

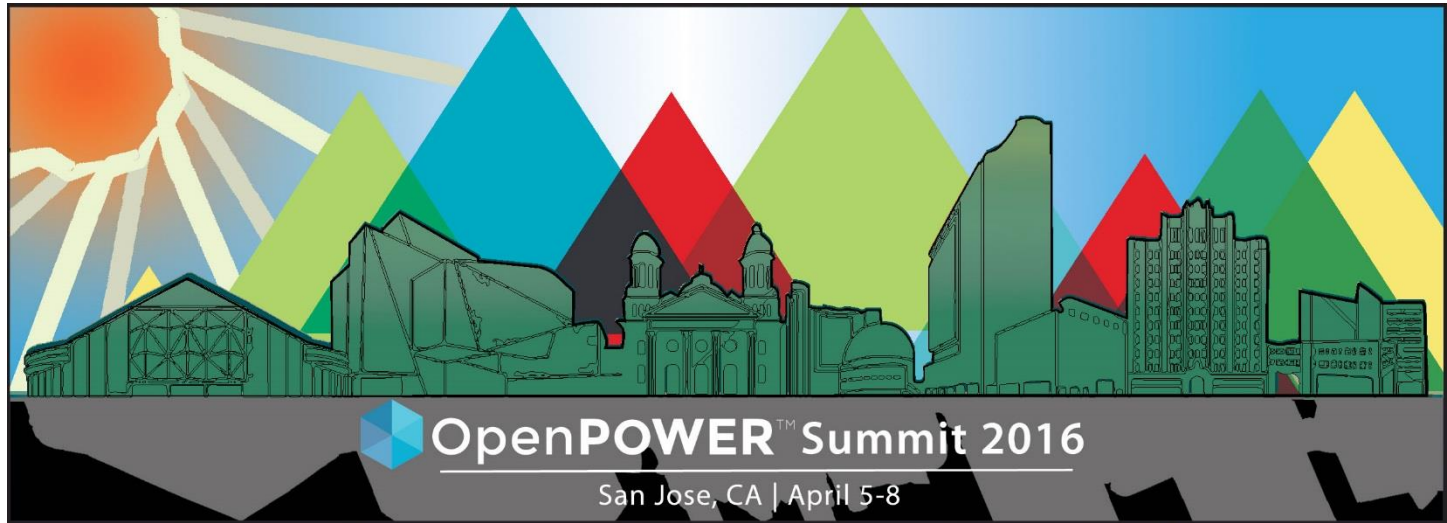


HTX & eCMD for System Development

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Revolutionizing the Datacenter



Join the Conversation #OpenPOWERSummit

Agenda

- HTX Overview
- eCMD Overview
- Future of HTX & eCMD

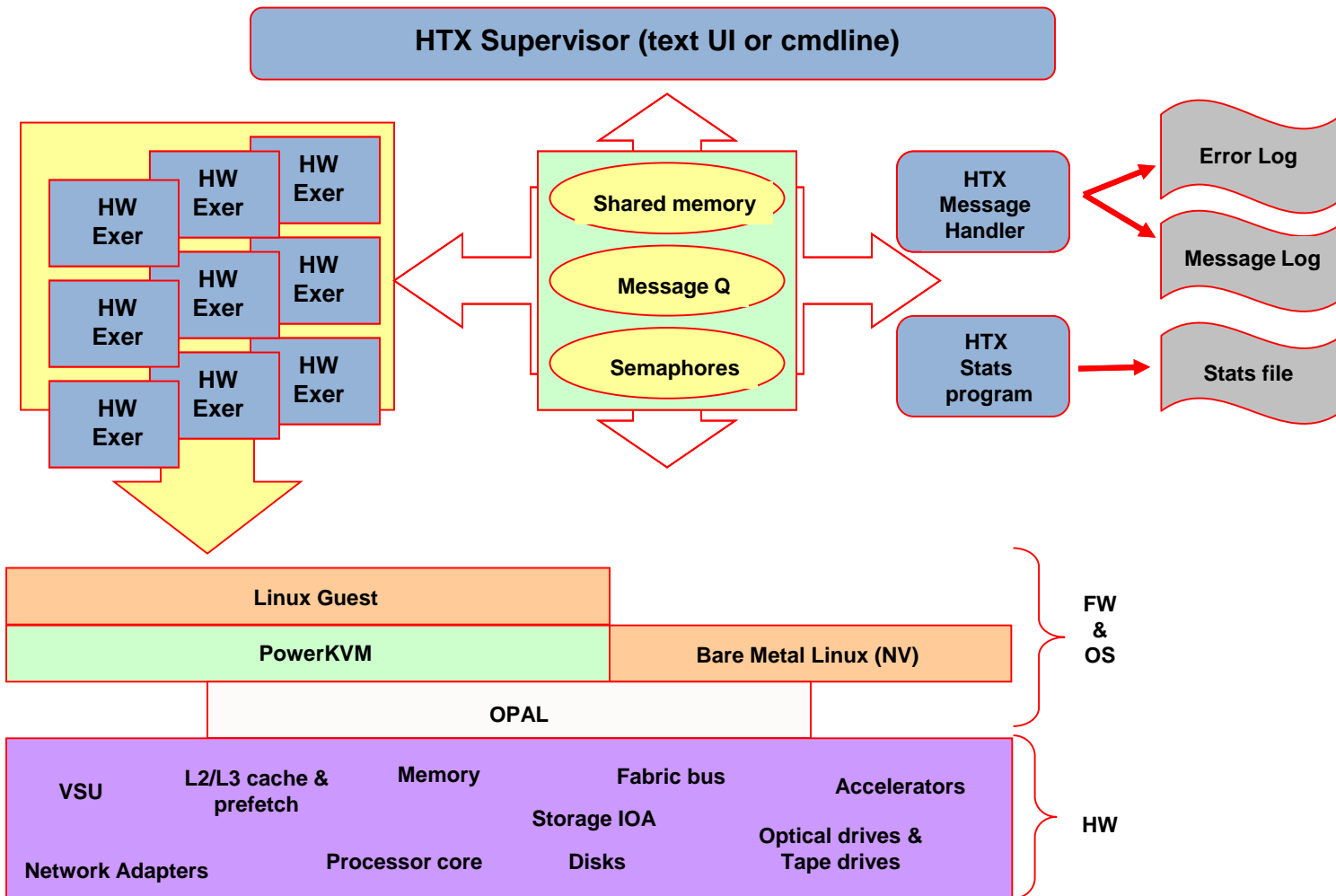
HTX Overview

Hardware Test eXecutive (HTX) is a system level test suite for validation of POWER server hardware

- Currently available as a binary to OpenPOWER partners
- User level exercisers to test processor, memory and IO subsystems
- Supported on Linux running as NV/host/guest
 - Tested on Redhat, SuSE, Ubuntu
- Exerciser behavior is configurable through text rule file
- All or selected components can be tested concurrently
- Provides both interactive and command line interface for control
- A core component of IBM bringup, test and manufacturing

Has been in use inside IBM for more than 20 years

HTX Diagram



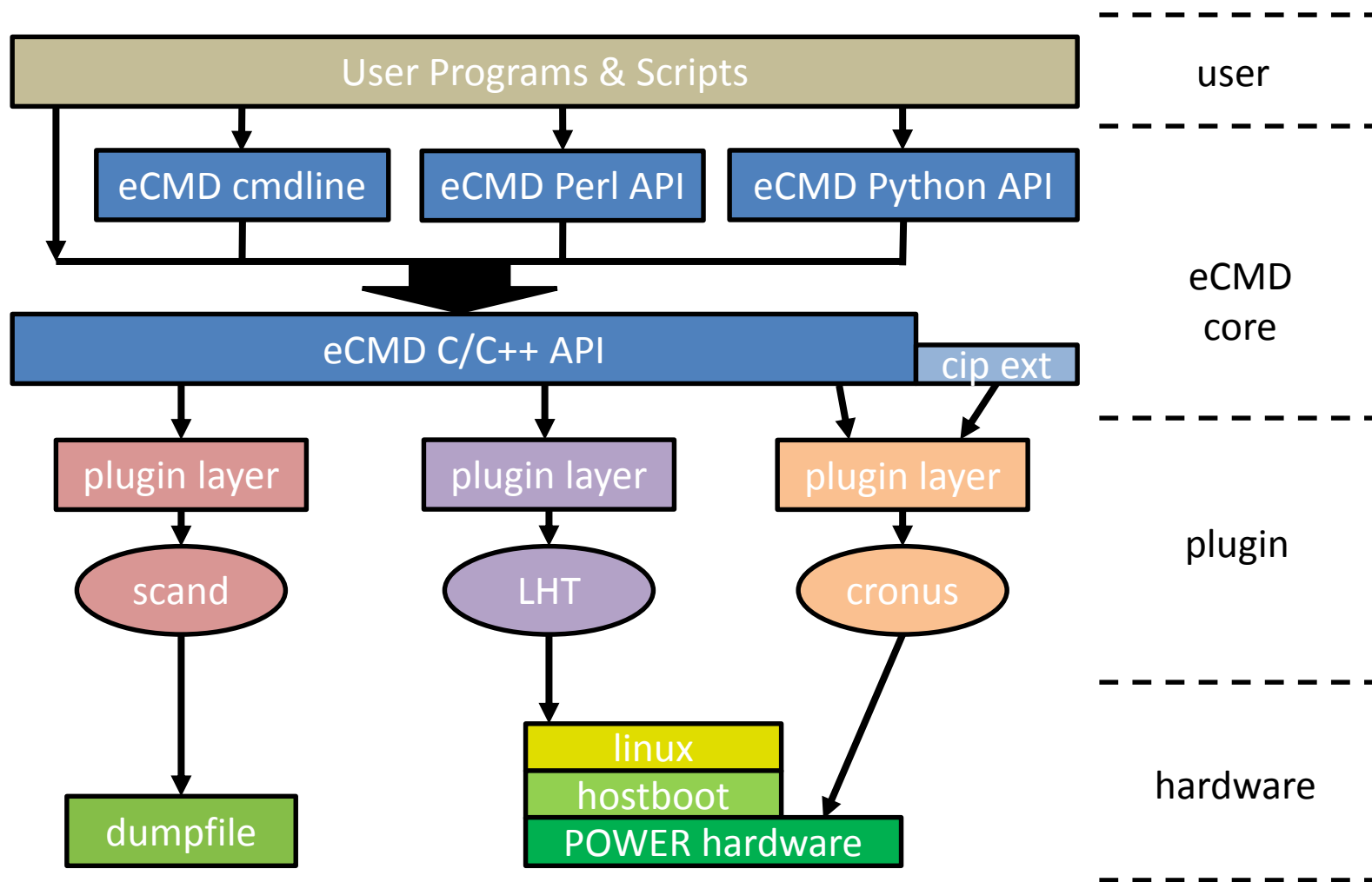
eCMD Overview

eCMD is IBM Systems hardware access API

- Core piece of the OpenPOWER Lab Toolkit
- Provides consistent user experience regardless of system
- Central API in C/C++, but also supports
 - cmdline | Perl API | Python API
- >200 hardware access APIs, >125 data manipulation APIs
- Plugin system for implementation of the API
 - User can switch their plugin and commands function the same
- Major/minor API revision system
 - Guarantees user program compatibility across minor revisions
 - Major version differences detected and reported at runtime

Has been in use since 2003, starting on POWER6

eCMD Diagram



Announcement

IBM is contributing HTX & eCMD to the OpenPOWER Foundation

- The next step in our commitment to open systems
- Over 35 combined years of IBM development
- Open Source - Apache License 2.0

Live now on github.com

- Available in the OpenPOWER space
- Details for each follow

We want to collaborate with you!

Flexible Collaboration

Enabling partners in the way that works best for them

Binary Distribution - direct from IBM

- Latest mainline release of tools
 - HTX
 - OpenPOWER Lab Toolkit

Open Source – build from github

- Providing partners an easy way to add content
 - Create your own HTX exerciser
 - Propose a new eCMD API

HTX open source details

Where

- <https://github.com/open-power/HTX>
- `git clone git@github.com:open-power/HTX.git`

Lead Maintainer

- Mehulkumar Patel – mehul.patel@in.ibm.com

Documentation

- <https://github.com/open-power/HTX/tree/master/Documentation>

eCMD open source details

Where

- <https://github.com/open-power/eCMD>
- `git clone git@github.com:open-power/ecmd.git`

Lead Maintainer

- Matt Light – mklight@us.ibm.com

Documentation

- <https://github.com/open-power/eCMD/tree/master-next/docs>

Thanks!

We look forward to working together

- Contribute exercisers for your hardware
- Create around the open hardware API

Let's innovate on system development!

Questions?

- Find us on the exhibition floor
- Get in touch after the summit
 - Jason Albert – albertj@us.ibm.com
 - Mehul Patel – mehul.patel@in.ibm.com