

11/07/21

cd tmp git clone git@github.com:develone/pico-lifting.git cd pico-lifting cp testfiles/2048/* . ./buildpi_lift.sh rm -f dwt.bin;./pi_jpeg 0 1

Next instead of reading the files and writing the results in dwt.bin The goal is use as serial tx & rx to send the data to the program. Then transmit the result over the serial tx.

The folder testfiles/2048/ has the files to perform a 2048 lifting step. The folder testfiles/256/ has the files to perform a 256 lifting step.

The following command compiles the code ./buildpi_lift.sh

There is a define in pi_jpeg.c that turns off the debug

rm -f dwt.bin; ./pi_jpeg 0 1
0x0 0x22048 0x1022048
ptrs.fwd_inv = 0x2022060
reading r.bin
fwd lifting step only
w = 0x800 ptrs.inp_buf wptr = 0x22048 alt = 0x1022048 ptrs.fwd_inverse = 0x2022060
ptrs.fwd_inverse = 0x1
starting red dwt
finished ted dwt
octave
GNU Octave, version 4.4.1
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Octave was configured for "arm-unknown-linux-gnueabihf".

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Read https://www.octave.org/bugs.html to learn how to submit bug reports. For information about changes from previous versions, type 'news'.

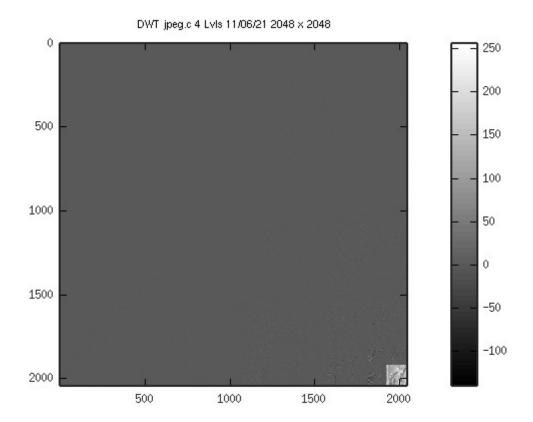
octave:1> rgb

The input was a pgm file 2048×2048

r.bin 2048 x 2048 11/06/21



y2=-4.11346 4 lvs 2048 x 2048 lifting step.



```
cp testfiles/256/* . ./buildpi_lift.sh devel@mypi3-20:~/pico-lifting $ rm -f dwt.bin ; ./pi_jpeg 0 1 0x0 0x22048 0x62048 ptrs.fwd_inv = 0xa2060 reading r.bin fwd lifting step only w = 0x100 ptrs.inp_buf wptr = 0x22048 alt = 0x62048 ptrs.fwd_inverse = 0xa2060 ptrs.fwd_inverse = 0x1 starting red dwt finished ted dwt
```

octave

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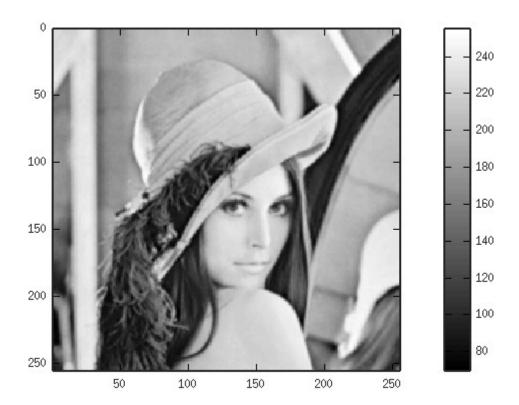
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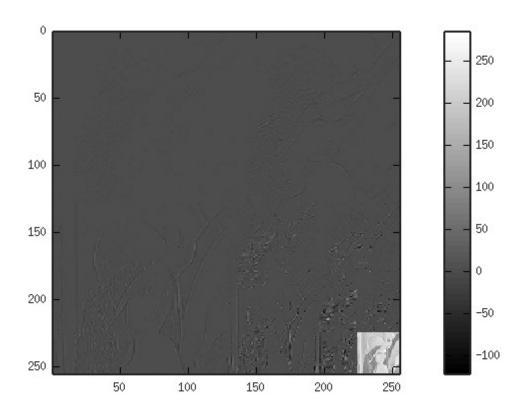
Read https://www.octave.org/bugs.html to learn how to submit bug reports. For information about changes from previous versions, type 'news'.

octave:1> rgb

The input was a pgm file 256 x 256



y2= 174,001 3 lvs 256 x 256 lifting step.



y2=-178.095