

*****DRAFT*****
Testing fcl-image-examples
09/15/17
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Note: The following command only needs to be executed once.

"export PATH=/home/pi/ultibo/core/fpc/bin:\$PATH"

Compile the programs to run, from the command line, of the Rpi running Raspbian.

"fpc -B -Tlinux -Parm @/home/pi/ultibo/core/fpc/bin/fpc.cfg -O2 imgconv"

"fpc -B -Tlinux -Parm @/home/pi/ultibo/core/fpc/bin/fpc.cfg -O2 drawing"

"fpc -B -Tlinux -Parm @/home/pi/ultibo/core/fpc/bin/fpc.cfg -O2 interpoldemo"

"fpc -B -Tlinux -Parm @/home/pi/ultibo/core/fpc/bin/fpc.cfg -O2 xwdtobmp.pas"

Converts the bmp image to a png image.

"/imgconv b lena_rgb_2048.bmp P lena_rgb_2048.png"

Initing

Reading image

Writing image

WriteImage, options=P

Grayscale FALSE - Indexed FALSE - WordSized FALSE - UseAlpha FALSE

Options checked, now writing...

Clean up

Converts the bmp image to a jpg image.

"/imgconv b lena_rgb_2048.bmp j lena_rgb_2048.jpg"

Initing

Reading image

Writing image

WriteImage, options=J

Options checked, now writing...

Clean up

Converts the bmp image to a png image.

"/imgconv b lena_rgb_256.bmp p lena_rgb_256.png"

Initing

Reading image

Writing image

WriteImage, options=P

Grayscale FALSE - Indexed FALSE - WordSized FALSE - UseAlpha FALSE

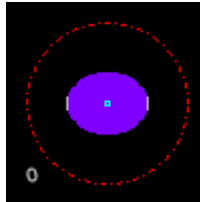
Options checked, now writing...

Clean up

“./interpoldemo” Scales the images lena_rgb_256.png to 64 x 64.



“./drawing” Creates the DrawTest.png



“sudo apt-get install x11-apps”

xwininfo: Please select the window about which you
would like information by clicking the
mouse in that window.

xwininfo: Window id: 0x1400004 "pi@raspberrypi3: ~/jpeg-2000-test/bare-metal/openjp"

Absolute upper-left X: 738
Absolute upper-left Y: 138
Relative upper-left X: 2
Relative upper-left Y: 30
Width: 735
Height: 510
Depth: 24
Visual: 0x21
Visual Class: TrueColor
Border width: 0
Class: InputOutput
Colormap: 0x20 (installed)
Bit Gravity State: NorthWestGravity
Window Gravity State: NorthWestGravity
Backing Store State: NotUseful
Save Under State: no
Map State: IsViewable
Override Redirect State: no
Corners: +738+138 -447+138 -447-432 +738-432
-geometry 80x24+736+108

“xwd -id 0x1400004 -out myshot.xwd”

“./xwdtobmp myshot.xwd tt.bmp”

```

File Edit Tabs Help
-rw-r--r-- 1 pi pi 417774 Sep 16 12:23 libdwtlift.a
-rw-r--r-- 1 pi pi 417774 Sep 16 12:23 libopenjp2.a
when ./compile.sh is executed should be 23
Word count libopenjp2_obj.txt in /home/pi/t_ultibo/src/lib/openjp2
plus dwtlift.o
 23 23 190 libopenjp2_obj.txt
pi@raspberrypi3:~/jpeg-2000-test/bare-metal/openjp $ rm -f uinterpoldemo.pp
pi@raspberrypi3:~/jpeg-2000-test/bare-metal/openjp $ ls
100CR.bmp          disp_rgb.m          opj_decompress
1024x1024blue.png  dwtlift.c           opj_dump
1024x1024green.png dwtlift.h           opj_stdint.h
1024x1024lift4resol.png dwtlift.o          red-out.32t
1024x1024red.png   DWT_LIFT_RPi2.elf   sd-card
2048_2048.jpg      DWT_LIFT_RPi2.lpr   setpath.sh
bb                 DWT_LIFT_RPi2.o     uBufferToC.pas
blu-out.32t        format_defs.h        uBufferToC.ppu
cmdstftp           grn-out.32t          uliftbitmap.o
compile.sh          kernel7.img          uliftbitmap.pas
decompressed.jpg    libdwtlift.a         uliftbitmap.ppu
decomp-sd-card      libopenjp2.a         uTFTP.o
dis_libopenjp2.txt  libopenjp2_obj.txt  uTFTP.pas
dis_orig_libopenjp2.txt openjpeg.h           uTFTP.ppu
disp_decomp_rgb.m  opj_config.h
pi@raspberrypi3:~/jpeg-2000-test/bare-metal/openjp $

```