

Arduino: UNO2IEC disk drive simulator for Commodore 64

Introduction

The Uno2IEC is an emulator of the Arduino UNO/Nano 1541 disk drive station, running over an IEC interface

My personal colour note

NOTE: this post is about a cable I made myself and I absolutely do not want to forget which wires go where.

If I ever come back to this project then **remember the colours!**

PIN→mode colours (according to my own „cable art“):

- WHITE (white wire): pin 3 → ATN
- GREY (grey wire): pin 4 → DATA
- PURPLE (violet): pin 5 → CLOCK
- GREEN (green): pin 6 → RESET (optional, but works nicely)
- ORANGE (orange): GND

Application

- You emulate .d64/.t64 floppy disks without any original 1541 stations.
- The cable and Arduino do all the work.

Connecting

It took me a while to head up what the diagrams on the internet were all about and **NOTE**, most of them show the pinout for the socket not the plug

Software

1. Sketch `uno2iec.ino` in Arduino - bridge between IEC and USB-Serial.
2. Host-GUI program on PC - mount image folder; port selection, pins, mount/unmount commands, etc.

Operation

Arduino emulates a 1541 station, host sends .d64 sectors over USB to Arduino, Arduino passes them over IEC to C-64. Simple & stupid, but works shockingly well.

Compile & run

1. Make the cable according to my colour instructions (or make it yourself, at your own risk).
2. Upload the sketch, run the host-GUI, select COM, speed, pin numbering and folder with .d64.
3. You mount, type in the typical

```
LOAD"$",8  
LIST  
LOAD"PROGRAM",8  
RUN
```

...and boom - the game comes on.

Problems

- „?DEVICE NOT PRESENT ERROR.” - usually a bad cable. Check colours and configuration.
- Ugly file names in the directory? The program may get offended.

Summary

1. UNO2IEC is simple, cheap and works
2. You make the cable yourself
3. But remember: the colours mean something - write it down now, because later you might forget

like me



Files:

- uno2iec_host.zip
- uno2iec-0.5.0.0.zip

Source:

- <https://github.com/Larswad/uno2iec>