

Linaro Connect

February 2012



About Linaro

GOALS

- To provide our members with leading open source technology for their ARM SoCs
- To make ARM a leading open source architecture











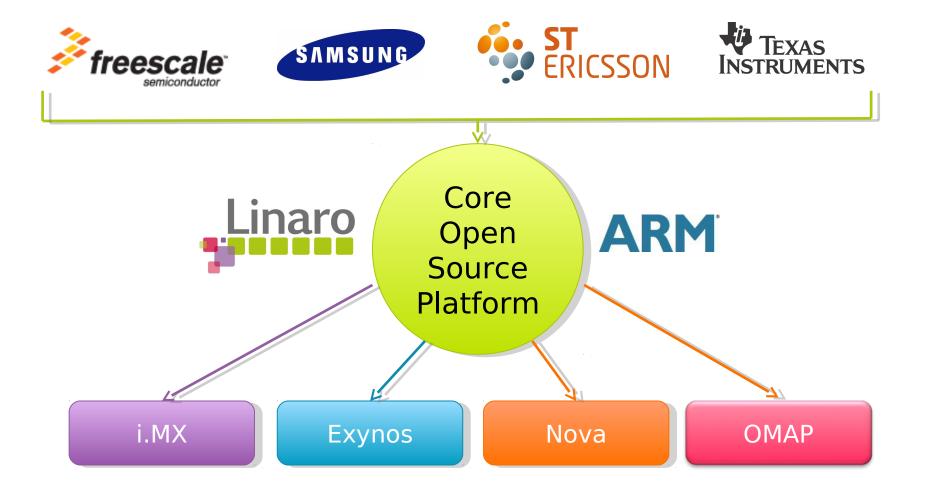


STRUCTURE

- Not-for-profit software engineering company
- Over 120 full time engineers

Members







- Membership
- Product Ready Quality
 - New ARMTechnology



Membership



- Driving new membership
 - Linaro's engineering output and success
 - Recognition of ROI and time to market
 - Increasing software engineering costs
 - New ARM technology
 - Need for stronger open source influence



- Beyond Mobile
 - Automotive, STB/DTV, Consumer electronics
 - Embedded and Appliances ARM A5/A8/A15
 - Server multicore A15 and ARM v8
- Linaro is the place for ARM licensees to influence and develop within the open source community



Testing and Validation

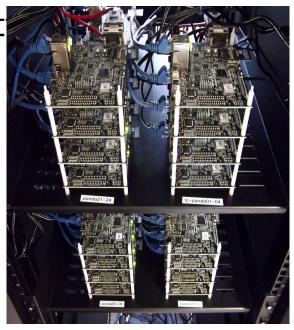


LAVA

Open source test & validation plat

- From Building to Using
 - Member hardware farm
 - Create the Linaro testing suite
 - Smoke tests
 - Functional tests
 - Scenario Stress testing
 - Initial focus on stress testing kernel trees, both Upstream and Linaro staging, for members





New ARMTechnology



- Cortex A7 & A15, big.LITTLE
 - Upstream task-migration (switcher) software
 - Time to market critical
 - Release candidate in May before 1st silicon
 - Product-ready quality, supported by Linaro
 - Multi-processing software
 - Processes on any or all cores
 - New technology for Linux kernel
 - Linaro working with ARM, members & community



ARM v8

- 64 bit architecture
- Avoid early adopter fragmentation of core software platform
- Help ARM to upstream v8 support early
- Test & Validate multiple distributions
 - Use 32 bit as the staging technology



- Build Linaro membership
- Lead open source testing
- Accelerate time to market for new ARM technology



Connect

A week of intensive engineering

ARM SoC v8 big.LITT Android UEFI Power Management Scheduler Multimedia UMM Tools Graphics kernel.org Server eMMC Mobile Linux RedHat A15 Thermal Ubuntu Devicetree NEON **Trustzone A5 GPU** gcc

