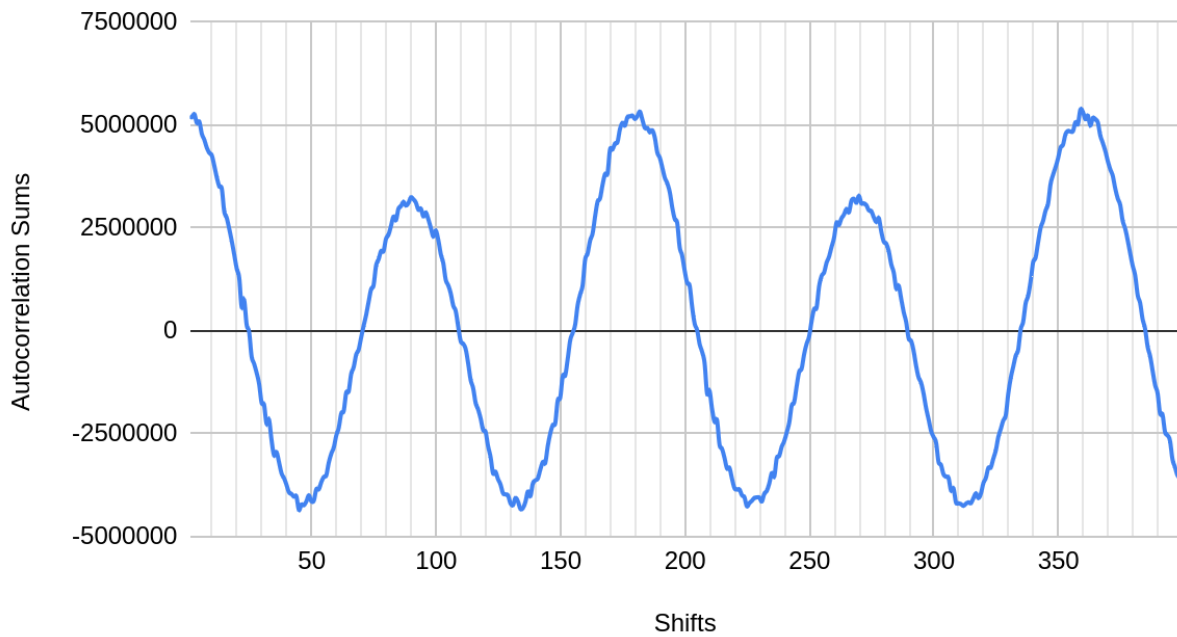


CS_475 Project #7
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1.

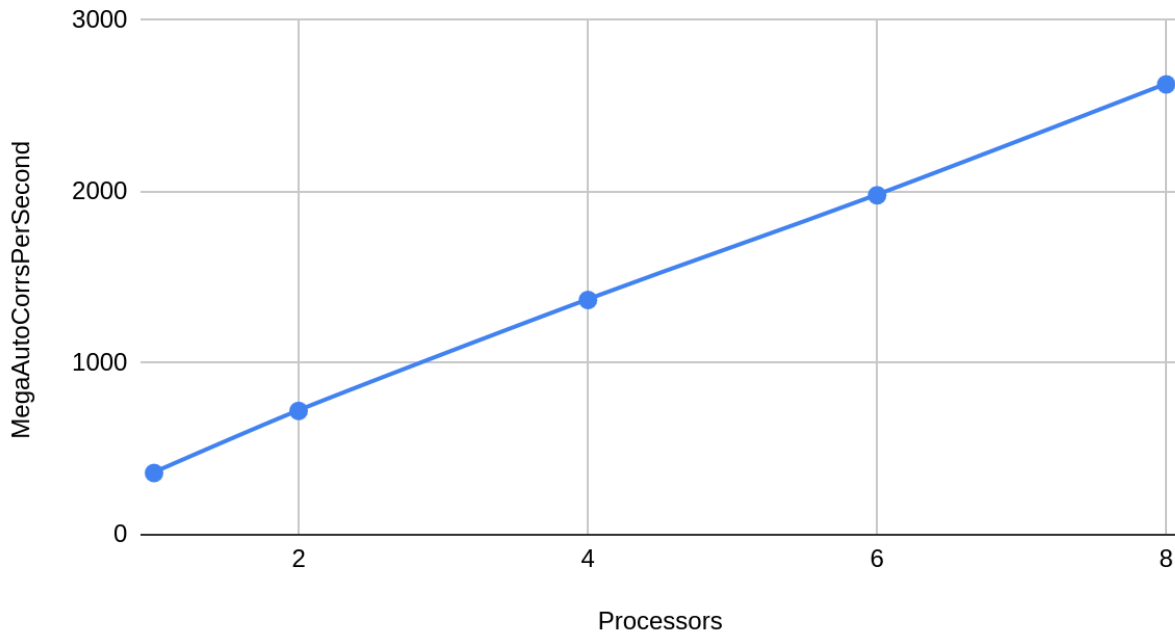
Sums vs. Shifts



2. One of the sine waves seems to go from ~90 to ~270, so I'd say it has a period of **~180 shifts**. The other seems to go from ~90 to ~180, so I'd say **~90 shifts**.

3. I was only able to get up to 8 processors running, likely due to user restrictions on the hpc server.

MegaAutoCorrsPerSecond vs. Processors



4. The only pattern really present here is that as the number of processors is linearly proportional to the performance.
5. The linearity aside, the reason for the performance increase is because we have more processors working on the same number of elements. Of course, this is not likely to continue perpetually however. As the number of processors that need to communicate with each other increases the amount of time they spend communicating with each other will increase, and once that reaches a certain threshold the performance will not only taper off, it will likely begin to decline.