

Executions Comparison with Trace Compass

Fateme Faraji Daneshgar Research Associate

Polytechnique Montréal

DORSAL Laboratory

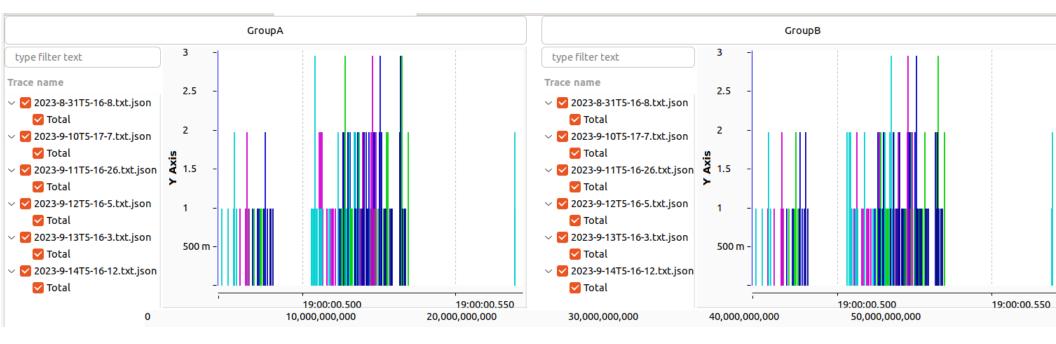
Agenda

- Updates on Execution Comparison
 - Synchronous Execution comparison
 - Differential flame graph
 - Adding metrics for comparison
 - ➤ Asynchronous Execution comparison
 - Adding Callstack analysis for OpenTracing Traces
 - Adding Flame Graph Analysis for OpenTracing traces

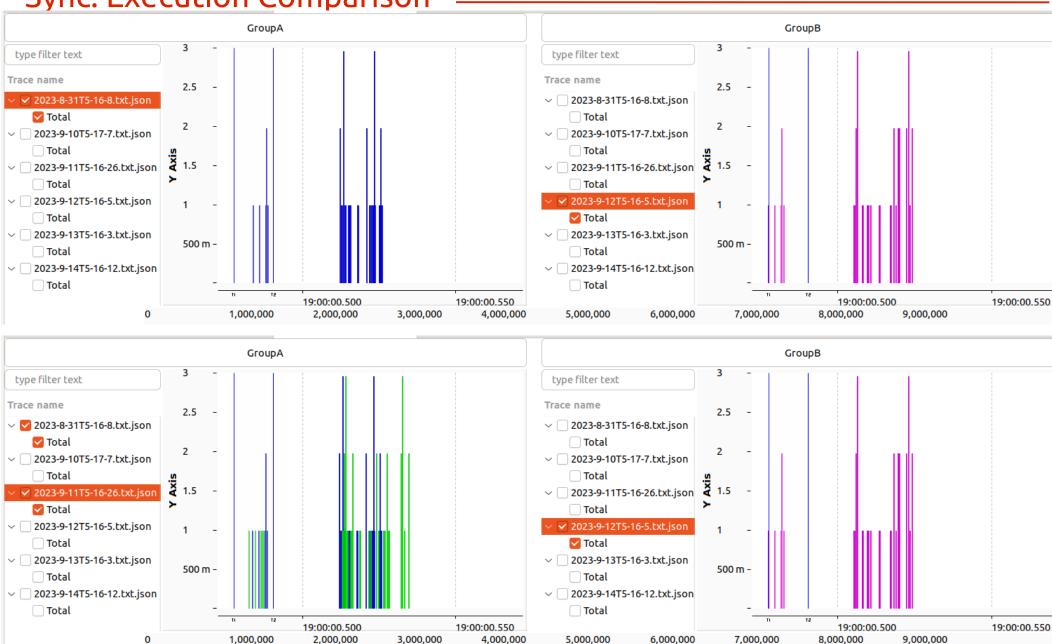


Sync. Execution Comparison

Filtering based on the time

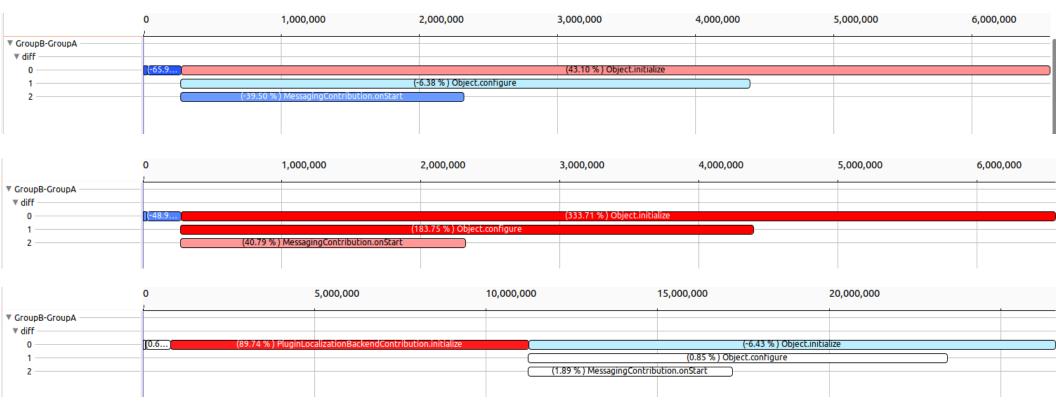


Title – <NAME> 3/11 – dorsal.polymtl.ca



- Differential Flame Graph
 - Red color palette for longer executions
 - Blue color palette for shorter executions
 - White for almost similar

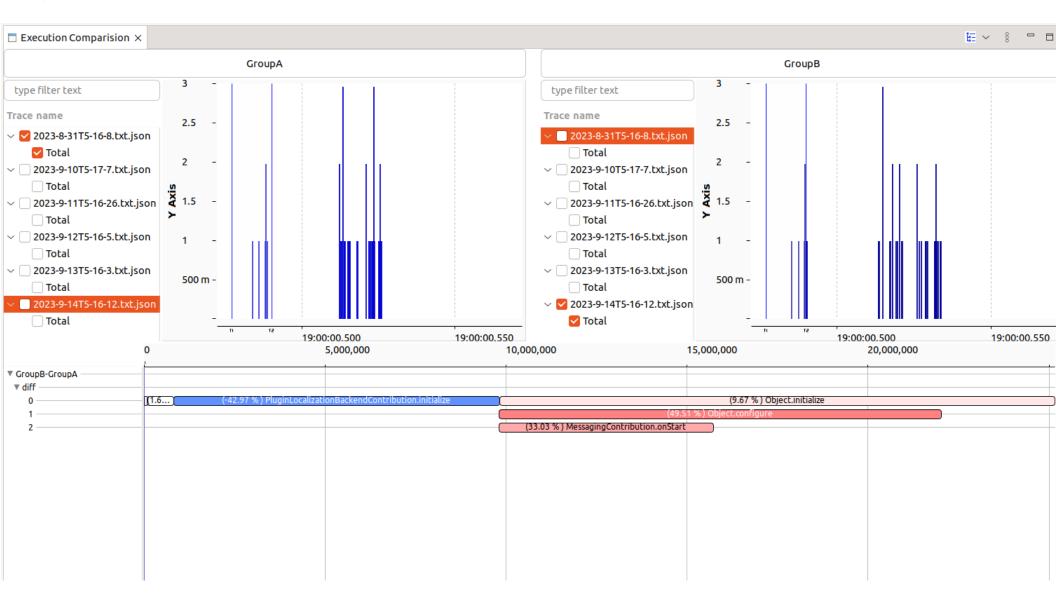




- Metrics
 - Flame graph
 - Aggregated data representation
 - Duration
- New : Flame Graph based on Self Time

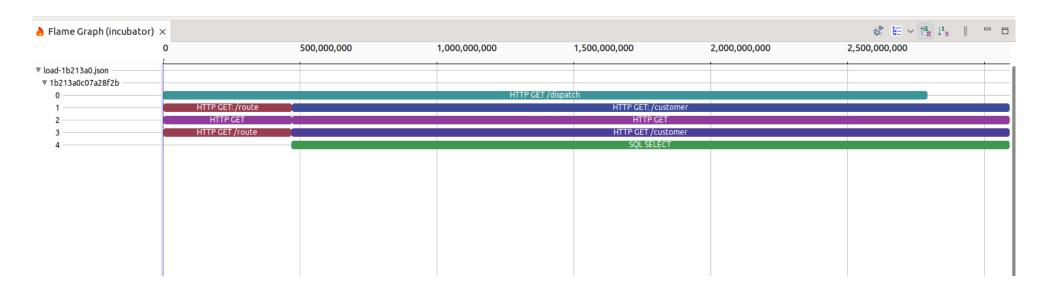


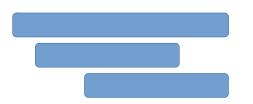




OpenTracing Flame Graph

- Async execution comparison
 - concurrent nested subrequests
 - Callstack analysis
 - Flame graph analysis
 - On async traces
- Flame graph analysis is added for opentracing trace





Future Work

Async execution comparison

Thank you for your attention