KF5 for Yocto
Status update

Akademy 2018

Volker Krause
• “Meta distribution”/“distribution generator”
• Very flexible, but also very complex
• Popular for Embedded Linux projects
• Creates device images, packages and SDKs
• Contain useful components for Qt-based embedded systems
• Provide Yocto recipes to make KF5 easily accessible
• Johan Thelin’s effort revived at last Akademy
• kde:yocto-meta-kf5
Cross Compilation

• Yocto does two builds, “target” and “native”
• “native” is as minimal as possible (no graphics), “target” is not executable

• Keep code generators to a minimum!
  - Allow to build generators with minimal dependencies
  - Avoid runtime dependencies (hello kpackagetool5!)
  - Consider standard scripting languages (or CMake)
Sustainability

- Recipes for 73 frameworks, monthly release cycle
  - Minimize effort needed to maintain recipes
- No patch policy
  - Since 5.48.0 all required changes are upstream!
- Automated updates
• How to demonstrate KF5 on Yocto?
• kde:yocto-meta-kde
• 24 recipes, 4 remaining patches (2 upstream already)
• Works on an RPI3 :)
“Short Dive into Building Automotive ECUs with Yocto”
Andreas Cord-Landwehr
15:30, Room EI8