IUT Sync-Meeting Notes

Date: 2016/4/13

Time: 4:00 p.m.

Attendants:

* Morgan Stanley: Baiyan Huang, Jing Li
* Shanghai Jiao Tong University: Ziyi Lin, Weizhao Yuan

Discussions (in time order):

**About AspectC++:**

1. When does the “weaving” takes place during the compilation? Can it handle the case as follows?

<code>

#define DEF\_CLASS (class\_name)

//following is some code that defines a class within this macro

</code>

1. We assume that ac++ is just a “weaver” that transforms AspectC++ code into ordinary C++ code, which, after the transformation, can be compiled to executable code with ordinary C++ compilers like GNU g++ (turns out we are right ☺). So we hope that, if we use AspectC++, we’d first **use ac++ and then g++** instead of straightly using ag++ which providing both the weaving and compiling functionality.

**About C++ projects for testing:**

1. A C++ project called “Muduo” (<https://github.com/chenshuo/muduo>)
2. C++ projects from Apache website (<http://apache.org/index.html#projects-list)>

**About Linux OS:**

People in M.S. use Redhat (RedHat 6 mostly) as their Linux development environment.

**About gcov:**

The method of **gcov seems more “native”** compared to AspectC++ as we don’t have to use third-party programs.

Therefore, if both the two methods meet our satisfaction, and performances don’t differ much, **we prefer to use gcov**.

**About database:**

As we know, Java IUT uses SQLite as database, but the process of updating database takes more time than expected. Since the performance of SQLite itself cannot be that bad, there may be **problems with the code** that update the database, which we need to verify.

**About deliverables in the next meeting (16/4/13):**

1. Complete the functionality of instrumentation.
2. The diff program that finds differences between two versions of the target project