OpenSIPS Summit - Keynotes

Bogdan-Andrei Iancu
Founder OpenSIPS Project
OpenSIPS Solutions

OpenSIPS – the past

- **1.4 version**

- **1.11 version**

OpenSIPS – the present

- **2.1 version**

2.1 major release

- 2.1.1 stable release on 19th of August

- 1.11 is still maintained (as LTS)

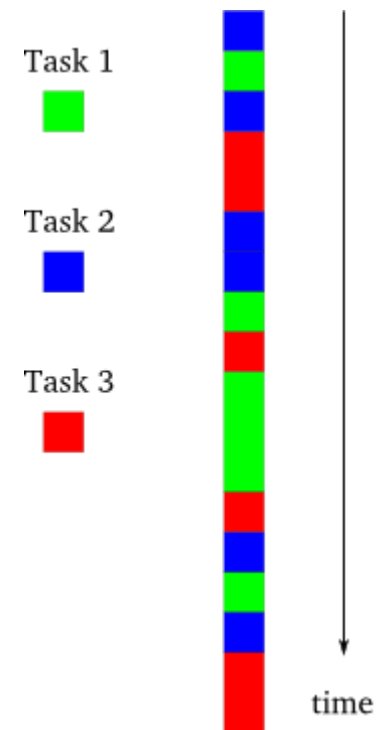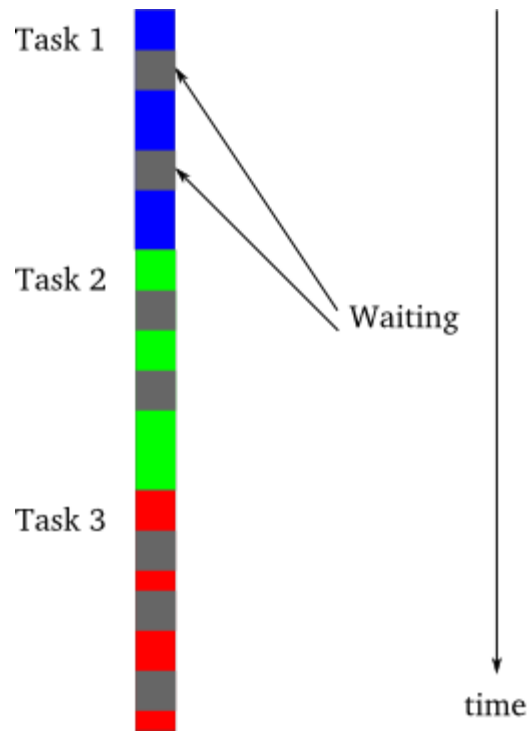- 1.8 and 1.10 are no longer maintained

A big leap

- The first OpenSIPS benefiting from the OpenSIPS Experimental results

- A new internal architecture (async reactor based)

- New concepts (processing context, execution resume)

Sync   versus   Async

Main features

- Support for async operations from script.

- Rework of transport protocols layer

- WebSockets (WS) support added (signaling part)

- Data partitioning (DRouting, DialPlan, Dispatcher)

- End-User Fraud detection module

- SIP Compression

- Emergency calling module

OpenSIPS – the future

Main features

- New Binary Interface (proto_bin module).

- Event Virtual module

- Async support in LDAP & RADIUS module

- Realtime monitoring of online users

- Async Homer support for HEP 3.0

- Caching for generic DB tables (permanent, ondemand)

- Advanced debugging for memory and locking

- WSS support

Clustering Support

• Native support for building OpenSIPS clusters without the need of a shared database

• All the sharing in the cluster is directly between the OpenSIPS instances, vi BIN interface

• Provides common support for other modules like ratelimits, dialog and usrloc modules.

Quality based routing

• New module on top of routing engines that uses list of gateways/destinations (like Dynamic Routing, Dispatcher)

• Collect on the fly information about the call's quality (ASR, PDD, ACD, etc)

• Reorder in realtime the used gateways to remove poor quality gateways or to prioritize good quality gateways

• Complex but flexible system of thresholds (multiple levels), alerts and actions.

- **3.1 version**

More on architecture

- Final step to full async support – auto balancing between all network readers

- Remove lumps for changes over the SIP messages – all changes are applied in realtime → what you see is what it is (as SIP message)

Scripting rework

- Rework the format of the OpenSIPS config file to simplify and improve user experience

- Implement runtime reload for routing logic – be able to change the routing script without the need to restart and without loosing data or SIP packets

Routing logic

• Allow external applications to take control over OpenSIPS and provide routing logic – 3rd party routing apps.

• Routing may be provided by the script or by such an external application

• Multiple routing application may connect to a single OpenSIPS instance – to handle different types of traffic or different scenarios.

Thank you for your attention
You can find out more at www.opensips.org
bogdan@opensips.org
www.opensips-solutions.com

Questions are welcome