Longterm Embedded Linux: Testing & Field Update

Build a system

PTXdist Yocto

RAUC

Deploy it in field

labgrid

Test it on hardware
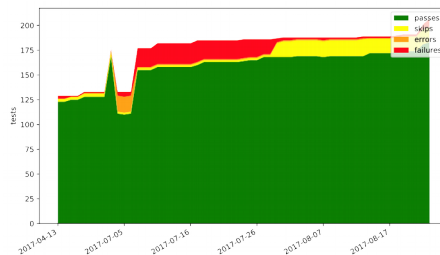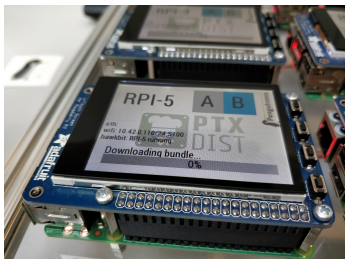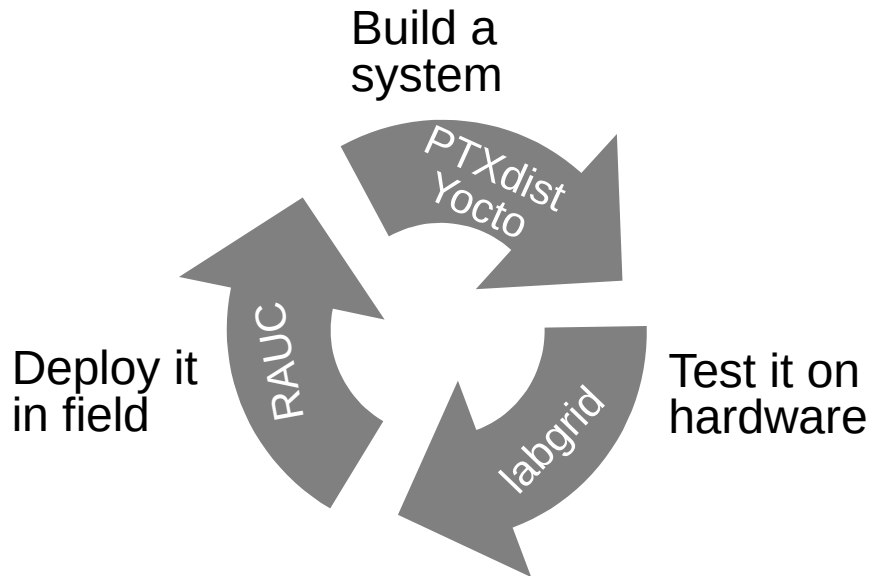
labgrid

- Testing the whole system:
  - Bootloader, Watchdog, Updates
- Integrates with Jenkins and pytest
- Remote access via SSH tunnel
- Library API for custom tools

 github.com/labgrid-project/labgrid

RAUC

- Robust Auto-Update Controller
- Over the air deployment using hawkBit
- SmartCard / HSM (PKCS#11) support
- Delta updates with casync

 github.com/rauc/rauc

Pengutronix