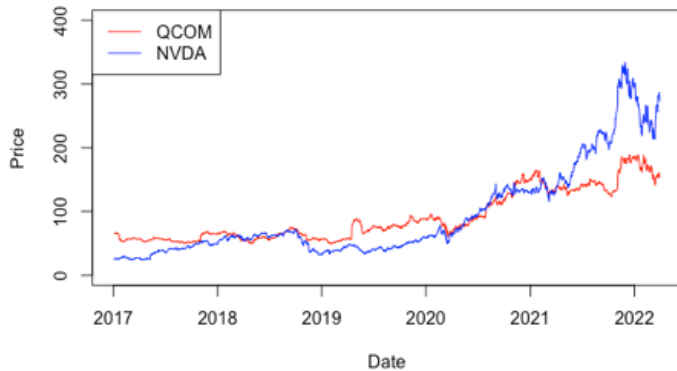


Report about the daily prices and returns of QCOM and NVDA

This report is to analysis the daily price and returns of two stocks, Qualcomm Inc. (QCOM) and NVIDIA Corp. (NVDA) from Jan 1, 2017 to Mar 31, 2022. Both Qualcomm and NVIDIA are well-known semiconductor companies. All data in this report is from CRSP. The prices in this report were adjusted.

Prices for Qualcomm and NVIDIA



The prices of the stocks are shown on the left.

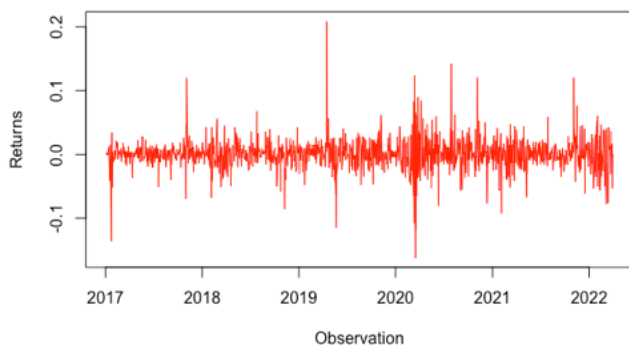
Between Jan 1, 2017 and Mar 31, 2022, the mean values of the stock prices of QCOM and NVDA are 91.37 and 94.43, while the medians are 75.29 and 61.33. NVIDIA has the larger maximum price (333.76) and the smaller minimum price (23.87).

In this period of time, the mean of the compound return of QCOM and NVDA are 0.077% and 0.177% and the medians are 0.091% and 0.250%.

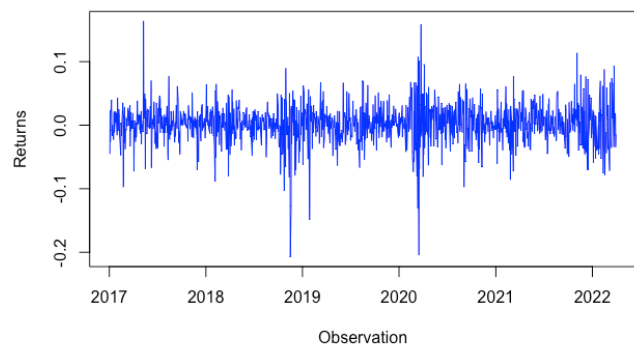
The whole period volatility of QCOM and NVDA are 0.0241 and 0.0304.

The compound returns of the stocks are shown separately below. The prices of both stocks seen a rise during the past 5 years. It is explicit that the volatility of NVIDIA Corp. is greater than Qualcomm Inc. In most days in 2017, the price of NVDA is lower than its of QCOM. There was a difference between the trend of the two stocks in 2018 and 2019. At the beginning of 2020, the pandemic of COVID-19 affected the prices and returns of both stocks. However, after that, there was a significant increase for both stocks and the prices exceeded their price before the pandemic in a relatively short period. In 2021, although there is a big gap between the prices, the trend of the two stocks is similar in some extents.

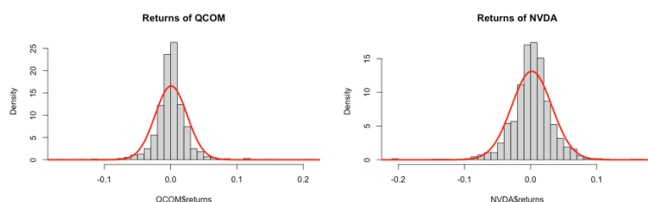
Compound returns for Qualcomm



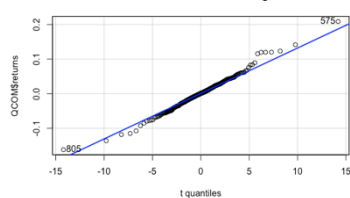
Compound returns for NVIDIA



The following bar charts illustrate that the returns of both stocks are not normally distributed. The fat tails are also explicit. The QQ plots shows that the Student-t distribution with 3 degrees of freedom seems to fit the returns of the two stocks best.



QQ Plot of QCOM and Student-t with 3 Degrees of Freedom



QQ Plot of NVDA and Student-t with 3 Degrees of Freedom

