Matrix Multiplication Runtime Using Pthreads

S.P.S Deemantha (CST140007)

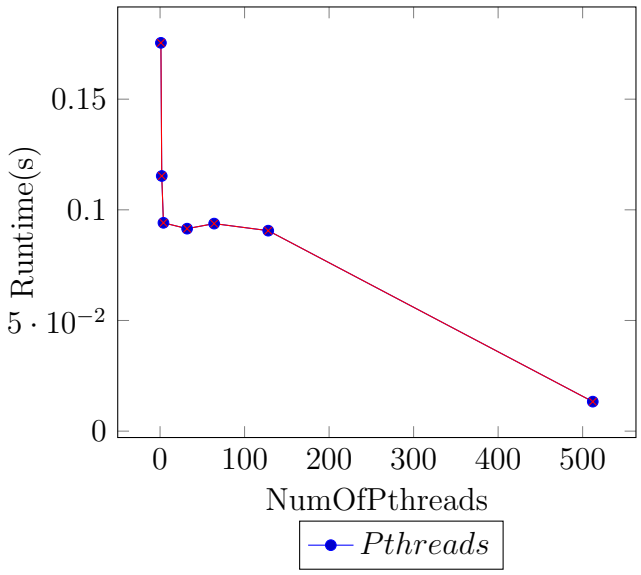
November 14, 2017

Contents

1 CPU Programe Runtime

This program is executed in normal CPU and x,y values are extracted from the average runtime of different number of pthreads.The Graph has been ploted according to number of pthreads and avarage run time. Also the size of the matrix is fixed here.

NumOfPthreads	Runtime(s)
1	0.18
2	0.12
4	$9.41 \cdot 10^{-2}$
32	$9.15 \cdot 10^{-2}$
64	$9.38 \cdot 10^{-2}$
128	$9.06 \cdot 10^{-2}$
512	$1.33 \cdot 10^{-2}$



2 References

- https://github.com/imsure/parallel-programming/blob/master/matrix-multiplication/matrix-mul-pthread.c
- https://stackoverflow.com/questions/2446122/using-pthread-to-perform-matrix-multiplication?rq=1
- https://macboypro.wordpress.com/2009/05/20/matrix-multiplication-in-c-using-pthreads-linux/
- http://www.diva-portal.org/smash/get/diva2:944063/FULLTEXT02