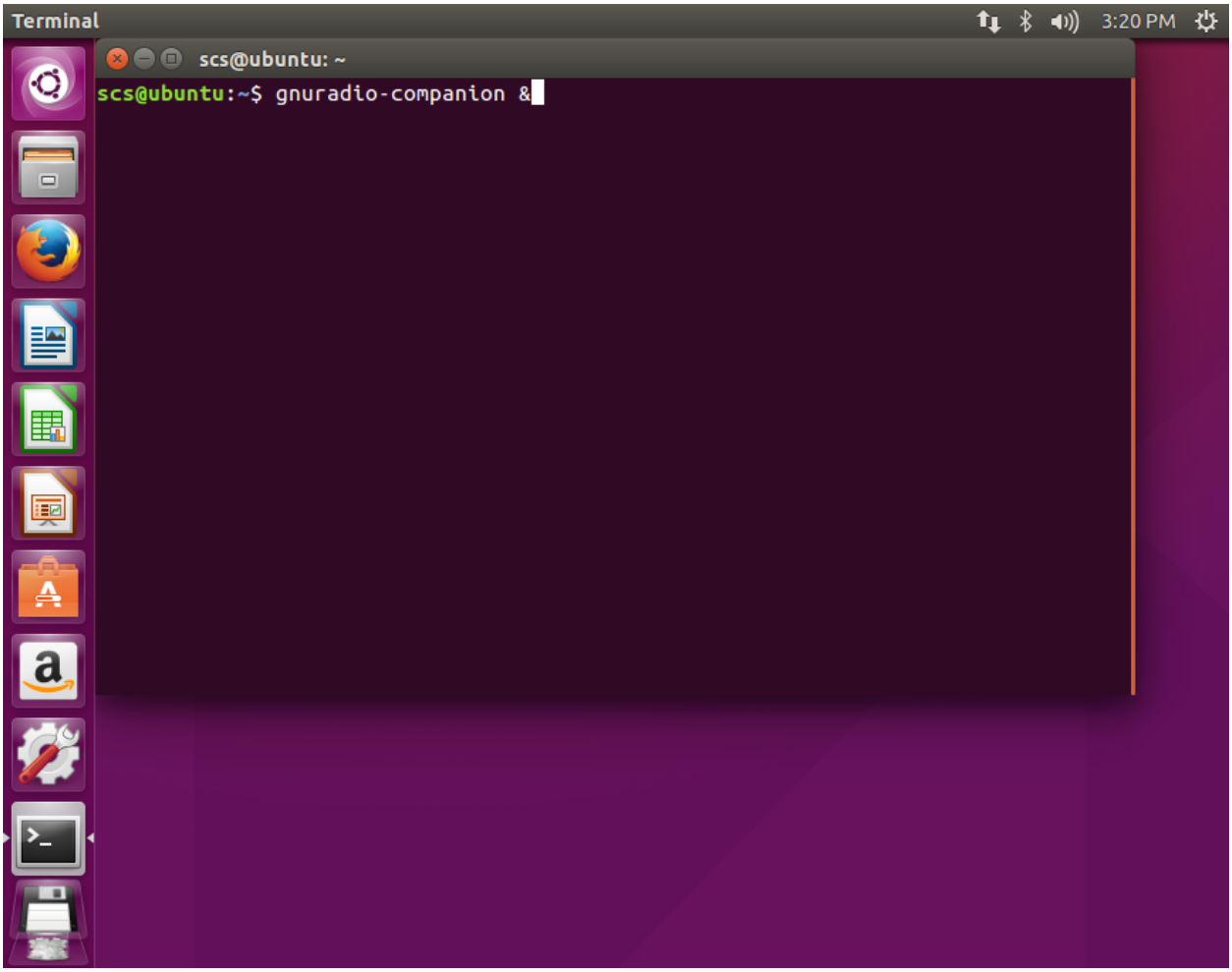
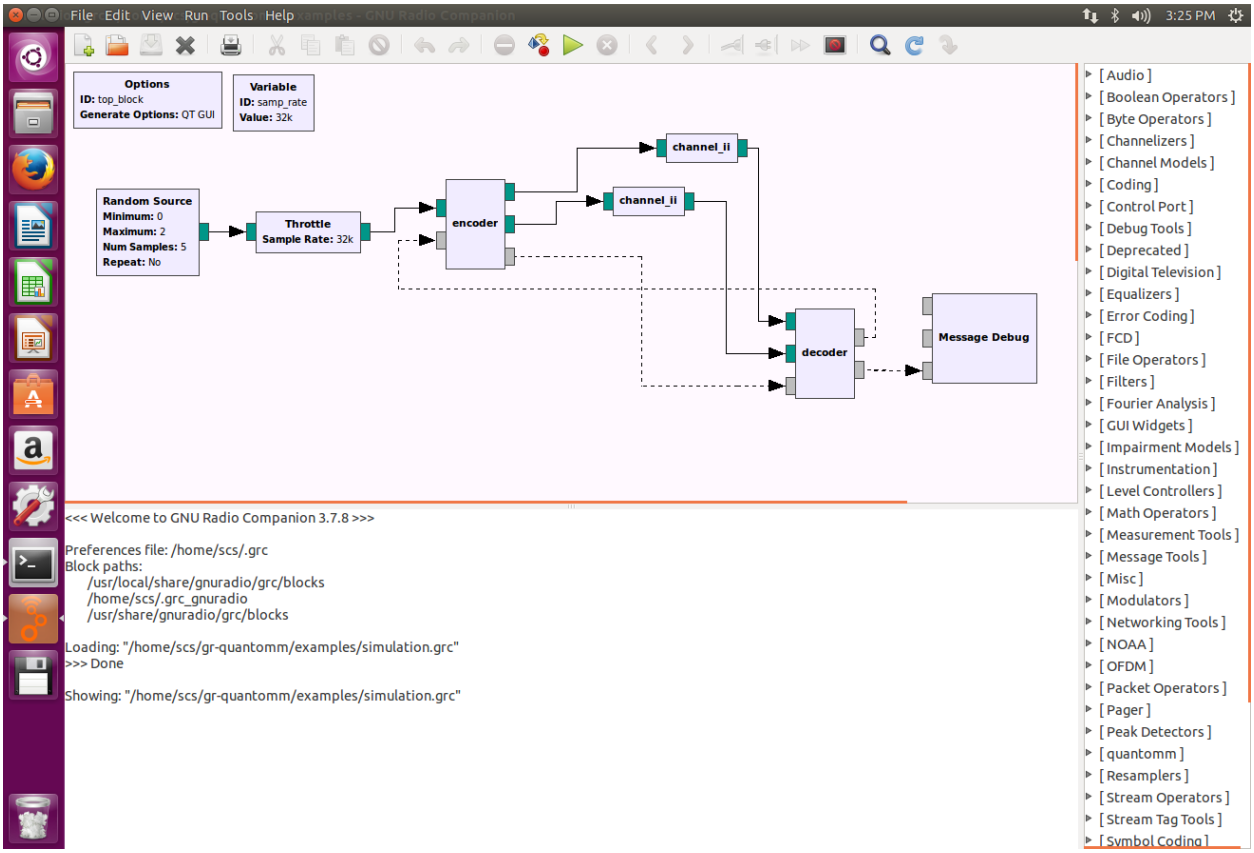
Running the GNU Radio Example

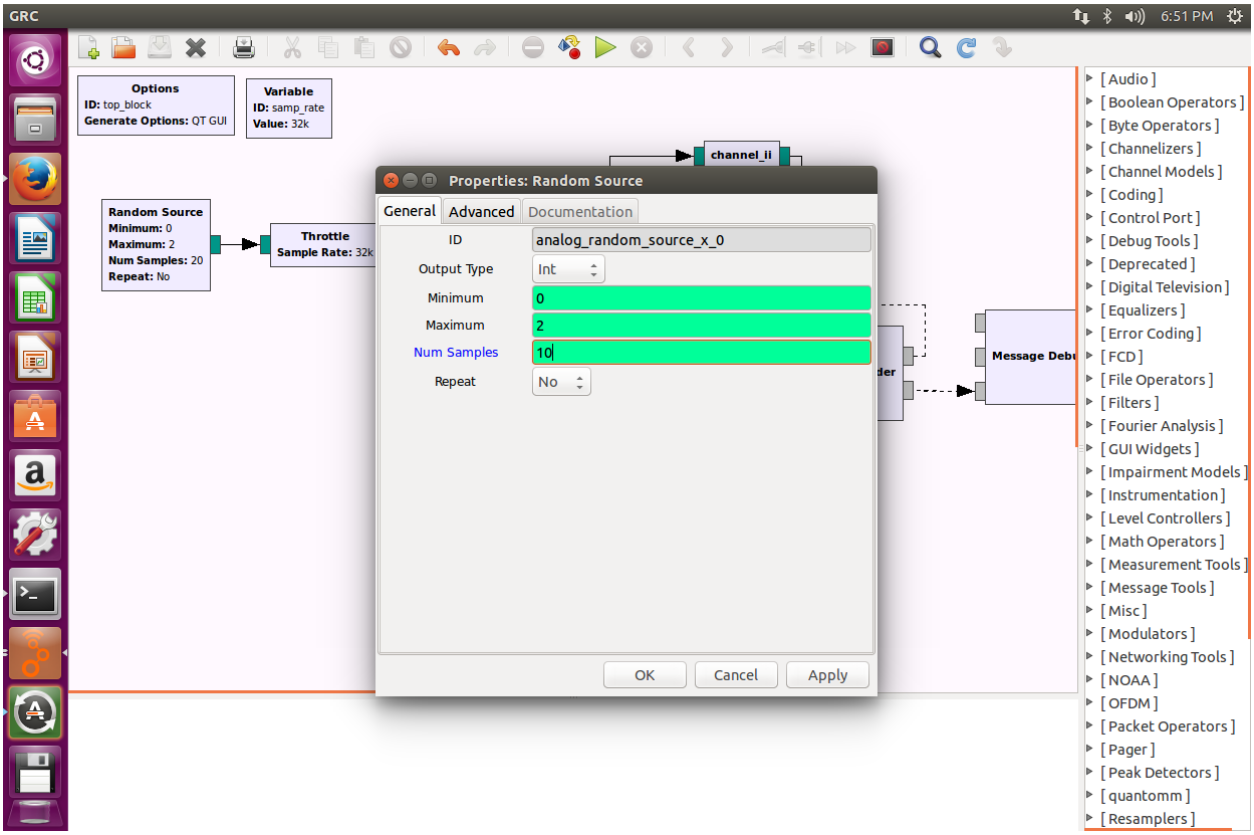
Start GNU Radio companion



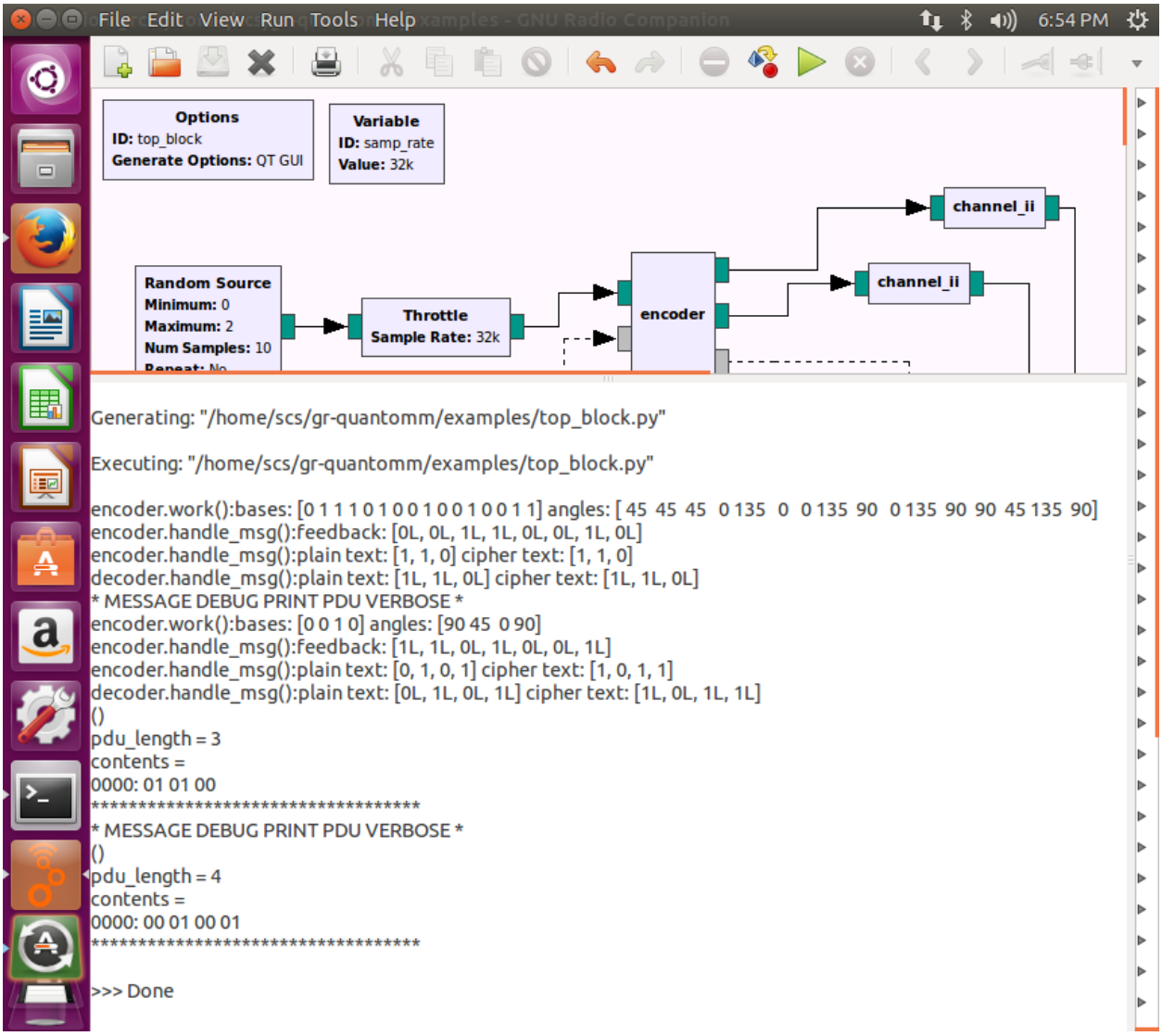
Within GNU Radio companion, load flow graph `gr-quantomm/examples/simulation.grc`:



Double click Random Source and configure `Num Samples`:



Execute the flow graph:



Running outside gnuradio-companion

scs@ubuntu:~/gr-quantomm/examples$ **python top_block.py**

encoder.work():bases: [0 1 1 0 0 1 1 1 0 1 1 1 0 1 1 1]

angles: [45 135 90 0 45 45 45 90 45 45 135 90 45 45 135 135]

encoder.handle_msg():feedback: [0L, 0L, 0L, 0L, 0L, 1L, 1L, 0L]

encoder.handle_msg():plain text: [1, 1] cipher text: [1, 1]

decoder.handle_msg():plain text: [1L, 1L] cipher text: [1L, 1L]

* MESSAGE DEBUG PRINT PDU VERBOSE *

()

pdu_length = 2

contents =

0000: 01 01

****

encoder.work():bases: [1 0 0 0] angles: [90 0 0 0]

encoder.handle_msg():feedback: [1L, 0L, 1L, 1L, 0L, 1L, 0L, 1L]

encoder.handle_msg():plain text: [1, 1, 0, 1, 0] cipher text: [0, 1, 1, 1, 1]

decoder.handle_msg():plain text: [1L, 1L, 0L, 1L, 0L] cipher text: [0L, 1L, 1L, 1L, 1L]

* MESSAGE DEBUG PRINT PDU VERBOSE *

()

pdu_length = 5

contents =

0000: 01 01 00 01 00

****

Building

```
cd gr-quantomm/build

cmake ../

make

sudo make install
```

Reload Blocks