TRACE COMPASS UPDATE

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AGENDA

1. Introduction
2. New release
3. Status
4. Demo
5. Evolution of the tool
ABOUT PROJECT

› Project under Eclipse Foundation
› Open Source
› Active committers and contributors from 3 organizations
   › Ericsson, Polytechnique Montreal, EfficiOS
› Contributions from various companies and organisation
   › Polytechnique, Kalray, Windriver, CEA
› Strong relationship with the LTTng project (EfficiOS)
› Many interactions with the CDT Eclipse project
› Partnership with Trace Research Project at Polytechnique
TRACE COMPASS

› Framework to build trace visualization and analysis tools
› Enables trace analysis/correlation from different sources
› Extensible for any trace/log format and analyses
› Reusable views and widgets
› Scalability allows to handle traces exceeding memory
› Support for standalone applications or set of plug-ins
› Support of various trace formats, e.g. CTF, PCAP, text…
› LTTng integration
› Trouble-shooting tool
STATUS

› Marc-Andre focus on new project: Clang

› LOIC and SIMON joined the team

› Trace Compass incubator

› TRACE COMPASS 2.3 IS OUT !!!
NEW IN 2.3

› Automatic perspective switcher
NEW IN 2.3

- Futex contention latency analysis
NEW IN 2.3

› Support of trace aspects in XML analysis

› Bug fixes
WHAT'S NEW

› Make the XML analysis schema extendable

› Enable/disable trace types to customize Trace Compass

› Aggregating threads in the Flame Graph
WHAT'S NEW

› Show a trace's time range in the project explorer
› Import traces from HTTP/HTTPS
› Add configurable periodic markers
ONGOING

› Add multi-analyses views

› Switch the state system and segment store to datastore

› Generic charts feature for creating charts from tables
Show trace analyses under experiment

Timegraph view (CSS-like) styles
EVOLUTION OF THE TOOL

- Lot of new technologies for data visualization
- Want to explore new technologies for UI
- Keep core functionalities and take advantage of UI libraries
Exploration of web technologies
  - Academic research
  - Intern this summer at Ericsson
  - Investigation at Ericsson
EVOLUTION OF THE TOOL

› Advantages :
  › Richer set of visualization libraries and tools
  › Easing the maintenance burden
  › Things are moving fast
  › Huge communities
REFERENCE

Project pages (downloads, user guides, contacts)
- http://www.eclipse.org/tracecompass
- http://www.tracecompass.org
- http://istmffastyet.dorsal.polymtl.ca/

LTTng project
- http://lttng.org/

Working groups
- https://www.polarsys.org/
- http://diamon.org/
CONTACT

 › Online
   - Mailing list: tracecompass-dev@eclipse.org
   - IRC: oftc.net #tracecompass

 › Offline:
   - We are still human. We talk!
Q&A