

LCA14-208: Intro to CI @ Linaro 3 of 3

Tue-4-Mar, 12:10pm, F.Boudra, T.Baker, M.Wasilewski



Intro to CI @ Linaro

Hour 1

- QA Services will introduce you to existing Linaro Test Plans
- Builds and Baselines will provide an overview to our build system, how to create, manage and close out a build and how to submit the build artifacts to LAVA for a test on lab hardware.

Hour 2

- LAVA will describe the process of adding new test capabilities (New Platforms and/or New external test equipment)
- QA Services will overview how they use LAVA for tests

Hour 3

- LAVA will show you new features to improve test result filtering and Visualization in LAVA
- QA Services will show you how Linaro rolls all the Build results, Test Results (Manual / LAVA) into our test reports

Getting the most out of LAVA Results

- LAVA is an automation framework
 - i.e. scheduling jobs and interfacing with hardware
 - it provides a basic level of visualization
- LAVA results can be easily published to external systems for performing advanced analysis
 - 1. QA Test Reports
 - 2. Publishing to downstream data stores
 - 3. Post processing by advanced statistical tools, R, etc...

Recording Data During LAVA jobs

- LAVA Test Shell Results
 - Pass / Fail / Measurement
 - Helper functions
 - Regular Expression Parsing
 - lava-test-attach
 - limits
- LAVA Log files
- LAVA Results API
 - job_submit
 - job_status
 - job_get
- General Publishing capabilities
 - No rules
 - Simply a step at the completion of your regular tests to copy files to other systems
 - Scripts that pass files - HTTP, Custom Servers, SCP, NFS, etc...

Demo

- Submit Job
- Live Results
- Poll the results
- Filter LAVA Jobs
- Visualize LAVA results
 - Add comments on an observation

QA Test Reports

- Automated results
 - Calxeda highbank
 - Calxeda midway
 - Arndale-Octa (coming soon)
 - FVP models (including Foundation model)
- Manual results
 - Ubuntu
 - Android
- Publishing test results
 - mailing lists
 - release page
- Reporting defects
 - Launchpad
 - mailing lists
 - Jira

New QA reporting tools (coming soon)

- Combining manual and automated test results
- Detecting scheduled but not executed test suites from LAVA
- Tagging weekly/monthly test results (as opposed to daily tests)
- Better presentation than Google spreadsheets



More about Linaro Connect: <http://connect.linaro.org>

More about Linaro: <http://www.linaro.org/about/>

More about Linaro engineering: <http://www.linaro.org/engineering/>

Linaro members: www.linaro.org/members