

**Options**  
**Title:** Simple Test  
**Author:** aruncs  
**Output Language:** Python  
**Generate Options:** QT GUI

Complexity: 596ubal

**QT GUI Range**  
**ID:** delay\_1  
**Label:** Delay  
**Default Value:** 75  
**Start:** 0  
**Stop:** 1k  
**Step:** 1

**Variable**  
**ID:** N  
**Value:** 4

**Variable**  
**ID:** fc  
**Value:** 8k

**Variable**  
**ID:** lo  
**Value:** 2.4G

**Import**  
**Import:** np

**Variable**  
**ID:** samp\_rate  
**Value:** 66k

**Random Source**  
**Minimum:** 0  
**Maximum:** 4  
**Num Samples:** 1k  
**Repeat:** Yes

**Virtual Source**  
**Stream ID:** baseband

**Signal Source**  
**Sample Rate:** 66k  
**Waveform:** Cosine  
**Frequency:** 2.4G  
**Amplitude:** 1  
**Offset:** 0  
**Initial Phase (Radians):** 0

**Virtual Source**  
**Stream ID:** passband

**PlutoSDR Sink**  
**IIO context URI:** 192.168.2.1  
**LO Frequency:** 2.4G  
**Sample Rate:** 66k  
**Buffer size:** 32.768k  
**Cyclic:** False  
**Attenuation TX1 (dB):** 10  
**Filter Configuration:** Auto  
**RF Bandwidth (Hz):** 20M

**PlutoSDR Source**  
**IIO context URI:** 192.168.2.1  
**LO Frequency:** 2.4G  
**Sample Rate:** 66k  
**Buffer size:** 32.768k  
**Quadrature:** True  
**RF DC Correction:** True  
**BB DC Correction:** True  
**Gain Mode (RX1):** Fast Attack  
**Filter Configuration:** Auto  
**RF Bandwidth (Hz):** 20M

**Chunks to Symbols**  
**Symbol Table:** 1, 6...7e-16-1j  
**Dimension:** 1

**Interpolating FIR Filter**  
**Interpolation:** 66  
**Taps:** np.ones(samp\_rate //...

**QT GUI Time Sink**  
**Name:** Complex Tx  
**Number of Points:** 1.024k  
**Sample Rate:** 66k  
**Autoscale:** Yes

**QT GUI Time Sink**  
**Name:** Real Tx  
**Number of Points:** 1.024k  
**Sample Rate:** 66k  
**Autoscale:** Yes

**QT GUI Time Sink**  
**Name:** Seperate  
**Number of Points:** 1.024k  
**Sample Rate:** 66k  
**Autoscale:** Yes

**QT GUI Time Sink**  
**Number of Points:** 1.024k  
**Sample Rate:** 66k  
**Autoscale:** No

**QT GUI Frequency Sink**  
**FFT Size:** 1024  
**Center Frequency (Hz):** 2.4G  
**Bandwidth (Hz):** 66k

