Opensuse arm on Allwinner A10

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 suse.com>



Introduction

- DEMO: Opensuse arm on mele A1000
- Open source on unbrickable/open/fexible device
- Arm family and ecosystem

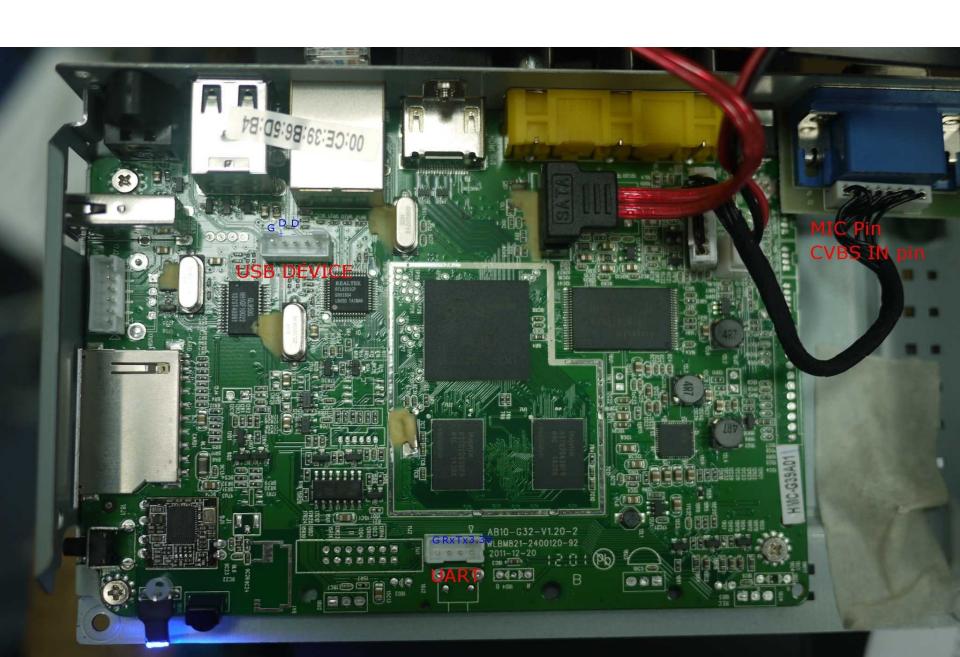








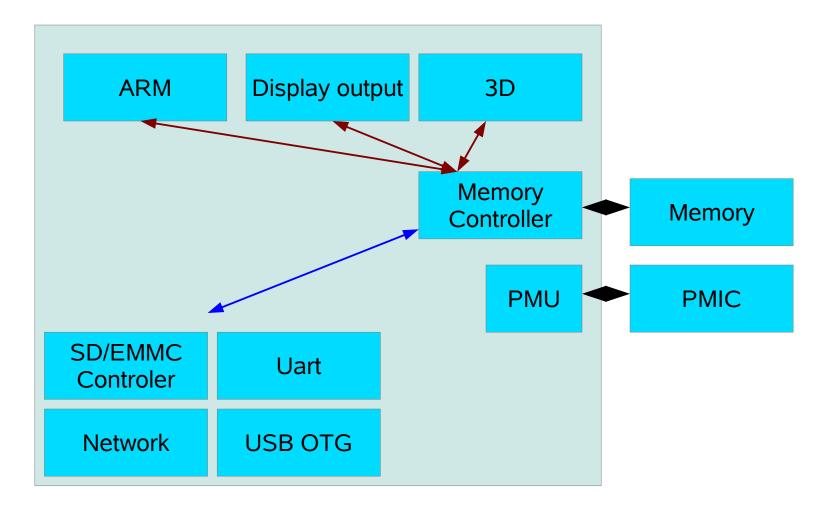




Open source on embedded device

- Thanks to CyanogenMod, XMBC, XDA
- Unbrickable
- Open and Standard hardware
- Fexible
 - Varies display device support
 - Multi-purpose GPIO. GPIO configuration file.

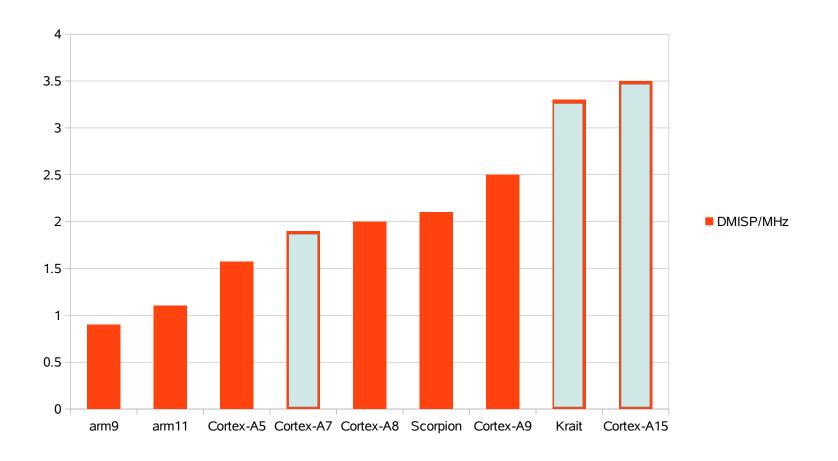
Open source on arm soc

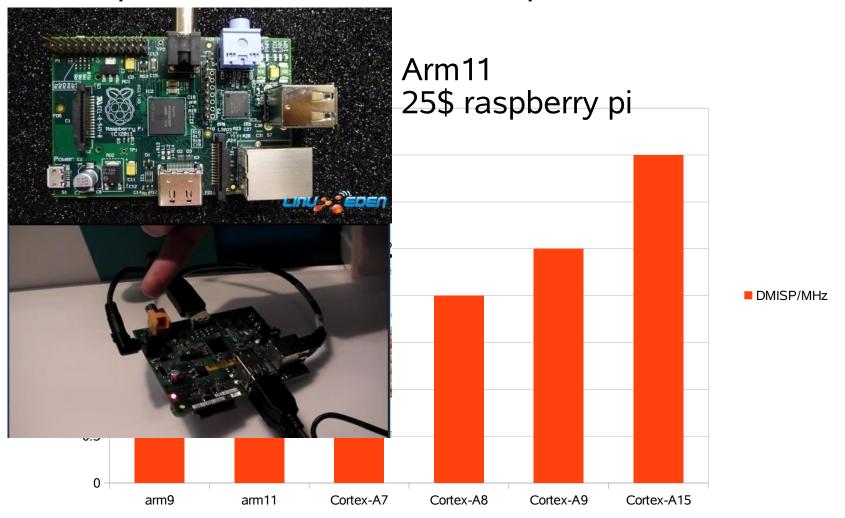


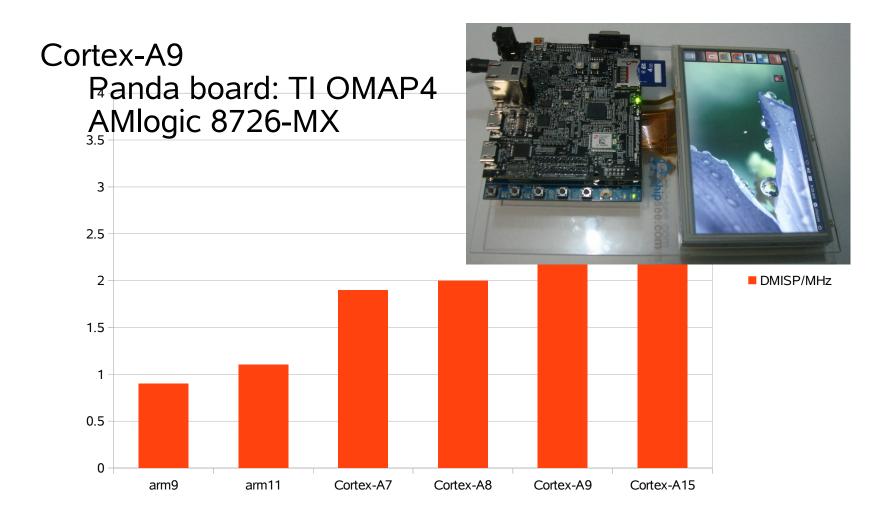
- Arm processor
- Display adaptor
 - 3D: arm mali
 - Output: hdmi, vga, AV, YPbPr
- "hard disk": sd, emmc
- Uart: 8250 or 16650 compatability.

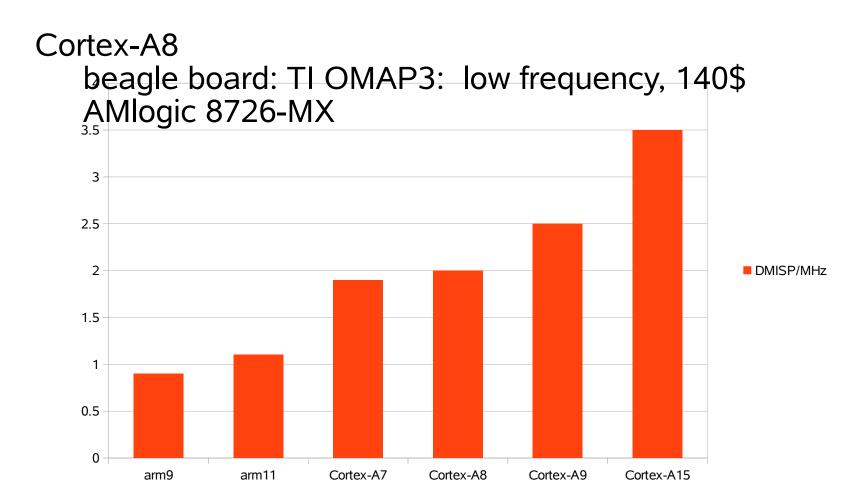
Compare with ARM and X86

•	ARM	INTEL	MIPS
name	Cortex	Pentium	
pipeline	Supperscaler	Supperscaler	?
SIMD multimedia	NEON	MMX, SSE, 3D NOW	ASE
Data width	64bit	64bit	
Smaller code size	Thumb-2		microMIPS

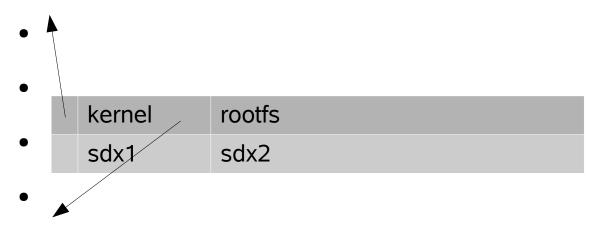








bootloader(specific boot and u-boot)



Kernel and configuration(fexible)

Display adaptor(Display output + 3D acceleration)

- Arm Mali:
 - Samsung, Rockchip, Allwinner.
 - Partial Open source
- Imagination PowerVR: TI.
- Vivenate GCxx: freescale.
- Geforce: Nvidia
- Adreno: Qualcomm





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