



Fuego Test System

Roadmap and Prioritie

Discussion

June 2018

Tim Bird

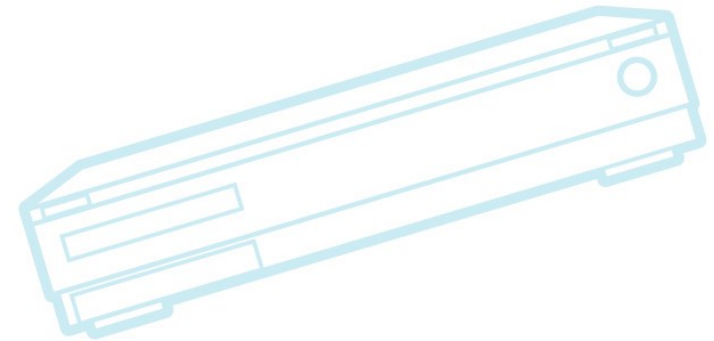
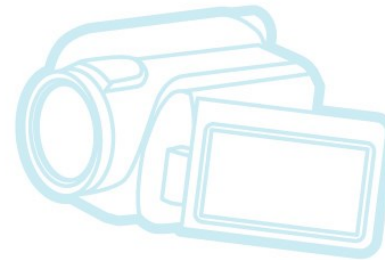
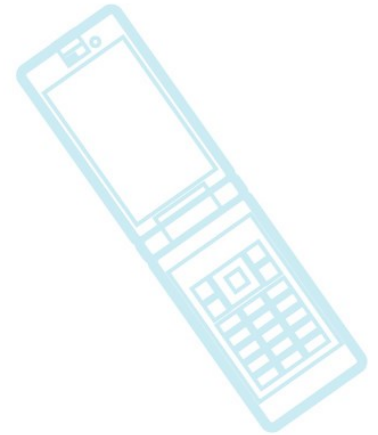
Fuego Maintainer

Sony Electronics



Outline

- Old roadmap
- What to work on next?
- Projects in progress
 - Tim's working on...
 - Daniel's working on...
 - Liu's working on...
 - Wang's working on...
- Discussion





Roadmap

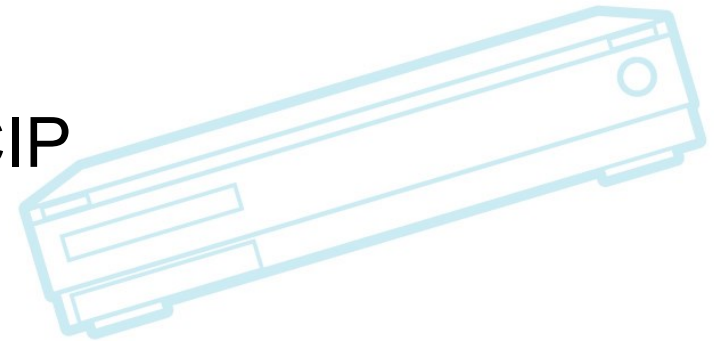
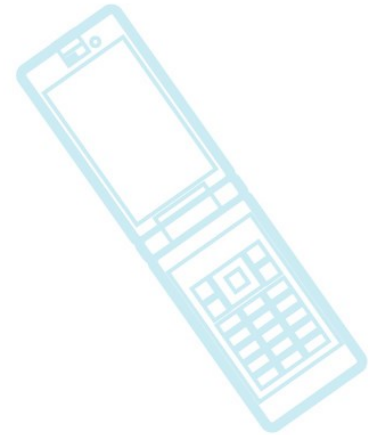


Recent past → Near Future → Long Term



Roadmap

- Recent past:
 - Features for LTS, CIP
 - Hardware control
- Near future:
 - Documentation
 - Conversion to reStructuredText
 - Tutorials
 - Pre-built docker image
 - More tests for AGL, LTSI, CIP
 - Sharing of customizations





Roadmap (cont.)

- Near future (cont.):
 - System provisioning support
 - Install of software under test
 - Has been out-of-scope for Fuego
 - e.g. AGL image deploy, LTSI kernel update, etc.
 - Full automation requires board management API
- Long-term
 - Test store
 - Distributed test network
 - Hardware testing



What to work on next?

- Things that slipped from the 1.3 release:
 - Documentation conversion
 - LTS Provisioning support
 - Pre-built docker
- Short-term items
 - Test program build cache
 - FUEGO_NO_BOARD_CONNECT ??
 - More tests
- Long-term items
 - Test server
 - ftc put-board



Projects in progress

- Just a note:
 - This is open source...
THERE IS NO MASTER PLAN
 - Projects get done when individual developers work on them and contribute patches
- I won't tell you what to work on
 - Your priorities are your own
- But of course we can have a shared vision...
- If you need ideas, ask me.



Tim's projects

- Easy customization
 - Expected value customization (research)
 - save baseline, compare with baseline
 - ftc set-criteria (research)
- Dynamic documentation (almost done)
 - Ability to integrate dynamic report into testcase documentation
- Test program binary cache (new)
 - Build deployable tarballs for test program binaries
 - in `/fuego-rw/cache/<platform>-<testname>-assets.tgz`
 - May help with LAVA integration



Easy test customization

- Customizable system state check
 - Ability to save a snapshot of system status or behavior
 - Example:
 - “I want the system to still have X”
 - “I want the system to continue to be able to do Y”
- Make it very easy to capture state or behavior
- Reduce maintenance of tests



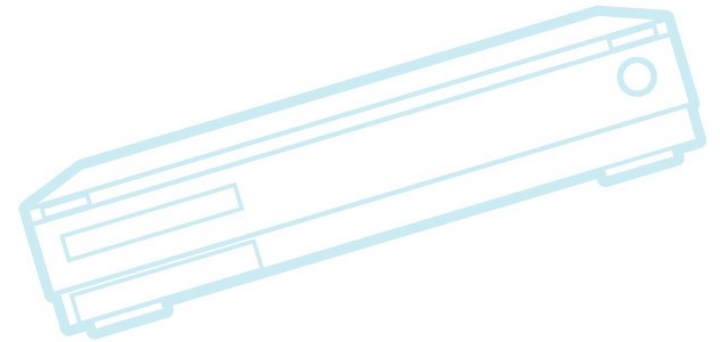
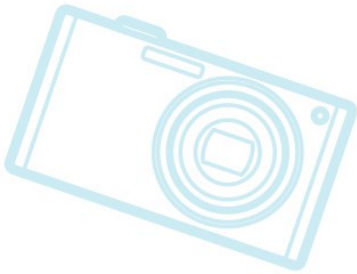
Features in progress (slightly)

- Fuego centralized test server
 - Share ad-hoc test (test package)
 - Request test on someone else's board
 - Has been on backburner
- Share customizations
- Share results



Daniel's projects

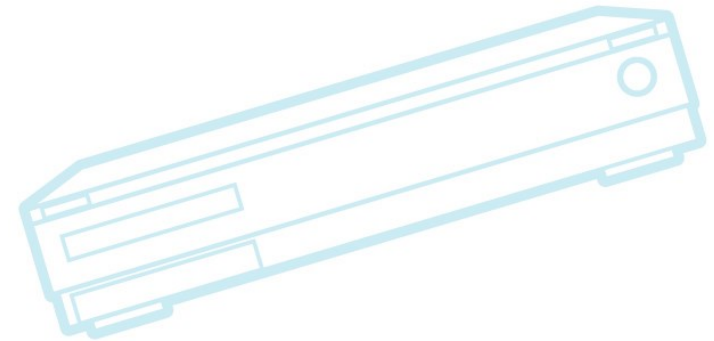
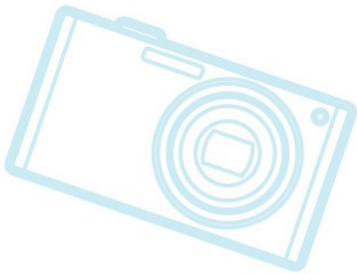
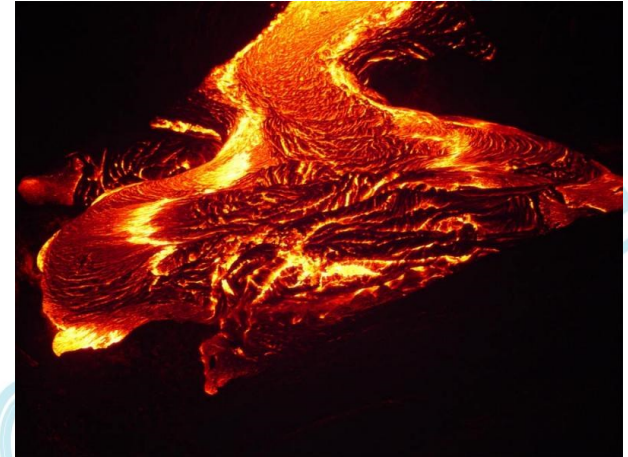
- dynamic variables
- using ftc from jenkins
- publishing run.json and artifacts to Squad
- argparse
- trinity (fuzzing test)
- useful scripts





Liu's projects

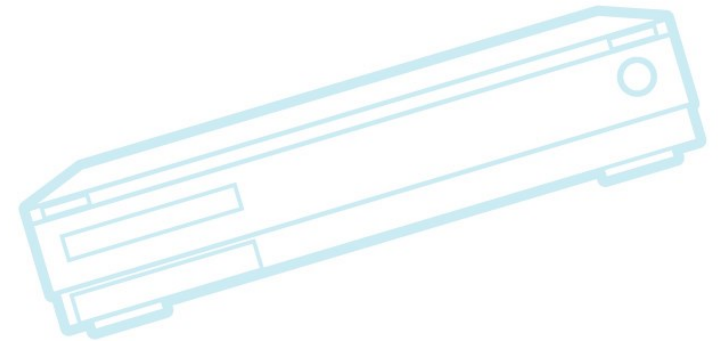
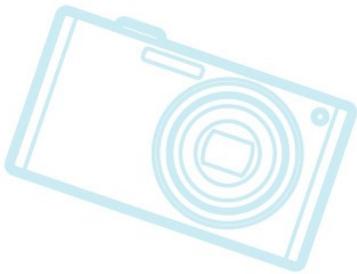
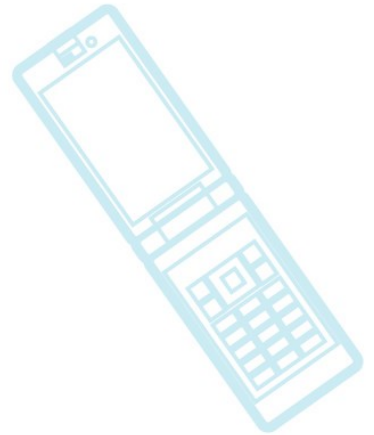
- Fuego/LAVA integration





Wang's project

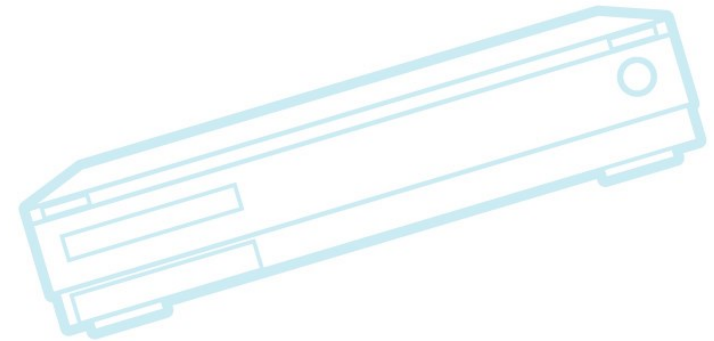
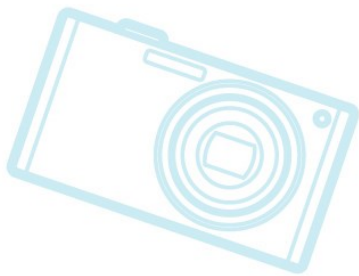
- busybox test suite (from scratch)





Discussion

- (use the wiki page to record information)
- http://fuegotest.org/Fuego_Jamboree_2





Fuego



Other Priorities

- LAVA integration
 - We have everything needed for transport integration
 - Need test-level integration
 - Separate build phase (done)
 - Deploy to LAVA server
 - Create LAVA test that does:
 - Execute test on board
 - Collect results

