**New Input .ini file variables**

ProfitTaking = 0.10

HammerBreak = 0.15

**New Fields**

tRange5 (average of the total Range value of the last 5 days)

max120 (max of close value of the last 120 days)

max50 (max close value of the last 50 days)

max20 (max close value of the last 20 days)

min20 (min close value of the last 20 days)

min50

min120

ema25  
ema50  
ema75

ema100

Type1-LongTerm

Type2-Continuation

Type3-Counter

DaysSince1 (Days since the last trade)

EntryPrice1

EntryPrice2

EntryPrice3

Stop2

Stop3

eo1

eo2

eo3

state1

state2

state3

#note – no stop1 because type 1 doesn’t use stops

**EntryPrice Calculation**

#starts off blank until there is the first execute order

#same for Type1, Type2, or Type3

IF eo1(-2) == enterL1 OR eol(-2) == enterS1:

#if two days ago had an execute order signal

EntryPrice1 = Open(-1) #entry price is yesterday’s open

ELIF entryPrice1(-1) != None

EntryPrice1 = EntryPrice1(-2)

**(Type 1) – Long Term Trend**

# First, check for LongEntry1

IF state1(-2) != Short1

AND Close(-2)(yesterday) < (1 - ProfitTaking) \* max120

AND Close(-1)(Today) > max50

Type1 = Long1

If state1(-2) != Long1 and state1(-2) != Short1

#only execute order if current state isn’t in long or short

oe1 = enterL1

state1 = Long1

# Second Check for ShortEntry1

ELIF state1(-2) != Long1

#rest is opposite LongEntry, so just change signs

AND Close(-2)(yesterday) > (1 + ProfitTaking) \* min120

AND Close(-1)(Today) < min50

Type1 = Short1

If state1(-2) != Short1 and state1(-2) != Long1

oe1 = enterS1

state1 = Short1

# Third, check for LongExit1

ELIF state1(-2) == Long1:

IF (DaysSince > 100 days AND Close(-1)(Today) < ema25 – tRange5)

OR (DaysSince > 75 AND DaysSince <= 100 AND Close(-1)(Today) < ema50– tRange5)

OR (DaysSince > 50 AND DaysSince <= 75 AND Close(-1)(Today) < ema75– tRange5)

OR (DaysSince <= 50 days AND Close(-1)(Today) < ema100– tRange5)

Type1 = exitL1

IF Type1 == exitL1 and state1(-2) == Long1

oe1 = exitL1

#no value for state1 when exited – if blank means you hold no position

# Fourth, check for ShortExit1

ELIF state1(-2) == Short1:

#rest is opposite LongExit, so just change signs to be greater than emas

IF (DaysSince > 100 days AND Close(-1)(Today) > ema25 +tRange5)

OR (DaysSince > 75 AND DaysSince <= 100 AND Close(-1)(Today) > ema50+tRange5)

OR (DaysSince > 50 AND DaysSince <= 75 AND Close(-1)(Today) > ema75+tRange5)

OR (DaysSince <= 50 days AND Close(-1)(Today) > ema100+tRange5)

Type1 = exitS1

IF Type1 == exitS1 and state1(-2) == Short1

oe1 = exitS1

#no value for state1 when exited – if blank means you hold no position

# Fifth, no signals or anything, just carry over state from last candle

ELSE

State1 = State1(-2)

**(Type 2) – Continuation Trend**

# First, check for LongEntry2

#This one we did already, just changing hammer to variable

IF state2(-2) != Short2

AND close(-1)(today) > ema50

AND c1-c5 = 0 #(close today < close 5 days ago)

AND Hammer < HammerBreak

AND Direction = #what we had last time

AND rVol > #this is stocks only

AND v > 100,000 #this is stocks only

Type2 = Long2

If state2(-1) != Long2 and state1(-2) != Short2

#only execute order if current state isn’t in long or short

oe2 = enterL2

state2 = Long2

Stop2 = Low(-1) #today’s low price of the hammer

# Second Check for ShortEntry2

ELIF state2(-2) != Long2 #rest is opposite LongEntry above, so just change signs

AND close(-1)(today) < ema50

AND c1-c5 = 1 #(close today > close 5 days ago)

AND Hammer > (1- HammerBreak)

AND direction = #opposite

AND rVol > #this is stocks only

AND v > 100,000 #this is stocks only

Type2 = Short2

If state2(-2) != Short2 and state1(-2) != Long2

#only execute order if current state isn’t in long or short

oe2 = enterShort2

state2 = Short2

Stop2 = High(-1) #today’s high price of the hammer

# Third, check for LongExit2

ELIF state2(-2) == Long2:

IF close(-1)(Today) > (1 + ProfitTaking) \* EntryPrice2

type2 = exitL2

ELIF close(-1)(Today) > (1 + (ProfitTaking/2) ) \* EntryPrice2

AND close(-2)(yesterday) < (1 + (ProfitTaking/2) ) \* EntryPrice2

Stop2 = (1 + (ProfitTaking/4) ) \* EntryPrice2

ELIF close(-1)(Today) => (1 + (ProfitTaking/4) ) \* EntryPrice2

AND close(-2)(yesterday) < (1 + (ProfitTaking/4) ) \* EntryPrice2

Stop2 = Open(-1) #today’s open

IF Close(-1)(today) < Stop2(-1)

type2 = exitL2

ELSE:

Stop2 = Stop2(-2)

IF Type2 = exitL2 and state2(-2) == Long2

oe2 = exitL2

#no value for state2 when exited – if blank means you hold no position

# Fourth, check for ShortExit2

ELIF state2(-2) == Short2:

#rest is opposite LongExit2, so just change signs

IF Close(-1)(Today) < (1 - ProfitTaking) \* EntryPrice2

type2 = exitL2

ELIF Close(-1)(Today) < (1 - (ProfitTaking/2) ) \* EntryPrice2

AND close(-2)(yesterday) > (1 - (ProfitTaking/2) ) \* EntryPrice2

Stop2 = (1 + (ProfitTaking/4) ) \* EntryPrice2

ELIF Close(-1)(Today) =< (1 - (ProfitTaking/4) ) \* EntryPrice2

AND close(-2)(yesterday) > (1 - (ProfitTaking/4) ) \* EntryPrice2

Stop2 = Open(-1) #today’s open

IF Type2 = exitS2 and state1(-2) == Short2

oe2 = exitS2

#no value for state1 when exited – if blank means you hold no position

# Fifth, no signals or anything, just carry over state from last candle

ELSE

State2 = State2(-2)

**(Type 3) - CounterTrend**

#Only for Commodities

#First – determine if competing with Type 1 or Type 2

IF state1 == Long1 OR state2 == Long2: #this is the current state, not -1

IF state3(-2) == Short3

#need to exit the short now

eo3 = exitShort3

ELIF state1 == Short1 OR state2 == Short2: #this is the current state, not -1

IF state3(-2) == Long3

#need to exit the long now

eo3 = exitLong3

# Second, check for LongEntry3

ELIF Close(-1)Today) < ema50

AND Close(-2)(Yesterday) < (1 - (ProfitTaking/2) ) \* max20

AND c1-c5 == 0 (0 = down, 1 = up)

AND Hammer <= HammerBreak

AND tRange(Today) > tRange(AveLast5Days)

Type3 = Long3

If state3(-2) != Long3 and state1(-2) != Short3

#only execute order if current state isn’t in long or short

oe3 = enterL3

state3 = Long3

Stop3 = Low(-1) #today’s low price of the hammer

# Third Check for ShortEntry3

ELIF Close(-1)Today) > ema50

AND Close(-2)(Yesterday) => (1 + (ProfitTaking/2) ) \* min20

AND c1-c5 == 1 (0 = down, 1 = up)

AND Hammer >= (1 – HammerBreak)

AND tRange(Today) > tRange(AveLast5Days)

Type3 = Short3

If state3(-2) != Short3 and state1(-2) != Long3

#only execute order if current state isn’t in long or short

oe3 = enterS3

state3 = Short3

Stop3 = High(-1) #today’s high price of the hammer

# Fouth, check for LongExit3

ELIF state3(-2) == Long3:

IF Close(-1)(Today) > (1 + (ProfitTaking/2) ) \* EntryPrice

Type3 = exitL3

ELIF Close(-1)(Today) => (1 + (ProfitTaking/4) ) \* EntryPrice

AND close(-2)(yesterday) < (1 + (ProfitTaking/4) ) \* EntryPrice

Stop3 = EntryPrice3

IF Close(-1)(today) < Stop3(-1)

Type3 = exitL2

ELSE:

Stop3 = Stop3(-2)

# Fifth, check for ShortExit3

ELIF state3(-2) == Short3:

IF Close(-1)(Today) < (1 - (ProfitTaking/2) ) \* EntryPrice

Type3 = exitL3

ELIF Close(-1)(Today) =< (1 - (ProfitTaking/4) ) \* EntryPrice

AND close(-2)(yesterday) > (1 - (ProfitTaking/4) ) \* EntryPrice

Stop3 = EntryPrice3

IF Close(-1)(today) > Stop3(-1)

Type3 = exitL2

ELSE:

Stop3 = Stop3(-2)

**NOTE: Commodities will do Type 1 2 and 3. Stocks only Type 1 and 2**