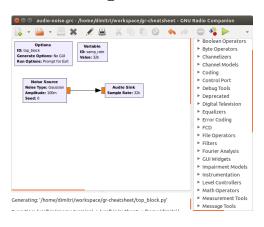


## 1 Installation

#### gnuradio-install.sh

# 2 Getting Started



## top\_block.py

# 3 Gnu Radio Basics

### 3.1 Create Hierarchical Block

#### inputLayer.py

## 3.2 Create Python Block

#### vector\_sum\_vff.py

```
import numpy
from gnuradio import gr

class vector-sum_vff(gr.sync_block):
    def --init--(self, vlen):
        self.vlen = vlen
        gr.sync_block.--init--(self,
            name="vector.sum_vff",
            in.sig =[(numpy.float32, vlen)],
            out_sig =[(numpy.float32, vlen)])

    def work(self,input_items,output_items):
        in0 = input.items[0]
        out = output.items[0]
        out = lnumpy.sum(in0[0:1], axis=1)
        return 1
```

### 3.3 Post-Processing

### read\_binary\_file.m

```
% Open recorded cfile
f = fopen ('filename.cfile', 'rb');
% Activate recorded data type
%type = 'int'; % For int values
%type = 'char'; % For char values
%type = 'short'; % For cshort values
type = 'float'; % For float/complex values

type = 'float'; % For float/complex values

v = fread (f, Inf, type);
% Activate for complex data type:
%v = v(1:2:end)+v(2:2:end)*j;
% Close cfile
fclose (f);
```