

FOSDEM 2012

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PDSW doughnut session



What is FOSDEM?

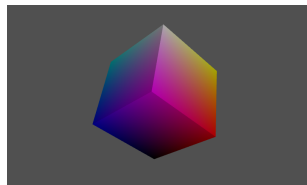
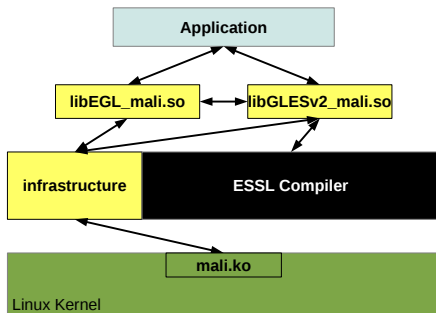
- 5000 geeks
- 227 talks
- 18 tracks
- quite a lot of beer



Free Mali driver

- Mali is a nice architecture - no baggage
- very early days - few demos
- Driver infrastructure - not shader compiler (yet)
- <http://limadriver.org/>

Infrastructure vs Compiler



Multiarch

- Well received
- Some interest from fedora/Red Hat/OBS
- LWN article
- Multiarch cross-build now running:
<http://people.linaro.org/~wookey/build>



Java OpenGL

- jogl gives 20-times speedup
- works on N9, panda, AC100



Linux distro ARM ports update (1)

Multiple meetups:

- 2 FOSDEM sessions: ARM BoF, OpenSUSE ARM port
- 2 sessions at Linaro Connect: Cross-distro, armhf

Main themes:

- **Everybody** wants better/faster/more reliable hardware for building
- Commercial distros want in on ARM server
- Everybody interested in v8 now

Linux distro ARM ports update (2)



Ubuntu

- “armel” (v7, Thumb 2, EABI soft-float)
 - still going, will ship in Precise (12.04), maybe with LTS?
- “armhf” (v7, Thumb 2, EABI hard-float)
 - mostly there, minor issues remaining
 - will ship in Precise unless major problems happen
 - expected to replace armel soon?



Debian

- “armel” (v4t, EABI soft-float)
 - still going, will ship in Wheezy (7.0)
- “armhf” (v7, Thumb 2, EABI hard-float)
 - mostly there, minor issues remaining
 - will ship in Wheezy unless major problems happen

Linux distro ARM ports update (3)



OpenSUSE

- “armv7hl” (v7, Thumb 2, EABI hard-float)
 - over 80% of the OpenSUSE archive built
 - aiming for inclusion in 12.2, freeze by beginning of June
 - aiming to be ready for SLED/SLES inclusion
- “armv5” (v5, EABI soft-float)
 - Secondary port, lower priority
 - Left for community effort



Fedora

- “armv7hl” (v7, Thumb 2, EABI hard-float)
 - much of F15 built
 - aiming for inclusion as primary arch in F17, alpha build available
 - big push by F18, ready for RHEL 7
- “armv5tel” (v5, EABI soft-float)
 - much of F15 built
 - aiming for inclusion in F17, alpha build available
 - base for Fedora respin for Raspberry Pi