)

Loads 10,001 bars from July 16th, 2009:

Parameter: Scope=30, Smooth=3, Recent=2, Step=40, CloseFac=100, Entry=2, Exit=2, Tar=500



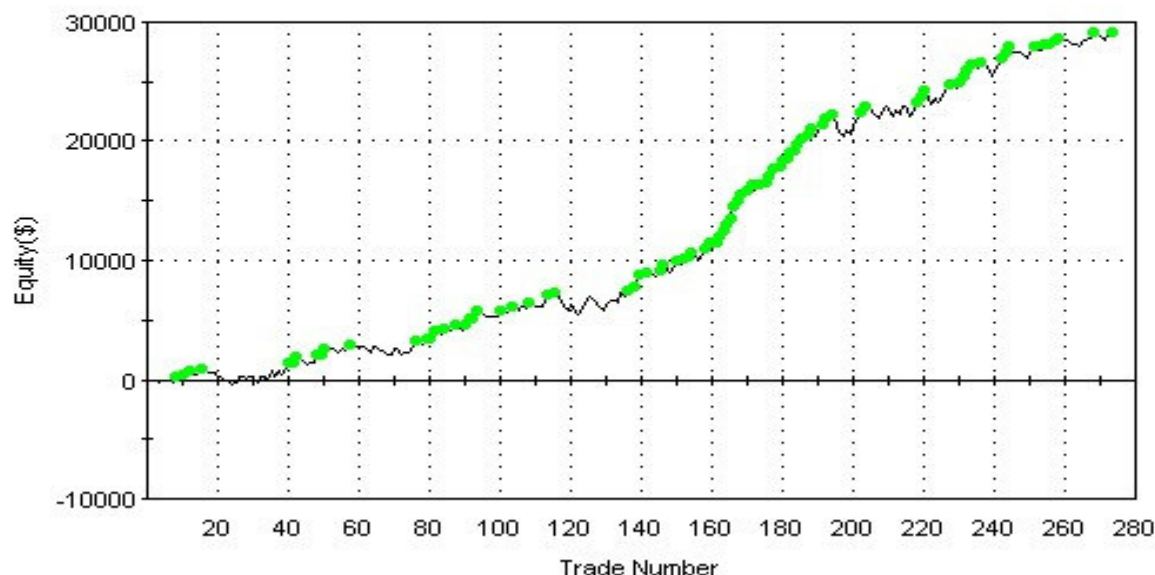
In this sample we used a custom ColorNeutral:

| | |
|--------------|------------------|
| ColorUp | Green |
| ColorNeutral | RGB(189,230,225) |
| ColorDown | Red |

To view the equity curve of this(any) chart – click on View/Strategy Performance Report:

Equity Curve Line

Equity Curve Line - XLF 15 min(01/02/08 14:15 - 07/16/09 16:00)



FOREX EURUSD 30Min Intraday Sample (EUR_I30)

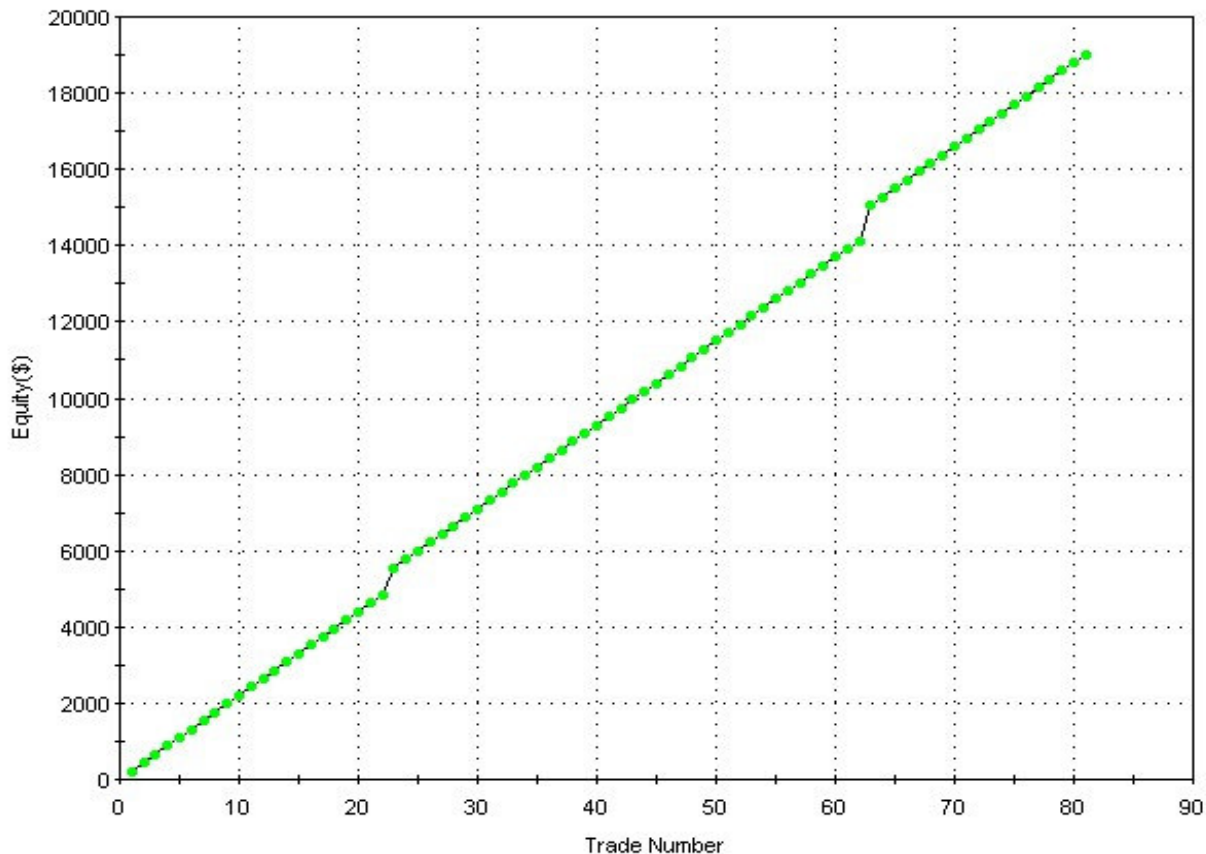
Loads Oct 2008 to June 6th, 2009:

Parameter: Scope=100, Smooth=1, Recent=-10, Step=120, CloseFac=100, Entry=3, Exit=8, Tar=220



Performance:

Equity Curve Line - EURUSD 30 min(09/30/08 17:30 - 06/05/09 16:59)



ES SP500 eMini Futures 5Minute Intraday Sample (ES_I5)

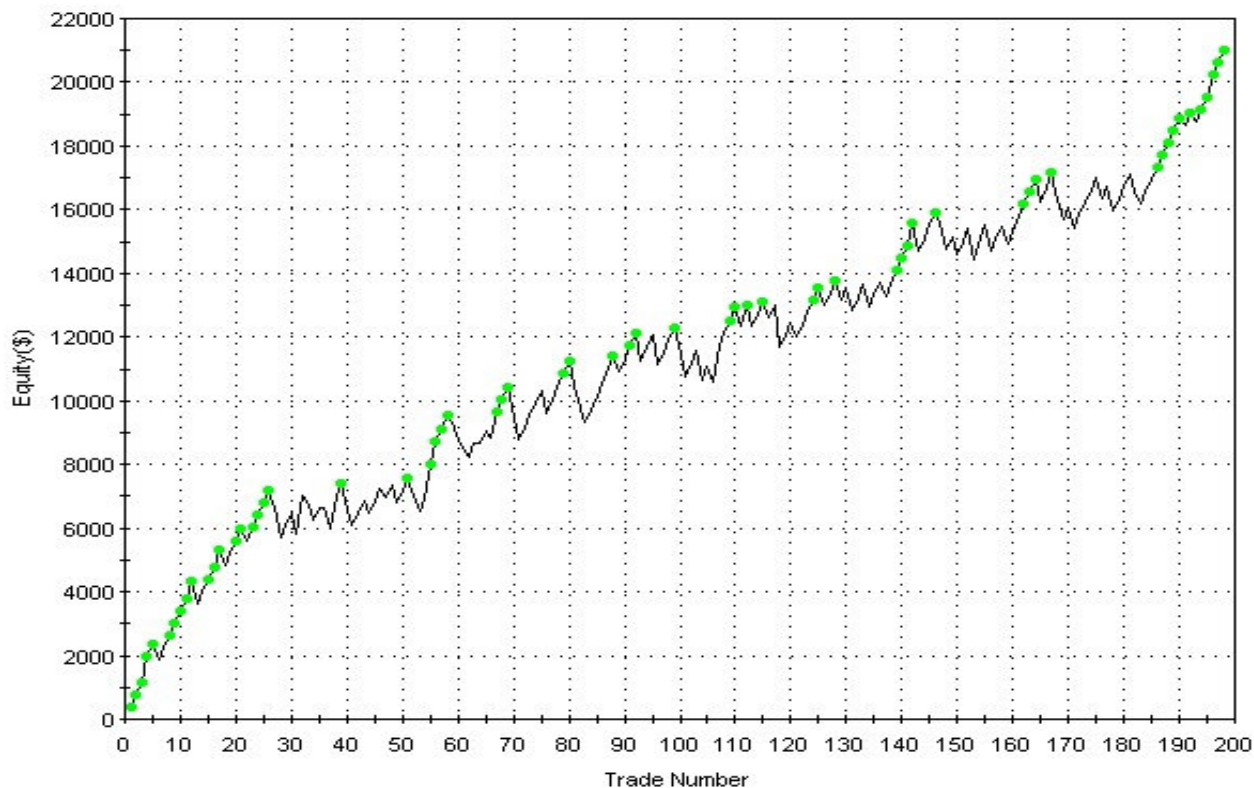
Loads 10,000 bars from July 18th, 2009:

Parameter: Scope=100, Smooth=3, Recent=-10, Step=80, CloseFac=200, Entry=2, Exit=6, Tar=400



Performance:

Equity Curve Line - @ES.D 5 min(01/21/09 12:10 - 07/17/09 15:15)



Euro Futures 5Minute Intraday Sample (EC_I5)

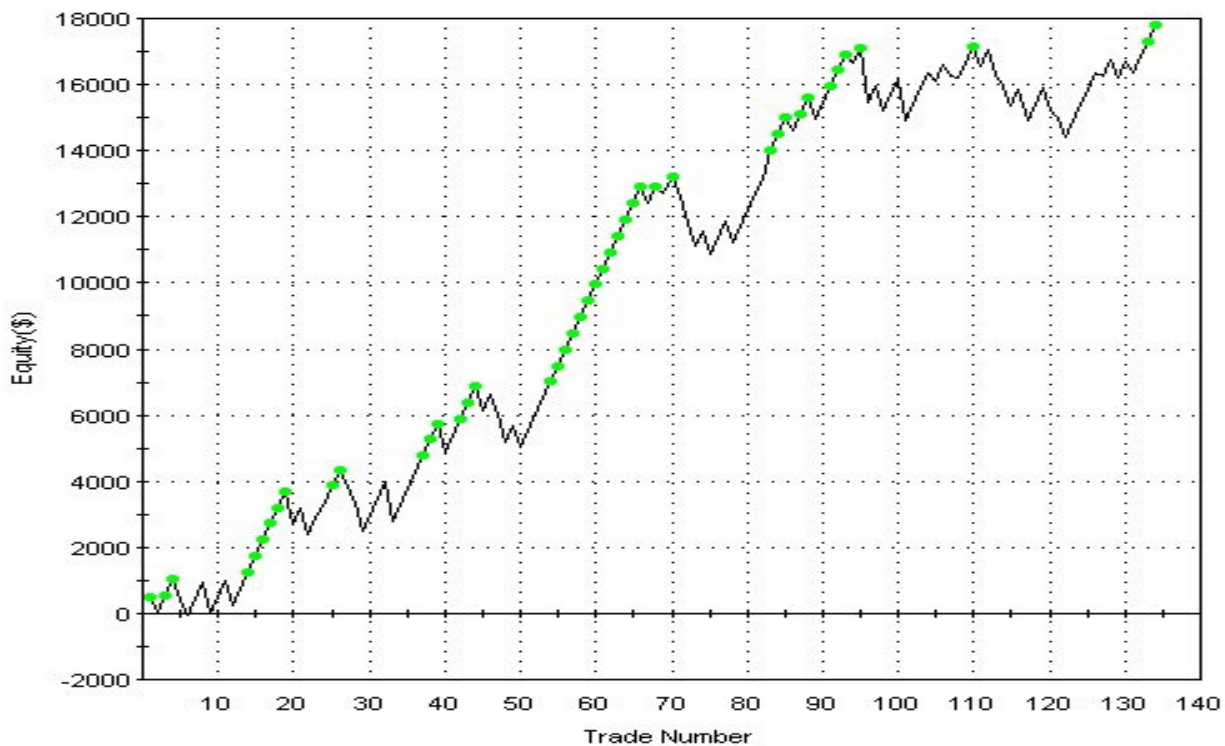
Loads 12,001 bars from July 31st, 2009:

Parameter: Scope=60, Smooth=1, Recent=-10, Step=140, CloseFac=100, Entry=2, Exit=3, Tar=500



Performance:

Equity Curve Line - @EC 5 min(06/01/09 21:00 - 07/31/09 16:00)



EC Futures 15Minute Intraday Sample (EC_I15)

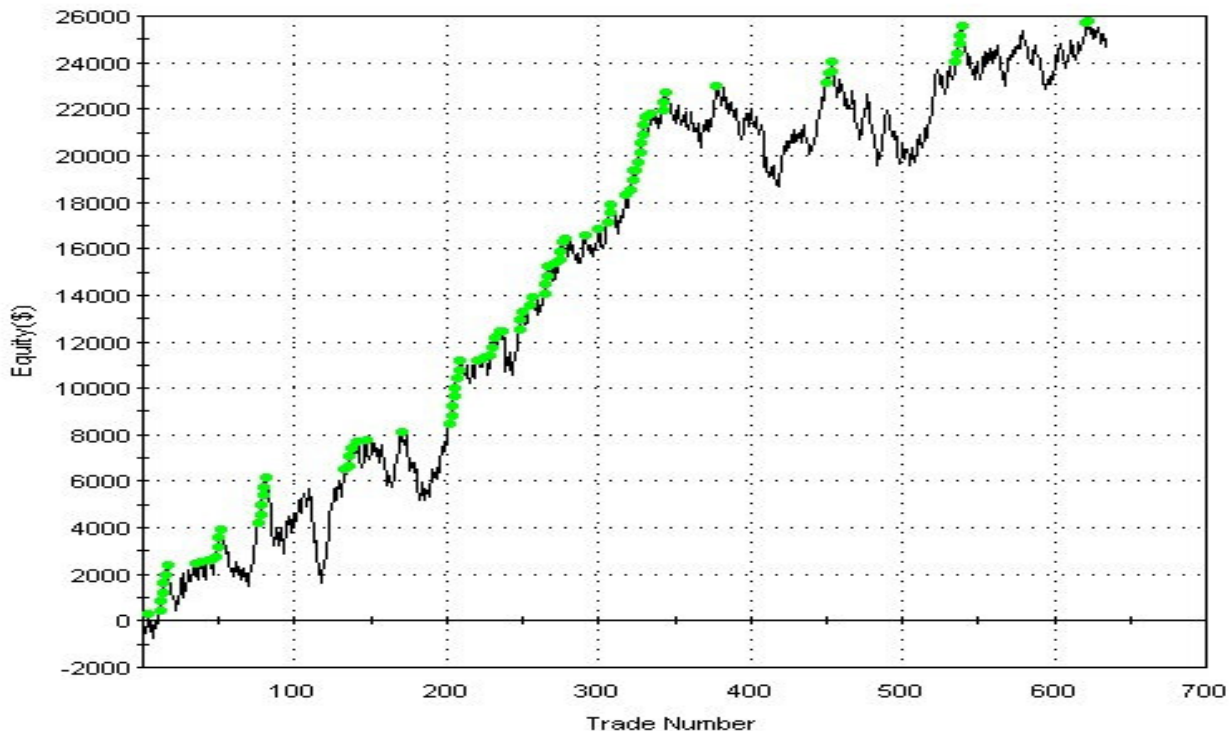
Loads 10,001 bars from July 31st, 2009:

Parameter: Scope=60, Smooth=3, Recent=-6, Step=24, CloseFac=100, Entry=2, Exit=3, Tar=400



Performance:

Equity Curve Line - @EC 15 min(02/27/09 11:15 - 07/31/09 16:00)



Crude Oil Mini Futures 5Minute Intraday Sample (QM_I5)

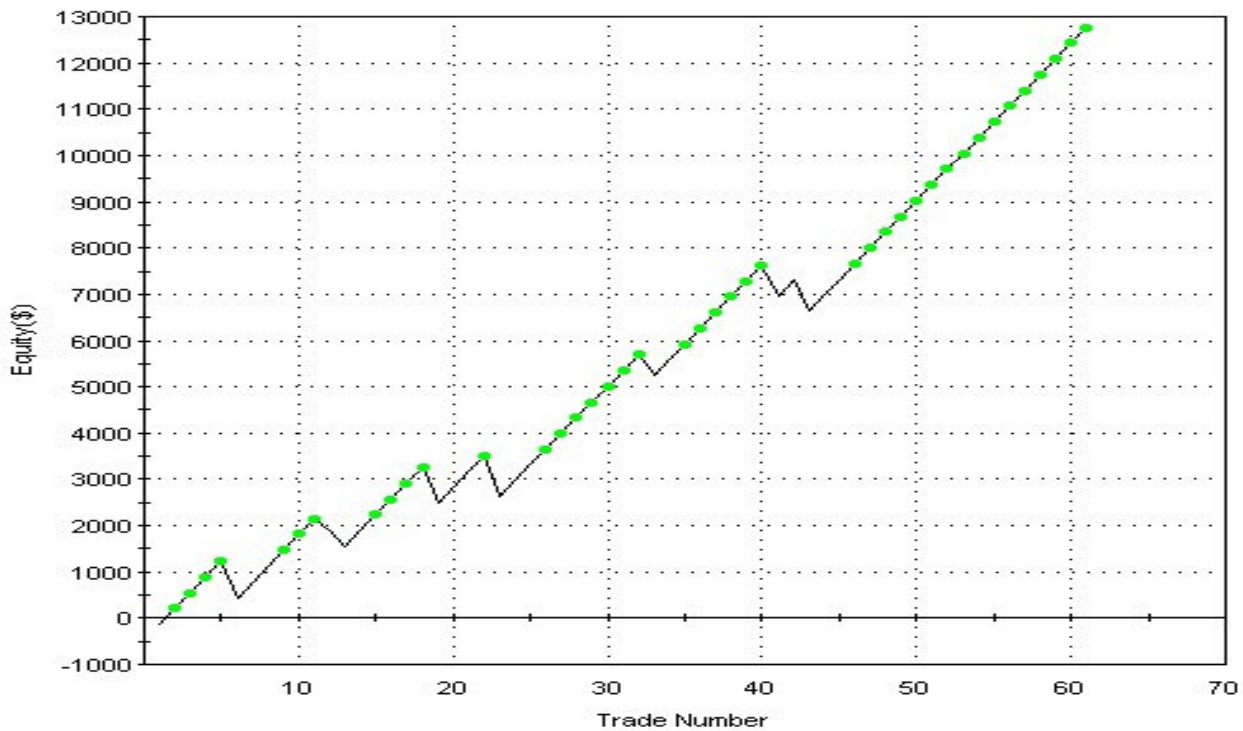
Loads 12,001 bars from Aug 2nd, 2009:

Parameter: Scope=40, Smooth=1, Recent=-9, Step=160, CloseFac=100, Entry=3, Exit=4, Tar=350



Performance:

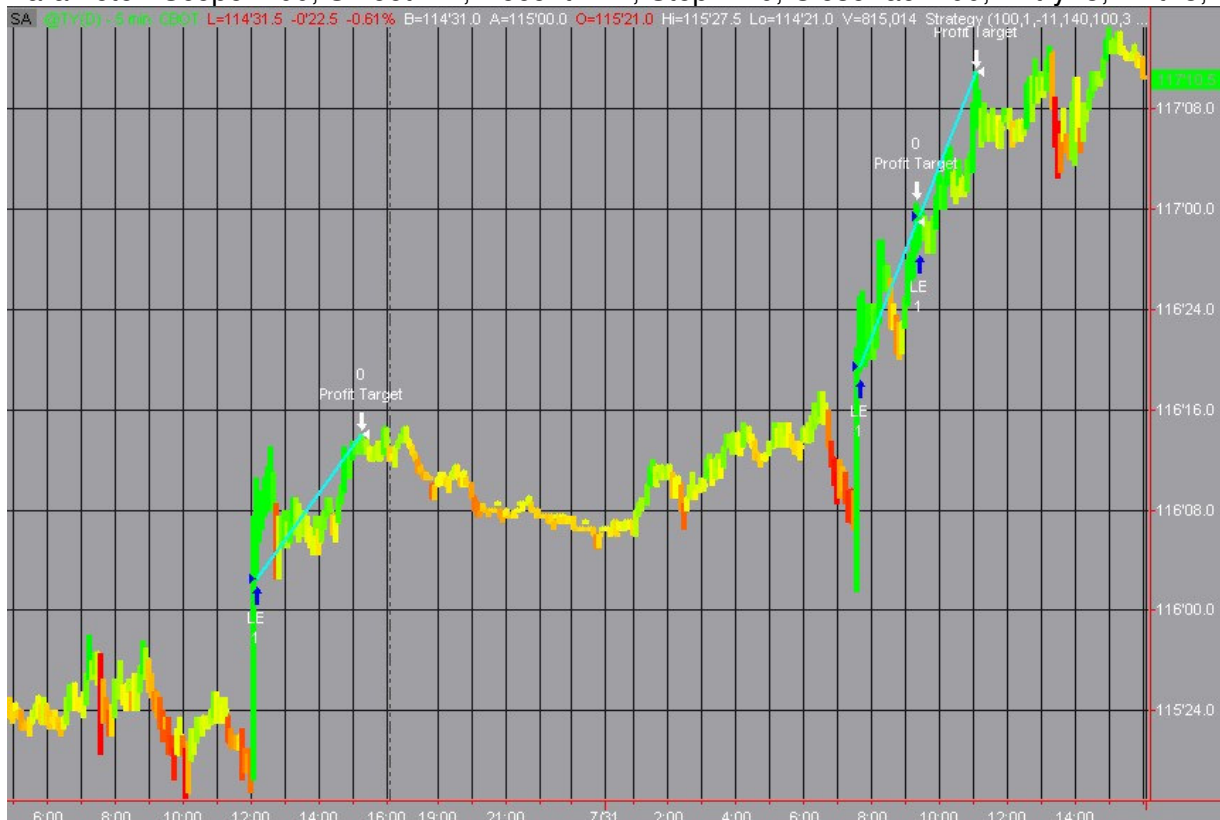
Equity Curve Line - @QM 5 min(05/29/09 04:15 - 08/03/09 17:15)



10Year Treasury Futures 5Minute Intraday Sample (TY_I5)

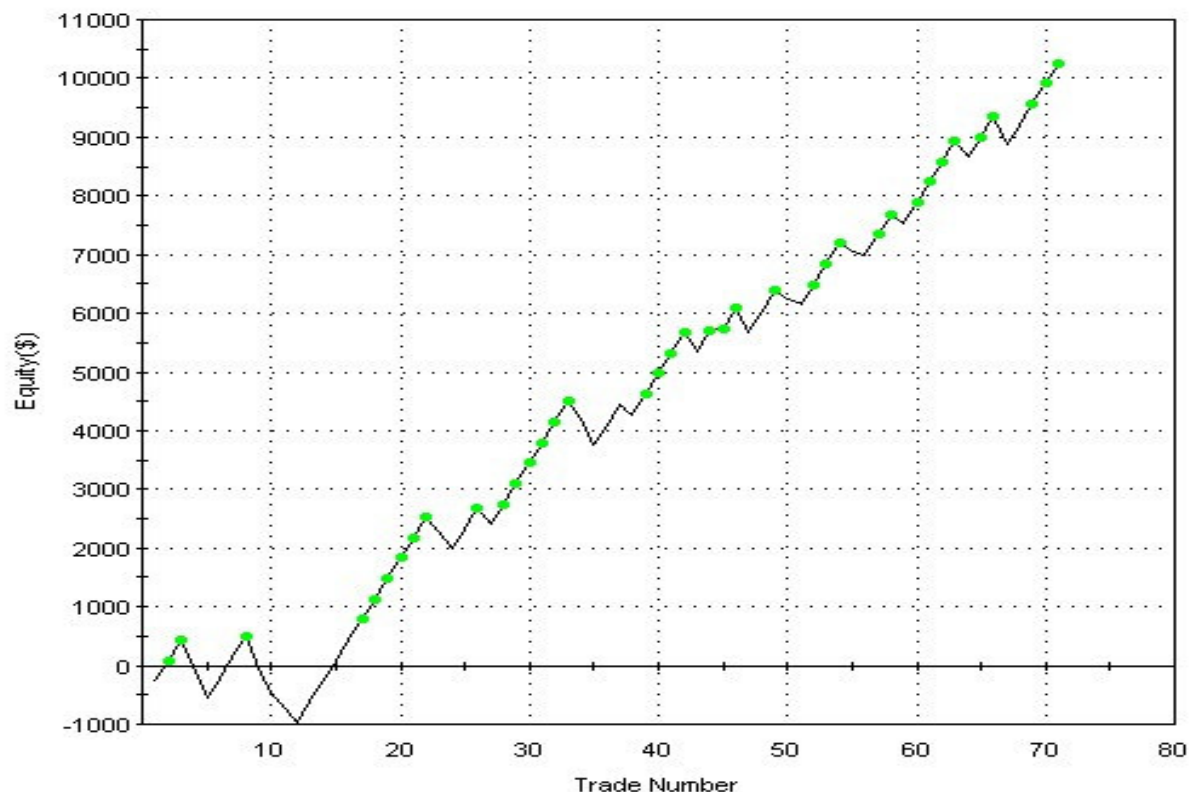
Loads 12,001 bars from July 31st, 2009:

Parameter: Scope=100, Smooth=1, Recent=-11, Step=140, CloseFac=100, Entry=3, Exit=3, Tar=350



Performance:

Equity Curve Line - @TY 5 min(05/29/09 12:45 - 07/31/09 16:00)



USO ETF Daily Sample2 (USO_D2)

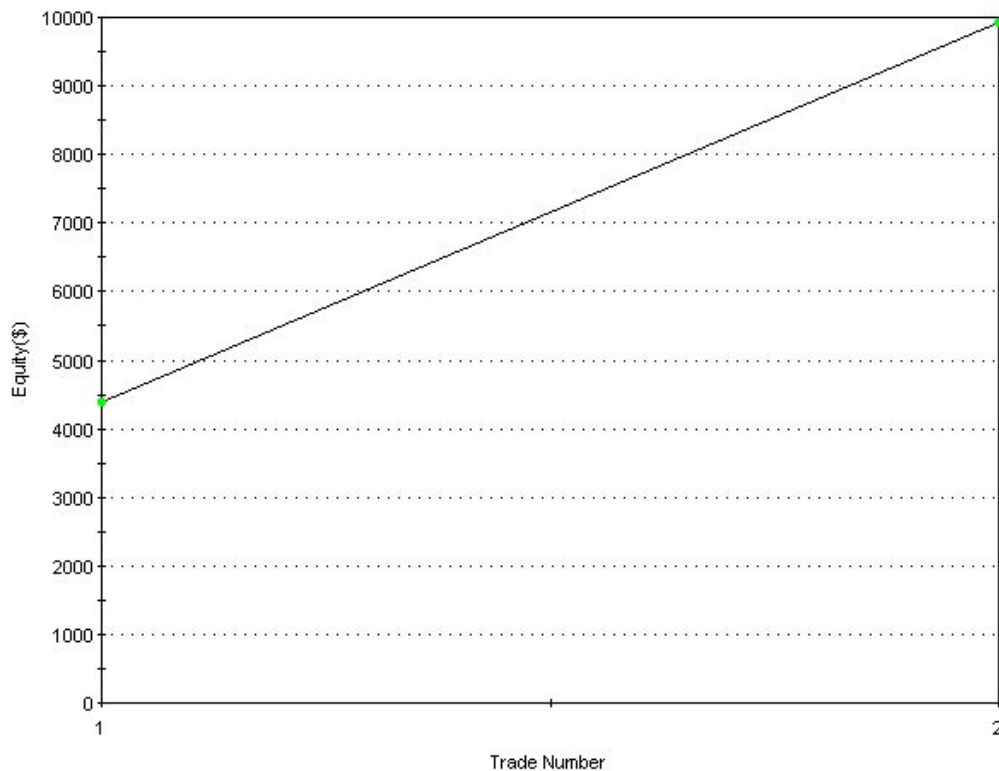
Loads 4 years from July, 2009 and trades on major trend changes:

Parameter: Scope=120, Smooth=2, Recent=9, Step=40, CloseFac=100, Entry=2, Exit=2, Tar=0



Performance:

Equity Curve Line - USO Daily(10/02/06 16:00 - 08/07/09 16:00)



Trend Scope Parameter (UTScope)

In order to detect a trend the system has to “look back” a certain period of time (number of bars)!

UNITRDES allows you to adjust this period with the “UTScope” parameter.

The range of the scope is usually between 20 and 200 bars.

Short periods (less than 40 bars) react very quickly, but can give a few “false alarms”, while long periods (more than 80 bars) take some time to respond, but than the trend is usually “more solid”.

Trend Strength Detection (Trend Stages)

The system can detect not only the trend direction, but also the STRENGTH of the trend!

It will “grade” the strength of the trend between 1(weak) and 5(very strong);

just like the speed in a car relates to the gear you are driving:



Up trends are indicated with the positive stages (+1 to +5) - down trends with the negative stages (-1 to -5):

| Grade | Trend | Strength |
|--------|---------|--|
| +5 | Up | Very strong up trend (max up strength grade limited to +5) |
| +3, +4 | Up | Strong up trend |
| +2, +1 | Up | Slight – possible start of an up trend |
| 0 | Neutral | No trend yet detected |
| -2, -1 | Down | Slight – possible start of a down trend |
| -4, -3 | Down | Strong down trend |
| -5 | Down | Very strong down trend (max down strength grade limited to -5) |

Giving you a total of 11 stages (5 + 1 + 5).

You can adjust the sensitivity – how easy or hesitant – it notches up and down

the 11 trend grades shown above - with the UTStep parameter.

You can see the strength in the “Trend Indicator” and with the depth of the color in the painted bar color.

Trend Sensitivity Parameter (UTStep)

This sensitivity parameter allows you to adjust how quick the system will transition from neutral to the up (or down) trend stages.

The range of the sensitivity is usually between 20 and 200, which 20 being VERY sensitive and 200 needing a lot of confirmation.

Core Trend Parameters

The following parameters are identical to all three UNITRDES modules:

- paint bar coloring showing the current market conditions and trend in real-time - using a proprietary continuous coloring scheme (UT_Bars)
- Automated Trading System (UT_TRD)
- Evaluating the trend strength and duration with additional available indicators (UT_Trend)

They can easily be adjusted for best performance in your specific market and timeframe.

UNITRDES is using advanced proprietary statistical models to detect trends, but keeps the implementation as simple as possible, since usually in trading “simple is better”. UNITRDES will apply its calculations and statistics to the “lookback” period you define.

For example period of 50 (UTScope=50) would use the last 50 bars back from the current bar.

The general UNITRDES parameter are:

The general UNITRDES parameters are:

| Name | Default | Description | Range | | | | | | | | | | | | |
|------------|--|--|---------|-------------|-------------|--|--------------|---|-----|---|---------------|---|--------------------|--|----------|
| UTScope | 40 | Defines the “scope” of the lookback range: how many bars back is UNITRDES considering in the calculations | 3...999 | | | | | | | | | | | | |
| UTSmooth | 1 | Defines the how much smoothing should be applied: <table><tr><th>Value</th><th>Effect</th><th>Description</th></tr><tr><td>1</td><td>no smoothing</td><td>fast response, but maybe signals too early</td></tr><tr><td>2,3</td><td>slight smoothing</td><td>good response</td></tr><tr><td>4+</td><td>stronger smoothing</td><td>best signals with some delay</td></tr></table> | Value | Effect | Description | 1 | no smoothing | fast response, but maybe signals too early | 2,3 | slight smoothing | good response | 4+ | stronger smoothing | best signals with some delay | 1...99 |
| Value | Effect | Description | | | | | | | | | | | | | |
| 1 | no smoothing | fast response, but maybe signals too early | | | | | | | | | | | | | |
| 2,3 | slight smoothing | good response | | | | | | | | | | | | | |
| 4+ | stronger smoothing | best signals with some delay | | | | | | | | | | | | | |
| UTRecent | 2 | Defines how much emphasis is on the most recent data within the lookback range defined in UTScope: <table><tr><th>Value</th><th>Description</th></tr><tr><td>+10</td><td>strong emphasis on the most recent bars in the lookback range</td></tr><tr><td>+4</td><td>Slight emphasis on the most recent bars in the lookback range</td></tr><tr><td>-10</td><td>strong emphasis on the earlier bars in the lookback range</td></tr></table> | Value | Description | +10 | strong emphasis on the most recent bars in the lookback range | +4 | Slight emphasis on the most recent bars in the lookback range | -10 | strong emphasis on the earlier bars in the lookback range | -20...+20 | | | | |
| Value | Description | | | | | | | | | | | | | | |
| +10 | strong emphasis on the most recent bars in the lookback range | | | | | | | | | | | | | | |
| +4 | Slight emphasis on the most recent bars in the lookback range | | | | | | | | | | | | | | |
| -10 | strong emphasis on the earlier bars in the lookback range | | | | | | | | | | | | | | |
| UTStep | 80 | Defines the sensitivity to notch up and down the trend grades: <table><tr><th>Value</th><th>Description</th></tr><tr><td>20</td><td>Very sensitive – very “trigger happy” to notch up and down the scale</td></tr><tr><td>40</td><td>Fairly sensitive to trend changes</td></tr><tr><td>60</td><td>Medium sensitive to trend changes</td></tr><tr><td>80</td><td>Needs some significant strength to notch up and down the grades</td></tr><tr><td>200</td><td>Needs a lot of strength to notch up and down</td></tr></table> | Value | Description | 20 | Very sensitive – very “trigger happy” to notch up and down the scale | 40 | Fairly sensitive to trend changes | 60 | Medium sensitive to trend changes | 80 | Needs some significant strength to notch up and down the grades | 200 | Needs a lot of strength to notch up and down | 20...999 |
| Value | Description | | | | | | | | | | | | | | |
| 20 | Very sensitive – very “trigger happy” to notch up and down the scale | | | | | | | | | | | | | | |
| 40 | Fairly sensitive to trend changes | | | | | | | | | | | | | | |
| 60 | Medium sensitive to trend changes | | | | | | | | | | | | | | |
| 80 | Needs some significant strength to notch up and down the grades | | | | | | | | | | | | | | |
| 200 | Needs a lot of strength to notch up and down | | | | | | | | | | | | | | |
| UTCloseFac | 100 | Defines how much emphasis is given to the closing price of the last bar: <table><tr><th>Value</th><th>Description</th></tr><tr><td>0</td><td>Closing price is not considered</td></tr><tr><td>50</td><td>Closing price is considered 50%</td></tr><tr><td>100</td><td>Closing price is considered with equally measure</td></tr><tr><td>200</td><td>Closing price is considered with double measure</td></tr><tr><td>900</td><td>Almost exclusively the closing price is considered</td></tr></table> | Value | Description | 0 | Closing price is not considered | 50 | Closing price is considered 50% | 100 | Closing price is considered with equally measure | 200 | Closing price is considered with double measure | 900 | Almost exclusively the closing price is considered | 0...999 |
| Value | Description | | | | | | | | | | | | | | |
| 0 | Closing price is not considered | | | | | | | | | | | | | | |
| 50 | Closing price is considered 50% | | | | | | | | | | | | | | |
| 100 | Closing price is considered with equally measure | | | | | | | | | | | | | | |
| 200 | Closing price is considered with double measure | | | | | | | | | | | | | | |
| 900 | Almost exclusively the closing price is considered | | | | | | | | | | | | | | |

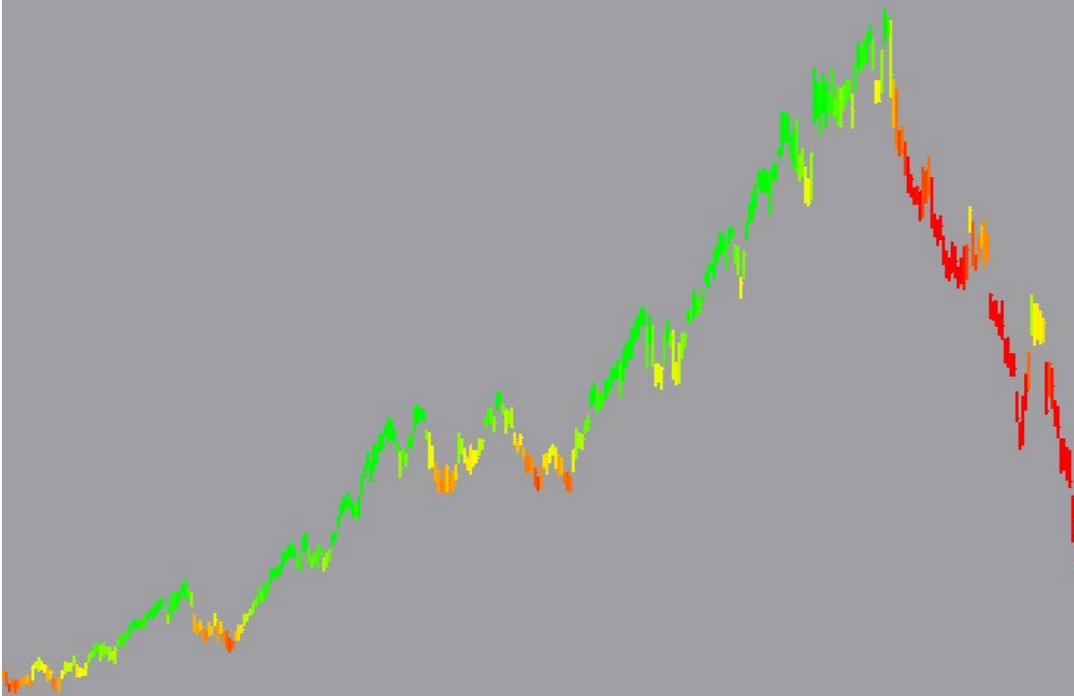
Trend Coloring in real-time

The “Universal Trend Detection (UNITRDES)” responds in real-time instantly to trend changes! We are using an intuitive and continuous coloring scheme to show you the trend.

You can customize the colors to your preference:

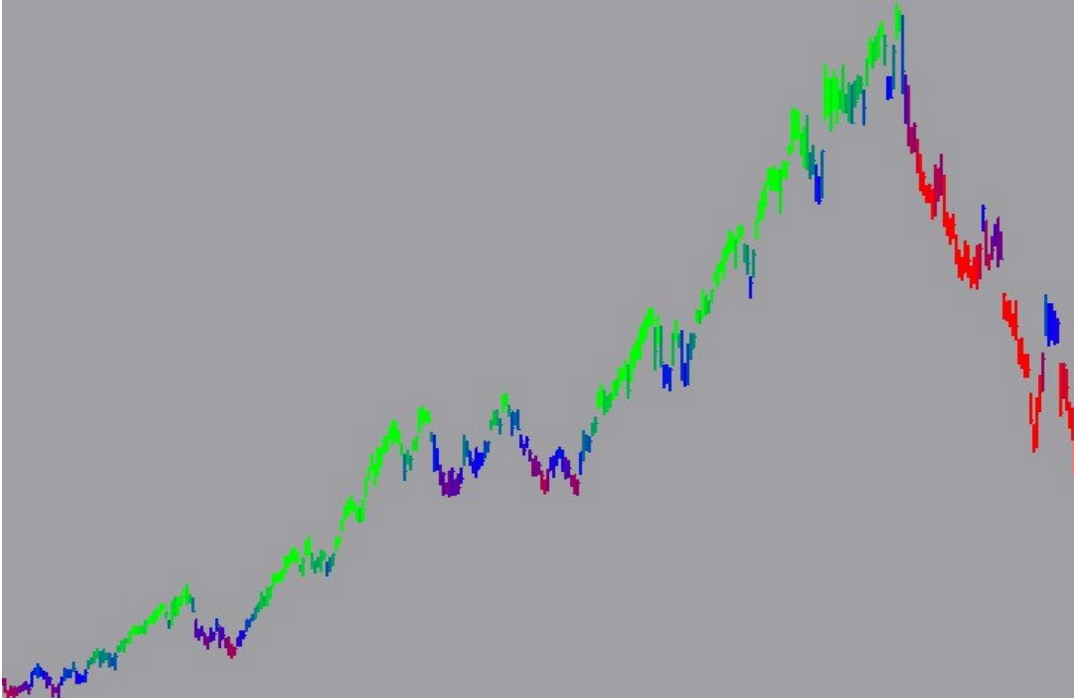
- **Green (trend up)**
- **Red (trend down)**
- **Yellow (no trend – neutral, sideways)**

Here is an example of the smooth continuous color transitions between the color “corner stones”:



Of course you can change the color preferences!

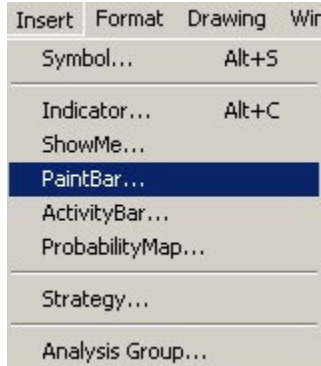
In the example below -we changed the color for the neutral trend from yellow to blue:



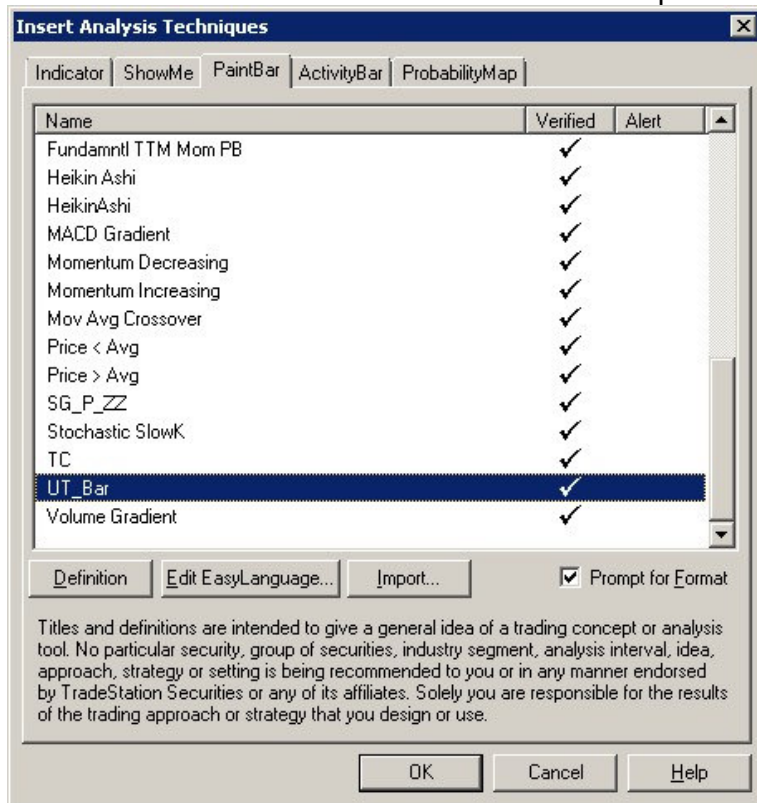
How to add trend coloring to your chart (PaintBar)

To add the “Universal Trend Detection (UNITRDES)” color module to your chart:

- Open your chart
- Select Insert/PaintBar:



- A list of available PaintBar studies will come up – select UT_Bar and click OK:



- To customize the trend and color settings; right click on the prices and select Format “UT_Bars”:



- Now you can change the trend calculation parameter and color parameter:

| | |
|--------------|--------|
| BarWidth | 2 |
| ColorUp | Green |
| ColorNeutral | Yellow |
| ColorDown | Red |

The “BarWidth” defines the thickness of the bar and can be between 0 and 6: 0=very thin, 6=very thick and all grades in between.

You can define any color in any of the three color settings – see below.

Trend Color Parameters

You can use any of the predefined colors available:

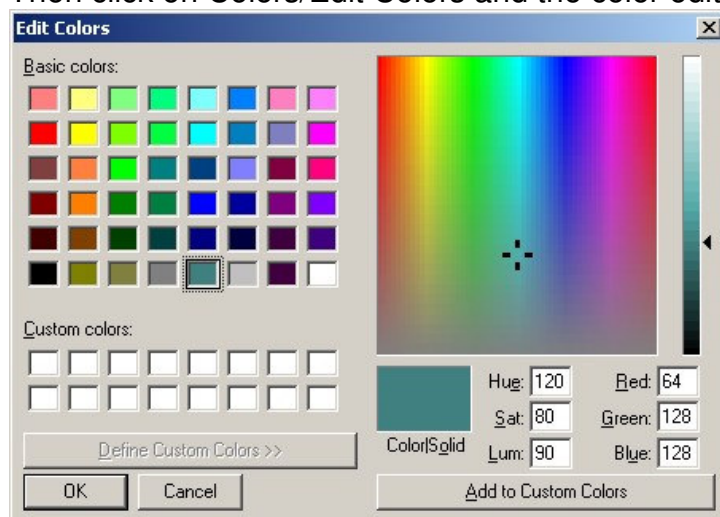
| Name | RGB Value | Number |
|-------------|-----------|--------|
| Black | 0 | 1 |
| Blue | 16711680 | 2 |
| Cyan | 16776960 | 3 |
| Green | 65280 | 4 |
| Magenta | 16711935 | 5 |
| Red | 255 | 6 |
| Yellow | 65535 | 7 |
| White | 16777215 | 8 |
| DarkBlue | 8388608 | 9 |
| DarkCyan | 8421376 | 10 |
| DarkGreen | 32768 | 11 |
| DarkMagenta | 8388736 | 12 |
| DarkRed | 128 | 13 |
| DarkBrown | 32896 | 14 |
| DarkGray | 8421504 | 15 |
| LightGray | 12632256 | 16 |

You can also define your own custom color using the Red/Green/Blue components:

| | |
|--------------|----------------|
| ColorUp | RGB(0,255,0) |
| ColorNeutral | RGB(255,255,0) |
| ColorDown | RGB(255,0,0) |

RGB(0,255,0) means 0=Red, 255=Green, 0=Blue

To find the RGB values for your colors open "Paint: - Start/Run enter "mspaint" and click on ENTER
Then click on Colors/Edit Colors and the color editing tool appears – click on "Define Custom Color":



In this example:

Red=64, green=128, blue=128 - Enter RGB(64,128,128) in the value column:

RGB(64,128,128)

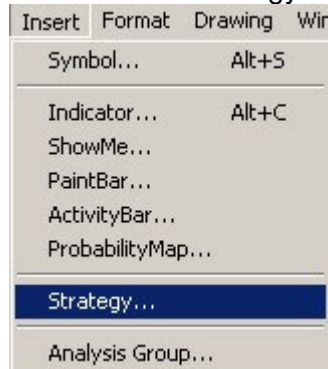
How to add the automated Trend Strategy to your chart

The “Universal Trend Detection system (UNITRDES)” also contains an automated trading system You can customize to your objectives, trading style, market and timeframe.

To add the “Universal Trend Detection system (UNITRDES)” strategy to your chart:

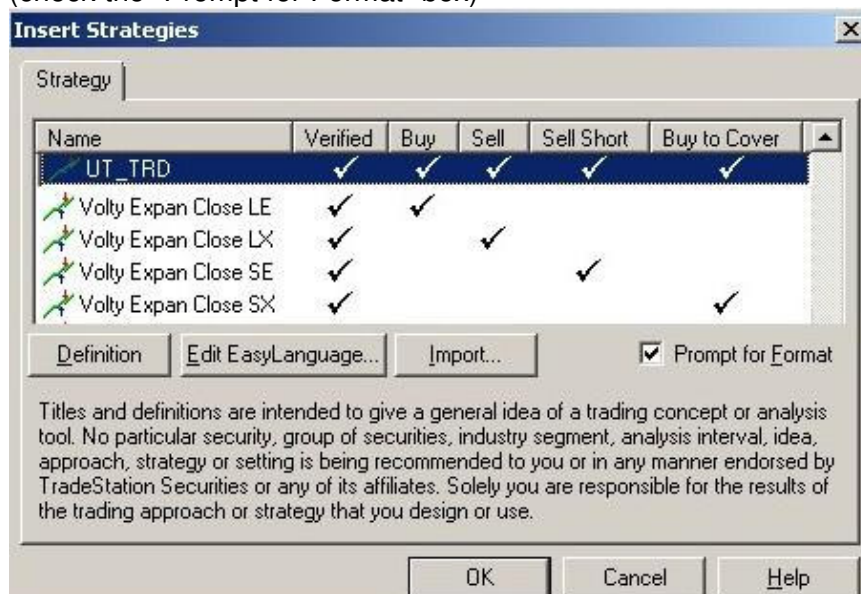
Open your chart or create a new chart (USO – Daily – 4 Years back)

Select Insert/Strategy



Scroll down – click on UT_TRD – and click on OK.

(check the “Prompt for Format” box)



Enter your general Strategy parameter – click on “Properties for all”



Enter the appropriate commission per trade or share etc – then click OK:
(For stocks/ETF's set the trading amount o \$10000 and the rounding to 1 share)

Strategy Properties for All Strategies on this Chart

General Automation

Currency
Base currency of: Symbol (US Dollar)

Costs/Capitalization

Commission: \$ 5 ☐ per Trade ☐ per Share/Contract

Slippage: \$ 0 ☐ per Trade ☐ per Share/Contract

Initial Capital: \$ 100000

Interest Rate: 2 %

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

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 per position 65000

Back-testing resolution

☐ Use Look-Inside-Bar Back-testing

☐ Tick 1 ticks

☒ Intra-day 1 minute

☐ Daily

Maximum number of bars study will reference 50

Trade size (if not specified by strategy)

☐ Fixed Shares/Contracts 100

☒ Dollar(s) per trade \$ 10000

Round down to nearest 1 shares/contracts

Minimum number shares/contracts: 1

OK Cancel Help

Click on Format to set the strategy parameters as shown below – and click OK:

Format Strategy: UT_TRD

Inputs Entries Exits Calculation

| Name | Value |
|--------------|-------|
| UTScope | 40 |
| UTSmooth | 1 |
| UTRecent | 2 |
| UTStep | 80 |
| UTCloseFac | 100 |
| EntryGrade | 2 |
| ExitAge | 3 |
| TargetAmount | 0 |
| StopAmount | 0 |
| TrailAmount | 0 |
| ExitDayEnd | 0 |
| txtID | "TRD" |

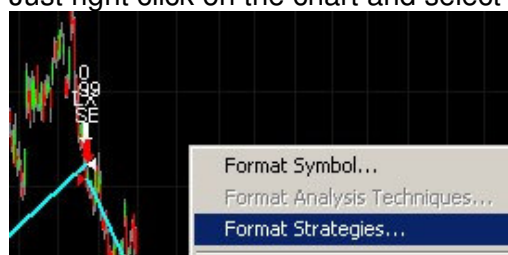
Dictionary... Optimize... Set Default

OK Cancel Help

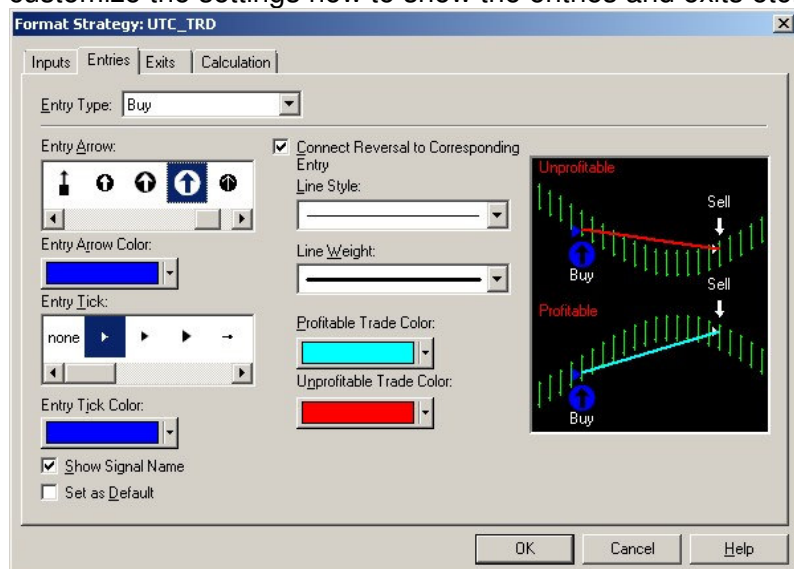
To activate the strategy finally click CLOSE – and you should see the signals in the chart:



You can customize the way the trades signals are shown:
Just right click on the chart and select “Format Strategies”:



Then click on FORMAT and click on the Entries or Exit TAB and customize the settings how to show the entries and exits etc:



Trend Strategy specific Parameters

The “Universal Trend Detection system (UNITRDES)” strategy contains the of caue the core parameter – see above – plus the additional trading related parameter shown below:

| Name | Default | Description | Range | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|--|--------|-------------|--------------|--|--------------|--|------------|---|---------|--------|-------------------------------|----|------|------|-------|-------|--|--------|-------------------------------|----|-------|-------|------|------|--|
| EntryGrade | 2 | <div>Defines how quickly the entry is triggered: Here you have a trade-off between being early and getting too many signals and being late, but catching a strong trend. The UTStep is closely related, since it defines how fast/slow we reach the higher trend grades.</div> <table><tr><th>Value</th><th>Description</th></tr><tr><td>1</td><td>fast response, but maybe signals too early</td></tr><tr><td>2,3</td><td>good medium response</td></tr><tr><td>4,5</td><td>Slow response - when the trend is strongest</td></tr></table> | Value | Description | 1 | fast response, but maybe signals too early | 2,3 | good medium response | 4,5 | Slow response - when the trend is strongest | 1...5 | | | | | | | | | | | | | | | | |
| Value | Description | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | fast response, but maybe signals too early | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,3 | good medium response | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4,5 | Slow response - when the trend is strongest | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ExitAge | 3 | <div>Defines the how many bars to wait of the opposite trend:</div> <table><tr><th>Value</th><th>Description</th></tr><tr><td>1</td><td>fast response, but maybe exits too early</td></tr><tr><td>2,3</td><td>good response, some confirmation but not too early</td></tr><tr><td>4+</td><td>Avoids too early exits, but might give back some profit</td></tr></table> | Value | Description | 1 | fast response, but maybe exits too early | 2,3 | good response, some confirmation but not too early | 4+ | Avoids too early exits, but might give back some profit | 1...99 | | | | | | | | | | | | | | | | |
| Value | Description | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | fast response, but maybe exits too early | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,3 | good response, some confirmation but not too early | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4+ | Avoids too early exits, but might give back some profit | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TargetAmount | 0 | <div>Defines the (optional) amount to exit with a gain – per trade: this can be very helpful to capture a good profit before the trend fades out!</div> <table><tr><th>Value</th><th>Description</th></tr><tr><td>0</td><td>No target exit – disabled</td></tr><tr><td>200</td><td>Exit when \$200 profit is reached</td></tr><tr><td>400</td><td>Exit when \$400 profit is reached etc</td></tr></table> | Value | Description | 0 | No target exit – disabled | 200 | Exit when \$200 profit is reached | 400 | Exit when \$400 profit is reached etc | 0, 1... | | | | | | | | | | | | | | | | |
| Value | Description | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | No target exit – disabled | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | Exit when \$200 profit is reached | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | Exit when \$400 profit is reached etc | | | | | | | | | | | | | | | | | | | | | | | | | | |
| StopAmount | 0 | <div>Defines the (optional) amount to exit with a loss– per trade:</div> <table><tr><th>Value</th><th>Description</th></tr><tr><td>0</td><td>No stop out exit – disabled</td></tr><tr><td>200</td><td>Exit when \$200 loss is reached</td></tr><tr><td>400</td><td>Exit when \$400 loss is reached etc</td></tr></table> | Value | Description | 0 | No stop out exit – disabled | 200 | Exit when \$200 loss is reached | 400 | Exit when \$400 loss is reached etc | 0, 1... | | | | | | | | | | | | | | | | |
| Value | Description | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | No stop out exit – disabled | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | Exit when \$200 loss is reached | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | Exit when \$400 loss is reached etc | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TrailAmount | 0 | <div>Defines the (optional) trailing stop amount to exit with a loss– per trade:</div> <table><tr><th>Value</th><th>Description</th></tr><tr><td>0</td><td>No trailing stop out exit – disabled</td></tr><tr><td>200</td><td>Exit when \$200 trailing stop is reached</td></tr><tr><td>400</td><td>Exit when \$400 trailing stop is reached etc</td></tr></table> | Value | Description | 0 | No trailing stop out exit – disabled | 200 | Exit when \$200 trailing stop is reached | 400 | Exit when \$400 trailing stop is reached etc | 0, 1... | | | | | | | | | | | | | | | | |
| Value | Description | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | No trailing stop out exit – disabled | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | Exit when \$200 trailing stop is reached | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | Exit when \$400 trailing stop is reached etc | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ExitDayEnd | 0 | <div>Defines the (optional) switch if to exit at the end of the day/session:</div> <table><tr><th>Value</th><th>Description</th></tr><tr><td>0</td><td>No exit at the end of the day/session – disabled</td></tr><tr><td>1</td><td>Exit at the end of the day/session – enabled</td></tr></table> | Value | Description | 0 | No exit at the end of the day/session – disabled | 1 | Exit at the end of the day/session – enabled | 0, 1 | | | | | | | | | | | | | | | | | | |
| Value | Description | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | No exit at the end of the day/session – disabled | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Exit at the end of the day/session – enabled | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TxtID | "TRD" | <div>Text parameter for the case if you want to run several instances of the UT_TRD strategy in the same chart/symbol/timeframe. For example if you want to use different parameters for Longs/Shorts: For the “long only strategy – turn OFF the Short/Cover option and set txtID(“L”) For the “short only strategy – turn OFF the Buy/Sell option and set txtID(“S”):</div> <div><div>Format Analysis Techniques & Strategies</div><div><div>Analysis Techniques</div><div>Strategies</div></div><table><thead><tr><th></th><th>Name</th><th>Input Values</th><th>Status</th><th>Buy</th><th>Sell</th><th>Sell Short</th><th>Buy to Cover</th></tr></thead><tbody><tr><td></td><td>UT_TRD</td><td>40,1,2,80,100,2,3,0,0,0,0,"L"</td><td>On</td><td>On ▼</td><td>On ▼</td><td>Off ▼</td><td>Off ▼</td></tr><tr><td></td><td>UT_TRD</td><td>40,1,2,80,100,2,3,0,0,0,0,"S"</td><td>On</td><td>Off ▼</td><td>Off ▼</td><td>On ▼</td><td>On ▼</td></tr></tbody></table></div> <div>txtID is use internally to being able to create different sets in case you “duplicate” strategies in the SAME market./timeframe.</div> | | Name | Input Values | Status | Buy | Sell | Sell Short | Buy to Cover | | UT_TRD | 40,1,2,80,100,2,3,0,0,0,0,"L" | On | On ▼ | On ▼ | Off ▼ | Off ▼ | | UT_TRD | 40,1,2,80,100,2,3,0,0,0,0,"S" | On | Off ▼ | Off ▼ | On ▼ | On ▼ | |
| | Name | Input Values | Status | Buy | Sell | Sell Short | Buy to Cover | | | | | | | | | | | | | | | | | | | | |
| | UT_TRD | 40,1,2,80,100,2,3,0,0,0,0,"L" | On | On ▼ | On ▼ | Off ▼ | Off ▼ | | | | | | | | | | | | | | | | | | | | |
| | UT_TRD | 40,1,2,80,100,2,3,0,0,0,0,"S" | On | Off ▼ | Off ▼ | On ▼ | On ▼ | | | | | | | | | | | | | | | | | | | | |

Backtesting the Universal Trend Detection System

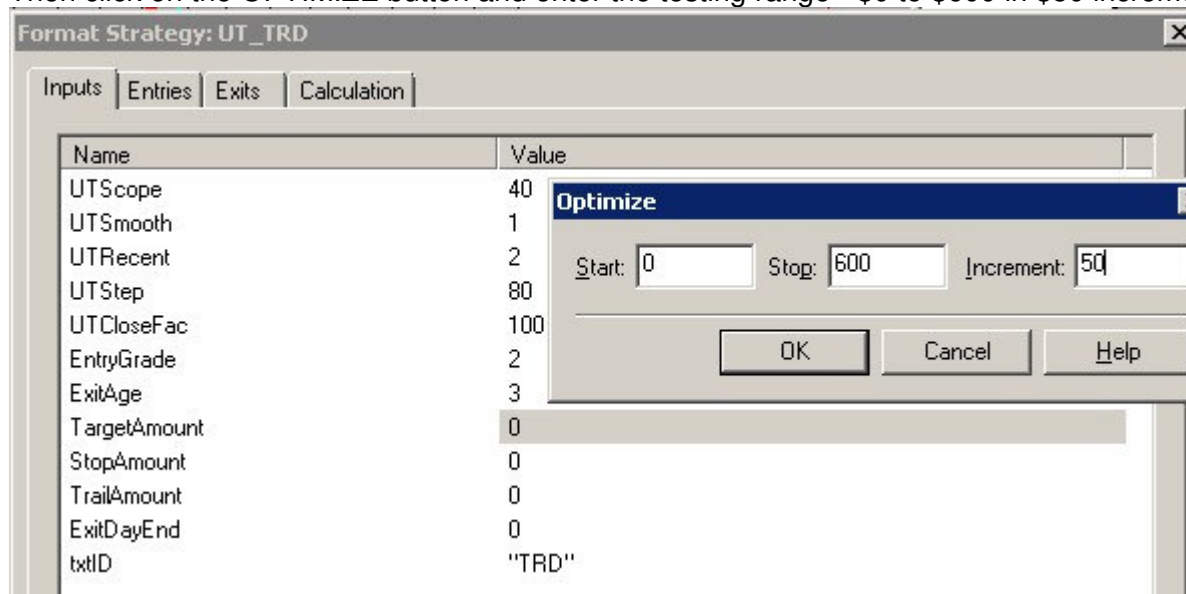
You can easily identify the best UNITRDES trend and trading parameters, this is called “backtesting” or “optimizing” your automated trading strategy.

Entering your test range(s)

Click on the FORMAT button in the strategy window.

Then click on the value you would like to “test”/optimize – for example TargetAmount.

Then click on the OPTIMIZE button and enter the testing range - \$0 to \$600 in \$50 increments:



Tradestation will show you the entered test values:

| | |
|--------------|-----------|
| TargetAmount | 0..600:50 |
|--------------|-----------|

You can repeat this process for as many parameter you like – watch that you don’t get too many tests!

Start Optimization

Then click on the “Optimize” button in the main strategy box, which will start the calculations:

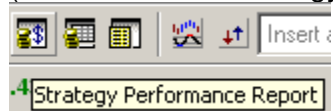
| | |
|------------------------------|--|
| Abort Optimization #1 | |
| Status | In progress |
| Tests | |
| Current test | 12 |
| Total tests | 13 |
| Time | |
| Total elapsed time | 0 sec |
| Estimated time to completion | 0 sec |
| Current Best Values | |
| All: Net Profit | 17772.78 |
| UTC_TRD (TargetAmount) | 0 |
| Chart Settings | |
| Chart | 'USO Daily [ARCX] United States Oil Fund LP' |
| Strategy | 'Strategy' |
| Report Settings | |
| Show | Highest 200 tests |
| Based on | All: Net Profit |

This process can take a few seconds or several hours, depending on the a) number of tests, b) number of bars in the chart and c) UTScope parameter.

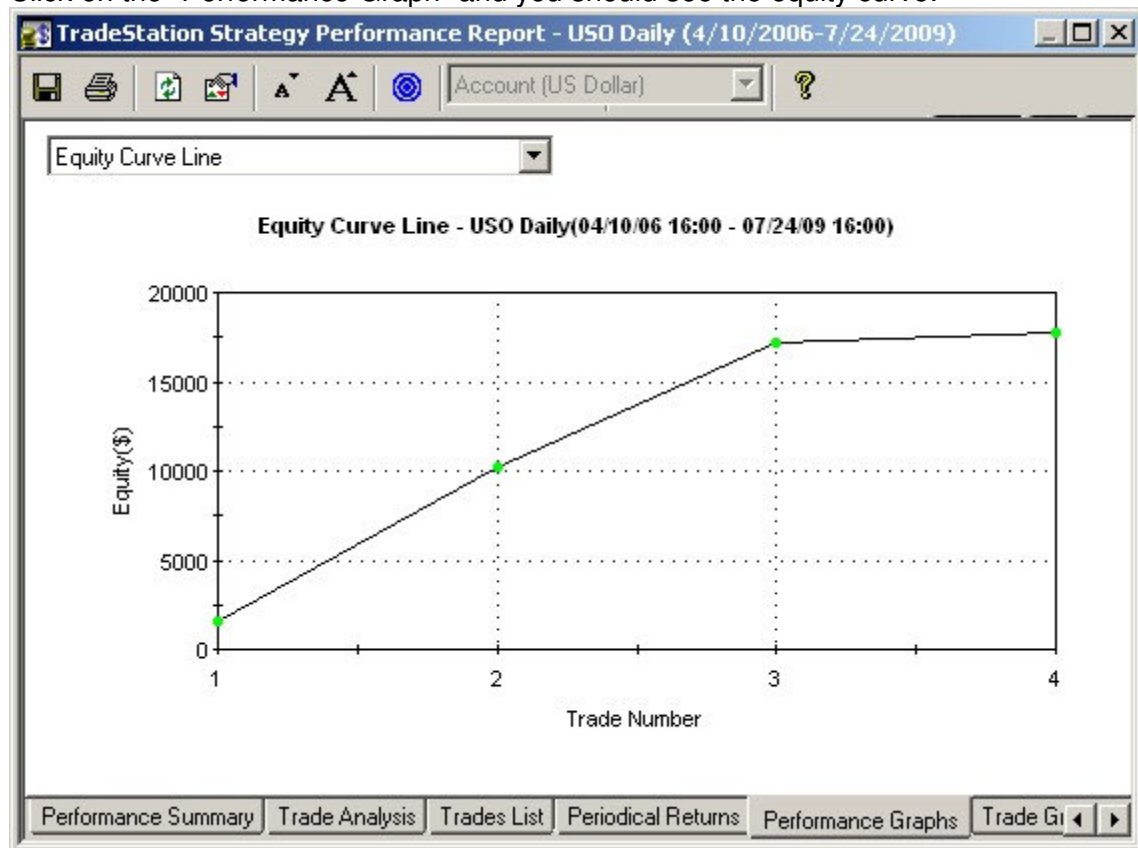
When the backtest has completed – the chart will refresh with the best result.

Backtesting is an excellent tool to “what if” test your strategy and settings, but watch out not to “curve fit” and “over optimize” and expect that same performance in the future. There are many books and approaches available on this complex topic.

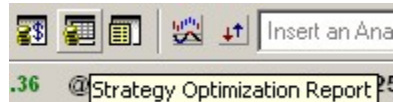
To see the results and equity graph (and many other statistics) click on the button in the toolbar:
(or click on View/Strategy Performance Report)



Click on the “Performance Graph” and you should see the equity curve:



You can also see the result for each test – click on the report button in the toolbar:



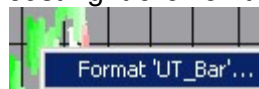
Which will display the result spreadsheet:

| TradeStation Strategy Optimization Report - USO Daily [ARCX] United States Oil Fund LP | | | | | | | | | | | |
|--|--------------------------|------|--------------------|----------------------|--------------------|----------------------|----------------------|------------------------|-----------------------|------------------------------|---|
| | TargetAmount (UT_TRD) | Test | All: Net Profit | All: Gross Profit | All: Gross Loss | All: Total Trades | All: % Profitable | All: Winning Trades | All: Losing Trades | All: Max Winning Trade | |
| 1 | 0 | 1 | 17,772.78 | 17,772.78 | 0.00 | 4 | 100.00 | 4 | 0 | 8,666.48 | J |
| 2 | 50 | 2 | 2,378.34 | 4,045.54 | -1,667.20 | 81 | 98.77 | 80 | 1 | 163.68 | J |
| 3 | 100 | 3 | 6,088.05 | 7,755.25 | -1,667.20 | 78 | 98.72 | 77 | 1 | 212.16 | J |
| 4 | 150 | 4 | 9,223.43 | 10,890.63 | -1,667.20 | 71 | 98.59 | 70 | 1 | 441.81 | J |
| 5 | 200 | 5 | 11,933.38 | 13,600.58 | -1,667.20 | 65 | 98.46 | 64 | 1 | 599.90 | J |
| 6 | 250 | 6 | 13,725.09 | 15,392.29 | -1,667.20 | 59 | 98.31 | 58 | 1 | 599.90 | J |
| 7 | 300 | 7 | 10,510.38 | 14,997.82 | -4,487.44 | 49 | 95.92 | 47 | 2 | 677.60 | 4 |
| 8 | 350 | 8 | 11,651.15 | 16,236.19 | -4,585.04 | 46 | 95.65 | 44 | 2 | 608.36 | 4 |
| 9 | 400 | 9 | 12,227.00 | 16,714.44 | -4,487.44 | 42 | 95.24 | 40 | 2 | 790.97 | 4 |
| 10 | 450 | 10 | 14,679.90 | 19,167.34 | -4,487.44 | 43 | 95.35 | 41 | 2 | 790.97 | 4 |
| 11 | 500 | 11 | 16,581.64 | 20,836.88 | -4,255.24 | 42 | 95.24 | 40 | 2 | 790.97 | 4 |
| 12 | 550 | 12 | 14,315.48 | 18,668.32 | -4,352.84 | 35 | 94.29 | 33 | 2 | 790.97 | 4 |
| 13 | 600 | 13 | 15,214.07 | 19,566.91 | -4,352.84 | 34 | 94.12 | 32 | 2 | 743.04 | 4 |

showing that no target (TargetAmount=0) is indeed the best result for this particular chart.

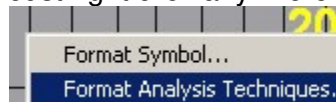
Synchronizing new Parameter with PaintBar and Indicator

After you have backtested and possibly changed some the core UNITRDES parameter, Remember to “synchronize” these parameter in the UT_Bars paintbar study (if used). Just right click on the bars and select “Format UT_Bars”:



Also “synchronize” the UT_Trend indicator (if used in chart).

Just right click anywhere on the chart background and select “Format Analysis Techniques”



Then click on the UT_Trend Indicator and click on FORMAT and adjust the parameters

| Format Analysis Techniques & Strategies | | | | | | |
|---|----------|------------------------------------|--------|--------|-------|-----------|
| Analysis Techniques | | Strategies | | | | |
| | Name | Input Values | Data # | Status | Alert | Format... |
| | UT_Bar | 40,1,2,80,100,3,2,Green,White,Red | Data1 | On | No | |
| | UT_Trend | 40,1,2,80,100,3,1,Green,Yellow,Red | Data1 | On | No | Status |

Suggested Core Parameter Ranges

Each change of a strategy parameter usually has an effect on the result.

Below we are listing each “Universal Trend Detection system (UNITRDES)” strategy trading parameter with their suggested backtesting range:

| Name | Range | Increment | Tests | Impact | Description |
|------------|-----------|-----------|-------|--------|--------------------------------|
| UTScope | 20...200 | 20 | 10 | Strong | Lookback period to calculate |
| UTSmooth | 1...4 | 1 | 4 | Medium | Smoothing trend changes |
| UTStep | 40...200 | 40 | 5 | Strong | Sensitivity to price changes |
| UTRecent | -10...+10 | 2 | 11 | Strong | Emphasis on last prices |
| UTCloseFac | 0...300 | 100 | 4 | Slight | Emphasis on last closing price |
| | | | 8,800 | | Total test |

We suggest first backtesting these UT parameter with EntryGrade=2, ExitAge=3 and the rest 0:

| Format Strategy: UTC_TRD | |
|--------------------------|---------------------------|
| Inputs | Entries Exits Calculation |
| Name | Value |
| UTScope | 20..200:20 |
| UTSmooth | 1..4:1 |
| UTRecent | -10..10:2 |
| UTStep | 40..200:40 |
| UTCloseFac | 0..300:100 |
| EntryGrade | 2 |
| ExitAge | 3 |
| TargetAmount | 0 |
| StopAmount | 0 |
| TrailAmount | 0 |
| ExitDayEnd | 0 |
| txtID | "TRD" |

This results in 8,800 tests.

Suggested secondary trading Parameter Ranges

Then backtest the remaining strategy parameters:

| Name | Range | Increment | Tests | Impact | Description |
|--------------|---------|-----------|-------|--------|---|
| EntryGrade | 2...4 | 1 | 3 | Strong | Required trend strength to enter |
| ExitAge | 1...4 | 1 | 4 | Strong | Required opposing trend duration for exit |
| TargetAmount | 0...600 | 200 | 4 | Strong | When/if to take a profit |
| StopAmount | 0...600 | 200 | 4 | Strong | When/if to use a fixed stop loss |
| TrailAmount | 0...600 | 200 | 4 | Strong | When/if to use a trailing stop loss |
| ExitDayEnd | 0,1 | 1 | 2 | Medium | When/if to exit at the end of day/session |
| | | | 1,536 | | Total tests |

Format Strategy: UTC_TRD

| Inputs | | Entries | Exits | Calculation |
|--------------|------------|---------|-------|-------------|
| Name | Value | | | |
| UTScope | 40 | | | |
| UTSmooth | 1 | | | |
| UTRecent | 2 | | | |
| UTStep | 80 | | | |
| UTCloseFac | 100 | | | |
| EntryGrade | 2..4:1 | | | |
| ExitAge | 1..4:1 | | | |
| TargetAmount | 0..600:200 | | | |
| StopAmount | 0..600:200 | | | |
| TrailAmount | 0..600:200 | | | |
| ExitDayEnd | 0..1:1 | | | |
| txtID | "TRD" | | | |

This results in 1,536 tests.

Genetic Backtesting

Tradestation offers a new powerful backtesting method using a “genetic algorithm” (Version 8.5 and later).

For more details go to: https://www.tradestation.com/support/whats_new/build2274.aspx

And click on “New Optimization Method Using Genetic Algorithm”

This new “genetic algorithm” allows you to test a much larger number of parameters and ranges than the usual exhaustive backtest!

Then you could test all the main parameter together:

| Name | Range | Increment | Tests | Impact | Description |
|--------------|-----------|-----------|---------|--------|---|
| UTScope | 20...200 | 20 | 10 | Strong | Lookback period to calculate |
| UTSmooth | 1...4 | 1 | 4 | Medium | Smoothing trend changes |
| UTStep | 40...200 | 40 | 5 | Strong | Sensitivity to price changes |
| UTRecent | -10...+10 | 2 | 11 | Strong | Emphasis on last prices |
| EntryGrade | 2...4 | 1 | 3 | Strong | Required trend strength to enter |
| ExitAge | 1...4 | 1 | 4 | Strong | Required opposing trend duration for exit |
| TargetAmount | 0...600 | 200 | 4 | Strong | When/if to take a profit |
| | | | 105,600 | | Total exhaustive tests |

This would result in 105,600 test runs:

Optimization Details:

Method: Test Count: 105,600

Switch to the smart “Genetic backtesting”:

Optimization Details:

Method: Number of tests: approximately 8,000

Generations: Mutation rate:

Population size: Crossover rate:

You can either enter the genetic parameters shown above – or click on the SUGGEST button, to have TradeStation provide some reasonable genetic parameter.

Trend Indicators

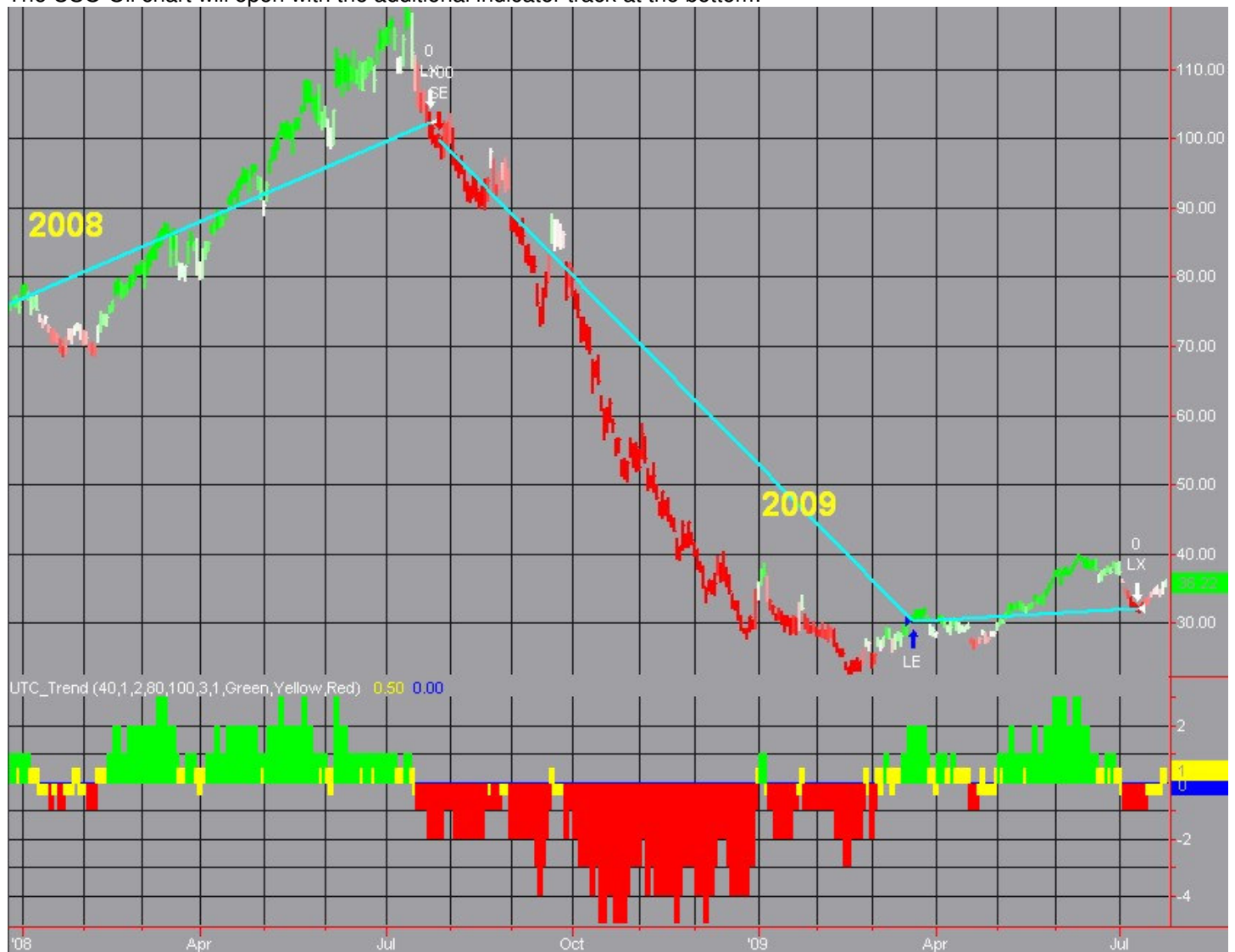
The “Universal Trend Detection (UNITRDES)” offers also several indicators, so that beside the bar coloring you can see also more exactly the trend changes.

Let's open the “USO Oil Daily Sample1”

Click on Start/Programs and “Universal Trend Detection (UNITRDES)” then select the ““USO Oil Daily Sample1”



The USO Oil chart will open with the additional indicator track at the bottom:



By default UT_Trend with the trend strength/grade, oscillating between +5(strong up) 0=neutral and -5(strong down). You can see the neutral(yellow) zones and the extreme -5 zone on Oct 2008.

Now we switch to show instead the age of the trend – right click on the indicator bars and select Format UTD_Trend:



Change the UTStyle from 1 to 3:

UTCStyle 3

Which will show you the age of the trend – which is used in the automated strategy to avoid a tiny countermove to exit:



Trend Indicator Styles

The following Indicator styles (UTStyle) are available:

| Value | Description |
|-------|--|
| 1 | Show the trend grades (between -5, 0 and +5) |
| 2 | Show the unclipped trend grades |
| 3 | Show the trend age in number of bars |
| 4 | Show the basic trend direction -1=down, 0=neutral, +1=up |

Requirements

The "Universal Trend Detection (UNITRDES)" is compatible with TradeStation version 8.3 and above.
Since it is an add-on to tradestation, its (minimum) requirements are identical to TradeStation's requirements:
Processor: Single-core Intel® or AMD® processor at 1.5 GHz or faster, Memory (RAM): 2 GB,
Hard Drive: 300 MB free space 5400 RPM drive, Video Card(s): 16-bit graphics support 64 MB for a single monitor,
Screen Resolution 1024x768 pixels, Operating Systems: Windows® XP, Windows Vista®
Internet Connection: Broadband Connection 1.5 Mbps or better

Uninstalling UNITRDES

Close Tradestation, so UNITRDES are not "occupied".
Then go to Start/Settings/Control Panel/Programs and Features.
Then scroll down to "Universal Trend Detection System (UNITRDES)"
Right click and select "Uninstall"
After a few seconds the "Universal Trend Detection System (UNITRDES)" will be uninstalled.

Viewing internal Values – Commentary Box

You can easily view all the internal values for any bar in your chart using the commentary feature:
Click on View/Analysis Commentary in Tradestation – then click on the bar you want to view.
Example: In the "USO Sample1" click on the 10/17/2008 bar and you should see the details for that bar:
Grade=-4(-4.90) Dir=-1 TrendAge=15

USO Daily [ARCX] United States Oil Fund LP-10/17/2008

Strategy (Strategy):

Bar#587 Close=59.37000 High=61.10000 Low=57.66000
Pos=-1 PosAge=58 Left=100 Entry=99.80000 ExitAge=61
Grade=-4(-4.90) Dir=-1 TrendAge=15
Scope=40 Smooth=1 Recent=2.0 Step=80 CloseFac=100 1.3a

UT Trend (Indicator):

Grade=-4(-4.90) Dir=-1 TrendAge=15
Scope=40 Smooth=1 Recent=2.0 Step=80 CloseFac=100 1.3a

Registration & Licensing

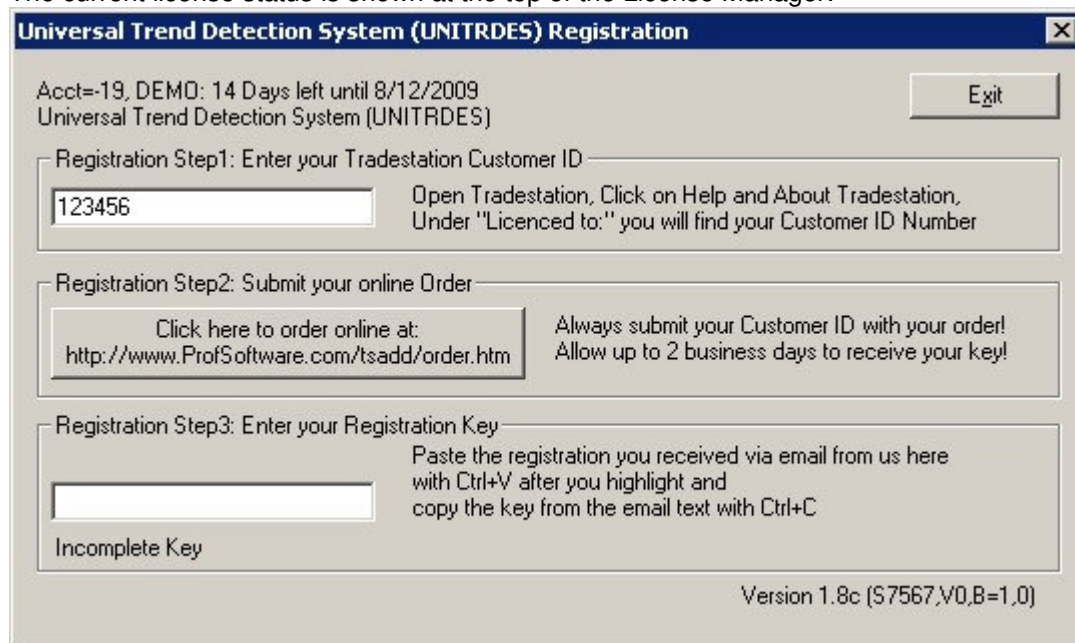
The "Universal Trend Detection (UNITRDES)" license is attached to each unique Tradestation customer ID. You can use the SAME UNITRDES license on several machines, if you use the same Tradestation login/CustomerID. Each different Tradestation customer ID requires a new license.

To see your current license status:

Click on Start/Programs/Universal Trend Detection(UNITRDES)/License Manager:



The current license status is shown at the top of the License Manager:



While the trial is running it shows: DEMO: XX Days left until MM/DD/YYYY.
When the trial has expired it shows: DEMO: -N Days left until MM/DD/YYYY.

After you have successfully placed your order you will receive a registration key – enter it at the bottom:

Universal Trend Detection System (UNITRDES) Registration

Acct=19, DEMO: 14 Days left until 8/12/2009
Universal Trend Detection System (UNITRDES)

Registration Step1: Enter your Tradestation Customer ID
123456 Open Tradestation, Click on Help and About Tradestation,
Under "Licenced to:" you will find your Customer ID Number

Registration Step2: Submit your online Order
Click here to order online at:
<http://www.ProfSoftware.com/tsadd/order.htm> Always submit your Customer ID with your order!
Allow up to 2 business days to receive your key!

Registration Step3: Enter your Registration Key
YOURKEYHERE Paste the registration you received via email from us here
with Ctrl+V after you highlight and
copy the key from the email text with Ctrl+C

Account ID mismatch

Version 1.8c (S7567,V0,B=1,0)

The License Manager will confirm your registration – click on OK:

TSReg

Registration completed for ID 610298

OK

Open the License Manager again - and you will see the new extended expiration date in the status message:
DEMO: XX Days left until MM/DD/YYYY.

Make a note of the new expiration date and submit your subscription extension in time, so you have no lapse!

Universal Trend Detection System (UNITRDES) Registration

Acct=610298, DEMO: 125 Days left until 12/1/2009
Universal Trend Detection System (UNITRDES)

Registration Step1: Enter your Tradestation Customer ID
123456 Open Tradestation, Click on Help and About Tradestation,
Under "Licenced to:" you will find your Customer ID Number

Registration Step2: Submit your online Order
Click here to order online at:
<http://www.ProfSoftware.com/tsadd/order.htm> Always submit your Customer ID with your order!
Allow up to 2 business days to receive your key!

Registration Step3: Enter your Registration Key
Paste the registration you received via email from us here
with Ctrl+V after you highlight and
copy the key from the email text with Ctrl+C

Incomplete Key

Version 1.8c (S7567,V0,B=1,0)

EasyLanguage Code

The code to program the “Universal Trend Detection (UNITRDES)” in TradeStation is available and can easily be modified to fit your needs. All UNITRDES modules always call the core calculation module (PSS_UTC.DLL). With its proprietary statistical trend detection logic.

PaintBar Study (UT_Bars)

Below is the code for the PaintBar Study (UT_Bars):

Inputs:

```
    UTScope(50),
    UTSmooth(1),
    UTRecent(2),
    UTStep(40),
    UTCloseFac(100),
    UTColorMax(3),
    BarWidth(2),
    ColorUp(Green),
    ColorNeutral(Yellow),
    ColorDown(Red);
Var:   txtDiag("XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"),
    txtID(Symbol + "_BARS"),
    ret(0);
Array: double arrVal[100](0);
{===== UT MODULE INTERFACE =====}
DefineDLLFunc: "PSS_UTC.DLL", float, "PSS_UTC", LPSTR, LPDOUBLE, LPSTR;
arrVal[0] = Date data1;
arrVal[1] = Time data1;
arrVal[2] = Open data1;
arrVal[3] = High data1;
arrVal[4] = Low data1;
arrVal[5] = Close data1;
arrVal[6] = Ticks data1;
arrVal[7] = BarNumber data1;
arrVal[8] = BarInterval data1;
arrVal[9] = BarType data1;
arrVal[10] = CustomerID;
arrVal[11] = UTScope;
arrVal[12] = UTSmooth;
arrVal[14] = UTRecent;
arrVal[15] = UTStep;
arrVal[16] = GetBackgroundColor;
arrVal[17] = ColorUp;
arrVal[18] = ColorNeutral;
arrVal[19] = ColorDown;
arrVal[20] = UTCloseFac;
arrVal[21] = UTColorMax;
ret = PSS_UTC(txtID,&arrVal[0],txtDiag);
{===== PAINT BAR WITH CURRENT TREND COLOR =====}
IF ret > 0 THEN
    PlotPaintBar(High,Low,Open,Close,"Trend",arrVal[58],Default,BarWidth);
{===== PROCESS ERRORS =====}
IF ret < -100 THEN
    RaiseRunTimeError(txtDiag);
```

After the input and variable section the array with the current values is filled (arrVal[]).

Then the UNITRDES calculation module is called “ret = PSS_UTC(txtID,&arrVal[0],txtDiag);” and the result is processed – in this case a simple “PlotPaintBar()” call with the calculated color in arrVal[58].

The UNITRDES “ret” is always positive (the bar number) unless an error occurs.

Automated Trading Strategy (UT_TRD)

The strategy has essential the same code – just the following section is added for the actual strategy:

```
nGrade = arrVal[57];
nTrendAge = arrVal[60];
{===== ENTER WHEN ENTRY GRADE HAS BEEN REACHED =====}
IF ret > 0 THEN BEGIN
    IF nGrade >= Pos(EntryGrade) AND nGrade[1] < Pos(EntryGrade) then BEGIN
        Buy("LE") next bar Market;
    END;
    IF nGrade <= Neg(EntryGrade) AND nGrade[1] >= Neg(EntryGrade) then BEGIN
        SellShort("SE") next bar Market;
    END;
end;

{===== EXIT WHEN DIRECTION CHANGED =====}
IF MarketPosition > 0 AND nGrade <= -1 AND nTrendAge > ExitAge THEN
    Sell("LX") Next bar Market;
IF MarketPosition < 0 AND nGrade >= 1 AND nTrendAge > ExitAge THEN
    BuyToCover("SX") Next bar Market;

{===== OPTIONAL AMOUNT BASED EXITS =====}
IF ExitDayEnd > 0 THEN
    SetExitOnClose; // exit at end of day/session
SetStopPosition;
IF TargetAmount > 0 THEN
    SetProfitTarget(TargetAmount); // target/gain reached
IF StopAmount > 0 then
    SetStopLoss(StopAmount); // fixed stop out protection
IF TrailAmount > 0 THEN
    SetDollarTrailing(TrailAmount); // trailing stop
```

As you can see the logic checks if the “EntryGrade” has been reached/crossed, Then enters long or short a new position at the open of the next bar as a market order. If the trend has reversed for at least the “ExitAge” number of bars the logic will exit. If specified the strategy will also exit when the target, stop, trailing or end of day condition is hit.

Trend Indicators (UT_Trend)

The indicator has essential the same code – just the following section is added to display the various indicator styles:

```
IF ret > 0 THEN BEGIN
    nColor = ColorNeutral;
    IF arrVal[61] < 0 THEN
        nColor = ColorDown;
    IF arrVal[61] > 0 THEN
        nColor = ColorUp;
    IF UTStyle = 1 THEN BEGIN    // Show clipped Trend Grades -5 to +5
        IF arrVal[57] = 0 AND arrVal[59] >= 0 THEN
            arrVal[57] = 0.5;
        IF arrVal[57] = 0 AND arrVal[59] < 0 THEN
            arrVal[57] = -0.5;
        Plot1(arrVal[57],"Trend",nColor);
        Plot2(0,"Zero");
    END;
    IF UTStyle = 2 THEN BEGIN    // Show unclipped Trend Strength
        Plot1(arrVal[59],"Trend",nColor);
        Plot2(0,"Zero");
        Plot3(5,"TrendMax",ColorUp);
        Plot4(-5,"TrendMax",ColorDown);
    END;
    IF UTStyle = 3 THEN BEGIN    // Show Trend Age
        Plot1(arrVal[60],"Trend",nColor);
        Plot2(0,"Zero");
    END;
    IF UTStyle = 4 THEN BEGIN    // Show Direction
        Plot1(arrVal[61],"Trend",nColor);
        Plot2(0,"Zero");
    END;
END;
```

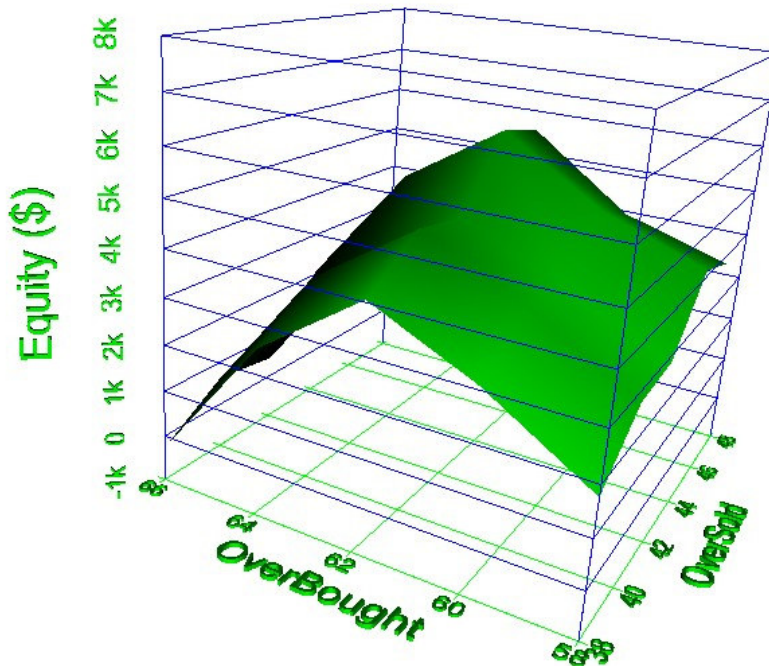

Other Professional Software Solutions (PSS) Products

"Professional Software Solutions (PSS)" has developed over the last 10 years several powerful software. Each software comes with a free trial, so you can always test the software on your computer before you place your order.

Diamond Backtesting and Walk-Forward-Backtesting Manager (BTWFMgr)

<http://www.profsoftware.com/bt> - BTWFMgr offers the following major functions:

- **Fully automated advanced Walk Forward Algorithm** ([click for details](#)), providing you with realistic backtesting results, instead of the usual curve fitting unrealistic results saving you hours and days of hard manual labor, displays results as 3D View or spreadsheet Matrix.
- **Advanced visual Strategy Input Parameter Analysis** providing you with a detailed visual analysis of the effect of EACH strategy input parameter variations on the overall result
- **3D + 2D visual Strategy Input Parameter Analysis** providing you with a 3D visual analysis of the effect of two strategy input parameters variations on the overall result



- **Powerful & innovative Trading Strategy Potential Analysis and Optimization** allows you to detect the maximum trading opportunities and parameter optimums - using ONLY ENTRY POINTS before you develop the exit logic in your strategy.
- **New Trading Probability Map** allows you to detect the maximum probability areas - using 3 profit levels and ONLY ENTRY POINTS
- **Identify the best Weekdays and Intraday entry times** allows you detect the best (and worst) intraday entry times and weekdays for long, short and overall performance
- **Strategy Position Exit Algorithm Optimization (using advanced integrated Position Exit Manager)** providing you with the best Position Exit Definition - an advanced algorithm combining several position exit function like:

exponential/linear Target, StopOut, Trailing, breakeven etc.

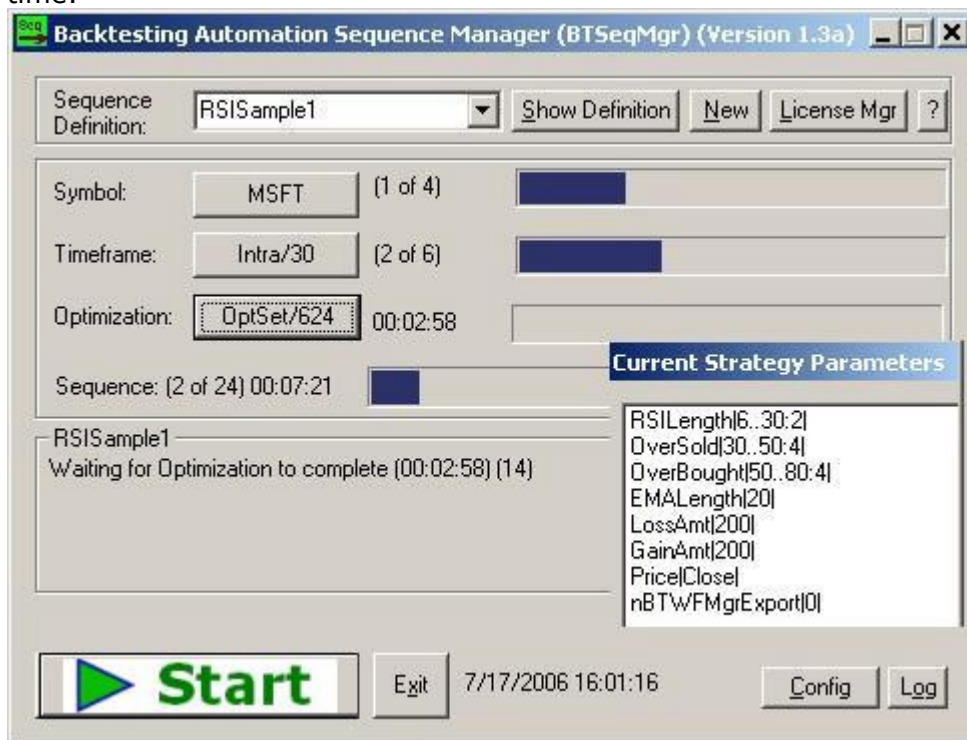
All operating at a lightning speed of around 100,000 tests per second (which would take TradeStation days)

- **[Time and Weekday Analysis](#)**
track which weekdays and intraday times are the best for long/short or overall trading
- **[Trading Frequency Analysis](#)**
track how many trades occur on a monthly, weekly, daily or based on any of the parameters
- **[Visual Multi Timeframe/Symbol Analysis - Result Overview Module](#)**
Detect the best performance from your symbol/timeframes backtest's sorted by Probability%, Yearly, PerTrdAvg or PeakAvg\$
- **[Visual Profit/Loss Distribution Analysis](#)**
showing average, best and worst positions profit/loss
- **[Visual Permutation Results Distribution Analysis](#)**
showing how equity, drawdown, probability etc is distributed across all trading permutations, detecting outliers easily.
- **[Detect the lowest Volatility](#)**
Find least nerve-wracking performance but with similar ending equity runs, using the integrated volatility analysis and smart ranking.
- **[Export the results to a Microsoft Access Database \(MDB\)](#)**
allowing you any advanced SQL queries and reports - to detect the best results - [click here for an MDB example](#)
- **[Correlate Context Values with best Potential](#)**
You can add any variable in Potential Mode to the backtesting, so you can detect any correlation between context variable range(s) and favorable potential results.
- **[Instant Position Viewing + Excursions](#)**
View the actual charts of each Position Entry, Exit and Risk/Reward excursion instantly
- **[Advanced Strategy Performance Ranking](#)**
providing you with the a customizable powerful hybrid of Strategy result elements:
4x Equity AND 2xDownDraw AND 2xProfitFactor etc
- **[Advanced Strategy Context Variables Analysis](#)**
detects potential connections between best results and certain value ranges of any variable
- **[Instant Position Viewing](#)**
provides you - with a mouse click - with the actual charts of each Position Entry, Exit and Risk/Reward excursion instantly,
so you can evaluate also visually all entries and their performance - instead of using the cumbersome scrolling in the charts
- You can **merge results from different markets/symbols into one new comprehensive result/graph**
- Even **Optimize the your Walk Forward Filter and Sort Parameter**, selecting the best result for the out-of-sample test
- Accumulate automatically all the **Walk Forward out of sample results into one comprehensive continuous result spreadsheet**
- **Export any result** to the [advanced Performance Analyzer](#) for in depth analysis by TimeOfDay, Weekday etc.
- **[Automated modification of your EasyLanguage Strategy Code](#)**, so you don't have to be familiar with EasyLanguage
- Export permutation statistics to a spreadsheet, for your custom analysis and sorting - [click here Statistic example](#)
- Multi Symbol/Basket testing with the new [Backtesting Sequence Manager \(BTSeqMgr\)](#) module
- BTWFMgr can also handle partial exits - [for more details see here](#)

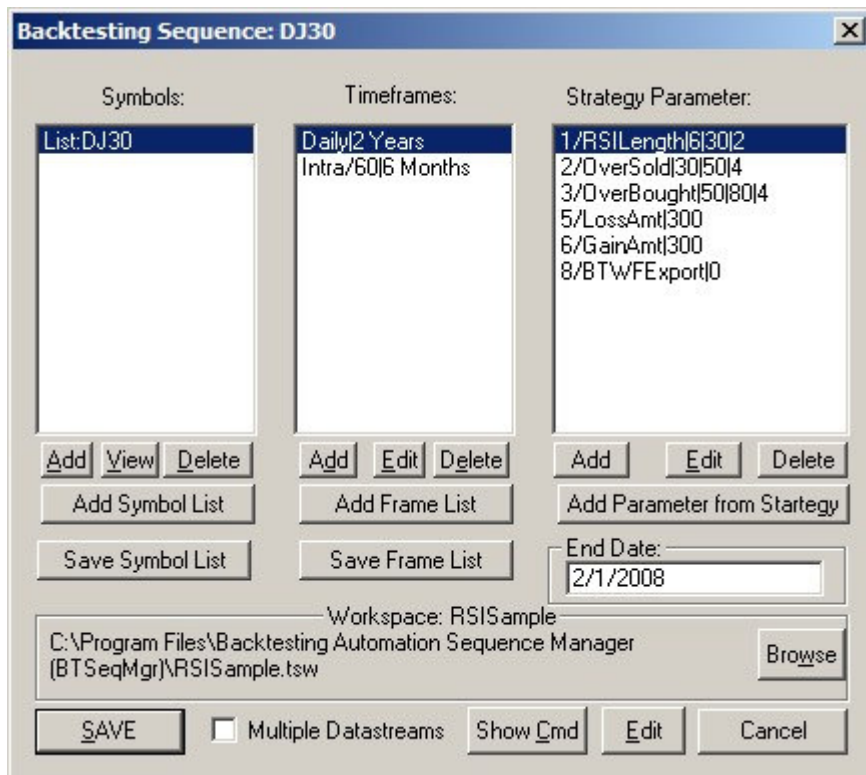
Backtesting Sequence and Automation Manager

<http://www.profsoftware.com/tsadd/btseq>

- **Save hours by running automatically a customizable series of backtests with BTSeqMgr** for any list of symbols and timeframes (overnight or over a weekend) in TradeStation®
Example: Test your strategy on SP100 symbols for Daily and 30 minute charts
- **BTSeqMgr saves automatically the workspace, spreadsheet and archive file for each symbol+time frame**
(with the [Diamond Backtesting Module](#) you can even save ALL optimization details and optimize your strategy)
- **Convenient Progress Monitor** shows you the current optimization progress and status at any time:

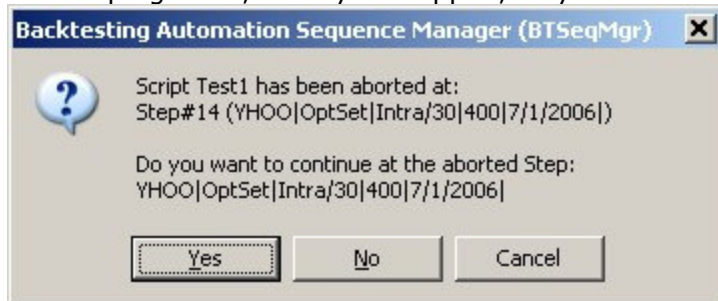


- Shows you the current symbol (MSFT the first of 4)
(click the button and see the list of pending symbols)
- Shows you the current timeframe (Intraday 30 Minute charts, 2 of 6 frames)
(click the button and see the list of pending timeframes)
- Shows you the current Optimization Parameter Set (OptSet with 624 permutations)
(click the button and see the list of all strategy parameters - as shown here)
- Shows overall sequence state (2 of 24 = 4 symbols x 6 timeframes)
- Shows time the current Optimization is running (00:02:58)
- Shows the overall running time: 7 minutes 21 seconds (00:07:21)
- **Customize any of the details of the backtesting sequence**
using the inbuilt script editor interface
which allows you also MULTI DATA STREAM CHARTS (just check Multiple Datastreams)



or [edit the script directly using the advanced definition language](#) - [here is an example](#)

- **Smart Abort Manager** allows you to easily abort of the optimization (to free up your computer); but keeping track, were you stopped, so you can restart at the step you left off:



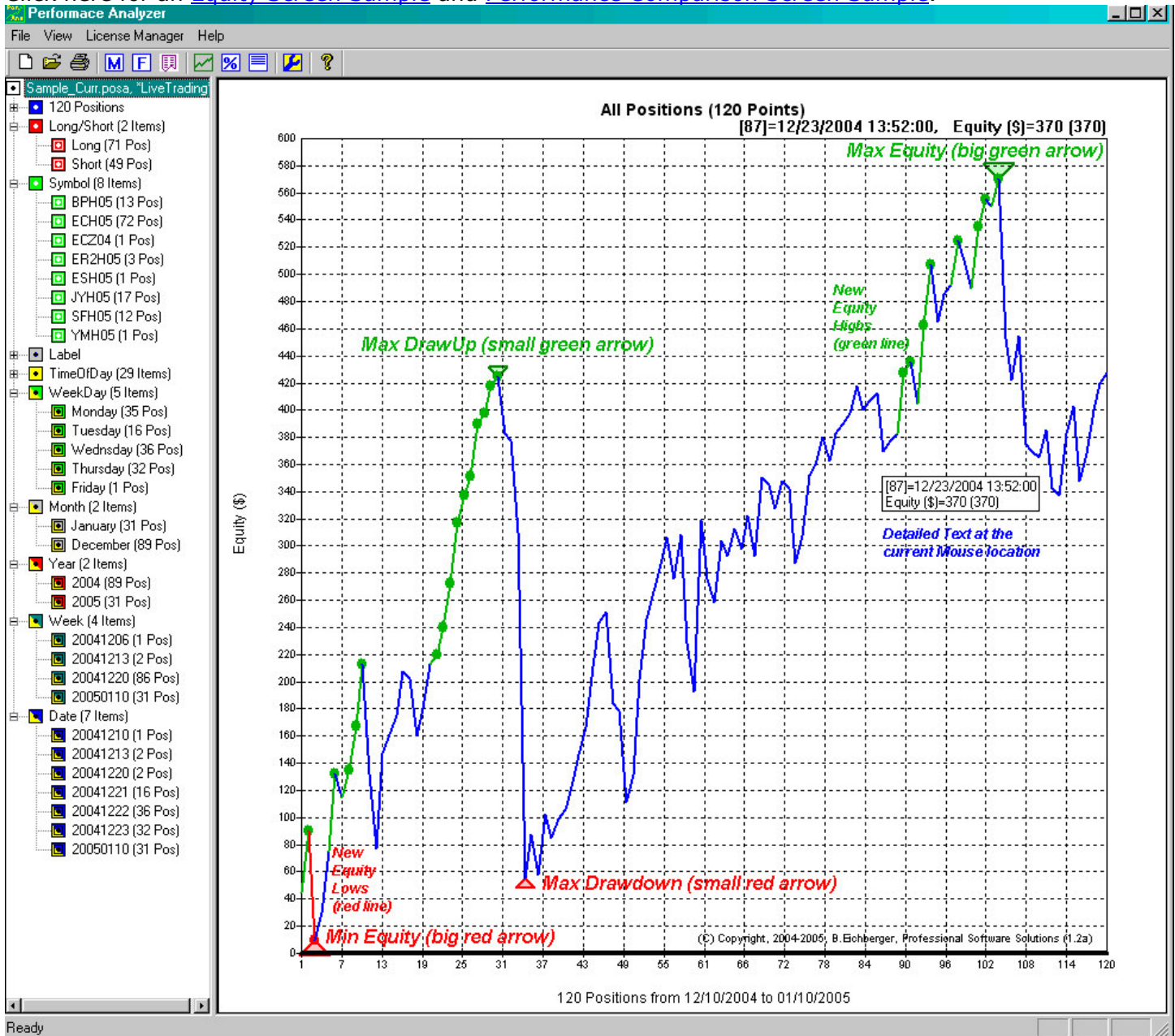
- Can optimize tick charts based on daily volume - you just specify tick bars per day
- The easy interface helps you define all backtesting sequence details
- Detailed log file of each sequence

Trading Performance Analyzer

<http://www.profsoftware.com/tsadd/perfana>

The "Trading Performance Analyzer" module assists you in analyzing in depth your trading performance of:

- Your actual trading records ([Instructions how to import from TradeStation](#))
 - Strategy backtesting results ([Instructions how to import your strategy backtesting results](#)).
 - Manually add/modify/delete your positions ([Instructions how use the Position Manager](#))
 - Custom Trading Records import ([Instructions how to import from custom Trading Records](#))
- Click here for an [Equity Screen Sample](#) and [Performance Comparison Screen Sample](#).



Other Indicators and Products

Pivot Pattern Recognition Engine

<http://www.profsoftware.com/tsadd/prod.htm#PPRE>

Advanced ZigZag Line Indicator

<http://www.profsoftware.com/tsadd/prod.htm#ZZ>

Buy/Sell Pressure Indicator

<http://www.profsoftware.com/tsadd/prod.htm#BSP>

Rapid Response Smooth Average

<http://www.profsoftware.com/tsadd/prod.htm#RareAvg>

Trend Reversal and Strength Indicator

<http://www.profsoftware.com/tsadd/prod.htm#TrendRev>

Robust Regression System

<http://www.profsoftware.com/tsadd/prod.htm#RRS>

Advanced Normalized Momentum Indicator

<http://www.profsoftware.com/tsadd/prod.htm#Mom>

Identify best Trading Opportunities-TradingGems

<http://www.profsoftware.com/tsadd/prod.htm#FindGem>

Bar Countdown Utility

<http://www.profsoftware.com/tsadd/prod.htm#Countdown>

Export any Tradestation Data to your Spreadsheet

<http://www.profsoftware.com/tsadd/prod.htm#Export>

TradeStation Consulting and Products

<http://www.profsoftware.com/tsadd>

Powerfull set of UNIX and other utilities

<http://www.profsoftware.com/unixdos>

Database and XML Toolkit

<http://www.profsoftware.com/dbtkxml>

Internet Connection Monitor

<http://www.profsoftware.com/intcomon>

Disclaimer

The performance of the "Universal Trend Detection (UNITRDES)" is based on hypothetical trading performance information. With respect to such performance, please note the following: Hypothetical or simulated performance results have certain inherent limitations. Simulated trading programs in general are also subject to the fact that they are designed with the benefit of hindsight. No representation is being made that an account will or is likely to achieve profits. Trading in the futures and commodities markets involves substantial risk and YOU CAN LOSE A LOT OF MONEY, and thus is not appropriate for everyone. You should carefully consider your financial condition before trading in these markets, and only risk capital should be used.

Non-Disclosure and Disclaimer Statement:

The "Universal Trend Detection (UNITRDES)" from "Professional Software Solutions (PSS)" are speculative trading techniques designed to buy and sell automatically or assist you in discretionary trading.. No claims as to past, present or future profitability of these services or other PSS methods are made, and there is no guarantee that the system will provide any profits to traders using the system, and indeed may cause such traders to incur losses.

All signal alerts generated are provided for educational purposes only. Any trades placed upon reliance on UNITRDES are taken at your own risk for your own account. Past performance is no guarantee of future results. While there is great potential for reward when trading commodity futures, there is also substantial risk of loss in all trading. You must decide your own suitability to trade. Future trading results can never be guaranteed. This is not an offer to buy or sell futures, stocks, ETF's, FOREX, options or commodity interests. Traders assume full liability for all trading risks and outcomes. PSS or its employees and associates are not responsible for ANY loss or profit.

We make no performance claims of any kind. You hereby agree to all terms on this page before you use UNITRDES, or any derivate, any service provided by PSS.

Disclaimer

The UNITRDES system from PSS generate trading signals and is not investment advice. We have no financial interest in the outcome of any trades. There is substantial risk of loss trading stocks, futures, FOREX, options and commodities. You need to determine your own suitability to trade them. There may be tax consequences for short term profits/loss on trades. Consult your tax advisor for details on this if applicable.

Commodity Futures Trading Commission and Other Disclaimers

Neither PSS, not its principals, officers or employees are CTAs. Trading any of the UNITRDES system's signals presumes you have fully read and understood the risks involved in trading stock, futures/commodities as set forth below:

Additional Notices

There are no guarantees or certainties in trading. Reliability of trading signals for mechanical systems is in probabilities only. Trading involves hard work, risk, discipline and the ability to follow rules and trade through any tough periods during a system draw-downs. If you are looking for guarantees, trading is not for you. Most people lose in trading. One of the reasons is that they lack discipline and are unable to be consistent. A system can help you become consistent. The ability to be disciplined and take the trades is equally as important as any technical indicators a trader uses. Ironically, worrying about the money aspect of trades can contribute to and cause a trader to make trading errors. Therefore, it is important to only trade with true risk capital.

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Your Obligation to Indemnify Us

You agree to indemnify, defend and hold harmless PSS, and its officers, directors, employees, agents, information providers and suppliers from and against all claims, causes of action, suits, losses, expenses, damages and costs, including reasonable attorney's fees, arising out of, in connection with or relating to any violation by you of the Subscription Agreement or these Terms of Use, including claims of infringement of intellectual property or other third party rights, or otherwise, directly or indirectly resulting from or attributable in any way to any access to, use of or posting of material or content on the any site by you.

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The Subscription Agreement and these Terms of Use together constitute an additional agreement between you and PSS and the prior agreement between you and PSS will remain in effect.

The Subscription Agreement and the limited license granted to you are personal to you, and may not be assigned or transferred by you to anyone else. You also agree that you will not allow anyone else to access the UNITRDES product using the same CustomerID unless such other person has also registered as a subscriber. You agree that you will be solely responsible for any liability arising from any third party access to or use of the UNITRDES product that you permit or facilitate.

This Agreement shall be governed by and construed in accordance with Hawaii law, without regard to that state's choice of law rules. You agree that your use of the site constitutes activity in Hawaii and for the purpose of litigating any dispute arising under this Agreement, you agree that any action commenced against PSS shall be commenced and maintained solely in a federal or state court of competent subject matter jurisdiction within the jurisdiction of the U.S. District Court for the Honolulu county of Hawaii. You also agree to submit and consent to the personal jurisdiction and venue of any such court in the event PSS commences an action against you.

If any term or provision of the Subscription Agreement or of these Terms of Use is finally found by a court of competent jurisdiction to be void, invalid, unenforceable or otherwise contrary to law, the remainder of the Subscription Agreement or Terms of Use, as the case may be, that can be given effect without such term or provision, shall be given full effect.

Any failure by PSS to enforce strict performance of any provision of the Subscription Agreement or the Terms of Use will not constitute a waiver of its right subsequently to enforce such provision or any other provision of the Subscription Agreement or Terms of Use.

Trading Signals

I also acknowledge that PSS recommends and advises all its members track and keep their own statistical results on trades and to develop an independent understanding in accordance with this software and I take complete responsibility for their trades and acknowledge and accept the risks associated with trading.

How to Become a Subscriber

Submit your order online with your CustomerID and pay a subscription fee. You will receive a matching registration key via the email placing the order. You promise to adhere to this agreements and will be legally obligated to observe the terms and conditions of our Subscription Agreement and the Terms of Use of the PSS site, which follow.