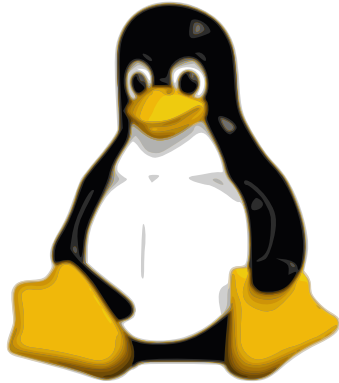# Cross-Distro ARM BoF

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FOSDEM, 5th February 2012

Agenda

- ARM Linux

- Hard-float ABI

- Port(s) status

  - Debian

  - Ubuntu

  - Others... (this is where other people get to chime in!)

- Working together

ARM Linux
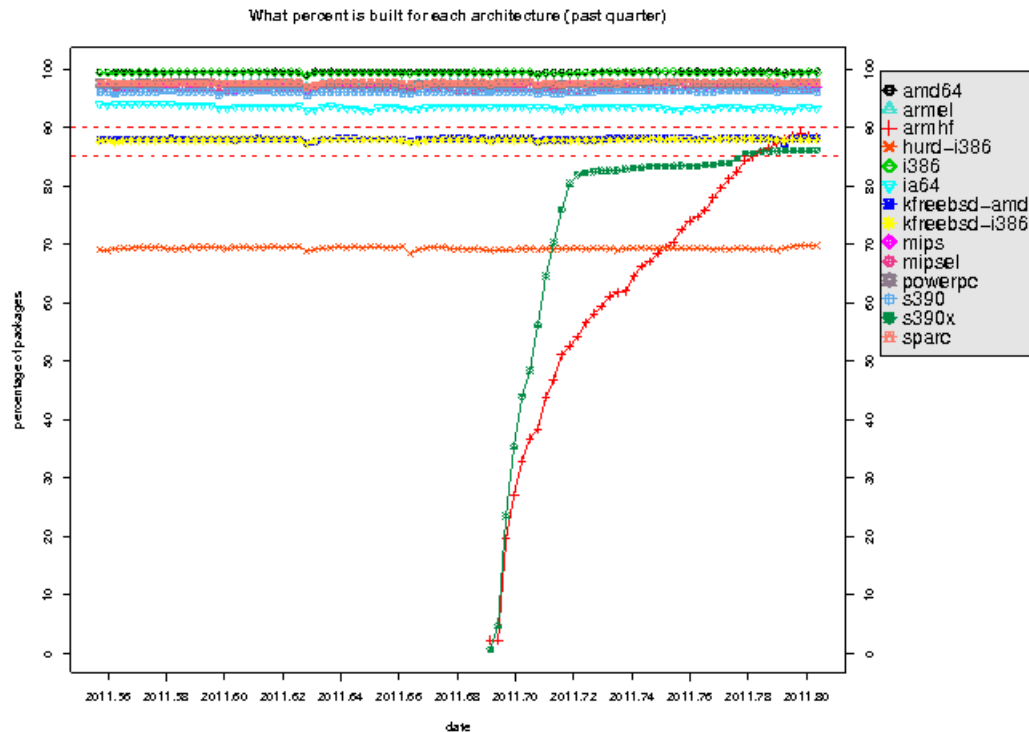
- Why?
- Who?
- Where are we up to?
- What's coming?

Hard-float ABI

- Better performance
- Standardisation
- Servers

Status in Debian

- 3 ports over time
    - "arm" (v3, OABI)
        - `arm-linux-gnu`
    - "armel" (v4t, EABI)
        - `arm-linux-gnueabi`
    - "armhf" (v7, EABI (hard-float), Thumb 2)
        - `arm-linux-gnueabihf`

Debian armhf bringup

What percent is built for each architecture (past quarter)

- ~95% done

- Fixing bugs

  - Ruby

  - Libreoffice

  - ...

- Language bootstraps

  - gcl

  - mono

- In testing now, ship with wheezy?

Status in Ubuntu

- 2 ports:
  - "armel" (v7, EABI (soft-float), Thumb 2)
    - `arm-linux-gnueabi`
  - "armhf" (v7, EABI (hard-float), Thumb 2)
    - `arm-linux-gnueabihf`

Elsewhere

- Show and tell!
- Fedora
- Suse
- Gentoo
- Mageia
- …?

BoF

- Questions / discussion?

Working together

- Porting tips
- Patches
- Help with ARM knowledge
- Multi-arch!
- cross-distro@lists.linaro.org

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