

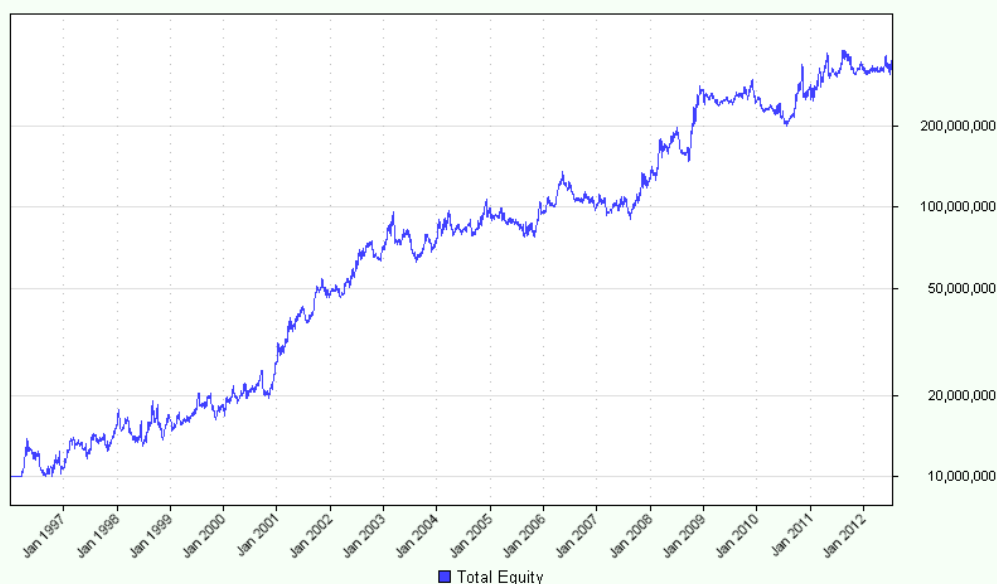


Summary Test Results

Stepped Parameter Summary Performance

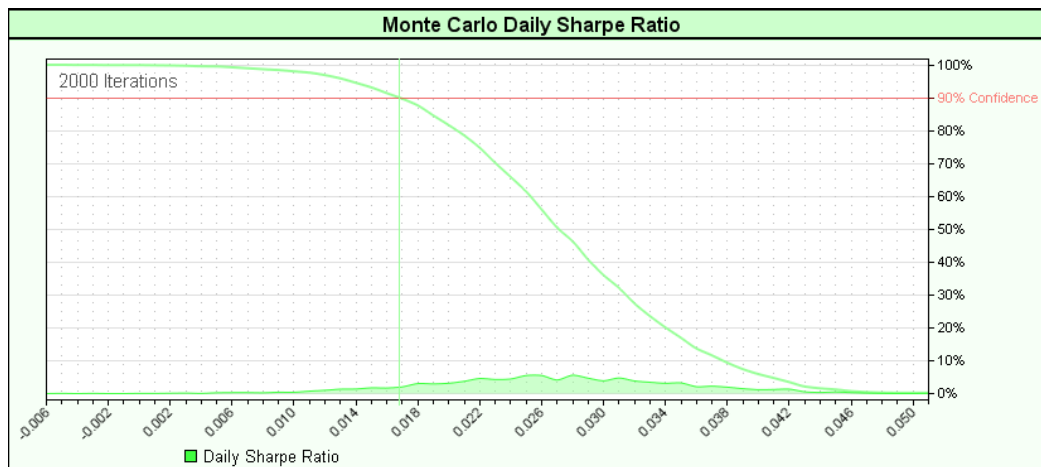
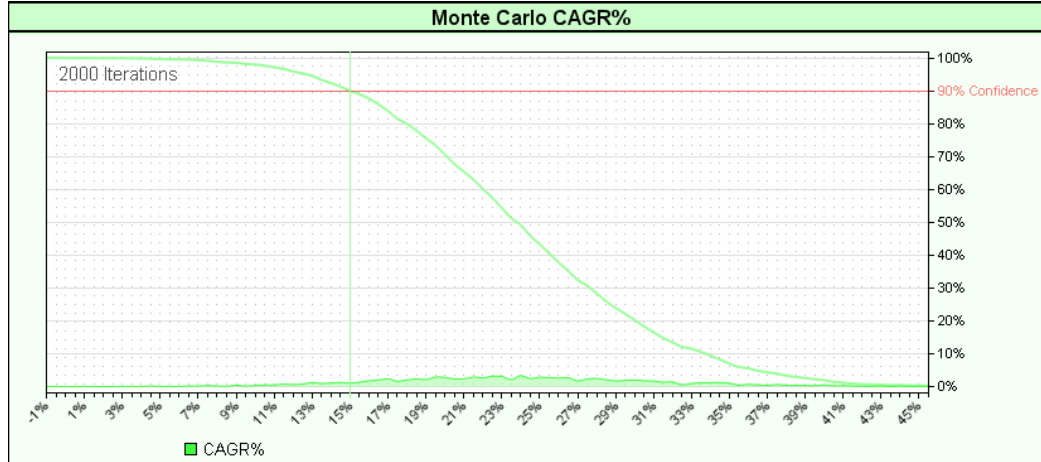
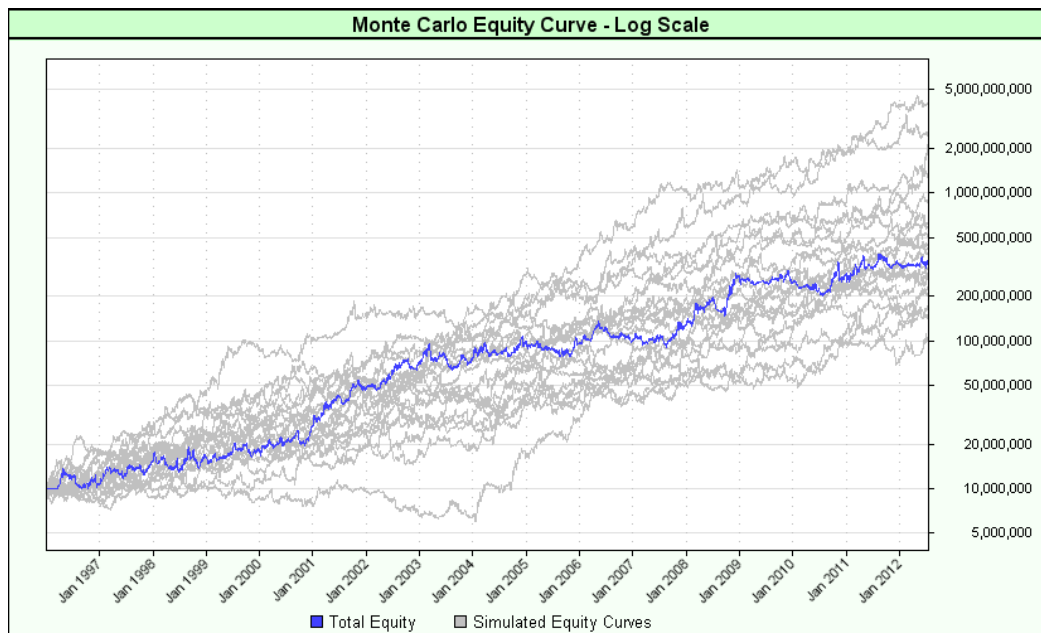
Test	Ending Balance	CAGR%	MAR	Modified Sharpe	Annual Sharpe	Max Total Equity DD	Longest Drawdown	# Trades
1	355,087,249.94	24.08%	0.69	0.87	0.70	34.9%	19.7	1,258

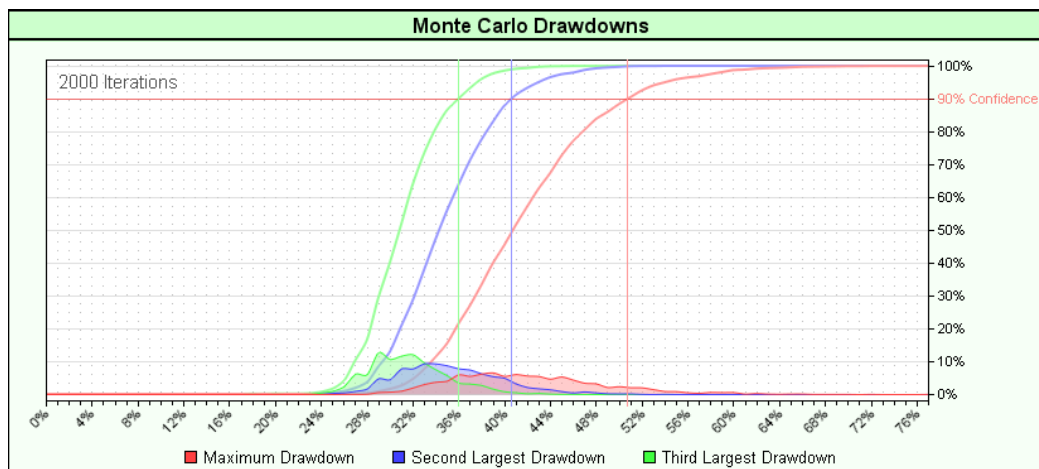
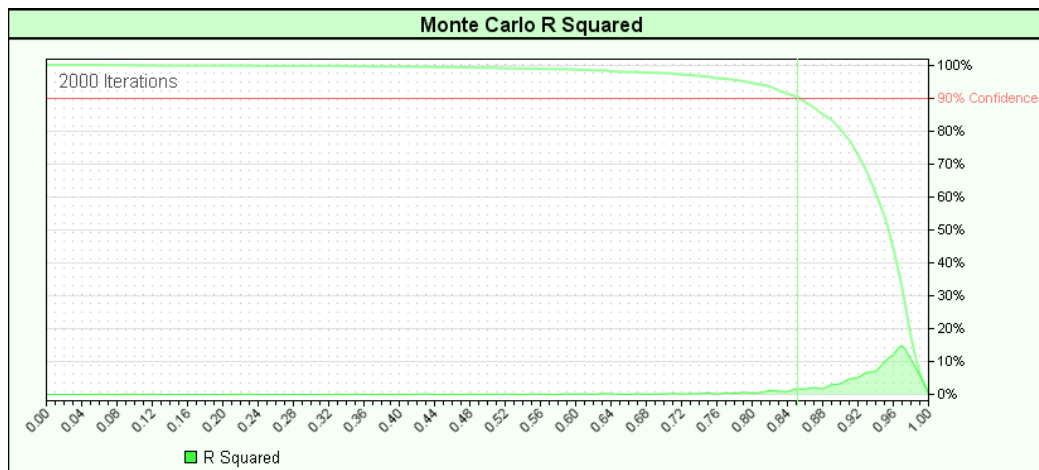
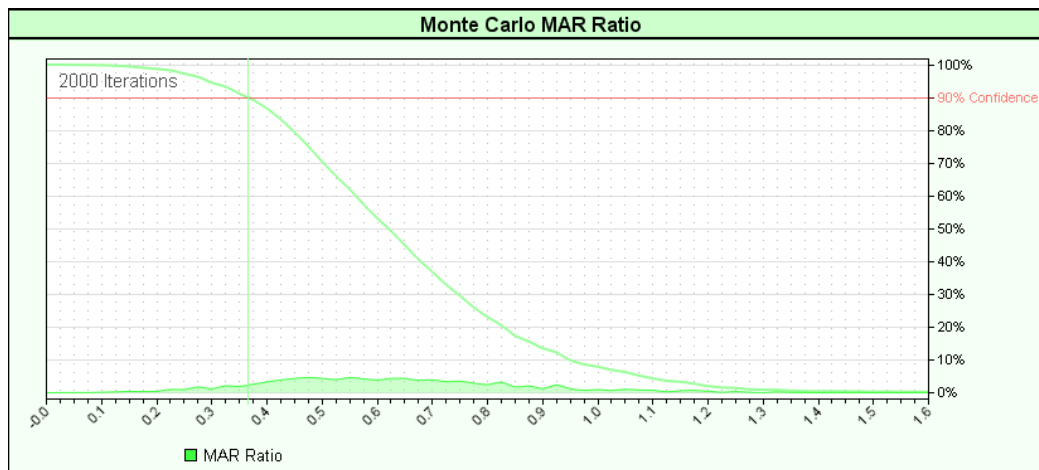
Equity Curve - Log Scale

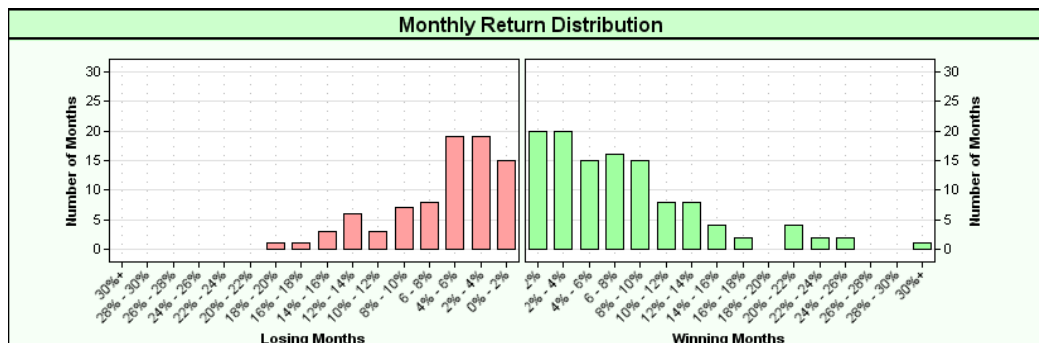
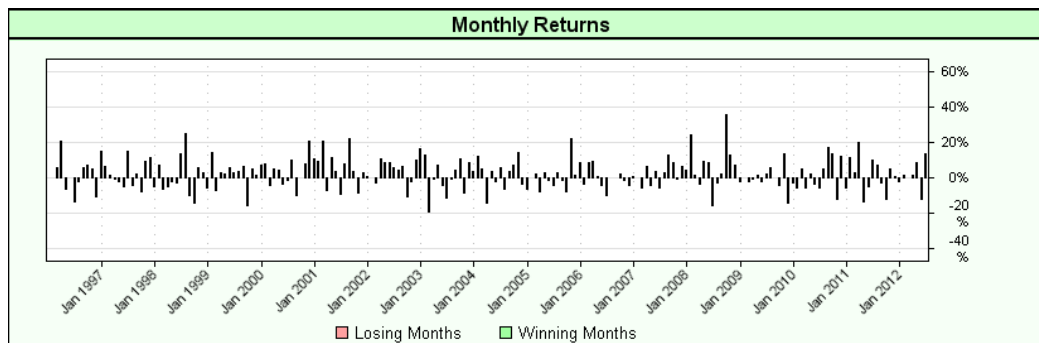
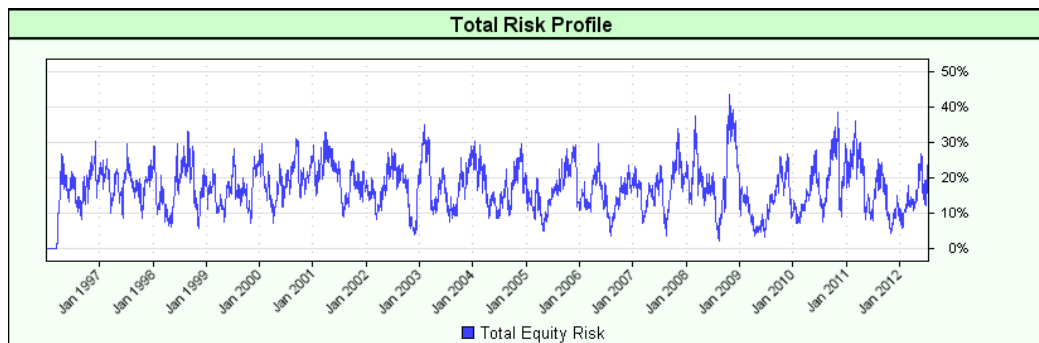
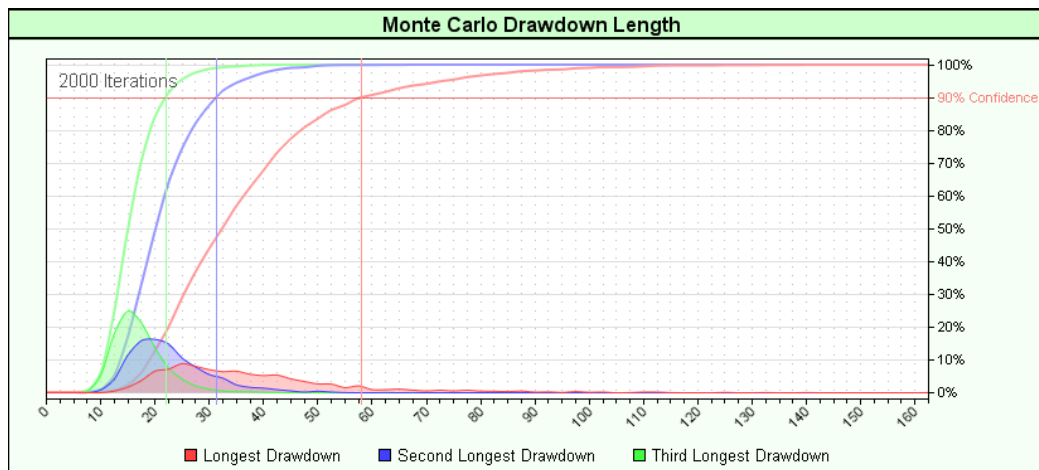


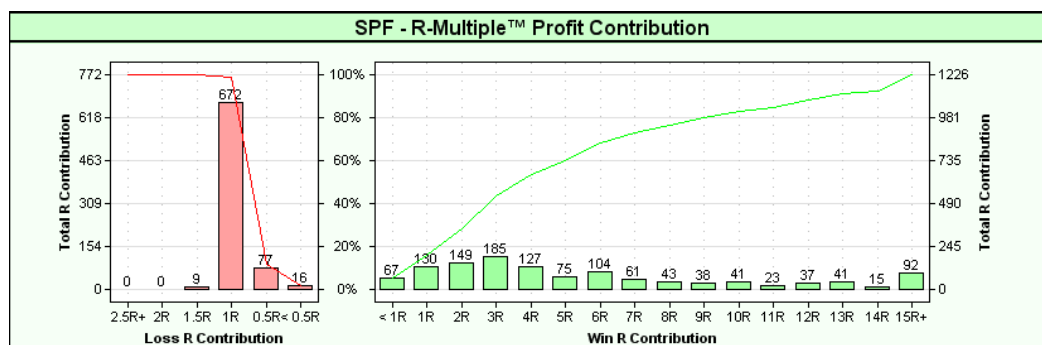
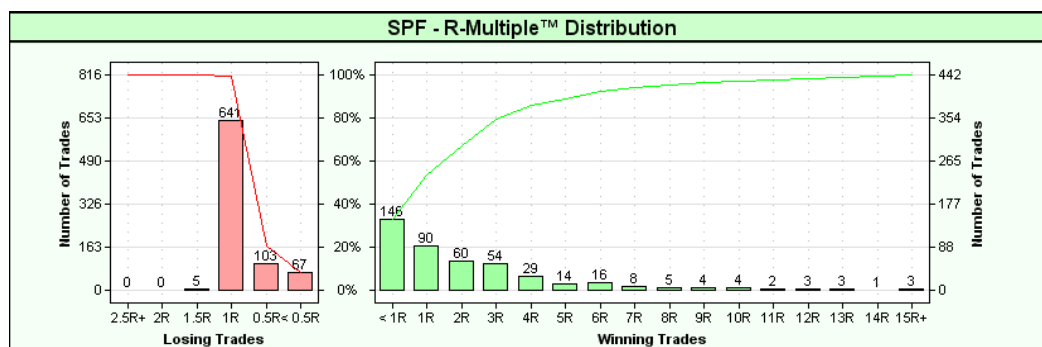
Equity Curve - Linear Scale with Drawdowns











Yearly Performance Summary

Year	Days	Closed Balance	End Total Equity	Total Equity Gain	Gain %	# Trades
1996	366	10,004,262.68	10,808,228.98	808,228.98	8.1%	70
1997	365	13,182,784.81	15,517,251.03	4,709,022.06	43.6%	78
1998	365	14,489,988.83	16,042,663.53	525,412.49	3.4%	88
1999	365	16,814,544.11	17,872,923.31	1,830,259.78	11.4%	69
2000	366	20,159,236.38	26,759,283.88	8,886,360.57	49.7%	86
2001	365	43,236,054.51	48,812,960.51	22,053,676.63	82.4%	75
2002	365	64,138,857.84	70,658,461.59	21,845,501.07	44.8%	61
2003	365	66,696,624.50	76,997,600.23	6,339,138.64	9.0%	94
2004	366	91,901,627.67	98,608,931.42	21,611,331.19	28.1%	78
2005	365	85,226,459.84	97,691,666.99	-917,264.43	-0.9%	76
2006	365	95,253,802.91	101,951,180.61	4,259,513.63	4.4%	72
2007	365	118,027,510.57	128,005,234.97	26,054,054.36	25.6%	76
2008	366	243,112,498.07	261,425,727.62	133,420,492.64	104.2%	66
2009	365	244,812,239.27	246,327,093.37	-15,098,634.25	-5.8%	66
2010	365	243,885,180.73	287,297,229.93	40,970,136.57	16.6%	81
2011	365	311,915,804.21	328,763,489.21	41,466,259.28	14.4%	74
2012	200	355,087,249.94	355,087,249.94	26,323,760.72	8.0%	48

Instrument Performance Summary

Symbol	Wins	%	Losses	%	Trades	Win Months	%	Loss Months	%	Avg. Win %	Avg. Loss %	Avg. Trade %	% Profit Factor
AD	15	42.9%	20	57.1%	35	147	73.9%	52	26.1%	3.10%	0.93%	0.80%	2.50
BP	11	21.6%	40	78.4%	51	137	68.8%	62	31.2%	2.01%	1.03%	-0.38%	0.53
C	20	42.6%	27	57.4%	47	141	70.9%	58	29.1%	1.88%	1.00%	0.23%	1.40
CC	10	20.0%	40	80.0%	50	134	67.3%	65	32.7%	3.56%	1.00%	-0.09%	0.89
CD	14	35.9%	25	64.1%	39	141	70.9%	58	29.1%	2.64%	1.01%	0.30%	1.46
CL	14	33.3%	28	66.7%	42	142	71.4%	57	28.6%	3.11%	0.98%	0.38%	1.59
CT	13	32.5%	27	67.5%	40	141	70.9%	58	29.1%	4.77%	0.94%	0.92%	2.45
EC	15	35.7%	27	64.3%	42	135	67.8%	64	32.2%	2.99%	0.89%	0.49%	1.86
ED	19	39.6%	29	60.4%	48	138	69.3%	61	30.7%	5.22%	0.94%	1.50%	3.65
EM	24	36.4%	42	63.6%	66	130	65.3%	69	34.7%	0.80%	0.44%	0.01%	1.03
FC	13	26.0%	37	74.0%	50	135	67.8%	64	32.2%	2.36%	0.95%	-0.09%	0.88
GC	19	40.4%	28	59.6%	47	145	72.9%	54	27.1%	2.60%	1.02%	0.45%	1.74
HG	16	34.0%	31	66.0%	47	137	68.8%	62	31.2%	3.41%	1.02%	0.49%	1.72
HO	16	39.0%	25	61.0%	41	145	72.9%	54	27.1%	3.47%	0.96%	0.77%	2.31
HU	17	37.0%	29	63.0%	46	133	66.8%	66	33.2%	2.22%	0.94%	0.23%	1.38
JY	16	34.8%	30	65.2%	46	139	69.8%	60	30.2%	2.27%	0.95%	0.17%	1.28
KC	14	28.6%	35	71.4%	49	138	69.3%	61	30.7%	2.79%	0.99%	0.09%	1.13
LC	11	21.6%	40	78.4%	51	125	62.8%	74	37.2%	2.70%	1.02%	-0.21%	0.73

LH	15	36.6%	26	63.4%	41	142	71.4%	57	28.6%	3.03%	0.95%	0.51%	1.84
MP	16	38.1%	26	61.9%	42	146	73.4%	53	26.6%	2.80%	1.09%	0.39%	1.58
NG	24	57.1%	18	42.9%	42	138	69.3%	61	30.7%	2.08%	1.00%	0.76%	2.79
S	17	37.8%	28	62.2%	45	145	72.9%	54	27.1%	2.28%	0.95%	0.27%	1.46
SB	11	23.4%	36	76.6%	47	135	67.8%	64	32.2%	2.94%	0.88%	0.01%	1.02
SF	19	44.2%	24	55.8%	43	145	72.9%	54	27.1%	2.05%	0.96%	0.37%	1.70
SI	13	27.1%	35	72.9%	48	139	69.8%	60	30.2%	3.04%	0.88%	0.18%	1.28
TY	19	51.4%	18	48.6%	37	153	76.9%	46	23.1%	2.60%	0.96%	0.87%	2.87
US	17	50.0%	17	50.0%	34	151	75.9%	48	24.1%	2.49%	0.87%	0.81%	2.86
W	14	33.3%	28	66.7%	42	139	69.8%	60	30.2%	2.33%	0.90%	0.18%	1.30

Test Period for parameter run 1.

First Test Date 1996-01-01
Last Test Date 2012-07-18

Trading Performance				Win/Loss Statistics			
CAGR %	24.08%	Wins	442	35.1%			
MAR Ratio	0.69	Losses	816	64.9%			
RAR %	25.77%	Total	1258	100.0%			
R-Cubed	1.00	Winning Months	117	58.8%			
Robust Sharpe Ratio	0.86	Losing Months	82	41.2%			
Margin to Equity Ratio	38.00%	Total	199	100.0%			
Daily Return %	0.1003%	Average Risk Percent		0.99%			
Daily Geometric Return %	0.0591%	Average Win Percent		2.70%			
Daily Standard Deviation %	1.87%	Average Loss Percent		0.94%			
Daily Downside Deviation %	1.35%	Average Win Dollars	2,564,195.64				
Daily Sharpe	0.049	Average Loss Dollars	966,038.27				
Daily Geo Sharpe	0.027	Average Trade Percent		0.34%			
Daily Sortino	0.068	Average Trade Duration		54.45			
Modified Sharpe Ratio	0.87	Average Trade Dollars	274,314.19				
Annual Sharpe Ratio	0.70	Profit Factor		1.44			
Annual Sortino Ratio	+ ∞	Percent Profit Factor		1.56			
Monthly Sharpe Ratio	0.22	Expectation		0.34			
Monthly Sortino Ratio	0.43						
Calmar Ratio	0.87						
R-Squared	0.966						
				Equity Management			
Maximum Total Equity Drawdown %	34.87%	Test Starting Equity	10,000,000.00				
Longest Total Equity Drawdown (months)	19.75	Order Generation Equity	0.00				
Average Max TE Drawdown %	31.47%	Order Generation Equity High	0.00				
Average Max TE Drawdown Length (months)	13.71	Leverage (fraction)	1.00				
Maximum Monthly Total Equity Drawdown %	27.73%	Trading Equity Base	Total Equity				
Maximum Monthly Closed Equity Drawdown %	22.97%	Drawdown Reduction Threshold (%)	0.00%				
Maximum Closed Equity Drawdown %	36.43%	Drawdown Reduction Amount (%)	0.00%				
Average Closed Equity Drawdown %	8.49%						
Round Turns Per Million	1,380						
Round Turns	1,749,717						
Total Trades	1,258	Global Simulation Parameters					
Start Account Balance	10,000,000.00	Earn Interest	FALSE				
Total Win Dollars	1,133,374,474.55	Earn Dividends	TRUE				
Total Loss Dollars	788,287,224.61	Pay Margin on Stocks	TRUE				
Total Profit	345,087,249.94	Commission per Stock Trade	0.00				
Earned Interest	0.00	Commission per Stock Share	0.01				
Margin Interest	0.00	Commission per Contract	7.00				
End Account Balance	355,087,249.94	Commission by Stock Value (%)	0.00%				
End Open Equity	0.00	Slippage Percent	7.00%				
End Total Equity	355,087,249.94	Minimum Slippage	0.00				
Highest Total Equity	383,173,010.26	Forex Trade Size	1,000.00				
Highest Closed Equity	355,087,249.94	Account for Forex Carry	TRUE				
Total Commissions	12,248,019.00	Use Pip Based Slippage	FALSE				
Commission per Round Turn	7.00	Account for Contract Rolls	TRUE				
Total Slippage	67,320,549.96	Roll Slippage in % of ATR	3.50%				
Slippage per Round Turn	38.48	Minimum Stock Volume	1,000				
Total Forex Carry	0.00	Minimum Futures Volume	1,000				
Total Dividends	0.00	Max Percent Volume Per Trade	25.00%				
Total Other Expenses	0.00	Entry Day Retracement	0.00%				
		Max Margin Equity	100.00%				
		Trade on Lock Days	FALSE				
		Convert Profit by Stock Split	TRUE				
		Trade Always on Tick	TRUE				
		Smart Fill Exit	TRUE				
		Use Start Date Stepping	FALSE				
Monte Carlo Confidence Level Statistics							
90% Return	14.49%						
90% Sharpe	0.02						

90% MAR	0.31	Use Broker Positions	FALSE
90% R Squared	0.842		
90% Maximum Drawdown	50.76%		
90% Second Largest Drawdown	40.45%	Preferences	
90% Third Largest Drawdown	35.93%	Risk Free Rate	3.00%
90% Longest Drawdown	57.8	Load Volume	TRUE
90% Second Longest Drawdown	31.0	Load Unadjusted Close	TRUE
90% Third Longest Drawdown	21.9	Raise Negative Data	FALSE
		Process Weekly Bars	TRUE
		Process Monthly Bars	TRUE
		Process Daily Bars	TRUE
		Process Weekends	TRUE
		Additional Years of Data	5.00

System Parameter Settings**SPF Parameters**

Allocation Percent	100.00%
Risk Per Trade (%)	1.00%
LMA_PERIOD	300
SMA_PERIOD	50
ENTRY_PERIOD	75
ATR_PERIOD	20
ATR_SL_TIMES	2.00
ATR_EX_TIMES	5.00

Portfolio Futures:All Liquid
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