CS 565, Jens Palsberg Apr 10, 2002

Homework 7:
Java Security Checker

The code of the OVM framework is on the CS 565 webpage. The goal of the homework is to implement a security checker that infers the confined types of a closed-world Java program or library in the sense of Grothoff, Palsberg, and Vitek.

Your program gets a list of JAR files as arguments. Your program should output the names of the confined classes in the format returned by the `TypeName.toString()` method. You may assume that the bytecode is correct (verifies).

Together with the OVM framework, you are provided with a skeleton for your code, consisting of the three classes: `Driver`, `ConstraintGenerator`, and `ConfinedValueFactory` in the package `s3.tools.kacheck`. You may not modify files outside of that package (and if you think you have to, then first contact grothoff@cs.purdue.edu.)

Your code must compile using `ant` in the `OpenVM` directory. The `bin/` directory contains a shell script to invoke the tool.

You are encouraged to discuss definitions and share testcases. If you have problems with the OVM framework, please contact `ovm@cs.purdue.edu`.