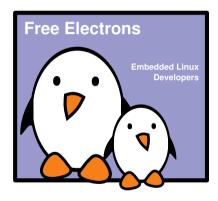
## How to handle DT foreign bindings

Maxime Ripard
Free Electrons
maxime@free-electrons.com

© Copyright 2004-2017, Free Electrons.
Creative Commons BY-SA 3.0 license.
Corrections, suggestions, contributions and translations are welcome!



- ▶ Since its introduction in Linux, a number of projects have switched to device tree
  - Zephyr
  - ▶ U-Boot
  - OpenBSD, FreeBSD
  - And probably dozens more
- Each of these projects have defined bindings of their own to deal with their constraints



## Example of bindings

- ▶ U-Boot
  - u-boot,efi-partition-entries-offset
    - Offset of the GPT partition table if non-standard
  - u-boot,dm-pre-reloc
    - Bind devices before the U-Boot's relocation (?)
  - /chosen/tick-timer
    - Which timer is supposed to be used to provide the tick in the system
- FreeBSD
  - Different ARM's GIC compatible (still the case?)
- OpenBSD
  - Different drivers compatible / clock IDs
- Always happened, and probably always will

- Some people start pushing patches to the kernel with those bindings, because it became the canonical source for DTs
  - What should we do about them?
  - Is that different from vendor, out-of-tree, bindings?
- ► Some "friendly" projects are using the same bindings with a different semantic and / or requirements
  - What should we do to reduce those differences?