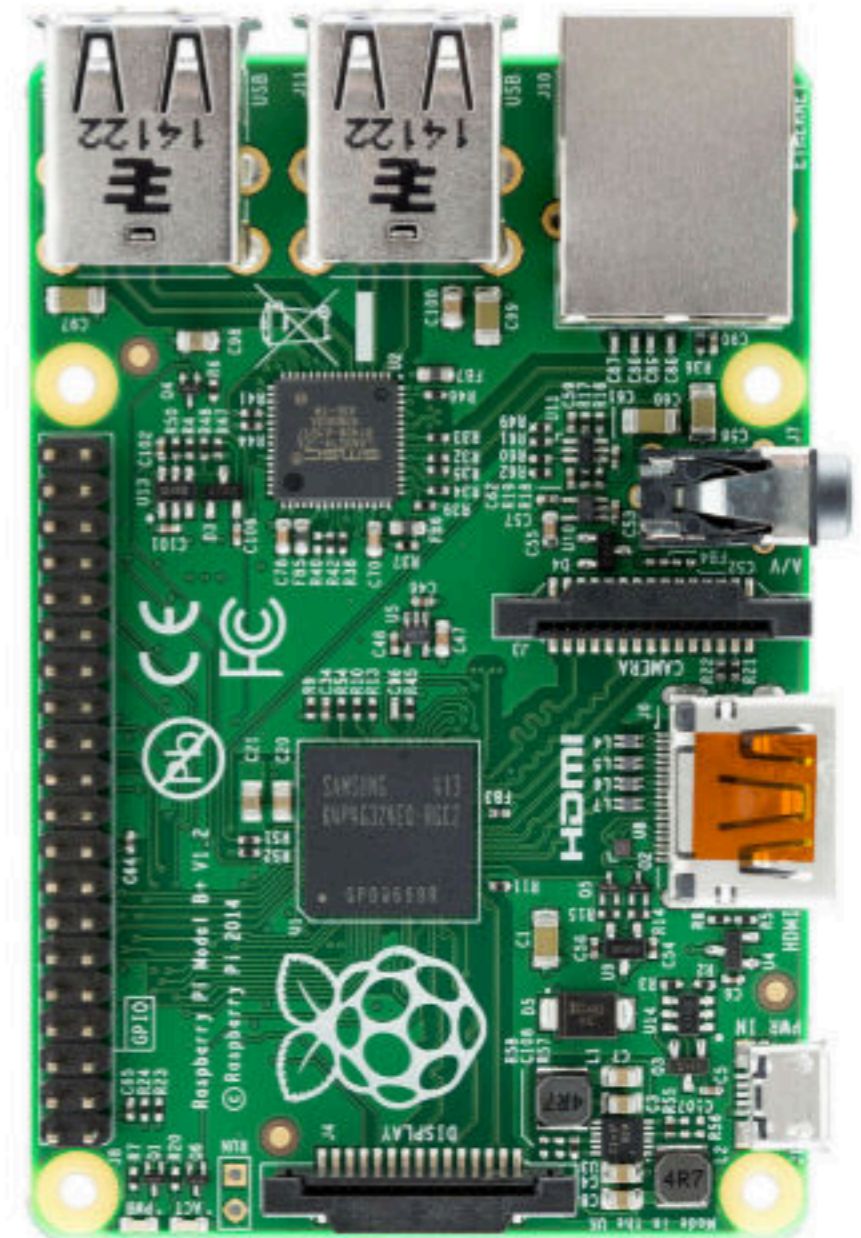


Instalating Linux on ARM

ARM boards

RaspberryPi 1/0

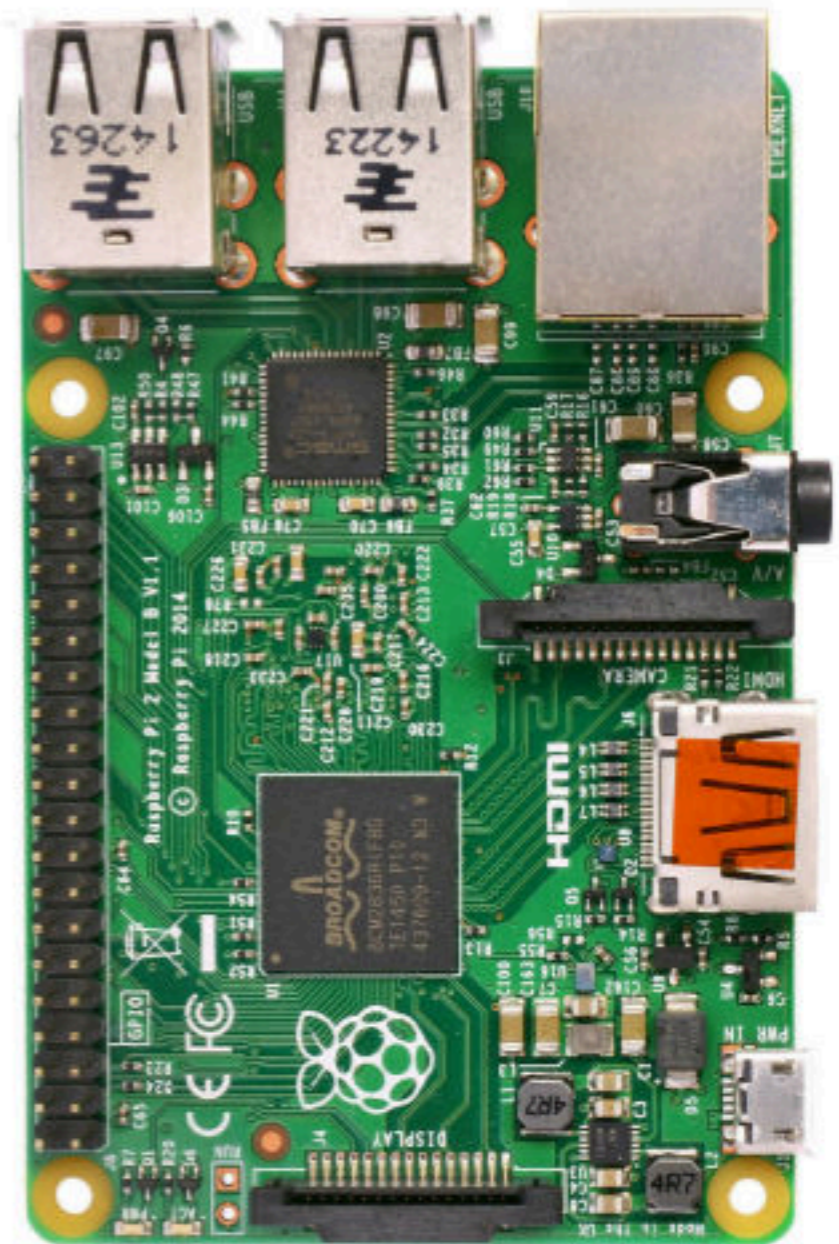
- armv6
- 1 core @ 700 MHz
- 256M / 512M RAM
- USB connected 100M Ethernet
- ~ 940 Kč



ARM boards

RaspberryPi 2

- armv7
- 4 cores @ 900 MHz
- 1G RAM
- USB connected 100M Ethernet
- ~ 1 350 Kč



ARM boards

BananaPi

- armv7
- 2 cores @ 1 GHz
- 1G RAM
- native 1Gbit Ethernet
- SATA
- ~ 1 090 Kč



Booting

Most arm boards

- board loads U-Boot from fixed address
 - written to NAND or MMC or ...
- U-Boot loads kernel and initrd and dtb
 - can be on filesystem
 - can be at some address
 - can be on server
- U-Boot executes kernel

Booting

RaspberryPi

- searches for `bootcode.bin` on first FAT partition
- loads it, executes it, it searches for `start.elf`
- loads it, executes it, it searches for `config.txt`
- reads it, figures out what to execute next
 - can be kernel
 - can be U-Boot
- searches for it and execute it

What we need for installation

- SD card
- rootfs for our architecture
- maybe kernel for our board
- serial cable can be helpful
- `qemu-user` can be helpful
- `qemu-nbd` can be helpful

Let's get working

