AntTracks VM

The AntTracks VM can generate memory traces (i.e., a trace file, a symbols file, and a class-def file). These memory traces can later be analyzed for anomalies in the AntTracks Analyzer.

How to run the AntTracks VM:

/pathto/anttracks/bin/java <VM flags> -jar <target> Just like any other Java application start

One of these two VM flags must be added to generate traces: -XX:+TraceObjects Generate trace without pointer info -XX:+TraceObjectsPointers Generate trace with pointer info (= references between objects)

Further helpful flags:

-XX:TraceObjectsTraceFile="<pathtofile>" Where to store the trace file (default: "./trace") -XX:TraceObjectsSymbolsFile="<pathtofile>" Where to store the symbols file (default: "./symbols") -XX:TraceObjectsClassDefinitionsFile="<pathtofile>" Where to store the class def. file (default: "./classdefinitons")

Example:

~/workspace: /opt/anttracks/bin/java -XX:+TraceObjectsPointers -jar /home/myuser/Application.jar

This will create three files in the folder ~/workspace: "trace", "symbols", "class_def". These three files make up all the information collected during the run. Keep them together in a folder and open the "trace" file in the AntTracks analyzer to inspect the application.

AntTracks Analyzer

The AntTracks Analyzer can load AntTracks trace files to analyze them. Use the scripts runAntTracksTool.sh / runAntTracksTool.bat to start the Analyzer.



