**National University of Computer & Emerging Sciences, Karachi Campus**



Project Proposal

CS220 - Operating Systems

BCS 4H

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Introduction:

The target of our project is to find out which of these 3 (SERIAL vs PTHREAD vs OPENMP) ways yields the most efficient outcome.

In this, 3 sorting algorithms will be compiled using the above-mentioned ways of processing to find out the time complexity.

Procedure:

* 3 sorting algorithms will be compiled:
  + Count Sort
  + Quick Sort
  + Selection Sort
* Algorithms will use the following ways of processing:
  + SERIAL
  + PTHREAD
  + OPENMP
* The timestamp will be put on all these methods readings will be noted.
* The program will output the most efficient algorithm with the best method used.

Outcome:

According to the data, the most efficient method will be presented.

Technologies:

* Linux OS
* C/C++