

*****Draft*****

DWT Lifting Step
12/01/20

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Need to set the PATH for fpc.
export PATH=/home/devel/ultibo/core/fpc/bin/:\$PATH
echo \$PATH

The lifting.c C code is part of test.c.

cd Ultibo_Projects/dwt_lifting_step/RPi2/
./compile.sh

```
#!/bin/bash
date
rm -f test.o
rm -f libtest.a
rm -f kernel7.img
arm-none-eabi-gcc -O2 -mabi=aapcs -marm -march=armv7-a -mfpv3-d16 -
mfloat-abi=hard -c test.c
arm-none-eabi-ar rcs libtest.a test.o

fpc -vi -B -Tultibo -Parm -CpARMV7A -WpRPI2B
@/home/devel/ultibo/core/fpc/bin/RPI2.CFG -O2 LibCTest_RPi2.lpr
ls -la test.o libtest.a kernel7.img
```

tftp 192.168.1.247 < cmdstftp
tftp> tftp> Sent 2688432 bytes in 33.1 seconds

Ultibo Core (Release: Beetroot Version: 2.0.007 Date: 3 September 2020)

```
pointer passed 1a39604
tt 65536.000000 sqrt tt 256.000000 256 256
local char ptr 1a39604
allocating memory with malloc
img->n_red 0xc00004f0
img->n_green 0xc00404f0
img->n_blue 0xc00804f0
img->n_tmp 0xc00c04f0
Copying RGB 8 bit char to 32 int
img->n_red 0xc00404f0
img->n_green 0xc00804f0
img->n_blue 0xc00c04f0
resetting pointers
img->n_red 0xc00004f0 passed ptr 0x1a39604
img->n_green 0xc00404f0
img->n_blue 0xc00804f0
Calling lifting red
Calling lifting green
Calling lifting blue
lifting to Buffer
Elapsed time: 0 microseconds
156
16:25:05
```

```
writing top right handle1
Buffer 01a39604 Size 196608 LineSize 768 BitCount 24
UPSIDEDOWN
Going to free Buffer memory
Local Address 192.168.1.247
TFTP Ready.
```

