ARM port(s) update

Where are we now, what's coming?



Steve McIntyre <93sam@debian.org> Debian/ARM/Linaro 10th July 2012

Agenda



- armel
- armhf
- Buildds and hardware
- Elsewhere?
- New stuff!
- Take notes in gobby please!
 - gobby.debian.org
 - debconf12/bof/arm-ports

armel



- Current port, first released with Lenny
- Soft-float ABI, v4t
 - Still needed for older hardware
- Still supported upstream...

armhf

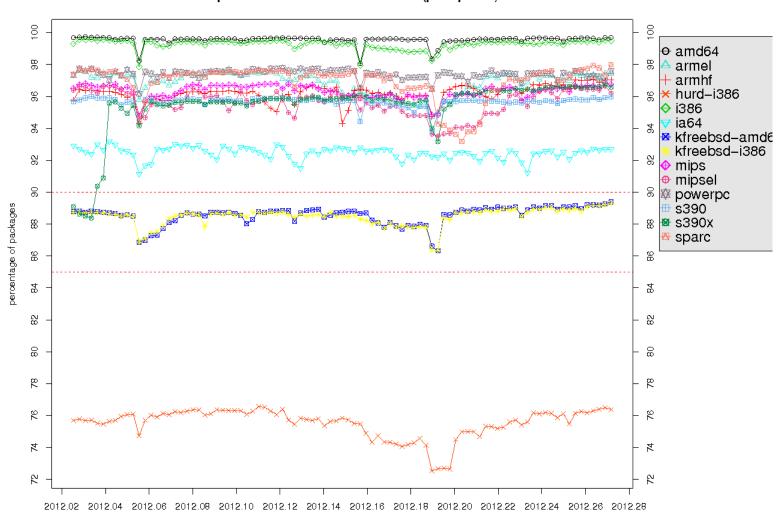


- Accepted for Wheezy release \o/
- Hard-float ABI, v7, VFPv3-D16
 - New standard for ARM Linux distros
- Linker path & multi-arch
- Well-supported upstream now
- Some porting/fixes still not done
 - Mono, libffi, ...





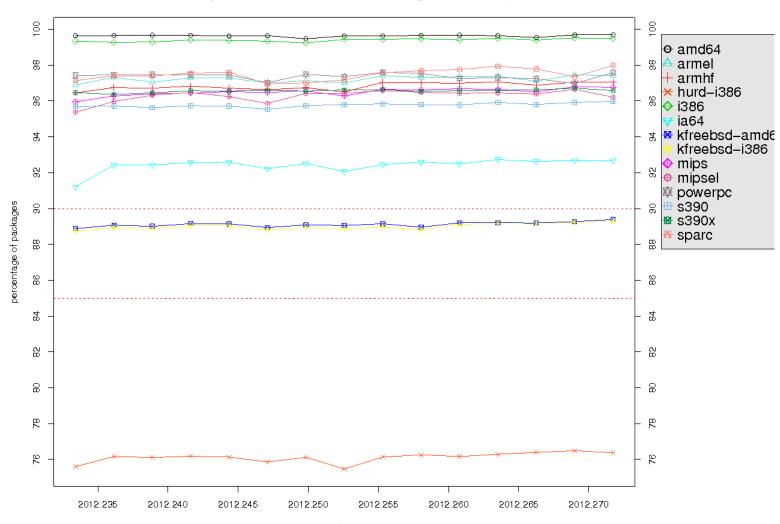
What percent is built for each architecture (past quarter)



Keeping up (2)



What percent is built for each architecture (past two weeks)







- Currently relying on dev boards:
 - Marvell Feroceon (v5) for armel
 - Freescale imx53 (v7) for armhf
- Issues
- New hardware real servers
 - Common kernel → common buildds?

Elsewhere



Raspbian

- v6hard-float ABI
- Forwards-compatible with armhf
- Good community work

Ubuntu

- armel v7 v5, soft-float
- armhf
- 12.04 LTS release

Elsewhere, further



OpenSUSE

- Focus on v7 hard-float
- Lower-priority v5 port
- Hoping for 12.2 ARM release

Fedora

- Focus on v7 hard-float
- Lower-priority v5 port
- F17 ARM released; be careful





- Mageia
- Gentoo
- ChromeOS
- Android

New stuff



- Virtualisation
 - Many ARM instances
- LPAE
 - Lots of RAM
- UEFI
 - Standard boot architecture

More new stuff!



- ARMv8, 64-bit capable
- Come to "AArch64 planning"!

What else?



- More porters always welcome
- #debian-arm on irc.debian.org
- debian-arm@lists.debian.org









And all the community!

[•]Slides © 2012 Steve McIntyre <93sam@debian.org>

[•]Released under GPL v2 at http://www.einval.com/~steve/talks/Debconf12-arm-ports/