

# ARM Ports BoF

Where are we now, what's coming?



arm

Steve McIntyre <[93sam@debian.org](mailto:93sam@debian.org)> Debian/arm/Linaro

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# Agenda

- Current ports status
- Builds and hardware
- Discussion
- Take notes in gobby please!
  - `gobby.debian.org`
  - `Debconf18/bof/arm-ports`



# arm64

- Current port, first released with Jessie
- Working well
- More devices available now, more coming
- Real server hardware!
- Simple choice of kernel with DTB and/or ACPI

# armhf



- Current port, first released with Wheezy
- Hard-float ABI, v7, VFPv3-D16
  - Standard for 32-bit Arm Linux distros
- armmp kernel & DTBs
  - Potentially massive set of supported devices
- UEFI...



# armel

- Current port, first released with Lenny
- Soft-float ABI, ~~v4t~~-v5te
- Still supported upstream for most languages?
- Was planning to drop from testing?
  - Others have stepped up!



# Builds and hardware

- Mostly relying on dev boards still for 32-bit:
  - Marvell Armada XP (v7)
  - Freescale imx53 (v7)  
porter box
- Wider arm64 machine options
  - Seattle, X-Gene, ThunderX, Macchiato, Centriq, Synquacer, ...



# A whole new build world



- DSA don't want to support dev boards
- New 32-bit builds needed
- 32-bit server machines?
  - ENOENT
-

# Let's build A32 on arm64!



- Some arm64 machine won't run A32
- Some issues found...
  - Alignment
  - #define mixups
  - Haskell mis-targeted
  - Rebuilds to find any more
  - Watch this space!





# Discussion

- What else can we be doing?
- What else should we be doing?



# What else?

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



# Thanks

The ARM logo, consisting of the lowercase letters 'arm' in a blue, sans-serif font.



And all the community!

- Slides © 2018 Steve McIntyre <[93sam@debian.org](mailto:93sam@debian.org)>
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