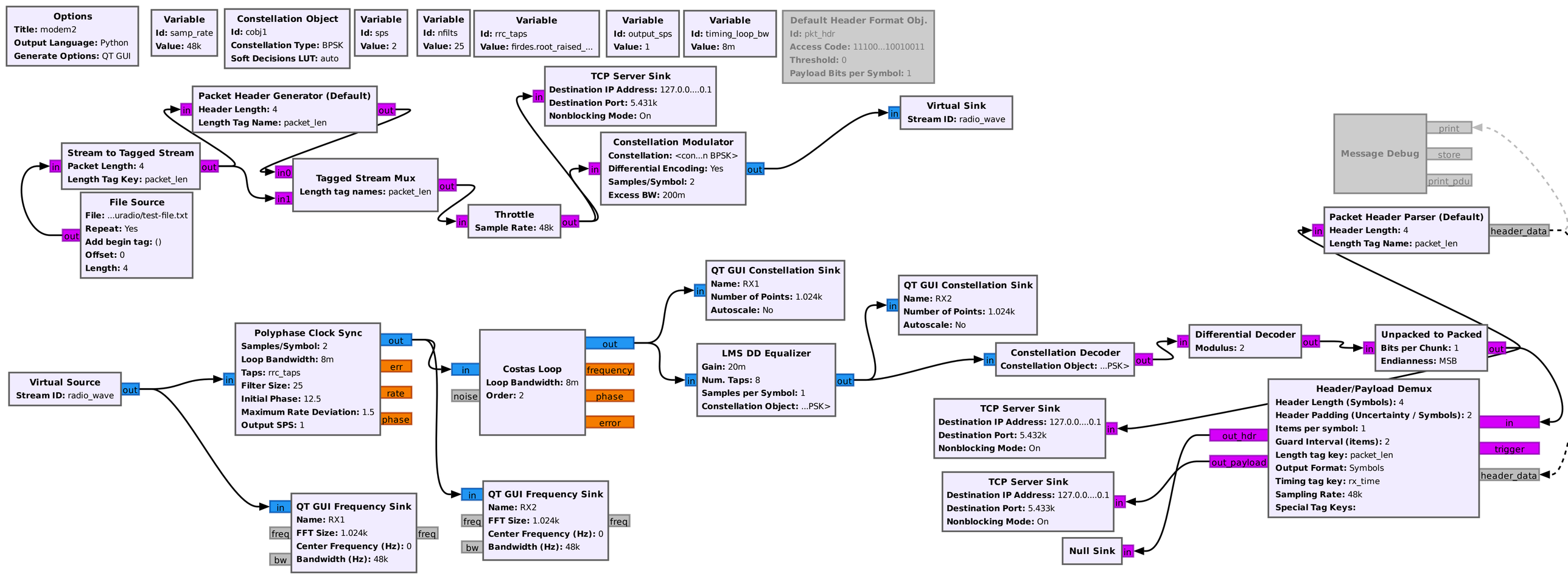
Options
Title: modem2
Output Language: Python
Generate Options: QT GUI
Variable
Id: samp_rate
Value: 48k
Constellation Object
Id: cobj1
Constellation Type: BPSK
Soft Decisions LUT: auto
Variable
Id: sps
Value: 2
Variable
Id: nfilts
Value: 25
Variable
Id: rrc_taps
Value: firdes.root_raised_...
Variable
Id: output_sps
Value: 1
Variable
Id: timing_loop_bw
Value: 8m
Default Header Format Obj.
Id: pkt_hdr
Access Code: 11100...10010011
Threshold: 0
Payload Bits per Symbol: 1
Packet Header Generator (Default)
Header Length: 4
Length Tag Name: packet_len
TCP Server Sink
Destination IP Address: 127.0.0....0.1
Destination Port: 5.431k
Nonblocking Mode: On
Virtual Sink
Stream ID: radio_wave
Stream to Tagged Stream
Packet Length: 4
Length Tag Key: packet_len
Tagged Stream Mux
Length tag names: packet_len
Constellation Modulator
Constellation: <con...n BPSK>
Differential Encoding: Yes
Samples/Symbol: 2
Excess BW: 200m
File Source
File: ...uradio/test-file.txt
Repeat: Yes
Add begin tag: ()
Offset: 0
Length: 4
Throttle
Sample Rate: 48k
Message Debug
print
store
print_pdu
Packet Header Parser (Default)
Header Length: 4
Length Tag Name: packet_len
header_data
QT GUI Constellation Sink
Name: RX1
Number of Points: 1.024k
Autoscale: No
QT GUI Constellation Sink
Name: RX2
Number of Points: 1.024k
Autoscale: No
Polyphase Clock Sync
Samples/Symbol: 2
Loop Bandwidth: 8m
Taps: rrc_taps
Filter Size: 25
Initial Phase: 12.5
Maximum Rate Deviation: 1.5
Output SPS: 1
Costas Loop
Loop Bandwidth: 8m
Order: 2
LMS DD Equalizer
Gain: 20m
Num. Taps: 8
Samples per Symbol: 1
Constellation Object: ...PSK>
Constellation Decoder
Constellation Object: ...PSK>
Differential Decoder
Modulus: 2
Unpacked to Packed
Bits per Chunk: 1
Endianness: MSB
Virtual Source
Stream ID: radio_wave
Header/Payload Demux
Header Length (Symbols): 4
Header Padding (Uncertainty / Symbols): 2
Items per symbol: 1
Guard Interval (items): 2
Length tag key: packet_len
Output Format: Symbols
Timing tag key: rx_time
Sampling Rate: 48k
Special Tag Keys:
TCP Server Sink
Destination IP Address: 127.0.0....0.1
Destination Port: 5.432k
Nonblocking Mode: On
TCP Server Sink
Destination IP Address: 127.0.0....0.1
Destination Port: 5.433k
Nonblocking Mode: On
Null Sink
QT GUI Frequency Sink
Name: RX1
FFT Size: 1.024k
Center Frequency (Hz): 0
Bandwidth (Hz): 48k
QT GUI Frequency Sink
Name: RX2
FFT Size: 1.024k
Center Frequency (Hz): 0
Bandwidth (Hz): 48k