

PDP Lab 3 Documentation

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936/1

Problem requirements: <https://www.cs.ubbcluj.ro/~rlupsa/edu/pdp/lab-3-parallel-simple.html>

Elapsed times

#	Sizes	Threads #	Approach	Function	Time
1	4x4	5	Normal	Kth	0.006
2	4x4	3	Pool	Row	0.016
3	10x10	5	Pool	Column	0.016
4	10x10	1	Normal	Kth	0.008
5	100x100	4	Pool2	Kth	0.032
6	100x100	4	Pool	Kth	0.024
7	100x100	3	Normal	Row	0.016
8	250x250	5	Normal	Row	0.048
9	250x250	5	Normal	Column	0.048
10	250x250	5	Normal	Kth	0.048
11	500x500	10	Pool	Row	0.136
12	500x500	5	Pool	Column	0.152
13	500x500	5	Pool	Kth	0.104
14	1000x1000	15	Normal	Kth	4.448
15	1000x1000	10	Pool	Kth	4.096
16	1000x1000	10	Normal	Column	3.952
17	1000x1000	4	Pool	Row	2.304
18	2000x2000	10	Normal	Column	68.976
19	2000x2000	15	Pool	Kth	63.416

Used Hardware

Item	Value
OS Name	Microsoft Windows 10 Education
Version	10.0.17134 Build 17134
Other OS Description	Not Available
OS Manufacturer	Microsoft Corporation
System Name	ALEX-PC
System Manufacturer	To Be Filled By O.E.M.
System Model	To Be Filled By O.E.M.
System Type	x64-based PC
System SKU	To Be Filled By O.E.M.
Processor	Intel(R) Core(TM) i7-4790 CPU @ 3.60GHz, 3601 Mhz, 4 Core(s), 8 Logical Pro...
BIOS Version/Date	American Megatrends Inc. P1.90, 22-Dec-15
SMBIOS Version	2.7
Embedded Controller Version	255.255
BIOS Mode	Legacy
BaseBoard Manufacturer	ASRock
BaseBoard Model	Not Available
BaseBoard Name	Base Board
Platform Role	Desktop
Secure Boot State	Unsupported
PCR7 Configuration	Binding Not Possible
Windows Directory	C:\WINDOWS
System Directory	C:\WINDOWS\system32
Boot Device	\Device\HarddiskVolume1
Locale	United States
Hardware Abstraction Layer	Version = "10.0.17134.1098"
User Name	ALEX-PC\Alex
Time Zone	GTB Daylight Time
Installed Physical Memory (RAM)	16.0 GB
Total Physical Memory	15.9 GB
Available Physical Memory	4.63 GB
Total Virtual Memory	20.7 GB
Available Virtual Memory	2.85 GB
Page File Space	4.80 GB
Page File	C:\pagefile.sys
Kernel DMA Protection	Off
Virtualization-based security	Not enabled
Device Encryption Support	Reasons for failed automatic device encryption: TPM is not usable, PCR7 bindi...
Hyper-V - VM Monitor Mode E...	Yes
Hyper-V - Second Level Addres...	Yes
Hyper-V - Virtualization Enable...	Yes
Hyper-V - Data Execution Prote...	Yes