Run upstream coreboot on an ARM Chromebook

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Who am I?

- ► (Economic) Mathematician by studies at TU Berlin
- Free Software enthusiast
- ► Active in coreboot since 2005 (still LinuxBIOS back then)
- System architect at Max Planck Institute for Molecular Genetics

Google Chromebooks

x86

ARM

Samsung Chromebook Plus (RK3399)

See thread *Current*, *BLOB* free laptop available Europe? on coreboot mailing list

- Device with Rockchip RK3399, but only available in the USA
- No BLOBs in firmware

Linux support

BLOBs required for

- hardware video decoding
- ▶ Wi-Fi and Bluetooth
- ► GPU support

Acer Chromebook R 13

▶ On October 24th, 2017, 384 € at notebooksbilliger.de

Specifications

Processor	Mediatek MT8173C 4x 2.10 GHz
Cache	1 MB
RAM	4 GB LPDDR3, PC3L-12800 (1600MHz)
Format	2in1 Convertible
Display size	33 cm (13,3")
Display	Acer CineCrystal™ Multi-Touch Full-HD IPS Display with
Resolution	1920 x 1080 Pixel (Full HD)
IGD:	PowerVR GX6250
eMMC	32 GB
Dimensions	$326 \times 228 \times 15,5 \text{ mm } (B \times T \times H)$
Weight	1,49 kg
Battery time	up to 12 hours
Capacity	4.670 mAh

BLOB status

- PCM firmware in ARM Trusted Firmware
- Maybe USB C device

Linux support

- hardware video decoding
- ▶ Wi-Fi and Bluetooth
- GPU support