Highly Organized & Optimized Trading In Exchanges

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Introduction
Most traders have little or no technical knowledge and rely on software and human interaction to perform complex trading routines. The primary objective of this language is to provide a way for traders to create an automated black box system that is simple enough to understand and use yet robust enough for high volume trading. The language and compiler will handle all of the details leaving the user free from worrying about actual code.

The Language
The HOOTIE language is very simple and those that have the basic knowledge of trading stocks can pick it up very quickly. Each command is written on a single line with no semicolon and each item is separated by spaces. The symbol is in reference to a stock symbol.

Commenting:
// COMMENT //</br>

Looking up a Stock:
LOOKUP Symbol [Information]
[Information]
VOLUME
BETA
MCAP
RANGE

When trading with stocks:
BUY Symbol Quantity [Conditions] [Term]
Example: BUY MGM 2000 [LIMIT 15.00] [30DAYS]
SELL Symbol Quantity [Conditions] [Term]
Example: SELL AIG 2000 [LIMIT 34.00] [60DAYS]

When trading with options:
Buy2Open Symbol Quantity [Conditions] [Term]
Buy2Close Symbol Quantity [Conditions] [Term]
Sell2Open Symbol Quantity [Conditions] [Term]
Sell2Close Symbol Quantity [Conditions] [Term]

Note that the commands above will be queued until the market allows for the buy or sell to complete.

[Conditions]
MARKET (this is the default)
LIMIT value
STOP value
STOPLIMIT value
TRADESTOP$ value
TRADESTOP% value

[Term]
NOW (default)
TODAY
7DAYS
30DAYS
60DAYS
120DAYS
### Logic Keywords & Control Statements:

<table>
<thead>
<tr>
<th>Statement</th>
<th>Example</th>
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<tbody>
<tr>
<td>WHEN (Symbol IS Condition) { }</td>
<td>WHEN (BLOAQ IS GREATER .009) { SELL NFLX 2000 STOP }</td>
</tr>
<tr>
<td>OTHERWISE { }</td>
<td></td>
</tr>
<tr>
<td>LOOP (Symbol IS Condition) { }</td>
<td></td>
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<tr>
<td>WAIT time(ms)</td>
<td></td>
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</tbody>
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Wait for a Buy or Sell to Execute

WAITEXE

To exit a control block

BREAKOUT

Comparisons

AND

OR

NOT

GREATER

LESS

GREATERORE

LESSORE

Jump to a block

GOTO blockname

### Variables

SET @variablename

UNSET @variablename

Example:
@NumberOfTrades = 0
@NumberOfTrades = @NumberOfTrades + 1

### Output:

PRINT command

PRINT string

Example:
PRINT "STOCK IS IN RANGE!"

### Special Blocks:

Each execute block is done simultaneously like in VHDL and keeps looping.

EXECUTE blockname:

To exit a execute block

STOP

To exit the program completely

EXIT

Example:
EXECUTE a_merger {
  WHEN (BLOAQ IS GREATER .009) {
    SELL NFLX 2000
    STOP
  }
}
Exceptions:
BAD_SYMBOL
NOT_IN_PORTFOLIO
NOT_ENOUGH_MONEY
MARGIN_CALLED
EPIC_FAILURE

Code Sample

PRINT LOOKUP NFLX
PRINT LOOKUP BLOAQ

EXECUTE wait_for_range {
  WHEN (NFLX IS GREATER 210.0) {
    PRINT “NETFLIX IS TOO EXPENSIVE!”
    EXIT
  }
}

EXECUTE wait_for_volume {
  WHEN (NFLX IS VOLUME GREATER 10MIL) {
    SELL NFLX 2000
    WAITEXE
    EXIT
  }
}

EXECUTE a_merger {
  WHEN (BLOAQ IS GREATER .009) {
    SELL NFLX 2000
    STOP
  }
}