Commodore 1541 emulator for the Raspberry Pi

⚖ GPL-3.0 license

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View code

☰ README.md

Pi1541

Commodore 1541/1581 emulator for the Raspberry Pi

Pi1541 is a real-time, cycle exact, Commodore 1541 disk drive emulator that can run on a Raspberry Pi 3A, 3B or 3B+. The software is free and I have endeavored to make the hardware as simple and inexpensive as possible.

Pi1541 provides you with an SD card solution for using D64, G64, NIB and NBZ Commodore disk images on real Commodore 8 bit computers such as;- Commodore 64 Commodore 128 Commodore Vic20 Commodore 16 Commodore Plus4

See https://cbm-pi1541.firebaseapp.com/ for SD card and hardware configurations.

Toolchain Installation

On Windows use GNU Tools ARM Embedded tool chain 5.4: https://launchpad.net/gcc-arm-embedded/5.0/5-2016-q2-update and Make: http://gnuwin32.sourceforge.net/packages/make.htm

On dpkg based linux systems install: (Tested on osmc/rpi3)

```
apt-get install binutils-arm-none-eabi gcc-arm-none-eabi libnewlib-arm-none-eabi
libstdc++-arm-none-eabi-newlib
```

On RHEL/Centos/Fedora systems follow the guide at: https://web1.foxhollow.ca/?menu=centos7arm (Tested on Centos7/x64 with GCC7) https://developer.arm.com/open-source/gnu-toolchain/gnu-rm/downloads/7-2017-q4-major

Building

```
make
```

This will build kernel.img

In order to build the Commodore programs from the `CBM-FileBrowser_v1.6/sources/` directory, you'll need to install the ACME cross assembler, which is available at https://github.com/meonwax/acme/
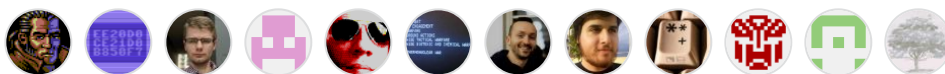
Releases 11

🏷 **v1.24** (Latest)
on Jan 23, 2021

+ 10 releases

Packages

No packages published

Contributors 12

Languages

● **C** 50.4% ● **C++** 44.4% ● **Assembly** 4.7% ○ **Other** 0.5%