

CS 1632 Software Quality Assurance

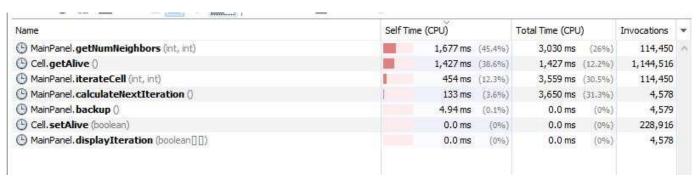
Deliverable 4

Member 1 Name: Stefon Miller

Member 2 Name: Thomas Bednarz

1. Optimized Feature 1

- a. Write the name of the feature optimized (the label on the button)
 The first feature we optimized was the "Run Continuous" feature
- b. Write the name(s) of the method(s) you refactored to optimize this feature To optimize the "Run Continuous" feature, we optimized both the iterateCell and calculateNextIteration methods
- c. Insert a screenshot of VisualVM CPU profiling *after* optimizing Feature 1. Please include only the "Hot spots" window in the screenshot.



2. Optimized Feature 2

- a. Write the name of the feature optimized (the label on the button)
 The second feature we optimized was the "Write" feature
- b. Write the name(s) of the method(s) you refactored to optimize this feature To optimize the "Write" feature, we refactored the toString method
- c. Insert a screenshot of VisualVM CPU profiling *after* optimizing Feature 2. Please show only the profile for Feature 2 (do not invoke Feature 1 while profiling). Please include only the "Hot spots" window in the screenshot, as before.

| Cell.toString () | 0.0 ms | (-96) | 0.0 ms | (-%) | 25 |
|---|--------|-------|--------|------|----|
| 9 Cell.getAlive () | 0.0 ms | (-%) | 0.0 ms | (-%) | 25 |
| WriteButton\$WriteButtonListener.actionPerformed (java.awt.event.ActionEvent) | 0,0 ms | (-%) | 0.0 ms | (-%) | 1 |
| MainPanel.toString () | 0.0 ms | (-%) | 0.0 ms | (-%) | 1 |
| FileAccess. saveFile (String, String) | 0.0 ms | (-96) | 0.0 ms | (-%) | 1 |