



# Upstream Kernel Testing

The kernelci.org project

**Presented by**

Kevin Hilman  
Tyler Baker

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**Event**

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[kernel-build-reports@lists.linaro.org](mailto:kernel-build-reports@lists.linaro.org)

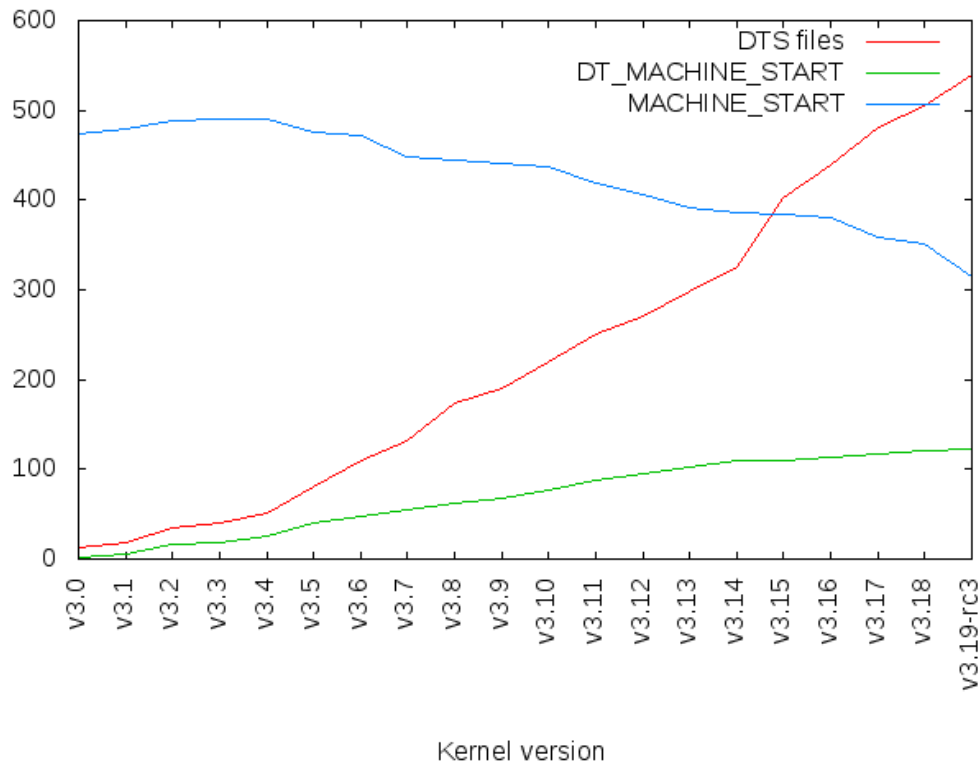
<http://kernelci.org>

#kernelci

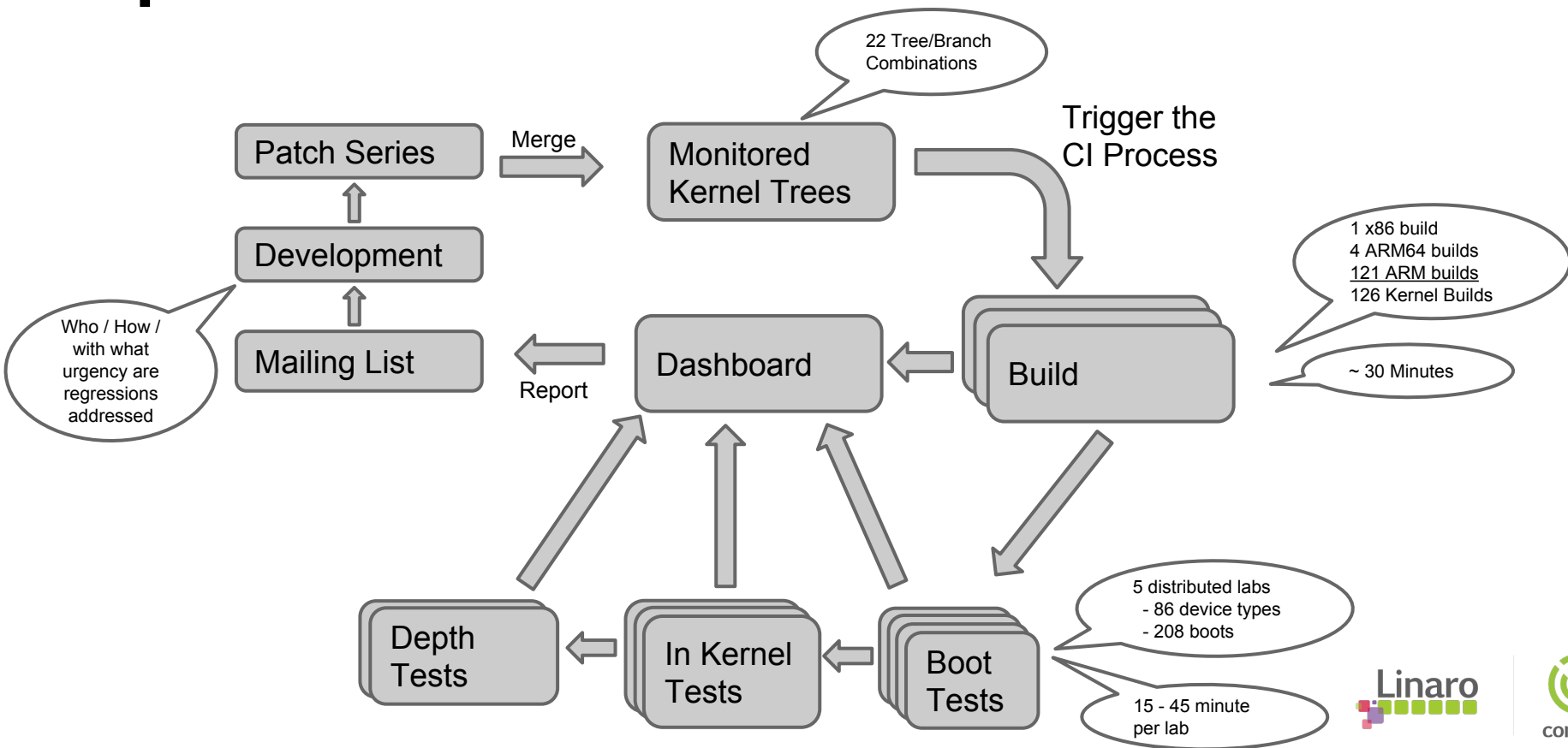
<https://plus.google.com/u/0/+kernelbot>

# Background

- Lots of ARM platforms, boards
- Easy to break other platforms
- Not much upstream testing
- Needed early detection and warning of problems
- Target audience: ARM platform maintainers



# Upstream Kernel CI



# Dashboard - kernelci.org

Landing page describes the current state of the upstream trees, focused on failures

- What builds are failing?
- What boots are failing?
- What are trending searches?

# Dashboard - [kernelci.org/job/](https://kernelci.org/job/)

What is a job?

- A linked collection of build/boot/test data for a given tree/branch
- At a glance it will display
  - Tree/Branch
  - Build Status (Passed/Failed Defconfigs)
  - Boot Status (Passed/Failed Boots/Tests)
- Job -> Build -> Boots/Tests

# Dashboard - [kernelci.org/build/](http://kernelci.org/build/)

Displays build status

- Tree/Branch
- Kernel
- Board
- Defconfig
- Arch
- Queries supported
  - <http://kernelci.org/build/?arm64>

# Dashboard - kernelci.org/boot/

Displays boot status

- Tree/Branch
- Kernel
- Defconfig
- Arch
- Queries supported
  - <http://kernelci.org/boot/?sunxi>

# Dashboard - Bisection

## Builds and Boots

- Displays bisection table
- Bad Commit SHA1
- Good Commit SHA1
- Link to bisection script



# Email Reporting -

`kernel-build-reports@lists.linaro.org`

## Build Reports

- Sent to the mailing list when build (s) are finished

## Boot Reports

- Sent to the mailing list one hour after build completes