

FootPrint

Motivation

Pains:

- Have difficulties in setting breakpoints
- Messy data structures

Watchpoints are annoying when dealing with many variables.

This is why we are creating FootPrint: An **interactive**, **light-weight**, and **simple** plugin for Java developers to view the history of their variables in IntelliJ.

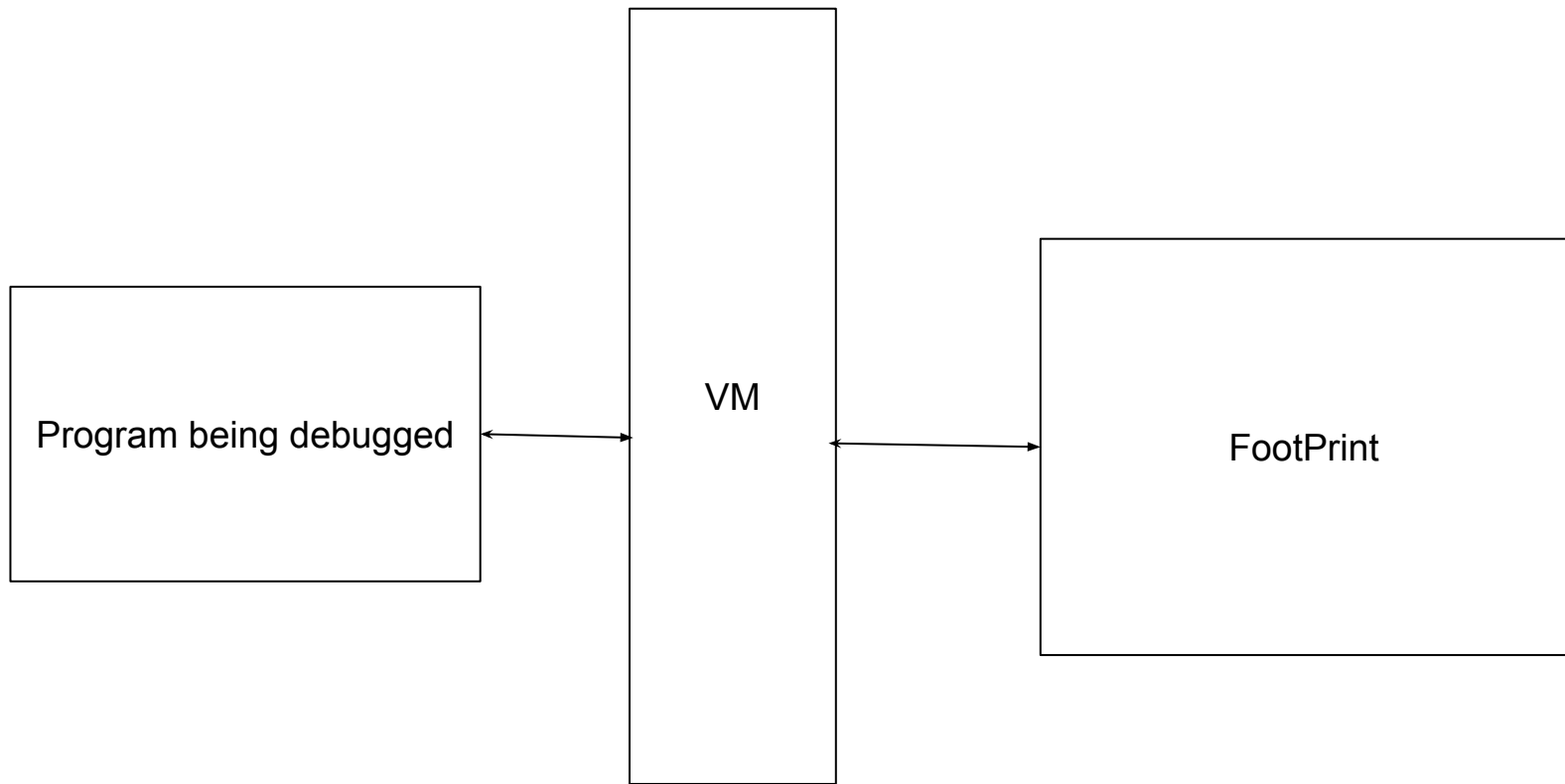
Related Work

Intellij Debugger Watches

Recording:

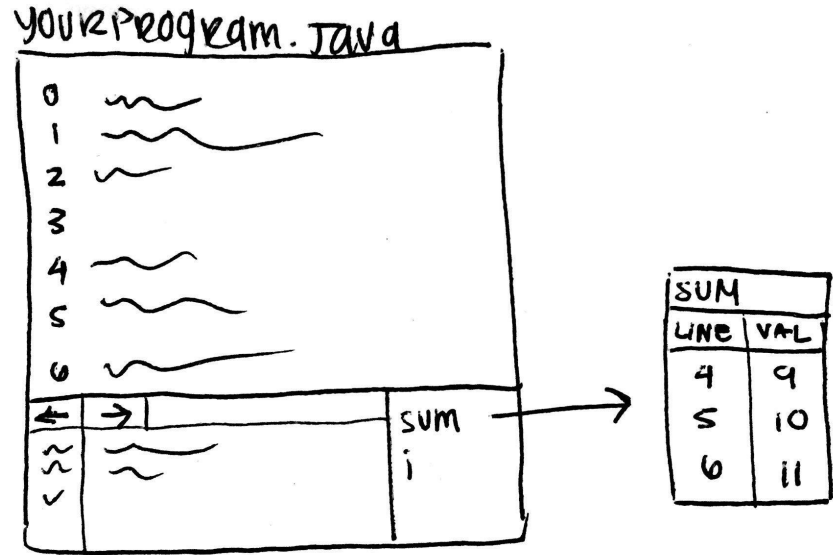
- Userspace - UndoDB
- Full System - QEMU
- VM-Specific - Chronon

Architecture



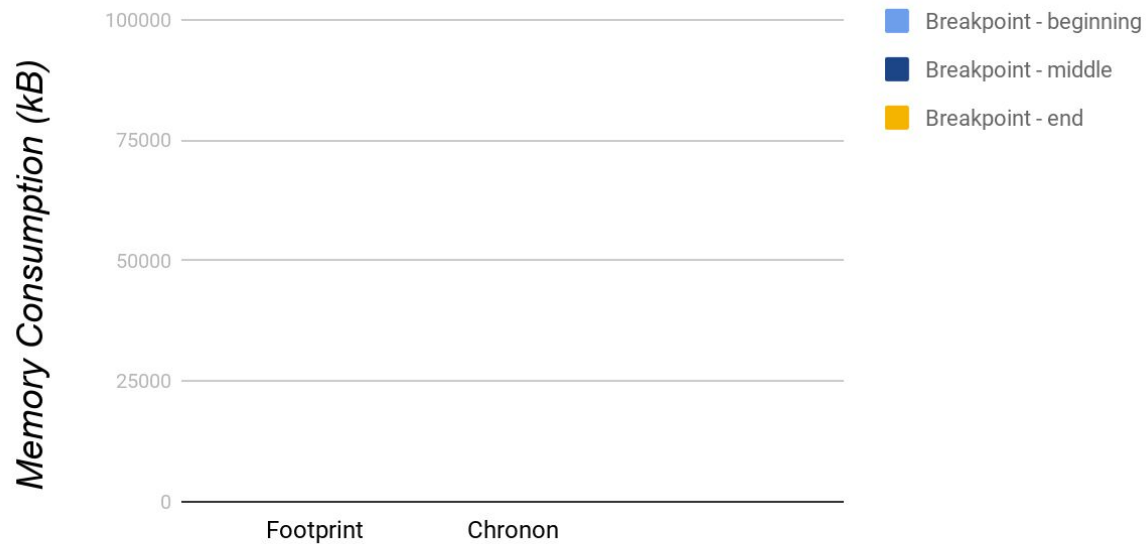
Approach

Users can set a breakpoint at the lines and FootPrint will record the changes happen to the variables



Research Questions

Memory Usage



Preliminary Results

- IntelliJ has no documentation
- Prototype