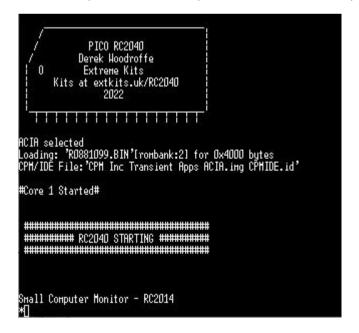
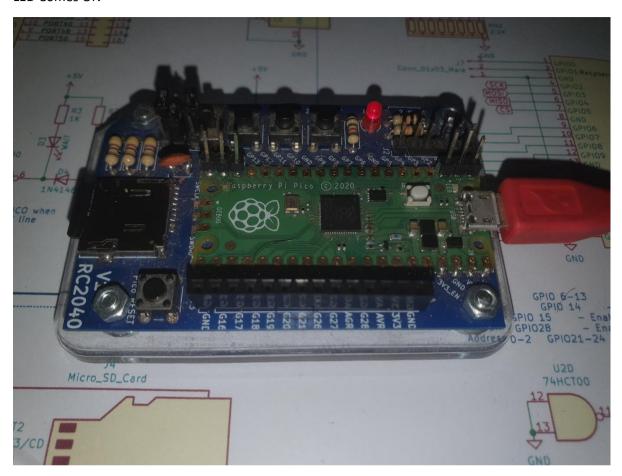


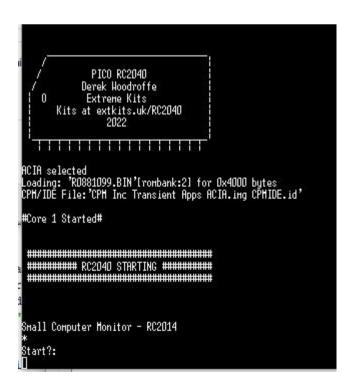
Connect to (in this case COM4) with Terminal Emulator (Terraterm)



## Press BUT button on RC2040 (not needed on an RC2014 SD card module)

## **LED Comes ON**





Start? Is displayed in Terminal

On your PC, Close your terminal editor and Go to the directory With the Python Files

```
Directory of c:\myprogs\Python\RC20XXcpm
25/06/2022 16:04
                    <DIR>
25/06/2022 16:04
                    <DIR>
19/06/2022 16:00
                    <DIR>
                                   backup
23/06/2022 14:07
                             2,991 CAT-RC20xx.py
24/06/2022 19:48
                             3,413 CopyFrom-RC20xx.py
24/06/2022 19:48
                             3,669 CopyTo-RC20xx.py
24/06/2022 20:02
                            2,030 EXIT-RC20xx.py
24/06/2022 19:40
                            2,490 LS-RC20xx.py
24/06/2022 20:01
                            2,460 RM-RC20xx.py
25/06/2022 16:04
                    <DIR>
                                   test files
              6 File(s)
                               17,053 bytes
              4 Dir(s) 150,283,882,496 bytes free
c:\myprogs\Python\RC20XXcpm>
```

To get a directory listing of a CPM drive

Type LS-RC20xx.py COMPORT DriveLetter

For my setup

LS-RC20xx.py COM4 D

```
c:\myprogs\Python\RC20XXcpm>LS-RC20xx.py COM4 D
Drive D
ELIZA
        .BAS
                8K
                        63
ELIZA
        .DAT
                 8K
                        56
ELIZA
        .DOC
                8K
                        52
MANDLE2 .BAS
                0K
                         0
MANDLEAS.BAS
                0K
                         0
MANDLECO.BAS
                0K
                        0
MONSTER .BAS
                8K
                        55
MONSTER .DOC
                4K
                        29
       .BAS
ROSE
                4K
                        22
               40K
STAR
       .BAS
                       298
STARWARS.BAS
              16K
                       115
TESTMAND.BAS
               4K
                       4
TVIGAMMO.BAS
                16K
                       104
WORDPUZL.BAS
                4K
                        28
ZILCH
       .BAS
                 8K
                        62
   15 Files occupying
                        140K,
                                 8036K Free.
c:\myprogs\Python\RC20XXcpm>
```

To Copy a file from the RC20xx

CopyFrom-RC20xx.py ComPort DriveLetter FileName

For my setup

CopyFrom-RC20xx.py COM4 D TESTMAND.BAS

```
c:\myprogs\Python\RC20XXcpm>CopyFrom-RC20xx.py COM4 D TESTMAND.BAS
fetching TESTMAND.BAS
TESTMAND.BAS Saved
c:\myprogs\Python\RC20XXcpm>
```

To Copy a file to the RC20xx

CopyTo-RC20xx.py ComPort DriveLetter FileName

For my setup

CopyTo-RC20xx.py COM4 D TESTTEST.TXT

Note: The destination file must not already exist on the RC20XX

```
c:\myprogs\Python\RC20XXcpm>
c:\myprogs\Python\RC20XXcpm>CopyTo-RC20xx.py COM4 D TESTTEST.TXT
sending TESTTEST.TXT
.....
TESTTEST.TXT Sent
c:\myprogs\Python\RC20XXcpm>
```

To remove a file from the RC20xx

RM-RC20xx.py ComPort DriveLetter FileName

For my setup

RM-RC20xx.py COM4 D TEST.TXT

```
c:\myprogs\Python\RC20XXcpm>RM-RC20xx.py COM4 D TEST.TXT
Removed TEST.TXT
c:\myprogs\Python\RC20XXcpm>
```

To cat (type) a file from the RC20xx

CAT-RC20xx.py ComPort DriveLetter FileName

For my setup

CAT-RC20xx.py COM4 D TESTMAND.BAS

```
c:\myprogs\Python\RC20XXcpm>CAT-RC20xx.py COM4 D TESTMAND.BAS
fetching TESTMAND.BAS
TESTMAND.BAS
05 WIDTH 255
10 MAXITER = 20
20 LET C$ = " .,'~!^:;[/<&?oxOX#
30 FOR Y = -39 TO 39
40 FOR X = -39 TO 39
50 CREAL = X / 20
70 CIMAG = Y / 20
80 ZREAL = CREAL
90 ZIMAG = CIMAG
95 COUNT = 1
100 ZM = ZREAL * ZREAL
105 ZN = ZIMAG * ZIMAG
107 ZL = ZM + ZN
110 IF ZL > 4 THEN GOTO 170
120 ZR2 = ZM - ZN + CREAL
130 ZIMAG = ZREAL * ZIMAG * 2 + CIMAG
140 ZREAL = ZR2
150 COUNT = COUNT + 1
160 IF COUNT < MAXITER THEN GOTO 100
170 PRINT MID$(C$, 1 + COUNT, 1);
180 NEXT X
185 PRINT ""
190 NEXT Y
```

(RC2040 ONLY)

To return to Serial Console

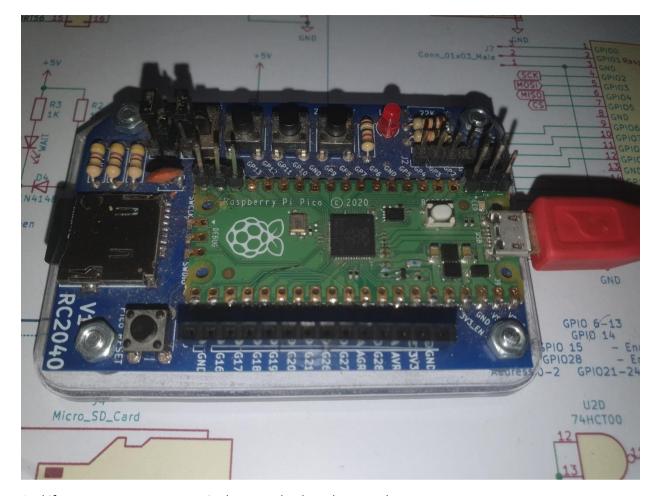
EXIT-RC2040.py COmPort

For my setup

EXIT-RC20xx.py COM4

```
c:\myprogs\Python\RC20XXcpm>EXIT-RC20xx.py COM4
EXIT
c:\myprogs\Python\RC20XXcpm>
```

RC2040 LED off



And if you reconnect your terminal you are back to the console

```
*cpn
Z80 CP/H BIOS 1.0 by G. Searle 2007-13
RC2014 port by Hitch Lalovic 2017
CP/H 2.2 Copyright 1979 (c) by Digital Research
A>[
```

## New

Program the RC2040 with a binary file.

After clicking the button.

Run the Python script

Program-RC2040.py COM4 0000 24.bin

Where 0000 is the base Address and 24.Bin is a raw binary file.

Exit the FFS mode and your RC2040 has the new code at the address you specified.