Options
ID: top_block
Generate Options: QT GUI

Complexity: 1.92mbal

Variable
ID: samp_rate
Value: 20M

Variable
ID: fc
Value: 2.5G

Variable
ID: Bm
Value: 5M

QT GUI Time Sink
Name: Ramp to VCO
Number of Points: 40.96k
Sample Rate: 20M
Autoscale: Yes

Signal Source
Sample Rate: 20M
Waveform: Saw Tooth
Frequency: 1k
Amplitude: 1
Offset: 0

VCO (complex)
Sample Rate: 20M
Sensitivity: 31.416M
Amplitude: 1

QT GUI Frequency Sink
Name: Transmit Spectrum
FFT Size: 4.096k
Center Frequency (Hz): 0
Bandwidth (Hz): 20M

QT GUI Time Sink
Name: Transmit RF
Number of Points: 40.96k
Sample Rate: 20M
Autoscale: Yes

Throttle
Sample Rate: 20M

File Sink
File: /home/cjho/File_Chirp
Unbuffered: Off
Append file: Overwrite

UHD: USRP Sink
Samp Rate (Sps): 20M
Ch0: Center Freq (Hz): 2.5G
Ch0: Gain Value: 50
Ch0: Antenna: TX/RX
Ch0: Bandwidth (Hz): 20M
TSB tag name:

File Sink
File: out.bin
Unbuffered: Off
Append file: Overwrite

QT GUI Time Sink
Name: Receive baseband
Number of Points: 1.024k
Sample Rate: 20M
Autoscale: Yes

QT GUI Frequency Sink
Name: Receive Spectrum
FFT Size: 1.024k
Center Frequency (Hz): 0
Bandwidth (Hz): 20M

Multiply Conjugate

Delay
Delay: 5k

UHD: USRP Source
Samp Rate (Sps): 20M
Ch0: Center Freq (Hz): 2.5G
Ch0: Gain Value: 50
Ch0: Antenna: RX2
Ch0: Bandwidth (Hz): 20M

Rational Resampler
Interpolation: 6
Decimation: 1.25k
Taps:
Fractional BW: 0

QT GUI Time Sink
Number of Points: 1.024k
Sample Rate: 20M
Autoscale: No

Low Pass Filter
Decimation: 1
Gain: 1
Sample Rate: 20M
Cutoff Freq: 6M
Transition Width: 1k
Window: Blackman
Beta: 6.76

QT GUI Frequency Sink
FFT Size: 1.024k
Center Frequency (Hz): 0
Bandwidth (Hz): 20M

Audio Sink
Sample Rate: 48KHz

Complex To Float

– Performing timer loopback test… pass
Using Volk machine: avx2_64_mmx_orc
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>>> Done