SP500 has no kurtosis

In[◦]:=
```
? FinancialData
```

Out[◦]=

Symbol

FinancialData["*name*"] gives the last known price or value for the financial entity specified by "*name*".

FinancialData["*name*", *start*] gives a list of dates

and daily closing values for "*name*" from *start* until the current date.

FinancialData["*name*", {*start*, *end*}] gives a list of dates and daily closing values for dates from *start* to *end*.

FinancialData["*name*", {*start*, *end*, *period*}] gives a list

of dates and prices for the specified periods lying between *start* and *end*.

FinancialData["*name*", "*prop*"] gives the value of the specified property for the financial entity "*name*".

FinancialData["*name*", "*prop*", {*start*, *end*, …}] gives

a list of dates and values of a property for a sequence of dates or periods.

In[◦]:=
```
X = Differences[Log[FinancialData["SP500", {"Nov 18 1900", "Dec. 6, 2023"}]]];
```

In[◦]:=
```
Ret = Transpose[X]〚2〛 // Normal;
RetSq = Ret^2;
```

In[◦]:=
```
emp = EmpiricalDistribution[RetSq]
```

Out[◦]=
```
DataDistribution[ Type: Empirical  Data points: 12 581 ]
```

In[◦]:=
```
Kurtosis[RetSq]
```

Out[◦]=
```
607.33
```

In[∘]:=
```
ListLinePlot[Table[Max[Take[RetSq^4, i]] / Total[Take[RetSq^4, i]], {i, 20, Length[Ret]}],
 AxesLabel → {"days", "Max/Sum"}, PlotStyle → Blue,
 PlotLabel → "Max-Sum Plot of Kurtosis of Daily Squares, SP500"]
```

Out[∘]=