

Assignment 2(PThread Programming)

Due: 2014-11-17 23:59

Assignment:

P1:

Please refer to P1 of Assignment 1.

Description:

You will be allocated one of these problems above according to your student id.

[Your Problem ID]=[Last Three Digits of Student ID+1] Mod 4)+1

Please note your problem id has changed,do not implement the same problem in Assignment

1.Use PThread to simulate your problem and deal with the synchronization problems you encountered.Your test case should include all situations referred to in your problem.

P2:

Please implement Median filter algorithm in PThread.

Median filter:http://en.wikipedia.org/wiki/Median_filter

Description:

Everyone should complete P2 using PThread, use optimization technology in your code to improve efficiency as much as you can.

NOTICE:

1. Marking Criterion:We will evaluate your program from several aspects.
 - Optimize Technology(40%)
 - Execution Efficiency(30%)
 - Correctness(20%)
 - Code Style(10%)
2. Write a brief report to clarify your results and thought.
3. Send your final version to TA before due date.You should archive your source code and report with name StudentID_Name_Assinment2.rar(or any archive file types).
4. If you have any questions, please feel free to contact TA.
5. PThread Tutorials: <https://computing.llnl.gov/tutorials/pthreads/>

Warning:

No cheating,please refer to 《上海交通大学学生学业诚信守则》,it is your responsibility to take the consequences if you violate the rule.

Extras:

For next assignment,we will have several groups.You can choose one or two friends as your partners.(There should be less than three persons in one group.)You can choose a leader of your team and the leader will send me your team members list before the due date.If you are not in any group after the due,I will randomly allocate for you.You will know your group information on our website before next assignment.