Experiment. No. 06 Mini project 1

Title: write a program to implement matrix multiplication Also implement multithread matrix multiplication with either one thread per row or one thread per cell.

Analyze and compare their performance.

objective: To implement and analyze matrix multiplication and multithread matrix application with either one thread per cell.

Theory:

multiplication of matrix does take time surely.

Time complexity of matrix multiplication is o (n's)

using normal matrix multiplication and strassen algorithm

improves it and its name its time complexity is

0 (n' (2.8674).

Depending upon the no. of uses your processor has, you can create the no. of thread required.

Although you can create or many thread on you and need a better way is to create each thread for one use.

thread 1	AII	A12	A 13	A14
thread 2	A21	A22	A23,	B24
thread 3	. A31	A32	A33	A34
thread 4	A41	A42	A43	A44

BII	B12	g 13	B14
B21	B 22	B23	B24
B31	B32	B33	B34
B 41	1342	B 43 B 4	

	methods:
	In this example
	matrices of size 1000 × 1000 for AS B
	matrices of Size
Profesionancy deminer assessment of the particular section on a series accept	matrices may not demand.
	The second state of the second
	2. multithreading overhead - The use of multip
	introduces overhead in terms of thread
1 4 14	A STATE OF THE STA
	3 Number of CPU thread - The number of
	available can affect performance.
	4. cache & memory - the efficiency of cache
1 29	can play a role in performance
	s. optimized Libraries - specialized libraries Numpy have highly and it
	Numpy have highly optimized libraries routine that can out perform
	routine that can out perform cystom multil
	implementations. Perform custom multil
	The second secon
	6. Hardware - The performance can vary has
	the specific hardware. can vary bas
Market Market State Control of the C	
The state of the s	Conclusion:
	Hence we have succession
	implementation of this mini project completed
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We have been a second	
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