

# DAS TRADER PRO ADVANCED HOTKEYS – A PRIMER

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- Speed and efficiency are paramount in the fast-paced world of stock trading, particularly day trading. As traders, we are constantly seeking tools to gain an edge in the market. One such tool that has gained popularity among day traders is DAS Trader Pro, renowned for its robust platform and advanced hotkey scripting capabilities.
- As I share insights about DAS's Advanced Hotkeys, I want to underscore that most of the knowledge I've acquired about this craft—like many others in the trading community—was generously shared. I must acknowledge that I have no official affiliation with DAS Trader Pro software and that my present information is based solely on personal experience.
- This presentation serves as my way of giving back—a small contribution to the community that has provided me with so much. Everything discussed here is intended for educational purposes only. It's crucial always to conduct your due diligence and independently verify any details, as this responsibility ultimately lies with you.

## The concept

- The purpose of this exercise was to create a set of hotkeys for my trading. My hotkeys came from various good Samaritans willing to share; not all are equally effective. Understanding the complexity of the script itself was challenging at first. It's essential to test your hotkeys before trading, as you may realize they are not working as intended or don't meet your specific needs.
- I set out to create a single hotkey script to fulfill most of my trading requirements, **from buying options calls and puts to trading shares of stocks, long or short, while managing risk**. The accompanying Excel spreadsheet allows you to input your specific settings. Want to trade stocks, long or short? Options, buying Calls, or Puts? Adjust risk levels? It's all there. You create a script that aligns precisely with your trading style by customizing these parameters.

## Script Flow

In this section, I will summarize the key steps in the script, from initializing variables to setting up the trigger order based on the defined trading strategy.

1. Initialize trading variables using the accompanying Excel spreadsheet (risk per trade, position size, price offsets, etc.).

| Parameters               |        |
|--------------------------|--------|
| Symbol Class :           | EQ     |
| Order Status :           | LOAD   |
| Transaction Bias :       | SHORT  |
| Risk Type :              | FIX    |
| Dollar Risk per trade :  | 500    |
| Position Size (FULL) :   | 100%   |
| % BP @ Risk per Trade :  | 5%     |
| Bid/Ask Price offset :   | -      |
| Stop Loss Price Buffer : | -      |
| Preferred Route :        | SMAT   |
| Time In Force (ORDER) :  | DAY+   |
| Time In Force (SL) :     | GTC    |
| Stop Type :              | MARKET |

2. Check trade bias:
  - a. If **LONG**: Calculate the buy price and set up a **SELL** stop-loss order.
  - b. If **SHORT**: Calculate the selling price and set up a **BUY** stop-loss order.
3. Compute position sizing:
  - a. Account-based sizing uses percent position size, buying power, and risk percentage.

$$\text{Acnt. - Based Pos. Size} = \% \text{ Pos. Size} * \% \text{ BP @ Risk} * \text{BP}$$

- b. Risk-based sizing using fixed dollar risk or percentage risk.
  1. *Dollar Risk :*

$$\text{Risk - Based Pos. Size} = \frac{\% \text{ Pos. Size} * \text{Dollar Risk Per Trade}}{\text{Price-to-Stop Difference}}$$

2. *Percent Risk :*

$$\text{Equity @ Risk} = \frac{\% \text{ BP @ Risk} * \text{BP}}{\text{Account Leverage}}$$

$$\text{Risk - Based Pos. Size} = \% \text{ Pos. Size} * \% \text{ Risk Per Trade} * \text{Equity @ Risk}$$

4. Adjust position sizing for options/stocks trading and ensure sufficient funds.
5. Determine minimum position size based on the lesser of account-based or risk-based sizing.
  - i.  $\text{Min Pos} = \text{Min} (\text{Risk - Based Pos. Size} , \text{Acnt. - Based Pos. Size})$
6. Prepare order details (price, route, time in force).
7. Execute or load the appropriate **BUY** or **SELL** order based on trade bias and order status.
8. Set up trigger order with stop type, price, action, and quantity.

### ***How to use the Script (please see prerequisite section)***

Using the script is straightforward if the script is linked to a hotkey:

- Double-click on your chart at your desired stop-loss price.
- Activate the hotkey linked to the script

### ***Conclusion***

In the exhilarating world of stock trading, where split-second decisions can either make or break fortunes, speed and efficiency serve as our trusted allies. Time saved is not merely a commodity but the defining factor between seizing an opportunity and watching it disappear. Cross-verifying information remains wise, just as one inspects a parachute before taking the plunge.

This presentation humbly supports the trading community by fostering growth through education. Connect with me on X [@ItoTheTrader](#) where I will do my best to address some of your questions/bugs and suggestions and try to improve. Happy trading!

Despite my best efforts, there may be some errors in this document. I apologize if you come across any. After all, making mistakes is human, and I am only a mortal armed with a keyboard and a spellchecker.

## SCRIPT BREAKDOWN

### 1. Variable Initialization (using the Excel spreadsheet):

- `$dolRiskPerTrade=500;` //Sets the dollar risk per trade to \$500.
- `$pctPosSize=1;` //Sets the percentage position size to 100%.
- `$priceOffset=0;` //Sets the price offset to 0 (no offset because here it is a MARKET order).
- `$priceOffsetSL=0;` //Sets the stop-loss price offset to 0. – Also a MARKET order
- `$symbolClass="EQ";` //Specifies the trading symbol class as “EQ” (equities).
- `$trxBias="SHORT";` //Indicates a short bias for the trade.
- `$prefRoute="SMAT";` //Sets the preferred route for order execution – Broker dependent
- `$timeInForceOrder="DAY+";` //Specifies the time in force for the order (e.g., “DAY+” means good till the end of the day; see time in force section below).
- `$timeInForceSL="GTC";` //Sets the time in force for the stop loss (e.g., “GTC” means Good Till Canceled).
- `$stopType="MARKET";` //Specifies the stop type as “MARKET.” this is broker-dependent
- `$pctBPAtRiskPerTrade=0.05;` //Sets the percentage of buying power at risk per trade to 5%.
- `$riskType="FIX";` //Indicates a fixed or dollar risk type.
- `$acntLeverage=4;` //Sets the account leverage to 4; please check with your broker
- `$pctRiskPerTrade=0.01;` //Sets the percentage risk per trade to 1%.
- `$orderStatus="SEND";` //Sets the order status to “SEND.”

### 2. Trade Bias Conditional Block :

```
if ($trxBias=="LONG"){
    $trxPrice=ASK+$priceOffset;
    $dblClickStop=Price;
    $priceToStopDif=ABS($trxPrice-$dblClickStop);
    $_ACT="SELL";
    $_Px=ABS($dblClickStop-$priceOffsetSL);
}else{
    $trxPrice=BID-$priceOffset;
    $priceToStopDif=$dblClickStop-$trxPrice;
    $_ACT="BUY";
    $_Px=$dblClickStop+$priceOffsetSL;
}
```

This code adjusts the `$trxPrice` based on the value of `$trxBias`. Depending on the bias (“LONG” or “SHORT”), it calculates the stop price difference (`$priceToStopDif`) and sets the action (`$_ACT`) and price (`$_Px`) accordingly for later use.

### Trade Bias Check:

- The **if** statement checks the variable (**\$trxBias**) for a “LONG” position.
- **Long Position Logic:**
  - **Transaction Price Calculation:**
    - If the trading bias is “LONG,” the buying price (**\$trxPrice**) is calculated by adding a price offset (**\$priceOffset**) to the current ask price (**ASK**). Personally I prefer buying at **MARKET**, so if there is enough demand, I will add the option of constructing your transaction price based on “ASK” or “BID”.
      - **\$trxPrice=ASK+\$priceOffset;**
  - **Stop Price Setting:**
    - The stop price (**\$dblClickStop**) is set to a value (**Price**) selected from the chart interface by double-clicking on the desired price level. Please see the Prerequisite section below to enable this feature.
      - **\$dblClickStop=Price;**
  - **Price Difference Calculation:**
    - The difference between the transaction and stop prices (**\$priceToStopDif**) is calculated to determine the number of shares or contracts based on your risk appetite, if you selected the Fix-risk option.
      - **\$priceToStopDif=ABS(\$trxPrice-\$dblClickStop);**
  - **Stop-Loss Order Preparation:**
    - An action (**\$\_ACT**) is set to “SELL”, which means a sell order will be placed as a stop-loss trigger if the market price reaches the stop price.
      - **\$\_ACT="SELL";**
      - The price for the stop-loss limit order (**\$\_Px**) is set by subtracting the price offset for the stop loss (**\$priceOffsetSL**) from the stop price **\$\_Px=ABS(\$dblClickStop-\$priceOffsetSL);**
- **Short Position Logic:**
  - **Transaction Price Calculation:**
    - If the trading bias is not “LONG,” implying a “SHORT” position, the selling price (**\$trxPrice**) is calculated by subtracting the price offset from the current bid price (**BID**) only for **LIMIT** orders.
      - **\$trxPrice=BID-\$priceOffset;**
  - **Price Difference Calculation:**
    - The difference between the transaction and stop prices (**\$priceToStopDif**) is calculated to determine the number of shares or contracts based on your risk appetite.
      - **\$priceToStopDif=\$dblClickStop-\$trxPrice;**
  - **Stop-Loss Order Preparation:**
    - An action (**\$\_ACT**) is set to “BUY”, preparing a buy order to act as a stop-loss trigger if the market price reaches the stop price.
      - **\$\_ACT="BUY";**
      - The price for the stop-loss limit order (**\$\_Px**) is set by adding the price offset for the stop loss to the stop price.
        - **\$\_Px=\$dblClickStop+\$priceOffsetSL;**
  - **N.B.** . I will probably remove the **ABS()** functions from the script, as it is a remnant of my debugging sessions.

### 3. Compute Position Sizing :

```
$acntBasedPosSizing=$pctPosSize*BP*$pctBPAtRiskPerTrade;
if($riskType=="FIX"){
    $riskBasedPosSizing=$pctPosSize*$dolRiskPerTrade/$priceToStopDif;
}else{ $equityShares=$pctBPAtRiskPerTrade*BP/$acntLeverage;
    $riskBasedPosSizing=$pctPosSize*$pctRiskPerTrade*$equityShares;}
```

This code snippet calculates the size of a trading position based on your risk management strategy. This could be a fixed dollar amount or a percentage of your account's buying power (BP). As traders, we must manage risk to avoid losing more than we can afford on a single trade. Remember that the name of the game is capital preservation.

- **Account-Based Position Sizing:**

- The variable **\$acntBasedPosSizing** is calculated as the product of three factors:

**`$acntBasedPosSizing=$pctPosSize*BP*$pctBPAtRiskPerTrade`**

- **\$pctPosSize**: The percentage of the position size; for example, if you are confident about the probability of your trade, you might want to go full size (100%). Or, if you are not optimistic about your setup, you might start with a filler (say, 25% of your average size) and scale in if the trade works in your favor.
- **BP**: Stands for Buying Power, the total shares available for trading the current ticker; DAS calculates this number by dividing your account value by the last price of the traded symbol. In a future version, I will use the new function from DAS; BP used here is from the original hotkeys (see below for new function usage).
- **\$pctBPAtRiskPerTrade**: The percentage of your Buying Power you will risk on a single trade. For now, it is based on your BP; eventually, I would make it a function of your equity value instead, maybe even taking PDT into consideration. DAS has included a property **Equity** of the **GetAccountObj("ACNT")** object that does that, but I decided to derive it myself and will change it in a future version.
- New Object/Function and properties from DAS
  - **\$myAccount = GetAccountObj("MYACCOUNT\_NO");**
  - **\$myEquity = \$myAccount.Equity;**
  - **\$myBP = \$myAccount.BP;**
  - **\$myNBP = \$myAccount.NBP;**

#### 4. Position Sizing Adjustment:

```
if ($symbolClass=="OPT"){
    if($riskBasedPosSizing<100){
        $riskBasedPosSizing=ROUND($riskBasedPosSizing,101);
        if($acctBasedPosSizing<100){
            MsgBox("Not enough funds for current transaction.\n Script will
terminate...");
            return;}}
    $lotSize=100;}
else{if($riskBasedPosSizing<1){
    $riskBasedPosSizing=1;
    if($acctBasedPosSizing<1){
        MsgBox("Not enough funds for current transaction. \n Script
will terminate.");
        return;}}
    $lotSize=1;}
```

This snippet dynamically adjusts the position size (**\$lotSize**) based on risk considerations and the type of trading instrument (options or shares). It ensures the trader doesn't risk too much based on their available fund.

- The snippet begins with an **if** statement that checks whether the trading symbol class (**\$symbolClass**) is equal to "OPT" (options).
  - **If** it is, the following actions occur:
    - If the risk-based position sizing is less than 100 (**\$riskBasedPosSizing<100;**), the value of **\$riskBasedPosSizing** is rounded to 100 places using the **ROUND** function, with **precision** of 101, which will round to the closest even lots. FYI, a precision of 100 will round down to even lots **\$riskBasedPosSizing=ROUND(\$riskBasedPosSizing,101);**
  - But **If** your account-based position sizing is also less than 100 (**\$acctBasedPosSizing<100**), meaning you cannot afford to buy at least one contract:
    - A message box displays an error: "Not enough funds for the current transaction. Script will terminate..."
    - The script exits immediately using the **return** statement.
  - The **\$lotSize** variable is set to 100 (**\$lotSize=100**); since we are trading options, remember that the minimum unit is a contract which equals 100 shares.
- Otherwise (trading shares instead "EQ"):
  - **If** the risk-based position sizing is less than 1:
    - **\$riskBasedPosSizing** is set to 1, allowing you to trade at least one share.
  - But **If** your account-based position sizing is also less than 1:
    - A message box displays an error: "Not enough funds for the current transaction. Script will terminate..."
    - The script exits immediately using the **return** statement.
  - The **\$lotSize** variable is set to 1; **\$lotSize=1;**

## 5. Minimum Position sizing

```
if($riskBasedPosSizing<$acctBasedPosSizing){  
    $minPosition=$riskBasedPosSizing/$lotSize;}  
else{ $minPosition=$acctBasedPosSizing/$lotSize;}  
if($riskBasedPosSizing<$acctBasedPosSizing){  
    $minPosition=$riskBasedPosSizing/$lotSize;}
```

This code snippet adjusts the minimum position size based on both risk considerations and available account funds. It selects the smaller value between the two; you may be able to purchase a specific number of shares or contracts based on your risk appetite, but you might not have enough funds to do so.

- We calculate a risk-based position size (**\$riskBasedPosSizing**), which reflects how many shares or contracts you could ideally trade based on your risk appetite. However, risk alone doesn't tell the whole story.
- Remember, that the account-based position size (**\$acctBasedPosSizing**) considers your actual available funds and ensures that you don't exceed your account balance. The snippet then compares these two position sizes and chooses the smaller value—essentially the more conservative approach.
  - $\$minPosition = \text{Min}(\$riskBasedPosSizing, \$acctBasedPosSizing)$

## 6. Order details

```
StopPrice=$dblClickStop;  
StopPrice=ROUND3;  
Share=$minPosition;  
SShare =0;  
SShare=$minPosition;  
TogSShare=$minPosition;  
Price=$trxPrice;  
ROUTE=$prefRoute;  
TIF=$timeInForceOrder;
```

This snippet initializes various trading-related variables, such as stop price, position size, execution price, routing, time in force., etc.

- **StopPrice:**
  - The command **StopPrice** is assigned the value of **\$dblClickStop**. This is the price at which a stop order will trigger. Remember that **\$dblClickStop** was selected from the chart.
  - The same command **StopPrice** is rounded to 3 decimal places, in hindsight, not necessary (**ROUND3**)

- **Share:**
  - The command **Share** is assigned the value of **\$minPosition**; it is used to set the number of shares or contracts to be traded.
- **SShare**
  - The command **SShare (ShowShare)** is initially set to 0; it might not be necessary; this is probably during one of my debugging sessions. In any event, it is used for reserved orders; it sets the number of shares you want to show. Most likely, I will remove it from my next version since I am showing all my shares anyway.
- **TogSShare:**
  - The command **TogSShare** is assigned the value of **\$minPosition**; it toggles the show share box on or off. Again, from one of my debugging sessions.
- **Price:**
  - The command **Price** is assigned the value of **\$trxPrice**; It stands for the price at which the trade will be executed for a **LIMIT** order. If your route is **MARKET**, this **Price** will be set to the market price at the time of the transaction. Therefore, it is essential to specify the preferred route after this line of code. If **Price** is set after the **ROUTE** command, DAS will assume a **LIMIT** order and sends it to the market instead.
- **ROUTE:**
  - The variable **ROUTE** is assigned the value of **\$prefRoute**, previously set using the accompanying Excel.
  - **ROUTE** specifies the routing destination for the order. Please check with your broker.
- **Time in Force (TIF)**
  - As the name implies, it sets the time in force of the order. The following are the most common ones. Please check the DAS manual for more.
    - **DAY:** Set Time in Force of Day
    - **DAY+:** Set Time in Force of Day (order expires at 08:00 p.m.)
    - **GTC:** Set Time in Force as GTC, i.e., Good Till Cancel

## 7. Order Status

```

if ($trxBias=="LONG"){
    if($orderStatus=="SEND"){
        BUY=Send;
    }else{
        BUY=Load;
    }
}else{if ($orderStatus=="SEND"){
    SELL=Send;
}else{
    SELL=Load;
}
}

```

This code snippet determines the correct action (**BUY or SELL**) based on two conditions: **\$trxBias** (trading bias) and **\$orderStatus** (status of the order). Initially, I attempted to assign **BUY** and **SELL** to a variable, but DAS did not support that. Therefore, I resorted to hard coding it into the script. See the known issues section.

- Trading Bias ("LONG") :
  - If the trading bias is "LONG" (meaning the trader is looking to buy):
    - If the order status is "SEND" (indicating an order is being sent):
      - The action is set to **BUY=Send**, meaning the order will be sent to the market without user intervention.
    - Otherwise the status is "LOAD" :
      - The action is set to **BUY=Load**, meaning the order will be loaded to the montage and will await user action to send it to the market.
- Trading Bias ("SHORT") :
  - If the trading bias is "SHORT" :
    - If the order status is "SEND" :
      - The action is set to **SELL=Send**, meaning the order will be sent.
    - Otherwise the status is "LOAD" :
      - The action is set to **SELL=Load**. The order will be loaded to the montage and await user action before being sent to the market.

## 8. Stop Loss Trigger Order

```
TriggerOrder=RT:STOP
STOPTYPE:$stopType
PX:$_Px
ACT:$_ACT
STOPPRICE:$dblClickStop
QTY:Pos
TIF:$timeInForceSL
```

This snippet creates and sends the stop order trigger to the market.

### Trigger Type and Order Type:

- **TriggerOrder=RT:STOP**: Set the trigger type for the order. In this case, it is a **STOP** order. This trigger order will be sent to the market after the primary order has been filled out.
- **STOPTYPE:\$stopType**: The variable \$stopType determines the type of stop order. Depending on its value:
  - If \$stopType is "**MKT**," it's a market stop order (executes at the best available price).
  - If it's "**LMT**," it becomes a limit stop order (you specify a specific price).
  - If set to "**TRAIL**," it's a trailing stop order (adjusts dynamically based on stock movement). Please note that the current version of the script only accommodates **MARKET** and **LIMIT** as **STOPTYPEs**.

In the code I wrote, I used the "MARKET" route instead of the listed type from the DAS manual, and it worked. You may want to check with your broker. In any case, I believe it should default to the default route of your broker if it cannot find one..

### Price and Action:

- **PX:\$Px**: The variable **\$Px** represents the price level at which the stop order will trigger (for **LIMIT** order only, has no effect on a **MARKET** order); for a **MARKET** order, see **STOPPRICE** below.
- **ACT:\$ACT**: Determines the action associated with the stop order; based on **\$trxBias**:
  - If **\$ACT** is "BUY," the stop order triggers a buy order, since the original order was a "SHORT".
  - If it's "SELL," it triggers a sell order, since the original order was a "LONG".

### Stop Price and Quantity:

- **STOPPRICE:\$dblClickStop**: The variable **\$dblClickStop** specifies the actual stop price level; is the price selected from the chart interface by double-clicking on the desired price level.
- **QTY:Pos**: The order quantity is based on your current position (**Pos**). In other words, how many shares/contracts you originally transacted.

### Time-in-Force:

- **TIF:\$timeInForceSL**: The variable **\$timeInForceSL** sets the time-in-force for the order.

### 9. Knows issues

- The size limit for your script is limited, so I haven't confirmed the maximum number of characters allowed. As a result, I have been breaking down my **MsgBox()** debugging messages. It's worth noting that the latest version [5.7.9.8 x64] seems to have increased the script size limit.
- If you're copying an existing script from Excel, ensure that all of the original script is deleted. Sometimes, after pasting, unwanted characters may appear at the beginning of the script. The symptom of this issue is that your hotkey won't trigger any action. ( Figure 1)
- It's not possible to assign some original DAS commands/properties to a variable. So far, I have encountered this issue with 'SEND' and 'LOAD'.
- Most **GetQuoteObj()** functionality only works for equities, not options. No word from DAS when or if it will be implemented. See below for examples:

- **\$symbol = GetQuoteObj(\$currentSymbol);**
- **\$symbHi = \$symbol.Hi;**
- **\$symbLo = \$symbol.Lo;**
- **\$symbOpen = \$symbol.Open;** //Ok for Options, see validation section
- **\$symbLast = \$symbol.Last;** // Ok for Options, see validation section

- In the Event Log, you might find some errors despite the fact the other was sent successfully to DAS

|  |          |           |                                                                                |
|--|----------|-----------|--------------------------------------------------------------------------------|
|  | 10:31:24 | Error     | ScriptError:1 Line:1 Error:Property LIMIT not exist! use value "LIMIT" instead |
|  | 10:31:24 | Trade Log | Sending Buy +AAPL AF6S215 5 0 94 SMAT 10:31:25 U19622048 Qid:41321             |

```

if ($trxBias = "LONG") {
    if ($orderStatus=="SEND") {
        BUY=Send;
    } else {
        BUY=Load;
    }
} else {
    if ($orderStatus=="SEND") {
        SELL=Send;
    } else {
        SELL=Load;
    }
}
TriggerOrder=RT:STOP
$trxBias=$trxBias
$Px=$Px
$ACT=$ACT
STOPPRICE=$dblClickStop
QTY=Pos
TIF=$timeInForceSL

```

|          |       |                                                                                              |
|----------|-------|----------------------------------------------------------------------------------------------|
| 09:35:38 | Error | ScriptError:1 Line:19 Error:variable \$dblClickStop not exist! use value "\$dblClickStop" in |
| 09:35:38 | Error | ScriptError:1 Line:21 Error:variable \$dblClickStop not exist! use value "\$dblClickStop" in |

- Be mindful of your routes. Sometimes, your broker might assign you one route, but in the background (check the log event), another route is actually sent to the market.
- Also, keep in mind that some original script commands or properties can be interpreted as strings, while others cannot; I am still trying to figure out this issue. You may need to experiment with them.
- After sending the trigger to the market, DAS seems to clear all its variables from memory. I was unable to retrieve any data beyond that. I will check again with the new version, but in hindsight, it might have been the script limit.

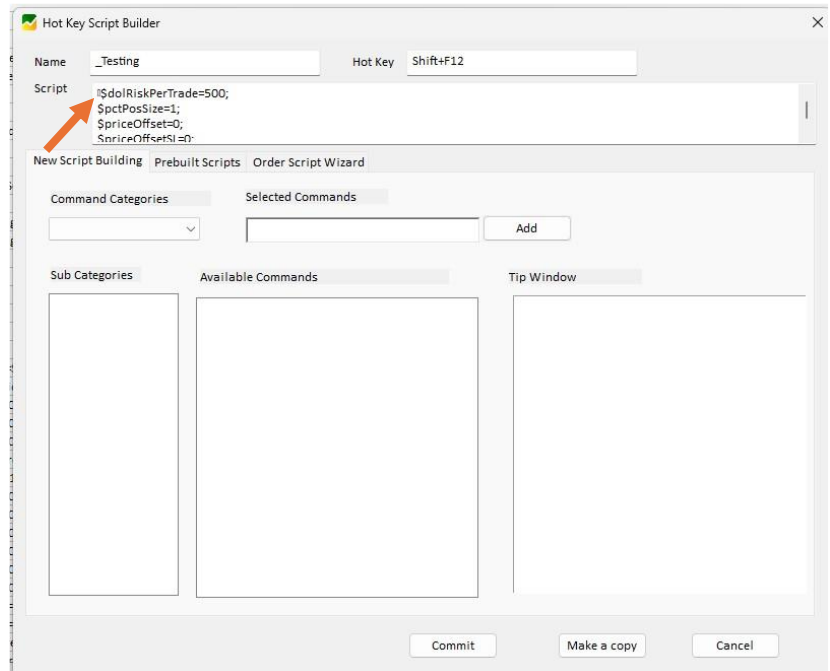


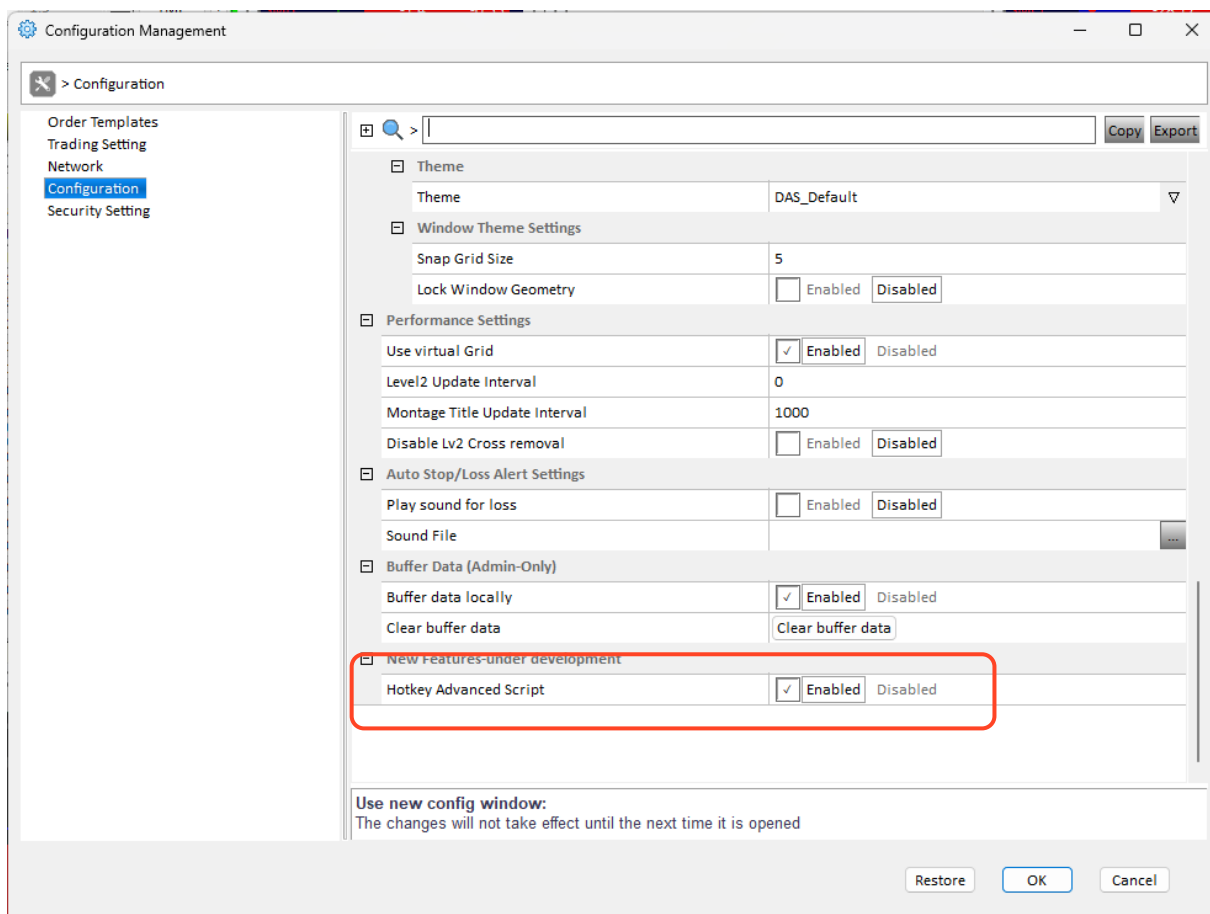
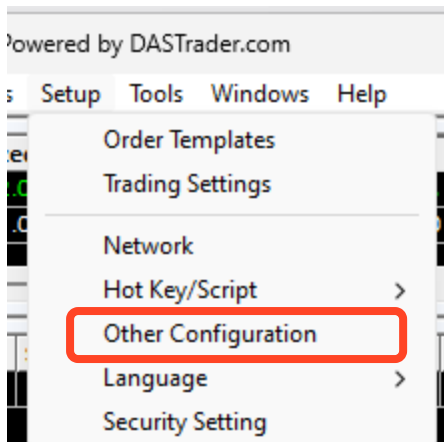
Figure 1. Special Character after pasting script.

## 10. Nice to have

- **BETTER DOCUMENTATION**
  - As a user, I'd like to encourage the DAS developers to enhance their documentation efforts. While I appreciate the continuous release of new features, clear guidelines on using them are equally crucial. Without proper documentation, we rely on deduction and trial and error. Let's ensure that every feature's purpose is well understood, making the user experience smoother and more efficient.
- Better script builder screen/dialog box with :
  - Intellisense (why not) and
  - Function definitions since DAS provides no documentation.
  - Syntax Coloring to distinguish DAS commands from variables, objects, funtions etc.
- A function that can distinguish if a "TICKER" is an Options or a Stock
- Ability to create user defined functions with parameters.
- Some basic math functions like (min(), max(), mod() etc..)
- GetMilliSecond()
- Script Debug/Log possibilities
- Roadmap of the new functionalities

## 11. Pre-Requisites

- Enable Advanced Hotkeys



- Chart Trading
  - Right Click on Chart and Select Configure



Chart Configuration

> Chart Configure

Chart Configure  
Data Config  
Study Config  
Chart History  
Data Buffer

Default global trendline ☐ Enabled

Auto load/save global trendlines ☐ Enabled

Trend line gripper area size 1 ▾

Snap price to 0.01\$ ☐ Enabled

Price Axis Margin and Space

Y axis Margin 25

Fixed Margin ☒ Enabled

Only show margin for last point ☐ Enabled

Top bottom margin % 14

Price spacing (1 normal, 10 largest) 2 ▾

Crosshair Settings

Line Style ▾

Label Text Color 128,255,128 ▾

Label Background Color 0,64,0 ▾

Draw cross hair when mouse moves ☒ Enabled

Sync crosshair drawing with other charts ☐ Enabled

Settings

Double-click to trade ☒ Enabled

Settings include the studies, screen layout, etc.

Others

Horizontal Grid Line:  
Horizontal Grid Line

Restore OK Cancel

## 12. Debugging Script

- Please insert the debugging code snippet after all the utilized variables in the script are set, but before the Order Details section. For the validation script, used in the validation section below, please refer to the accompanying excel file for a detailed version..

```
// ===== START - Validation Code =====
MsgBox ("=====" + $currentSymbol + "=====" + "\n" + "\n" +
        "Hi :" + ROUND($symbol.Hi,3) + "\n" +
        "Lo :" + ROUND($symbol.Lo,3) + "\n" +
        "Open :" + ROUND(OPEN,3) + "\n" +
        "Last :" + ROUND(LAST,3) + "\n" +
        "===== SETTINGS/ASSUMPTIONS =====" + "\n" + "\n" +
        " Risk Per Trade: " + "$" + $dolRiskPerTrade + "\n" +
        " % BP @ Risk Per Trade : " + ROUND($pctBPAtRiskPerTrade*100,2) + "%" + "\n" +
        " Percent Position Size: " + ROUND($pctPosSize*100,2) + "%" + "\n" +
        " Price Offset: " + $priceOffset + "\n" +
        " Symbol Class: " + $symbolClass + "\n" +
        " Transaction Direction: " + $trxDir + "\n" +
        " Preferred Route: " + $prefRoute + "\n" +
        " Time In Force Order: " + $timeInForceOrder + "\n" +
        " TIF Stop Loss: " + $timeInForceSL + "\n" +
        " Stop Type: " + $stopType + "\n" + "\n" +
        "===== DATA/CALCULATIONS =====" + "\n" + "\n" +
        "BID : " + ROUND(BID,3) + "\n" +
        "ASK : " + ROUND(ASK,3) + "\n" +
        "Trx. $ : " + ROUND($trxPrice,3) + "\n" +
        " Stop Loss: " + $dblClickStop + "\n" +
        " Price to Stop Delta: " + $priceToStopDif + "\n" +
        "-----" + "\n" + "\n" +
        " Risk Based Pos Size: " + $RiskBasedPosSizing + "\n" +
        " Acnt Based Pos Size: " + $AcntBasedPosSizing + "\n" +
        " Lot size : " + $lotSize + "\n" +
        " Min Postions : " + $minPosition + "\n" +
        "-----TRIGGER ORDER -----" + "\n" + "\n" +
        "SL Price Offset : " + $priceOffsetSL + ")" + "\n" +
        "ST Type : " + $stopType + "\n" +
        "Px : " + $ _Px + "\n" +
        "ACT : " + $ _ACT + "\n" +
        "TIF : " + $timeInForceSL);
// ===== END - Validation Code =====
```

N.B. A more detailed version is found in the Excel file.

### 13. Excel Template

#### ○ Dollar Risk

| Parameters               |        |
|--------------------------|--------|
| Symbol Class :           | EQ     |
| Order Status :           | SEND   |
| Transaction Bias :       | LONG   |
| Risk Type :              | FIX    |
| Dollar Risk per trade :  | 500    |
| Position Size (FULL) :   | 100%   |
| % BP @ Risk per Trade :  | 5%     |
| Bid/Ask Price offset :   | -      |
| Stop Loss Price Buffer : | -      |
| Preferred Route :        | SMAT   |
| Time In Force (ORDER) :  | DAY+   |
| Time In Force (SL) :     | GTC    |
| Stop Type :              | MARKET |

```
Hotkey Script [V0.32 | DAS v.5.7.9.3x64 +]

$dolRiskPerTrade=500;
$pctPosSize=1;
$priceOffset=0;
$priceOffsetSL=0;
$symbolClass="EQ";
$trxBias="LONG";
$prefRoute="SMAT";
$timeInForceOrder="DAY+";
$timeInForceSL="GTC";
$stopType="MARKET";
$pctBPATRiskPerTrade=0.05;
$riskType="FIX";
$acntLeverage=4;
$pctRiskPerTrade=0.01;
$orderStatus="SEND";
CXL ALLSYMB;
if ($trxBias=="LONG"){
    $trxPrice=ASK+$priceOff;
    $dblClickStop=Price;
    $priceToStopDif=ABS($tr
    $_ACT="SELL";
    $Px=ABS($dblClickStop-!
}else{
    $trxPrice=BID-$priceOff;
    $priceToStopDif=ABS($db
    $_ACT="BUY";
    $Px=$dblClickStop+$pri
}
$acntBasedPosSizing=$pctPosSize;
if($riskType=="FIX"){
    $riskBasedPosSizing=$pct
}else{
    $equityShares=$pctBPATR;
    $riskBasedPosSizing=$pct
```

#### ○ Percent Risk

| Parameters               |        |
|--------------------------|--------|
| Symbol Class :           | EQ     |
| Order Status :           | SEND   |
| Transaction Bias :       | LONG   |
| Risk Type :              | %      |
| % Risk Per Trade :       | 1.00%  |
| Acnt. Leverage :         | 4:1    |
| Position Size (FULL) :   | 100%   |
| % BP @ Risk per Trade :  | 5%     |
| Bid/Ask Price offset :   | -      |
| Stop Loss Price Buffer : | -      |
| Preferred Route :        | SMAT   |
| Time In Force (ORDER) :  | DAY+   |
| Time In Force (SL) :     | GTC    |
| Stop Type :              | MARKET |

```
Hotkey Script [V0.32 | DAS v.5.7.9.3x64 +]

$dolRiskPerTrade=500;
$pctPosSize=1;
$priceOffset=0;
$priceOffsetSL=0;
$symbolClass="EQ";
$trxBias="LONG";
$prefRoute="SMAT";
$timeInForceOrder="DAY+";
$timeInForceSL="GTC";
$stopType="MARKET";
$pctBPATRiskPerTrade=0.05;
$riskType="%";
$acntLeverage=4;
$pctRiskPerTrade=0.01;
$orderStatus="SEND";
CXL ALLSYMB;
if ($trxBias=="LONG"){
    $trxPrice=ASK+$priceOff;
    $dblClickStop=Price;
    $priceToStopDif=ABS($tr
    $_ACT="SELL";
    $Px=ABS($dblClickStop-!
}else{
    $trxPrice=BID-$priceOff;
    $priceToStopDif=ABS($db
    $_ACT="BUY";
    $Px=$dblClickStop+$pri
}
$acntBasedPosSizing=$pctPosSize;
if($riskType=="FIX"){
    $riskBasedPosSizing=$pct
}else{
    $equityShares=$pctBPATR;
    $riskBasedPosSizing=$pct
```

○ % Risk – Equity (SHORT|LONG)

| Parameters               |         |
|--------------------------|---------|
| Symbol Class :           | EQ      |
| Order Status :           | SEND    |
| Transaction Bias :       | LONG    |
| Risk Type :              | %       |
| % Risk Per Trade :       | 1.00% ▼ |
| Acnt. Leverage :         | 4:1 ▼   |
| <hr/>                    |         |
| Position Size (FULL) :   | 100% ▼  |
| % BP @ Risk per Trade :  | 5% ▼    |
| Bid/Ask Price offset :   | - ▼     |
| Stop Loss Price Buffer : | - ▼     |
| Preferred Route :        | SMAT    |
| Time In Force (ORDER) :  | DAY+    |
| Time In Force (SL) :     | GTC     |
| Stop Type :              | MARKET  |

| Parameters               |         |
|--------------------------|---------|
| Symbol Class :           | EQ      |
| Order Status :           | SEND    |
| Transaction Bias :       | SHORT   |
| Risk Type :              | %       |
| % Risk Per Trade :       | 1.00% ▼ |
| Acnt. Leverage :         | 4:1 ▼   |
| <hr/>                    |         |
| Position Size (FULL) :   | 100% ▼  |
| % BP @ Risk per Trade :  | 5% ▼    |
| Bid/Ask Price offset :   | - ▼     |
| Stop Loss Price Buffer : | - ▼     |
| Preferred Route :        | SMAT    |
| Time In Force (ORDER) :  | DAY+    |
| Time In Force (SL) :     | GTC     |
| Stop Type :              | MARKET  |

○ Fix Risk – Equity (SHORT|LONG)

| Parameters               |        |
|--------------------------|--------|
| Symbol Class :           | EQ     |
| Order Status :           | SEND   |
| Transaction Bias :       | LONG   |
| Risk Type :              | FIX    |
| <hr/>                    |        |
| Dollar Risk per trade :  | 500    |
| <hr/>                    |        |
| Position Size (FULL) :   | 100% ▼ |
| % BP @ Risk per Trade :  | 5% ▼   |
| Bid/Ask Price offset :   | - ▼    |
| Stop Loss Price Buffer : | - ▼    |
| Preferred Route :        | SMAT   |
| Time In Force (ORDER) :  | DAY+   |
| Time In Force (SL) :     | GTC    |
| Stop Type :              | MARKET |

| Parameters               |        |
|--------------------------|--------|
| Symbol Class :           | EQ     |
| Order Status :           | SEND   |
| Transaction Bias :       | SHORT  |
| Risk Type :              | FIX    |
| <hr/>                    |        |
| Dollar Risk per trade :  | 500    |
| <hr/>                    |        |
| Position Size (FULL) :   | 100% ▼ |
| % BP @ Risk per Trade :  | 5% ▼   |
| Bid/Ask Price offset :   | - ▼    |
| Stop Loss Price Buffer : | - ▼    |
| Preferred Route :        | SMAT   |
| Time In Force (ORDER) :  | DAY+   |
| Time In Force (SL) :     | GTC    |
| Stop Type :              | MARKET |

○ **Fix Risk – Options (BUY CALLS| PUTS)**

| Parameters               |        |
|--------------------------|--------|
| Symbol Class :           | OPT    |
| Order Status :           | SEND   |
| Transaction Bias :       | LONG   |
| Risk Type :              | FIX    |
| Dollar Risk per trade :  | 500    |
| Position Size (FULL) :   | 100%   |
| % BP @ Risk per Trade :  | 5%     |
| Bid/Ask Price offset :   | -      |
| Stop Loss Price Buffer : | -      |
| Preferred Route :        | SMAT   |
| Time In Force (ORDER) :  | DAY+   |
| Time In Force (SL) :     | GTC    |
| Stop Type :              | MARKET |

○ **% Risk – Options (BUY CALLS| PUTS)**

| Parameters               |        |
|--------------------------|--------|
| Symbol Class :           | OPT    |
| Order Status :           | SEND   |
| Transaction Bias :       | LONG   |
| Risk Type :              | %      |
| % Risk Per Trade :       | 1.00%  |
| Acnt. Leverage :         | 4:1    |
| Position Size (FULL) :   | 100%   |
| % BP @ Risk per Trade :  | 5%     |
| Bid/Ask Price offset :   | -      |
| Stop Loss Price Buffer : | -      |
| Preferred Route :        | SMAT   |
| Time In Force (ORDER) :  | DAY+   |
| Time In Force (SL) :     | GTC    |
| Stop Type :              | MARKET |

○ **Worksheets**

- For your protection, the Excel sheet is protected by a password: 1234
- **'Script'**
  - This is where you will spend time adjusting your script per your strategy.
  - You would copy the script in **column I** starting at (Including) the first variable, **\$dolRiskPerTrade=500**; until the last row with data
  - You may choose to include comments (//comments) that are not required for the script to run. **'srcCode'**
  - This is the actual source code of the script, where the magic happens
- **'Setting'**
  - This is where you would change your routes as per your broker's instructions
- **'Debug'**
  - This is the script I use for debugging various parts of my code. It is a MsgBox() function call.

**14. Validation**

**Next Page**

# Validation – Options (Long Calls/Puts)

## Dollar Risk

| Parameters               |        |
|--------------------------|--------|
| Symbol Class :           | OPT    |
| Order Status :           | LOAD   |
| Transaction Bias :       | LONG   |
| Risk Type :              | FIX    |
| Dollar Risk per trade :  | 500    |
| Position Size (FULL) :   | 100%   |
| % BP @ Risk per Trade :  | 5%     |
| Bid/Ask Price offset :   | -      |
| Stop Loss Price Buffer : | -      |
| Preferred Route :        | SMAT   |
| Time In Force (ORDER) :  | DAY+   |
| Time In Force (SL) :     | GTC    |
| Stop Type :              | MARKET |

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Hi : 0  
Lo : 0  
Open : 1.27  
Last : 0.24

===== SETTINGS/ASSUMPTIONS =====

S Risk Per Trade: 500  
% BP @ Risk Per Trade: 5%  
Percent Position Size: 100%  
Price Offset: 0  
Symbol Class: OPT  
Transaction Direction: LONG  
Preferred Route: SMAT  
Time In Force Order: DAY+  
TIF Stop Loss: GTC  
Acnt. Leverage: 4:1

===== DATA/CALCULATIONS =====

BID : 0.23  
ASK : 0.25  
Trx. \$ : 0.25  
Stop Loss: 0.1654  
Price to Stop Delta: 0.0846

Percent Position Size: 100%  
Risk Based Pos Size (FIX): 5910.17 = 100% x 500 / 0.0846

\*For Risk Based Pos the Min will be 1 if you have the funds  
Acnt Based Pos Size: 30229.7

Lot size: 100  
Min Positions (OPT): 59.1017 [ min( 59.1017 , 302.297 ) ]

-----TRIGGER ORDER-----

SL Price Offset: (0)  
ST Type: MARKET  
Px: 0.1654  
ACT: SELL  
STOP PRICE: 0.1654  
TIF: GTC

OK

## Percent (%) Risk

| Parameters               |        |
|--------------------------|--------|
| Symbol Class :           | OPT    |
| Order Status :           | LOAD   |
| Transaction Bias :       | LONG   |
| Risk Type :              | %      |
| % Risk Per Trade :       | 1.00%  |
| Acnt. Leverage :         | 4:1    |
| Position Size (FULL) :   | 100%   |
| % BP @ Risk per Trade :  | 5%     |
| Bid/Ask Price offset :   | -      |
| Stop Loss Price Buffer : | -      |
| Preferred Route :        | SMAT   |
| Time In Force (ORDER) :  | DAY+   |
| Time In Force (SL) :     | GTC    |
| Stop Type :              | MARKET |

DAS Trader Pro Powered by DASTrader.com

Hi : 0  
Lo : 0  
Open : 1.27  
Last : 0.24

===== SETTINGS/ASSUMPTIONS =====

S Risk Per Trade: 500  
% BP @ Risk Per Trade: 5%  
Percent Position Size: 100%  
Price Offset: 0  
Symbol Class: OPT  
Transaction Direction: LONG  
Preferred Route: SMAT  
Time In Force Order: DAY+  
TIF Stop Loss: GTC  
Acnt. Leverage: 4:1

===== DATA/CALCULATIONS =====

BID : 0.23  
ASK : 0.24  
Trx. \$ : 0.24  
Stop Loss: 0.1204  
Price to Stop Delta: 0.1196

BP: 830564shares  
% BP @ Risk per Trade: 5%  
BP @ Risk per Trade (Shrs): 41528.2 = 5% x 830564  
Acnt. Leverage: 4  
Equity Value @ Risk: 10382.1 = 5% x 830564 / 4  
% Risk Per Trade: 1%  
Percent Position Size: 100%  
Risk Based Pos Size (%): 103.821 = 100% x 1% x 10382.1

\*For Risk Based Pos the Min will be 1 if you have the funds  
Acnt Based Pos Size: 41528.2

Lot size: 100  
Min Positions (OPT): 1.03821 [ min( 1.03821 , 415.282 ) ]

-----TRIGGER ORDER-----

SL Price Offset: (0)  
ST Type: MARKET  
Px: 0.1204  
ACT: SELL  
STOP PRICE: 0.1204  
TIF: GTC

OK

**N.B.** Just a heads up, I added "Risk Type"(FIX/%) to the validation snippet in the excel file for better identification, but I didn't include it here because, well, I was too lazy. Apologies for that!

# Validation – Shares (Long)

## Dollar Risk

| Parameters               |        |
|--------------------------|--------|
| Symbol Class :           | EQ     |
| Order Status :           | LOAD   |
| Transaction Bias :       | LONG   |
| Risk Type :              | FIX    |
| Dollar Risk per trade :  | 500    |
| Position Size (FULL) :   | 100%   |
| % BP @ Risk per Trade :  | 5%     |
| Bid/Ask Price offset :   | -      |
| Stop Loss Price Buffer : | -      |
| Preferred Route :        | SMAT   |
| Time In Force (ORDER) :  | DAY+   |
| Time In Force (SL) :     | GTC    |
| Stop Type :              | MARKET |

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\*\*\*\*\*AAPL\*\*\*\*\*

Hi : 226.8  
Lo : 223.275  
Open : 224.82  
Last : 224.65

\*\*\*\*\* SETTINGS/ASSUMPTIONS \*\*\*\*\*

\$ Risk Per Trade : 500  
% BP @ Risk Per Trade : 5%  
Percent Position Size : 100%  
Price Offset : 0  
Symbol Class : EQ  
Transaction Direction : LONG  
Preferred Route : SMAT  
Time In Force Order : DAY+  
TIF Stop Loss : GTC  
Stop Type : MARKET  
Acnt. Leverage : 4 : 1

\*\*\*\*\* DATA/CALCULATIONS \*\*\*\*\*

BID : 224.64  
ASK : 224.66  
Trx. \$ : 224.66  
Stop Loss : 224.18  
Price to Stop Delta : 0.48

Percent Position Size : 100%  
Risk Based Pos Size (FIX) :  $1041.67 = 100\% \times 500 / 0.48$

\*For Risk Based Pos the Min will be 1 if you have the funds  
Acnt Based Pos Size : 22.3

Lot size : 1  
Min Positions (EQ) : 22.3 [ min( 1041.67 , 22.3 ) ]

-----TRIGGER ORDER-----

SL Price Offset : (0)  
ST Type : MARKET  
Px : 224.18  
ACT : SELL  
STOP PRICE : 224.18  
TIF : GTC

OK

## Percent (%) Risk

| Parameters               |        |
|--------------------------|--------|
| Symbol Class :           | EQ     |
| Order Status :           | LOAD   |
| Transaction Bias :       | LONG   |
| Risk Type :              | %      |
| % Risk Per Trade :       | 1.00%  |
| Acnt. Leverage :         | 4:1    |
| Position Size (FULL) :   | 100%   |
| % BP @ Risk per Trade :  | 5%     |
| Bid/Ask Price offset :   | -      |
| Stop Loss Price Buffer : | -      |
| Preferred Route :        | SMAT   |
| Time In Force (ORDER) :  | DAY+   |
| Time In Force (SL) :     | GTC    |
| Stop Type :              | MARKET |

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\*\*\*\*\*ARM\*\*\*\*\*

Hi : 165.05  
Lo : 160.63  
Open : 162.85  
Last : 164.1

\*\*\*\*\* SETTINGS/ASSUMPTIONS \*\*\*\*\*

\$ Risk Per Trade : 500  
% BP @ Risk Per Trade : 5%  
Percent Position Size : 100%  
Price Offset : 0  
Symbol Class : EQ  
Transaction Direction : LONG  
Preferred Route : SMAT  
Time In Force Order : DAY+  
TIF Stop Loss : GTC  
Stop Type : MARKET  
Acnt. Leverage : 4 : 1

\*\*\*\*\* DATA/CALCULATIONS \*\*\*\*\*

BID : 164.02  
ASK : 164.21  
Trx. \$ : 164.21  
Stop Loss : 162.69  
Price to Stop Delta : 1.52

BP : 614shares  
% BP @ Risk per Trade : 5%  
BP @ Risk per Trade (Shrs) :  $30.7 = 5\% \times 614$   
Acnt. Leverage : 4  
Equity Value @ Risk :  $7.675 = 5\% \times 614 / 4$   
% Risk Per Trade : 1%  
Percent Position Size : 100%  
Risk Based Pos Size (%) :  $1 = 100\% \times 1\% \times 7.675$

\*For Risk Based Pos the Min will be 1 if you have the funds  
Acnt Based Pos Size : 30.7

Lot size : 1  
Min Positions (EQ) : 1 [ min( 1 , 30.7 ) ]

-----TRIGGER ORDER-----

SL Price Offset : (0)  
ST Type : MARKET  
Px : 162.69  
ACT : SELL  
STOP PRICE : 162.69  
TIF : GTC

OK

# Validation – Shares (Short)

## Dollar Risk

| Parameters               |        |
|--------------------------|--------|
| Symbol Class :           | EQ     |
| Order Status :           | LOAD   |
| Transaction Bias :       | SHORT  |
| Risk Type :              | FIX    |
| Dollar Risk per trade :  | 500    |
| Position Size (FULL) :   | 100%   |
| % BP @ Risk per Trade :  | 5%     |
| Bid/Ask Price offset :   | -      |
| Stop Loss Price Buffer : | -      |
| Preferred Route :        | SMAT   |
| Time In Force (ORDER) :  | DAY+   |
| Time In Force (SL) :     | GTC    |
| Stop Type :              | MARKET |

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\*\*\*\*\*AMZN\*\*\*\*\*

Hi : 184.93  
Lo : 180.11  
Open : 181.14  
Last : 183.39

\*\*\*\*\* SETTINGS/ASSUMPTIONS \*\*\*\*\*

\$ Risk Per Trade: 500  
% BP @ Risk Per Trade : 5%  
Percent Position Size: 100%  
Price Offset: 0  
Symbol Class: OPT  
Transaction Direction: SHORT  
Preferred Route: SMAT  
Time In Force Order: DAY+  
TIF Stop Loss: GTC  
Stop Type: MARKET  
Acnt. Leverage: 4 : 1

\*\*\*\*\* DATA/CALCULATIONS \*\*\*\*\*

BID : 183.38  
ASK : 183.4  
Trx. \$ : 183.38  
Stop Loss: 0.1204

Price to Stop Delta: 183.26

Percent Position Size: 100%  
Risk Based Pos Size (FIX):  $100 = 100\% \times 500 / 183.26$

\*For Risk Based Pos the Min will be 1 if you have the funds

Acnt Based Pos Size: 272.55

Lot size : 100  
Min Postions (OPT) : 1 [ min( 1 , 2.7255 ) ]

-----TRIGGER ORDER -----

SL Price Offset : (0)  
ST Type : MARKET  
Px : 0.1204  
ACT : BUY  
STOP PRICE : 0.1204  
TIF : GTC

OK

## Percent (%) Risk

| Parameters               |        |
|--------------------------|--------|
| Symbol Class :           | EQ     |
| Order Status :           | LOAD   |
| Transaction Bias :       | SHORT  |
| Risk Type :              | %      |
| % Risk Per Trade :       | 1.00%  |
| Acnt. Leverage :         | 4:1    |
| Position Size (FULL) :   | 100%   |
| % BP @ Risk per Trade :  | 5%     |
| Bid/Ask Price offset :   | -      |
| Stop Loss Price Buffer : | -      |
| Preferred Route :        | SMAT   |
| Time In Force (ORDER) :  | DAY+   |
| Time In Force (SL) :     | GTC    |
| Stop Type :              | MARKET |

DAS Trader Pro Powered by DASTrader.com

\*\*\*\*\*AMZN\*\*\*\*\*

Hi : 184.93  
Lo : 180.11  
Open : 181.14  
Last : 183.275

\*\*\*\*\* SETTINGS/ASSUMPTIONS \*\*\*\*\*

\$ Risk Per Trade: 500  
% BP @ Risk Per Trade : 5%  
Percent Position Size: 100%  
Price Offset: 0  
Symbol Class: OPT  
Transaction Direction: SHORT  
Preferred Route: SMAT  
Time In Force Order: DAY+  
TIF Stop Loss: GTC  
Stop Type: MARKET  
Acnt. Leverage: 4 : 1

\*\*\*\*\* DATA/CALCULATIONS \*\*\*\*\*

BID : 183.27  
ASK : 183.28  
Trx. \$ : 183.27  
Stop Loss: 0.1204

Price to Stop Delta: 183.15

BP: 5451 shares  
% BP @ Risk per Trade : 5%  
BP @ Risk per Trade (Shrs):  $272.55 = 5\% \times 5451$   
Acnt. Leverage : 4  
Equity Value @ Risk :  $68.1375 = 5\% \times 5451 / 4$   
% Risk Per Trade : 1%  
Percent Position Size: 100%  
Risk Based Pos Size (%):  $100 = 100\% \times 1\% \times 68.1375$

\*For Risk Based Pos the Min will be 1 if you have the funds

Acnt Based Pos Size: 272.55

Lot size : 100  
Min Postions (OPT) : 1 [ min( 1 , 2.7255 ) ]

-----TRIGGER ORDER -----

SL Price Offset : (0)  
ST Type : MARKET  
Px : 0.1204  
ACT : BUY  
STOP PRICE : 0.1204  
TIF : GTC

OK