



KF5 for Yocto

Status update

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Yocto

- “Meta distribution”/“distribution generator”
- Very flexible, but also very complex
- Popular for Embedded Linux projects
- Creates device images, packages and SDKs



KDE Frameworks 5

- 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