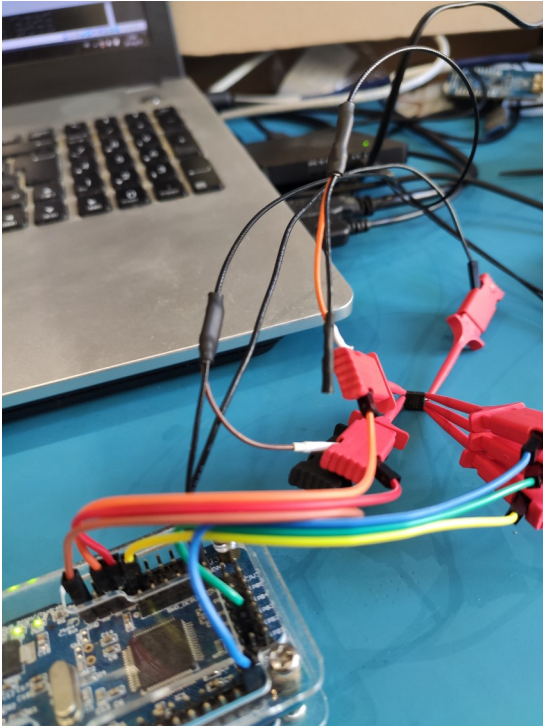
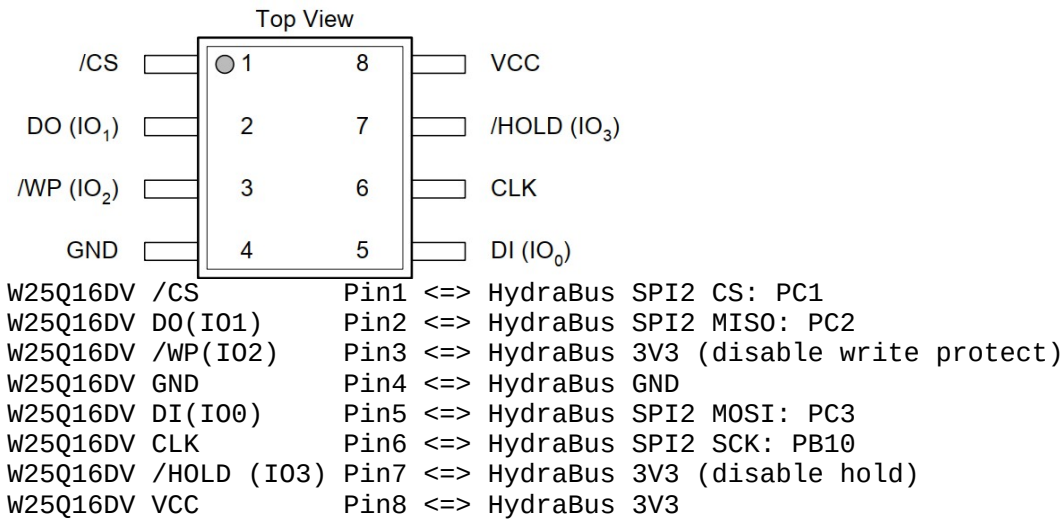


How to Read/Write SPIFlash with FlashROM and HydraBus

Example SPIFlash WINBOND W25Q16DV / HydraBus SPI2 connection



FlashRom with support of HydraBus

This specific version of FlashRom has been modified by [Baldanos](#) and use same syntax as for BusPirate but it is enhanced for hydrabus using SPI2 at 21MHz by default, that allow ultra fast read/write of spiflash in few seconds (compared to few minutes on the BusPirate).

See <https://github.com/Baldanos/flashrom>

It is recommended to use latest hydrabus firmware see

<https://github.com/hydrabus/hydrافw>

Build and usage of flashrom with HydraBus:

Tested with Ubuntu 18.04 LTS

```
sudo apt install pciutils-dev libusb-dev
git clone https://github.com/Baldanos/flashrom
cd flashrom
make
sudo make install
```

Test spiflash identification with FlashROM:

```
sudo ./flashrom -p buspirate_spi:dev=/dev/ttyACM0
```

flashrom v0.9.9-212-g4c675e7 on Linux 4.15.0-106-generic (x86_64)

flashrom is free software, get the source code at <https://flashrom.org>

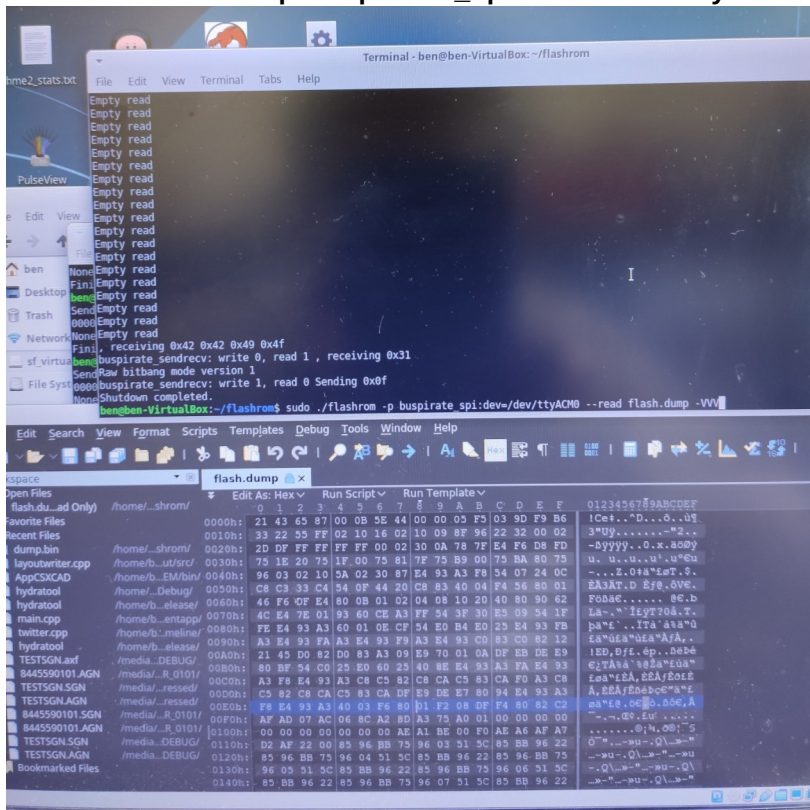
Using clock_gettime for delay loops (clk_id: 1, resolution: 1ns).

Found Winbond flash chip "W25Q16.V" (2048 kB, SPI) on buspirate_spi.

No operations were specified.

Read full SPIFlash with FlashROM and HydraBus:

```
sudo ./flashrom -p buspirate_spi:dev=/dev/ttyACM0 --read flash.dump -vvv
```



Write full SPIFlash with FlashROM and HydraBus:

```
sudo ./flashrom -p buspirate_spi:dev=/dev/ttyACM0 --write flash.dump -vvv
```