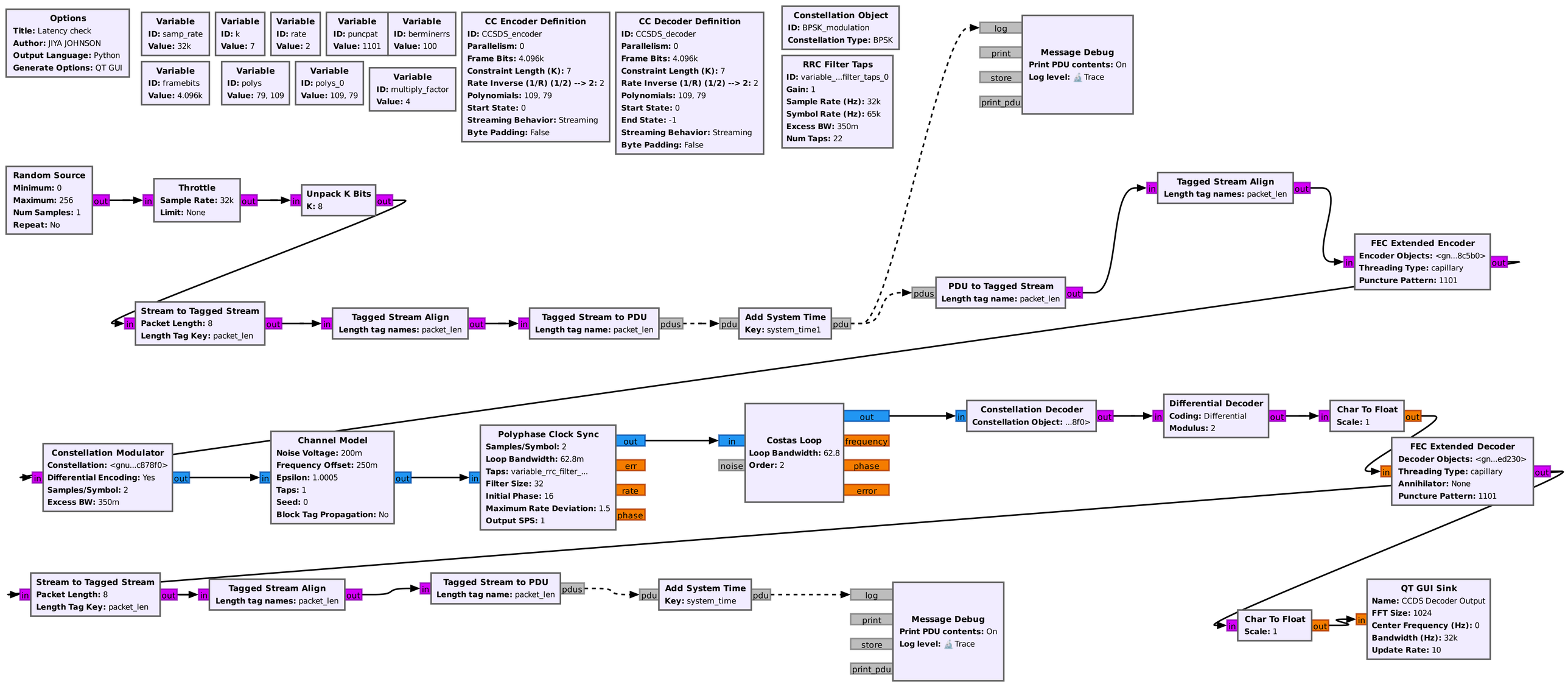
Options
Title: Latency check
Author: JIYA JOHNSON
Output Language: Python
Generate Options: QT GUI
Variable
ID: samp_rate
Value: 32k
Variable
ID: k
Value: 7
Variable
ID: rate
Value: 2
Variable
ID: puncpat
Value: 1101
Variable
ID: berminerrs
Value: 100
Variable
ID: framebits
Value: 4.096k
Variable
ID: polys
Value: 79, 109
Variable
ID: polys_0
Value: 109, 79
Variable
ID: multiply_factor
Value: 4
CC Encoder Definition
ID: CCSDS_encoder
Parallelism: 0
Frame Bits: 4.096k
Constraint Length (K): 7
Rate Inverse (1/R) (1/2) --> 2: 2
Polynomials: 109, 79
Start State: 0
Streaming Behavior: Streaming
Byte Padding: False
CC Decoder Definition
ID: CCSDS_decoder
Parallelism: 0
Frame Bits: 4.096k
Constraint Length (K): 7
Rate Inverse (1/R) (1/2) --> 2: 2
Polynomials: 109, 79
Start State: 0
End State: -1
Streaming Behavior: Streaming
Byte Padding: False
Constellation Object
ID: BPSK_modulation
Constellation Type: BPSK
RRC Filter Taps
ID: variable_...filter_taps_0
Gain: 1
Sample Rate (Hz): 32k
Symbol Rate (Hz): 65k
Excess BW: 350m
Num Taps: 22
log
print
store
print_pdu
Message Debug
Print PDU contents: On
Log level: Trace
Random Source
Minimum: 0
Maximum: 256
Num Samples: 1
Repeat: No
out
in
Throttle
Sample Rate: 32k
Limit: None
Unpack K Bits
K: 8
Stream to Tagged Stream
Packet Length: 8
Length Tag Key: packet_len
Tagged Stream Align
Length tag names: packet_len
Tagged Stream to PDU
Length tag name: packet_len
pdus
pdu
Add System Time
Key: system_time1
PDU to Tagged Stream
Length tag name: packet_len
Tagged Stream Align
Length tag names: packet_len
FEC Extended Encoder
Encoder Objects: <gn...8c5b0>
Threading Type: capillary
Puncture Pattern: 1101
Constellation Modulator
Constellation: <gnu...c878f0>
Differential Encoding: Yes
Samples/Symbol: 2
Excess BW: 350m
Channel Model
Noise Voltage: 200m
Frequency Offset: 250m
Epsilon: 1.0005
Taps: 1
Seed: 0
Block Tag Propagation: No
Polyphase Clock Sync
Samples/Symbol: 2
Loop Bandwidth: 62.8m
Taps: variable_rrc_filter_...
Filter Size: 32
Initial Phase: 16
Maximum Rate Deviation: 1.5
Output SPS: 1
err
rate
phase
noise
Costas Loop
Loop Bandwidth: 62.8
Order: 2
frequency
phase
error
Constellation Decoder
Constellation Object: ...8f0>
Differential Decoder
Coding: Differential
Modulus: 2
Char To Float
Scale: 1
FEC Extended Decoder
Decoder Objects: <gn...ed230>
Threading Type: capillary
Annihilator: None
Puncture Pattern: 1101
Stream to Tagged Stream
Packet Length: 8
Length Tag Key: packet_len
Tagged Stream Align
Length tag names: packet_len
Tagged Stream to PDU
Length tag name: packet_len
Add System Time
Key: system_time
Message Debug
Print PDU contents: On
Log level: Trace
Char To Float
Scale: 1
QT GUI Sink
Name: CCDS Decoder Output
FFT Size: 1024
Center Frequency (Hz): 0
Bandwidth (Hz): 32k
Update Rate: 10