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1 #!/usr/bin/env python
2 #####
3 # Gnuradio Python Flow Graph
4 # Title: Tcp Server
5 # Generated: Sun Mar 19 13:47:53 2017
6 #####
7
8 from gnuradio import eng_notation
9 from gnuradio import gr
10 from gnuradio import wxgui
11 from gnuradio.eng_option import eng_option
12 from gnuradio.filter import firdes
13 from gnuradio.wxgui import scopesink2
14 from grc.gnuradio import blks2 as grc.blks2
15 from grc.gnuradio import wxgui as grc.wxgui
16 from optparse import OptionParser
17 import wx
18
19 class tcp_server(grc.wxgui.top_block_gui):
20
21     def __init__(self):
22         grc.wxgui.top_block_gui.__init__(self, title="Tcp Server")
23
24         _icon_path = "/usr/share/icons/hicolor/32x32/apps/gnuradio-grc.png"
25         self.SetIcon(wx.Icon(_icon_path, wx.BITMAP_TYPE_ANY))
26
27         #####
28         # Variables
29         self.samp_rate = samp_rate = 32000
30
31         #####
32         # Blocks
33         self.wxgui_scopesink2_0 = scopesink2.scope_sink_f(
34             self.GetWin(),
35             title="Scope Plot",
36             sample_rate=samp_rate,
37             v_scale=0,
38             v_offset=0,
39             t_scale=0,
40             ac_couple=False,

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42             xy_mode=False,
43             num_inputs=1,
44             trig_mode=wxgui.TRIG_MODE_AUTO,
45             y_axis_label="Counts",
46         )
47         self.Add(self.wxgui_scopesink2_0.win)
48         self.blks2_tcp_source_0 = grc.blks2.tcp_source(
49             itemsize=gr.sizeof_float+1,
50             addr="0.0.0.0",
51             port=12345,
52             server=True,
53         )
54
55         #####
56         # Connections
57         self.connect((self.blks2_tcp_source_0, 0), (self.
58             wxgui_scopesink2_0, 0))
59
60     def get_samp_rate(self):
61         return self.samp_rate
62
63     def set_samp_rate(self, samp_rate):
64         self.samp_rate = samp_rate
65         self.wxgui_scopesink2_0.set_sample_rate(self.samp_rate)
66
67 if __name__ == '__main__':
68     import ctypes
69     import sys
70     if sys.platform.startswith('linux'):
71         try:
72             x11 = ctypes.cdll.LoadLibrary('libX11.so')
73             x11.XInitThreads()
74         except:
75             print "Warning: failed to XInitThreads()"
76     parser = OptionParser(option_class=eng_option, usage="%prog:
77         [options]")
78     (options, args) = parser.parse_args()
79     tb = tcp_server()
80     tb.Start(True)
81     tb.Wait()

```