Introduction to
Bytecode Instrumentation
with AGP 8

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Java Bytecode Instrumentation An Introduction Correlsense

ArunKumar ShanmugaVelayutham

Java Bytecode Instrumentation An Introduction Correlsense:

Exectracer ArunKumar ShanmugaVelayutham,2019 Abstract The amount of coding in Java Applications has increased over the years which necessitates the understanding of the behavior of Java Applications at runtime to evaluate performance Because of this growth in coding within Java Applications computer scientists have been increasingly interested in correlating execution data and performance Collection of execution data about a running Java Application is referred to as Tracing Tracing the Java code execution is most effectively done by source code instrumentation and bytecode instrumentation This project illustrates the use of ExecTracer as a bytecode instrumentation tool to trace Java code execution ExecTracer uses the ASM bytecode manipulation framework to manipulate bytecode and Java Agent is used to perform on the fly bytecode manipulation otherwise known as Dynamic Instrumentation Java Agent utilizes the Instrumentation Application Program Interface API that provides alteration for the existing bytecode loaded in the Java Virtual Machine JVM ExecTracer performs Instrumentation on the running Java Application and logs execution trace information Trace results from ExecTracer on several Java Applications shows excellent accuracy about instructions executed execution frequency and percentage coverage The execution trace information provided by ExecTracer can be used for code coverage analysis during testing phase or for monitoring the performance of the Java Application after deployment thereby aiding in selecting better code refactoring techniques and reduce code complexity **Information Flow Analysis and Enforcement in Java Bytecode** Deepak Chandra,2006 Information flow analysis policies are more flexible and powerful than currently prevalent discretionary access control DAC policies Current information flow systems are either purely dynamic or static Pure dynamic systems are overly conservative as they suffer from label creep due to lack of information about other paths On the other hand pure static systems are conservative about runtime values require source code and programmer annotations We propose hybrid information flow analysis which is more flexible and precise than either pure static or dynamic techniques individually It leverages the strengths of the two approaches while mitigating their weaknesses It statically gathers information and makes it available to the runtime so that the runtime mechanism can safely contain the label creep while precisely tacking information in current path of execution The proposed analysis works on Java bytecode does not require source code or programmer annotations

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