Debian ARM BoF



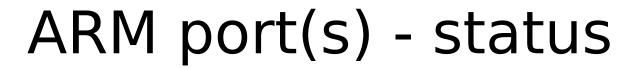
Steve McIntyre <93sam@debian.org> Debian/ARM/Linaro Hector Oron <zumbi@debian.org> Debian/Toby Churchill Konstantinos Margaritis <markos@debian.org> Debian/Genesi/Linaro

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- Port(s) status
- armel vs armhf
- armhf bringup
- Kernel
- Misc
- Take notes in gobby please
 - gobby-0.5 -c gobby.debian.net
 - debconf11/debconf-arm-bof





- "arm" EOL; still in Lenny/oldstable
- "armeb" never hit Debian
- "armel" current port, soft-float ABI
 - v4t in Debian, v7 in Ubuntu
- "armhf" being bootstrapped now, hard-float ABI
 - v7 in both Debian and Ubuntu

armel vs armhf



- armel supported for older hardware, before FPU guaranteed
- armhf targeted at newer hardware, guaranteed FPU
 - more efficient
 - potentially much faster, depending on software involved
- can use the same kernel, but incompatible in userland



armhf bringup

- Port started by Konstantinos Margaritis, supported by Genesi.
- Most of the archive built and working in debian-ports
 - Core system works
 - Bootstrapping languages, e.g. Java
- Ready for inclusion into main Debian archive very soon (August?), selecting buildd hardware now

Kernel



- Upstream ARM kernel
- Debian ARM kernels
- Light at the end of the tunnel?
 - Linaro and SoC vendors
 - Device Tree and single image?

Other distros



- Fedora starting armhf work
- Gentoo
- Mageia
- cross-distro@lists.linaro.org

Misc



- AC100 support?
 - http://people.debian.org/~jak/ac100/ unofficial repo
- OpenGL vs GLES
- Cross-bootstrapping
- Optimisations and sub/partial arches

Thanks











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- •Released under GPL v2 at http://www.einval.com/~steve/talks/Debconf11-arm/