Linux FastBOOT and Qt!

Jan Altenberg, linutronix GmbH

LINUTRONIX
LINUX FOR INDUSTRY

What is demonstrated

- **2s cold-boot time into Qt application**
- Webserver running!
- Running a vanilla kernel without any patches!
- Possible hand-over to a production system
- Boot concept applicable to almost every SOC

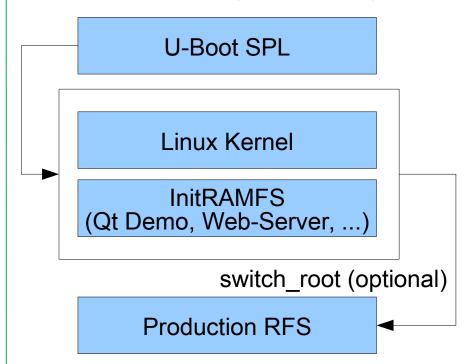Switch application / trigger switch root (via http)

PC, Smartphone, ...   Router   ARM Target

Hardware Information

CPU: TI AM335x
Booting from SD Card

What was improved

- Linux is started by the U-Boot SPL
- Optimized kernel config (no code changes!!)

U-Boot SPL

Linux Kernel

InitRAMFS
(Qt Demo, Web-Server, ...)

switch_root (optional)

Production RFS

Source code or detail technical information availability

https://www.linutronix.de