

Program

Static
analysis

Control
flow
graph

Instrumentation

Ball-Larus path
numbering and
tracing framework

Instrumented
program
(probes added)

Execution

emit r

Stream of Ball-Larus path IDs r

$\text{count}[r]++$

BL path
frequencies

BL path profiler

Forest
construction

k-iteration
path forest

k-iter. path profiler