

Presented by

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Date

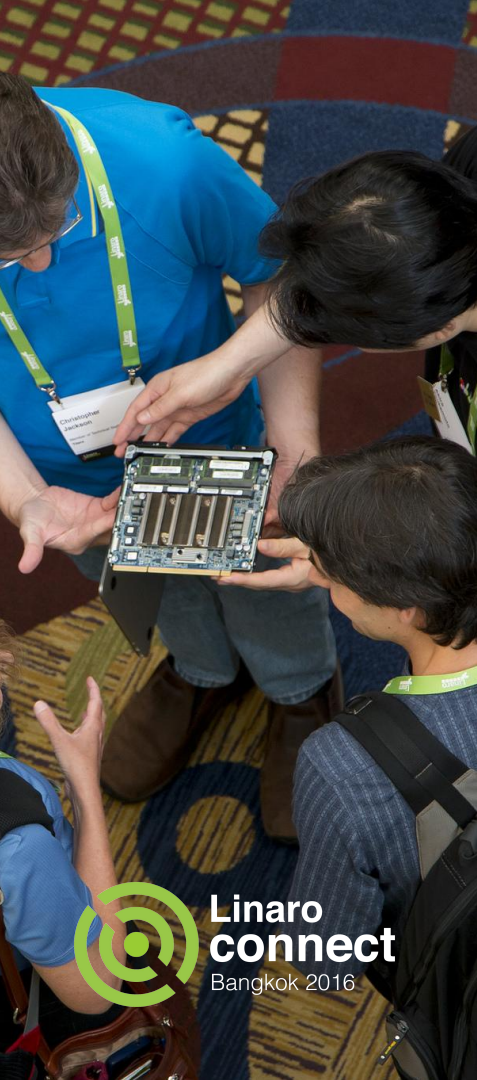
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Event

Linaro Connect BKK16

PMWG Farm

Introduction to our testing farm



Agenda

- Introduction
- Purpose
- Setup
- Advantages
- Limitations
- Test results
- Next steps

Purpose

- Have a low-cost efficient way to share reference boards with everyone in the Power Management Working Group (PMWG)
- Automate benchmarking process

Setup

- Boards
 - Mediatek, TC2, Pandaboard
 - Kernels on the platforms
 - Android
 - Ubuntu
 - Mainline
- Server
 - Debian
 - Tools
 - Workload Automation (WA) test framework
 - arm-probe command-line tool
 - Equipment
 - ARM Energy Probes
 - PCBs with shunt resistor

Advantages

- Everyone who uses the farm will work with the same setup
 - Easier to compare results
- Improve Linux support on WA

Limitations

- PMWG farm is currently managed by another team
 - Response time to our requests varies
- Multiple users running tests at the same time
 - No easy way to communicate who is using what board and length of test runs vary

Sample Benchmarks

- ebizzy
- hackbench
- cyclicttest
- sysbench
- rt-app

Test Results

- Two level perspective
 - High level view: Gives a trend, ideally one number
 - Low level view: Give details for internal use and debug

Next steps

- Add more boards
- Define metrics for reporting
- Continuous testing on various kernels
- Provide a global trend and per area trend

Discussion

- How can we make the farm useful to improve your workflow?