Java Program Profiling

Group Members

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How To Run

- This project needs both JDK7 (for Dava decompilation) and JDK8 for both static/dynamic analysis. When you run with JDK7, you should select the external soot library `soot-2.5.0.jar`. Otherwise, that's to say, you are running with JDK8, the external soot library should be selected as `sootclasses-trunk-jar-with-dependencies.jar`.
- For the four sample test programs, `Test{1-4}.java`, you should run static AND dynamic analysis under JDK8, and then SWITCH to JDK7 with the soot library for decompilation. Then you can find your decompiled JAVA program under `sootOutput/dava/src/` . Repeat this procedure for ALL test cases you have.
- Go to `sootOutput/dava/src/` to do manual compilation for all `*.java` you got.
- Just run the code using `java Test1` if you are to run `Test1.class` you just compiled.

Extra Notes

- You MUST change the configuration in `Line 467` of `Main.java` by yourself with your local path.
- Though we tried to avoid `SocketFlow.*` generated by Dava decompilation, there still exists this issue in the decompiled Java programs. You can modify `SocketFlow.*` to an integer manually to make the decompiled Java program ready to compile.
- Test2 is faulty due to the existing bug in Dava.

Sample Output

- I saved ALL static profiling output results under `myOutput/staticOutput`.
- Dynamic profiling output results are generated by running the `runDynamic.sh`. The output results are saved under `myOutput/dynamicOutput`.