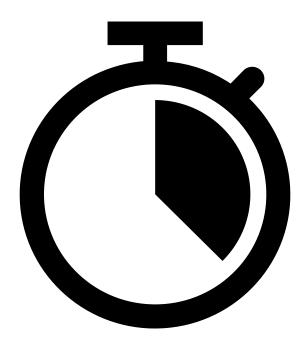


Trace Compass Update

With MVP Demo

Agenda





Welcome to the new members

About us

About TC

New Features

Migration progress

Demo

Expected duration: 20 min





- New Project coming soon™
- Brock University
- Many new Masters students
- Many new PhD students
- New research associates
- New Professor!

About Us/Trace Compass

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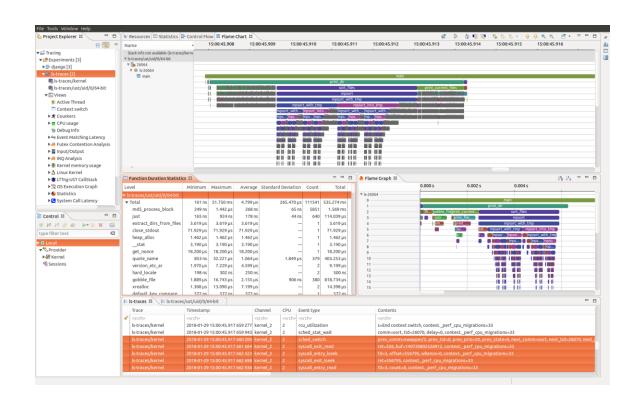
- Eclipse Trace Compass is an open-source application to solve performance and reliability issues by reading and analyzing traces and logs of a system. Its goal is to provide views, graphs, metrics, and more to help extract useful information from traces, in a way that is more user-friendly and informative than huge text dumps.
- Team of 3 developpers
- Supporting teams internal to Ericsson (they are here, Howdy!)
- Supporting open-source communities
 - Trace Compass (git)
 - Incubator (git)
 - TSP (git)
 - TSP Clients (typescript, python (soon))
 - Trace Extension (git)
 - Timeline chart (git)



Trace Compass

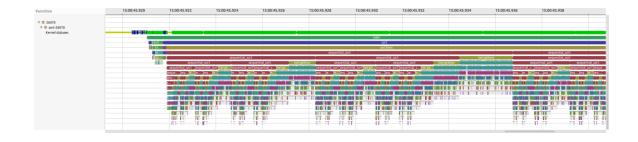


- Main improvement: Speed
- Cross view interactions improvements (e.g. focus on a thread)
- Preserving selection on trees when context changes
- Hide less relevant information
- Time Graph (Gantt chart) is much faster to draw (average of 2x acceleration)
- Density chart improvements
- Security fixes
- Migrated to EPLv2
- Cursors are identical for all views showing the potential action
- Released 6.0, 6.1 and 6.2



Trace Compass





- Descriptive statistics API
 - Several Internal implementations
 - Not just on categorical data, on continuous data too!
- Improved documentation
- Decoupled UI From XY Plots
- Improved Pie Charts
- Provided XY chart
- Better feature support for incubator (Coming up later)
- Performance improvments
- Markers on Control Flow/Resources view when an experiment has a kernel trace and another with TID info

Trace Compass Incubator Updates







Trace Server Development (Ongoing)

Java 11 Support

Trace Server Protocol

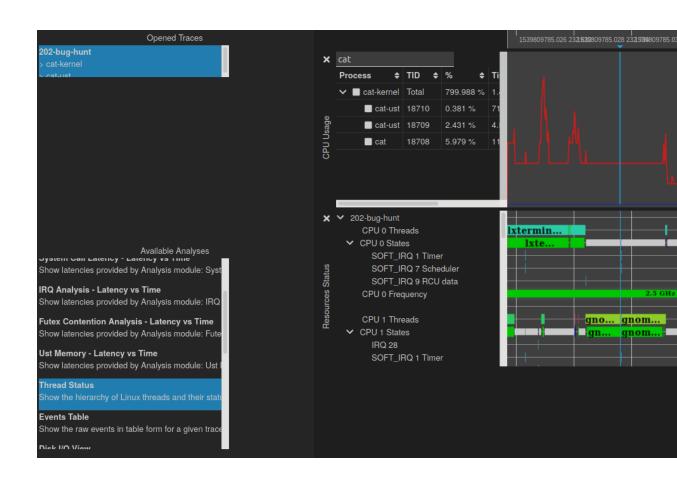


Efficient way to communicate between server and front-end	
Only sends data needed	
DECTA-J	
RESTful	
In progress. Trying to keep it lean	
• Tree	
Discrete values	
• Continuous values	



3

- Front end, reads TSP, no notions of trace analysis
- VSCode Migration (POC)
- What is lost by going VSCode right now?
 NOTHING
- To be deployed in Openvsx. Thank you Theia community (including Redhat) (https://open-vsx.org/)





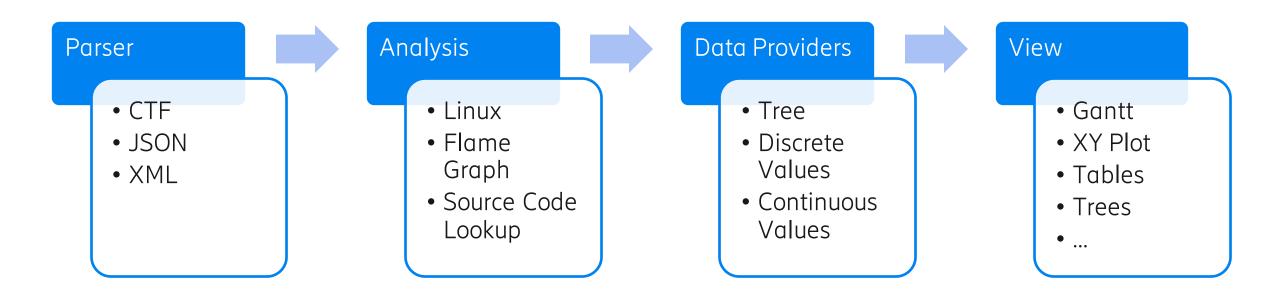




- Uses Pixi.js (Hardware accelerated)
- Structure similar to scene graph
- Anyone with video game experience, come and have fun.

How it all plays together

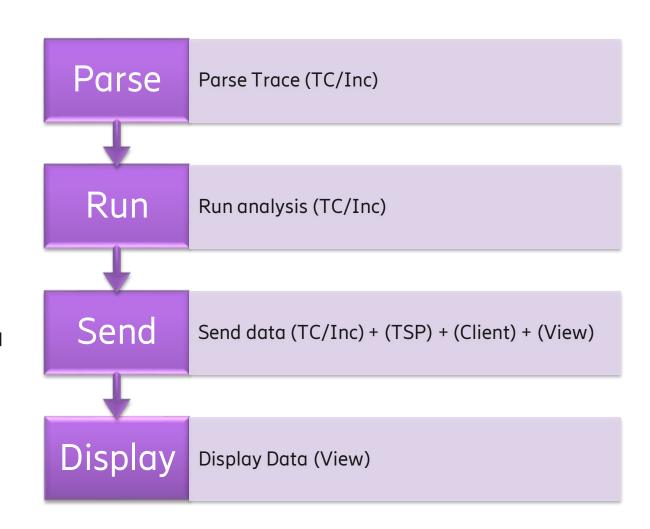




Migration process and how it affects YOU



- If you want a new way to represent data, it can come in 3 ways (see TSP):
 - Tree
 - Discrete
 - Continuous
- If you want to supply data, use data providers and it should work
- If you want to make a new analysis (data) and a new view, you need to do both
- Most of the bulk path is done. Configurations need to be handled.







- New Eclipse Project: Trace Compass Cloud
 - Working in Github (github way of working)
 - Many things TBD, including timeline:(
 - We will keep you in the loop



<u>Demo</u>





