# Queen’s University of Belfast

# Computer Science

# Minute of Project Supervision Meeting

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| **Student Name:** | **Tianbai Peng** | | |
| **Project Module Code:** | **CSC4006** | | |
| **Project Supervisor:** | **Peter Kilpatrick** | | |
| **Meeting Number:** | **9** | **Date of Meeting:** | **10:00, 03/01/2019** |

**Progress since last meeting, and decisions arrived at during meeting:**

**what I do last time:**

* Make several experiments on Fastflow program and record the results:

1. Experiment with none state access pattern with different parallelism degree (1,2,4,8,16,32,64,128)

2. Experiment with diffident percentage of state access pattern (1%,10%,20%) with different parallelism degree (1,2,4,8,16,32,64,128)

* But some experiments take much longer execute time, which is totally not fit the ideal situation, it may something wrong with the code, or the timer’s issue

**something discussed this time:**

* Talked some detail about my experiment design: more than 8 threads cannot get more parallel speedup because my local machine only has 8 cores. And need to record a high-accuracy time by using a better timer on c++.
* Talked one debug method for the issue. I may only use 1 and 6 threads at the beginning to demonstrate if the pattern can work successfully
* Talked one possible reason for the bug: the communication time is much longer than the process time on the worker, so I need try to increase the process time.

**Action Points:**

**what I am going to do:**

* Debug the code and make sure those experiments on Fastflow program work successfully and record the results. And make sure the experiment results are as predicted.

**Date of next meeting:**

12:30 09/01/2019

**Agreed minute should be signed by the student and initialled by the supervisor.**

**Student's Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Supervisor's Initials: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Supervisor's Comments:**