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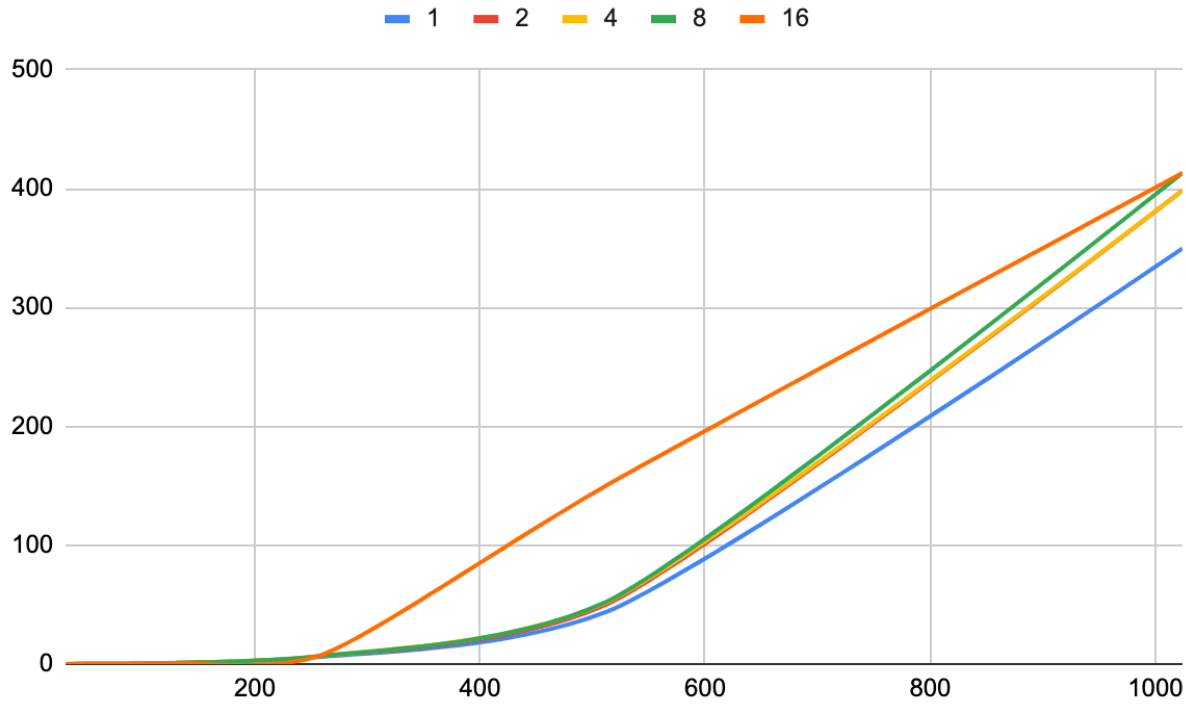
Project 06

1. What machine you ran this on
   I ran this on Rabbit.
2. Show the table and graphs

	32	64	128	256	512	1024
1	0.01	0.10	0.81	5.79	43.74	349.53
2	0.01	0.10	0.82	6.35	49.94	398.36
4	0.01	0.10	0.82	6.5	51.69	398.36
8	0.01	0.10	0.83	6.55	52.2	413.32
16	0.01	0.10	0.83	6.54	150.04	413.18



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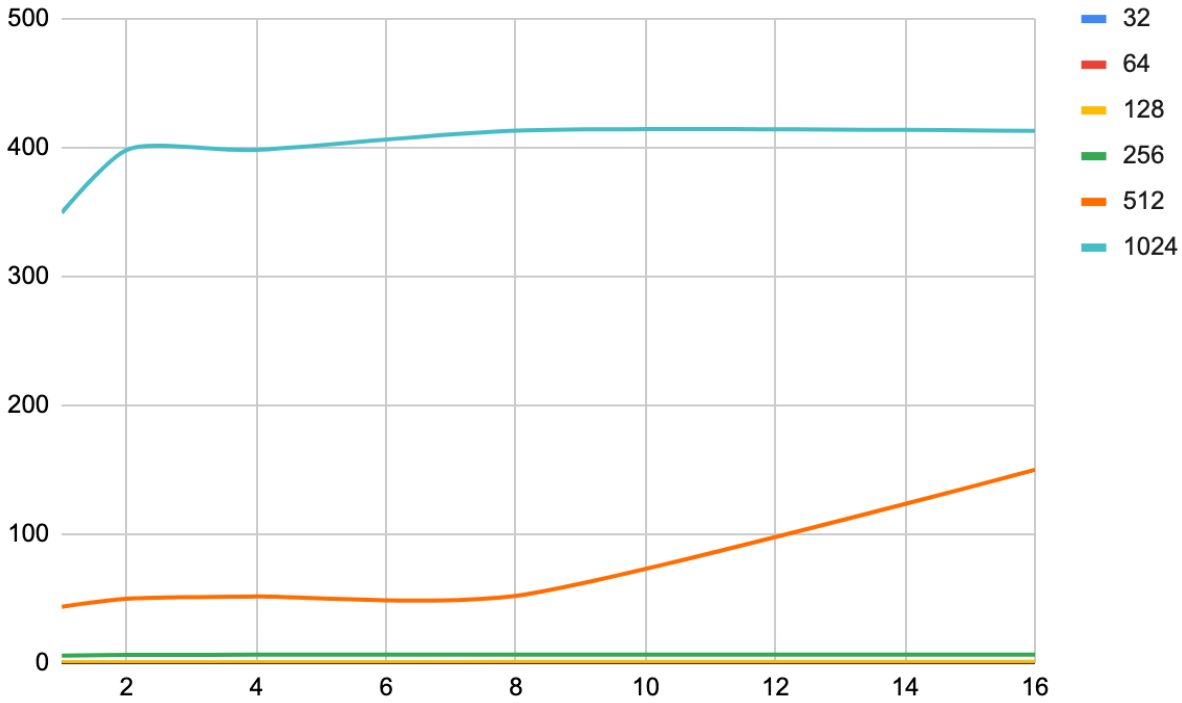

3. What patterns are you seeing in the performance curves? What difference does the size of the matrices make? What difference does the size of each work-group make?

   As the matrix size and work group increase so does the performance. For smaller matrices like 32 and 64 the work group did not seem to affect the performance. As the matrix sizes start to increase you can start to see a difference in performance when examining the different work group sizes.

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

   I think the pattern looks this way because as more space is being allocated the more a matrix can multiply. For the smaller matrix sizes there was not a lot of multiplication to be done so there was no real difference in performance when comparing group sizes. But for bigger matrices there was more work so the work groups did make a difference.