A Common Platforms Tree

UEFI Spring Plugfest – May 18-22, 2015
Agenda

- Introduction
- Plan
- Wrapup

UEFI Plugfest – May 2015
www.uefi.org
Introduction
Current State of EDK2

- Platform support spread around the tree
  - PcAtChipset, BeagleBoard/Omap35xx, ARM Ltd. platforms, ValleyView2
  - Virtual platforms (special case?)

- Very few drivers
  - Spread around the tree...

- Most “real” platforms not buildable
  - Require separately downloaded packages
  - Coexistence of multiple platforms in one tree is … tricky
Linux kernel

• All platforms in one tree, all drivers in same tree

• Many benefits
  – Simple to verify changes to core code do not break existing platforms
  – Drivers for common components implemented once, then reused
  – Components shared between different platforms

• ... but does become more complex
So we would like to...

• Have more reference code

• Have more open source drivers
  – Without mandating only open source

• Minimise code (and other) duplication
Optimally...

• A set of new top-level directories
  – Platforms
  – SoC/Chipset
  – Drivers

• But we need to start somewhere
Plan
Plan

• Set up a new repository
  – Imported into existing edk2 tree, manually into a subdirectory or automated as a git submodule

• Convert current linaro-edk2 to use this
  – Instead of juggling topic branches
  – Base our monthly releases on this

• Build-tests on all platforms in tree, not just the ones we release
Common UEFI BIOS Layout

- CPU support
- Chipset/SoC support
- Tianocore EDK2
- Vendor additions
- Platform code & Drivers
Layout with OpenPlatformPkg

- Tianocore EDK2
- UEFI BIOS
- OpenPlatformPkg
- Vendor additions
Wrapup
Wrapup

• Interested in getting feedback on the overall approach
  – This week, in public or private.
  – linaro-uefi@lists.linaro.org

• Looking for more platform support and/or common drivers
Thanks for attending the UEFI Spring Plugfest 2015

For more information on the Unified EFI Forum and UEFI Specifications, visit http://www.uefi.org

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