**CS 1632 - DELIVERABLE 5: Performance Testing Conway's Game of Life**

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https://github.com/znaeb/SlowLifeGUI

Summary:

I profiled my application with NetBeans’s built-in profiler. I’ve read online that the built-in profiler is in fact VisualVM (although it might look slightly different). I profiled it by method, and found the “Hot Spots” (there is a button to display it). I even saved a Snapshot of each profiler result I made, allowing me to look back on them at any time (however they are a part of the NetBeans nbproject files, which are in .gitignore).

I completely removed the convertToInt method, because its output would always equal its input, however it is a private method, and the only public methods that would be affected by its changes are the run and runContinuous methods (ignoring all methods that call these two methods.) Thus, “pinning tests” were needed for both of those methods. I also removed an unnecessary loop in the runContinuous method.

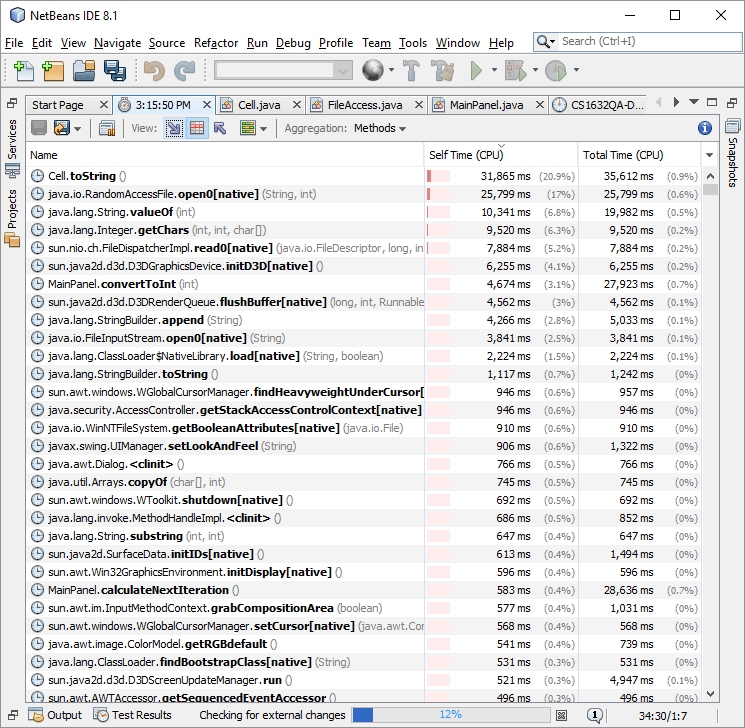
I removed a useless loop in the Cell class’s toString method, and this effected the call to write. However, as the toString method is public, it could be tested directly, unlike the previous example.

I removed two calls to setVisable, and I manually checked that it continued to show the changes made. I believe that since setVisable was never set to false, it only needs to be called during initialization, because you can’t get more true than true. This sped up the screen’s update time.

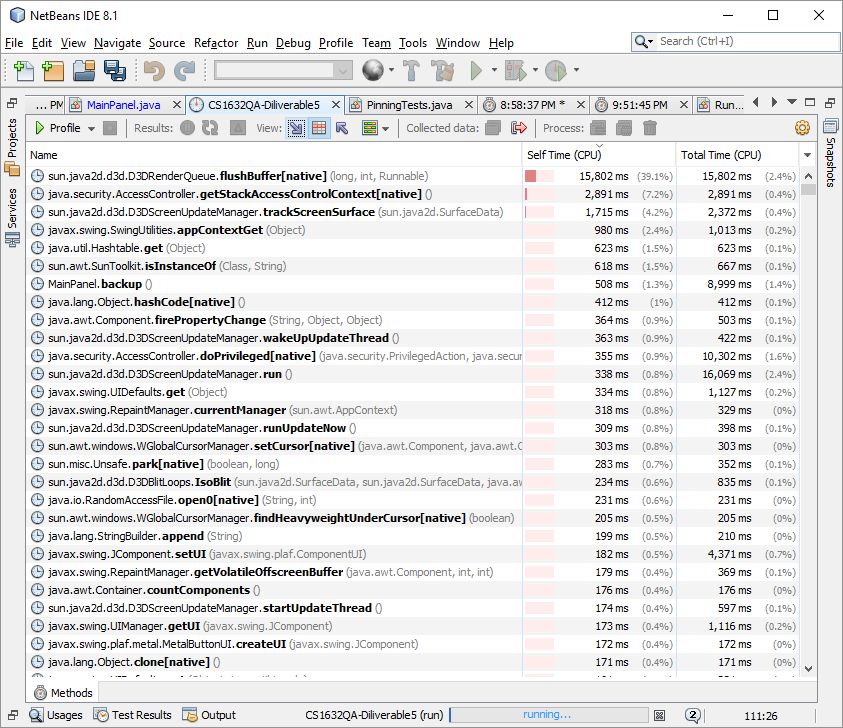
One thing I did not do, was use the police’s profiler to check the likelihood that the application is likely to commit crimes (or is a member of a minority group). The reason I didn’t do this, (other than the obvious,) is because I already *know* that the application is a murderer, just think of how many lives it has taken.

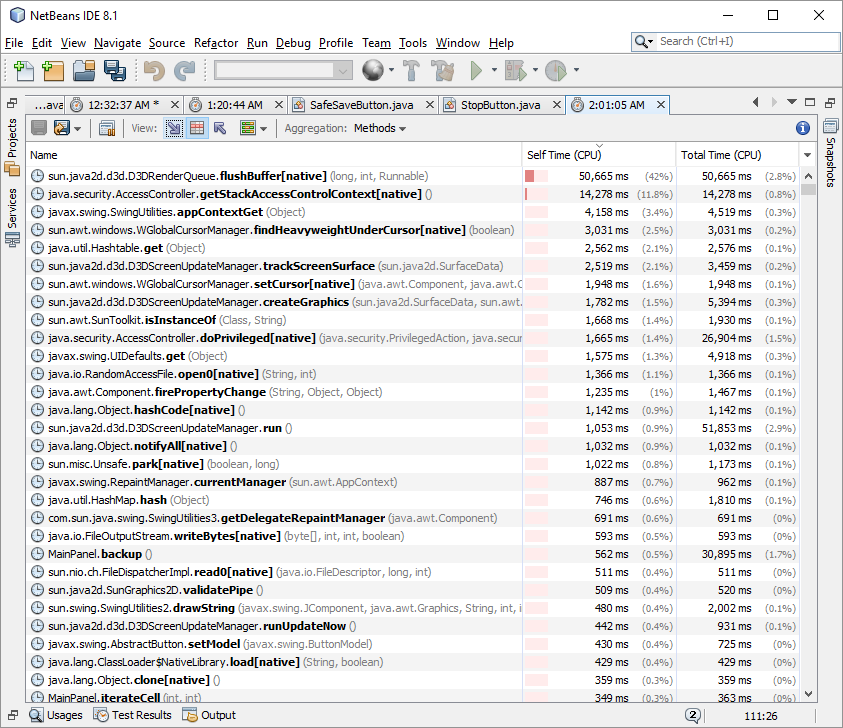
This project was done in memory of the Cell at row two, column three. May its bytes rest in peace.

ORIGINAL profile Results Image:



Modified profile results:



Intensive modified run

Comparison between changes