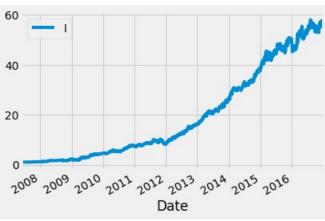
```
In [30]: runfile('E:/GitWorkSpace/v-ratio-momentum-and-ladder/portfolio.pv', wdir='E:/
GitWorkSpace/v-ratio-momentum-and-ladder')
Reloaded modules: WhiteRealityCheckFor1, computation helper, data helper,
rotational momentum
requested data history already exists!
E:\GitWorkSpace\v-ratio-momentum-and-ladder\computation helper.py:278: RuntimeWarning:
invalid value encountered in double scalars
 vratio = t/(lag*b);
60
40
20
 2008 2009 2010 2011 2012 2013 2014 2015 2016
                   Date
TotaAnnReturn = 613.708261
CAGR = 50.760000
Sharpe Ratio = 1.731000
Volatility= 0.268000
number of records for the series after dropping na: 1017
average return 0.005840
[-0.00299824 0.0031028 ]
Reject Ho = The population distribution of rule returns has an expected value of zero or
less (because p value is small enough)
p value:
5.99999999994898e-05
E:\GitWorkSpace\v-ratio-momentum-and-ladder\computation helper.py:278: RuntimeWarning:
invalid value encountered in double scalars
 vratio = t/(lag*b);
60
40
```



TotaAnnReturn = 574.147320

CAGR = 49.780000

Sharpe Ratio = 1.693000

Volatility= 0.271000

number of records for the series after dropping na: 1017

average return 0.005535

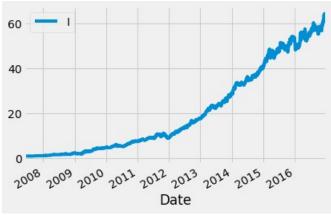
[-0.00300902 0.00311152]

Reject Ho = The population distribution of rule returns has an expected value of zero or less (because p_value is small enough)

p value:

0.000240000000000001798

vratio = t/(lag*b);



TotaAnnReturn = 641.618889

CAGR = 51.420000

Sharpe Ratio = 1.727000

Volatility= 0.272000

number of records for the series after dropping na: 1017

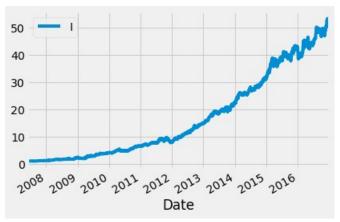
average return 0.005222

[-0.00299956 0.00305923]

Reject Ho = The population distribution of rule returns has an expected value of zero or less (because p_value is small enough)

p_value:

0.0003600000000000002697



TotaAnnReturn = 529.649500

CAGR = 48.600000

Sharpe Ratio = 1.644000

Volatility= 0.274000

number of records for the series after dropping na: 1017

average return 0.004884

[-0.00299837 0.00306292]

Reject Ho = The population distribution of rule returns has an expected value of zero or less (because p_value is small enough) p value:

0.00090000000000000119



TotaAnnReturn = 610.085900

CAGR = 50.680000

Sharpe Ratio = 1.728000

Volatility= 0.268000

number of records for the series after dropping na: 1017

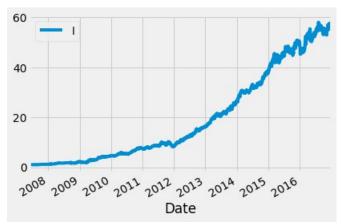
average return 0.005840

[-0.0030268 0.00308424]

Reject Ho = The population distribution of rule returns has an expected value of zero or less (because p_value is small enough) p value:

0.0001400000000000029

 invalid value encountered in double_scalars
 vratio = t/(lag*b);



TotaAnnReturn = 574.147320

CAGR = 49.780000

Sharpe Ratio = 1.693000

Volatility= 0.271000

number of records for the series after dropping na: 1017

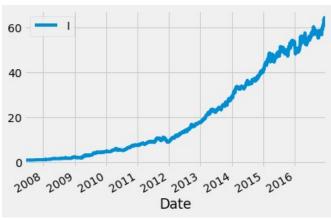
average return 0.005535

[-0.00301734 0.00310617]

Reject Ho = The population distribution of rule returns has an expected value of zero or less (because p_value is small enough)

p value:

0.0001799999999995797



TotaAnnReturn = 640.313758

CAGR = 51.390000

Sharpe Ratio = 1.726000

Volatility= 0.272000

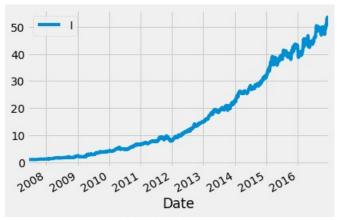
number of records for the series after dropping na: 1017

average return 0.005222

[-0.00297658 0.00305522]

Reject Ho = The population distribution of rule returns has an expected value of zero or less (because p_value is small enough) p_value:

0.000499999999999449



TotaAnnReturn = 532.184173

CAGR = 48.670000

Sharpe Ratio = 1.644000

Volatility= 0.275000

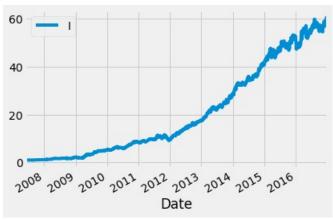
number of records for the series after dropping na: 1017

average return 0.004897

[-0.00299263 0.00308269]

Reject Ho = The population distribution of rule returns has an expected value of zero or less (because p_value is small enough) p_value:

0.00082000000000000429



TotaAnnReturn = 604.832504

CAGR = 50.550000

Sharpe Ratio = 1.724000

Volatility= 0.268000

number of records for the series after dropping na: 1017

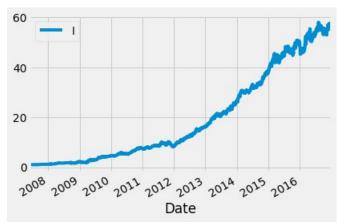
average return 0.005794

[-0.00301682 0.0030936]

Reject Ho = The population distribution of rule returns has an expected value of zero or less (because p_value is small enough)

p value:

9.99999999998899e-05



TotaAnnReturn = 574.147320

CAGR = 49.780000

Sharpe Ratio = 1.693000

Volatility= 0.271000

number of records for the series after dropping na: 1017

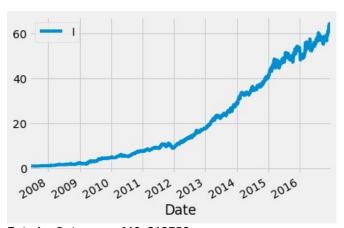
average return 0.005535

[-0.00306124 0.0030656]

Reject Ho = The population distribution of rule returns has an expected value of zero or less (because p_value is small enough)

p_value:

0.0002199999999999797

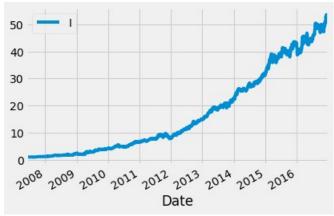


TotaAnnReturn = 640.313758

CAGR = 51.390000

Sharpe Ratio = 1.726000

```
Volatility= 0.272000
number of records for the series after dropping na: 1017
average return 0.005222
[-0.0029897    0.00303659]
Reject Ho = The population distribution of rule returns has an expected value of zero or less (because p_value is small enough)
p_value:
```



TotaAnnReturn = 532.184173

CAGR = 48.670000

Sharpe Ratio = 1.644000

0.000480000000000003595

Volatility= 0.275000

number of records for the series after dropping na: 1017

average return 0.004897

[-0.00300108 0.0030496]

Reject Ho = The population distribution of rule returns has an expected value of zero or less (because p_value is small enough)

p value:

0.00082000000000000429

In [31]: