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Project 05

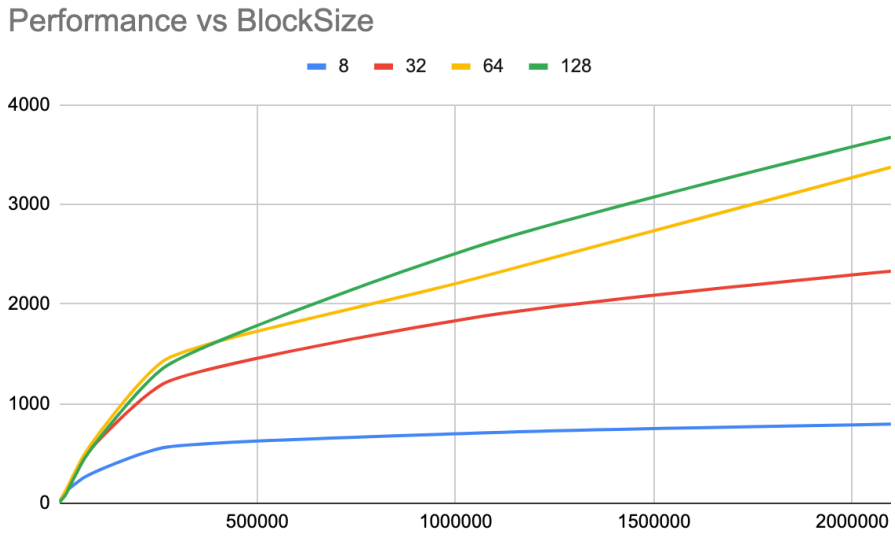
1. Tell what machine you ran this on

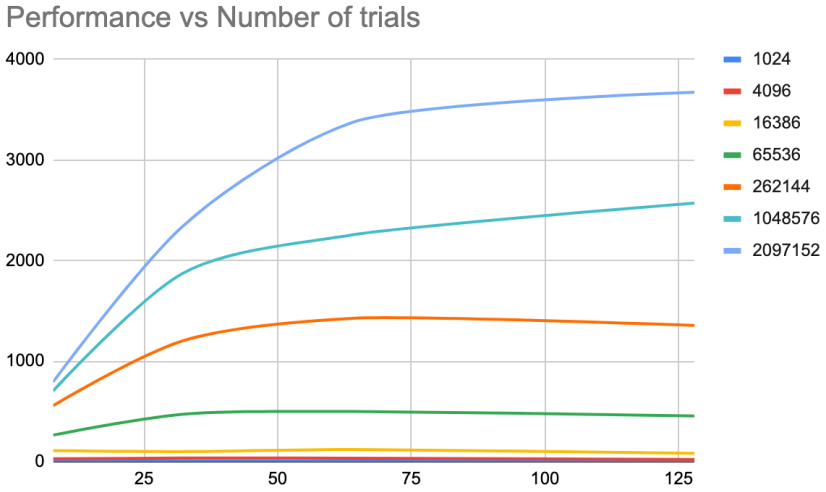
   **I first compiled it on the school flip server and then I shh into rabbit to run the program.**

2. What do you think this new probability is?

   **The new probability would be 26.89% since that is the average of all the probabilities from the test.**

3. Show the table and the two graphs



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4. What patterns are you seeing in the performance curves?

   **The performance increases as both block size and number of trials increases. For Performance vs numtrials it  gets to a certain point and starts to plateau and sink in performance. However for performance vs block size the graph curves at a certain point and has a consistent increase/slope afterwards.**

5. Why do you think the patterns look this way?

   **The pattern is more consistent because GPU is made to do several task at once and thus gives consistent results as seen.**

6. Why is a BLOCKSIZE of 8 so much worse than the others?

   **Blocksize 8 does a lot worse because it has the least amount of space, while the other block size are bigger.**

7. How do these performance results compare with what you got in Project #1? Why?

   **I think that performance vs the number of trials was pretty similar to project one but the second graph for threads differed greatly when compared to this graph for blocksize. For the project graph the thread graph was not as constant as the graph for block size. This is because GPU is made to do several task at once and thus gives consistent results in comparison.**

8. What does this mean for what you can do with GPU parallel computing?

   **GPU computing has the ability to perform several tasks at once and does a better job then cpu since it is built to do task one by one.**