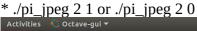
*********DRAFT******

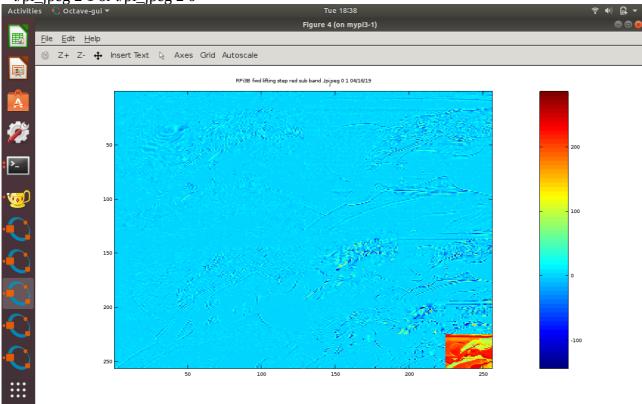
./pi_jpeg tests Rpi3B+ 04/16/19 **********DRAFT*******

To compile the code

pi@mypi3-1:~/testbuilds/catzip/sw/board \$./buildpi_lift.sh pi@mypi3-1:~/testbuilds/catzip/sw/board \$ cp pi_jpeg ../host

- /* First parameter is used to tell the program which sub band to use
- * 0 Red
- * 1 Green
- * 2 Blue
- * 2nd parameter is used to tell the program to compute the fwd lifting step only or fwd lifting then inv lifting step
- * 0 fwd lifting then inv lifting step
- * 1 fwd lifting step only
- * ./pi_jpeg 0 1 or ./pi_jpeg 0 0
- * ./pi_jpeg 1 1 or ./pi_jpeg 1 0

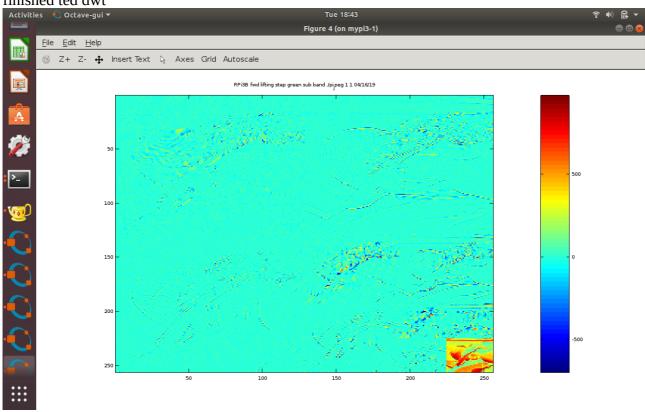




rm -f dwt.bin; ./pi_jpeg 0 1 buf red = 0x76d51008 $fwd_{inv} = 0x1b72008$ spliting red sub band fwd lifting step only

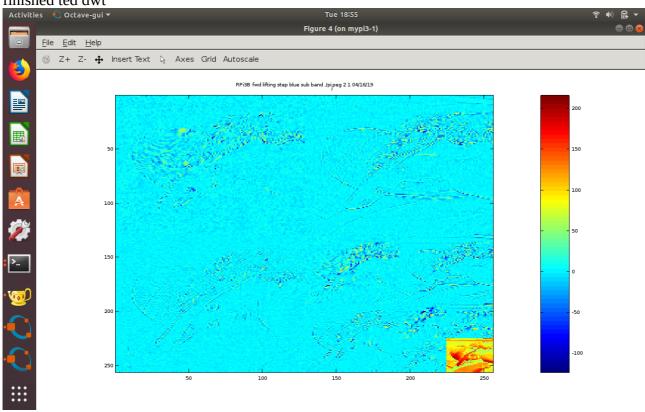
- x = 0xe22247c sp = 0xe2 z = 0xe2000000
- x = 0xde22083 sp = 0xde z = 0xde000000
- x = 0xe221475 sp = 0xe2 z = 0xe200000
- x = 0xe32207b sp = 0xe3 z = 0xe300000
- x = 0xa812055 sp = 0xa8 z = 0xa8000000

x = 0xb210c4c sp = 0xb2 z = 0xb2000000 $w = 0x100 \text{ buf_red wptr} = 0x76d51008 \text{ alt} = 0x76d91008 \text{ fwd_inverse} = 0x1b72008 \text{ fwd_inverse}$ = 0x1starting red dwt ip = 0x76d51008 tp = 0x76d91008in lifting in singlelift in singlelift back from singlelift in lifting in singlelift in singlelift back from singlelift in lifting in singlelift in singlelift back from singlelift testing test_fwd finished ted dwt



rm -f dwt.bin; ./pi_jpeg 1 1
buf_red = 0x76d15008
fwd_inv = 0x124b008
spliting green sub band
fwd lifting step only
x = 0xe22247c sp = 0x224 z = 0x22400
x = 0xde22083 sp = 0x220 z = 0x22000
x = 0xe221475 sp = 0x214 z = 0x21400
x = 0xe32207b sp = 0x220 z = 0x22000
x = 0xa812055 sp = 0x120 z = 0x12000

x = 0xb210c4c sp = 0x10c z = 0x10c00 $w = 0x100 \text{ buf_red wptr} = 0x76d15008 \text{ alt} = 0x76d55008 \text{ fwd_inverse} = 0x124b008 \text{ fwd_inverse}$ = 0x1starting red dwt ip = 0x76d15008 tp = 0x76d55008in lifting in singlelift in singlelift back from singlelift in lifting in singlelift in singlelift back from singlelift in lifting in singlelift in singlelift back from singlelift testing test_fwd finished ted dwt



rm -f dwt.bin; ./pi_jpeg 2 1
buf_red = 0x76d9d008
fwd_inv = 0xe64008
spliting blue sub band
fwd lifting step only
x = 0xe22247c sp = 0x7c z = 0x7c
x = 0xde22083 sp = 0x83 z = 0x83
x = 0xe221475 sp = 0x75 z = 0x75
x = 0xe32207b sp = 0x7b z = 0x7b

x = 0xa812055 sp = 0x55 z = 0x55

x = 0xb210c4c sp = 0x4c z = 0x4c $w = 0x100 \text{ buf_red wptr} = 0x76d9d008 \text{ alt} = 0x76ddd008 \text{ fwd_inverse} = 0xe64008 \text{ fwd_inverse} = 0xe64008 \text{ fwd_inverse}$ 0x1starting red dwt ip = 0x76d9d008 tp = 0x76ddd008in lifting in singlelift in singlelift back from singlelift in lifting in singlelift in singlelift back from singlelift in lifting in singlelift in singlelift back from singlelift testing test_fwd

finished ted dwt