



Birla Institute of Technology & Science, Pilani

Pilani Campus

II SEMESTER 2021-2022 TAKE HOME EXERCISE-1

Course No.: CS F422

Course Title: Parallel Computing

Deadline: As per Canvas

Maximum Marks: 20M

Write a parallel program using Pthreads to compute the following series. Program should take x and number of processes.

$$e^x = 1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \frac{x^4}{4!} + \frac{x^5}{5!} + \dots$$

Files Expected: A tar file <idno>_the1.tar containing pthreads.c, makefile, readMe.txt. ReadMe should contain speedup achieved, and efficiency for $n=1$ to 100 where n is number of pthreads.

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