

1. Write a Pthreads program in C that finds the average time required by your system to create a thread and also to terminate a thread. Find out how the number of threads affects the average time to create and the average time to delete threads?

note: this problem is not to create and then delete each thread, we want multiple threads running as more are created. And then all deleted too.

- a. Create 1x thread and see what times it gives you for the create
  - i. Delete that thread and see what time it gives you for the delete.
- b. Do the same as in (a/a.i) 10x times and see what the average is.
- c. Do it again for 100x.
- d. Do it again for 1000x.
- e. Do it again for ?x – as your system can reasonably handle.

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Submission instructions:

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Due: November 10, 2020 at 11:59pm

via Email

to: [sscott@tnitech.edu](mailto:sscott@tnitech.edu)<br>

Subject: CSC4760-5760 ProgramThreads

Send email with 3 files as attachments

1. source
2. make file to compile your codes
3. video screen capture of your program from compile through execution and some message exchanges. Maximum of 30-sec video should be sufficient to show this.