ThereOHM

Instrument_Selection

- pd Violin
- pd Guitar
- pd HevyMetal
- pd Hammond Organ
- pd Xylophone

Start_Options

(refer_to_help)

- Running_on_x86_x64?
- Keyboard_Connected?
- Stompbox_Connected?
- RUN

Drum_Machine

Run

Speed 200

Pattern-Manager

Save Clear Load

BD SD HH OH WB CB

BD: Volume Pitch Attack Decay

SD: Volume Length

HH_OH: Volume Pitch

WB_CB: Volume Volume

volume

Configuration_&_Info

pd help

pd shortcut_keys

pd Calibrate_Antennas

Background_Sound

Open_File Start Resume Stop/_Pause volume

Local_mp3_Recorder

path: /home/pi/PD-Workspace

filename: ThereOhm [.mp3]

Start_Recording Stop_Recording

Bytes_recorded 0

Webradio_mp3_Streamer

Server configuration

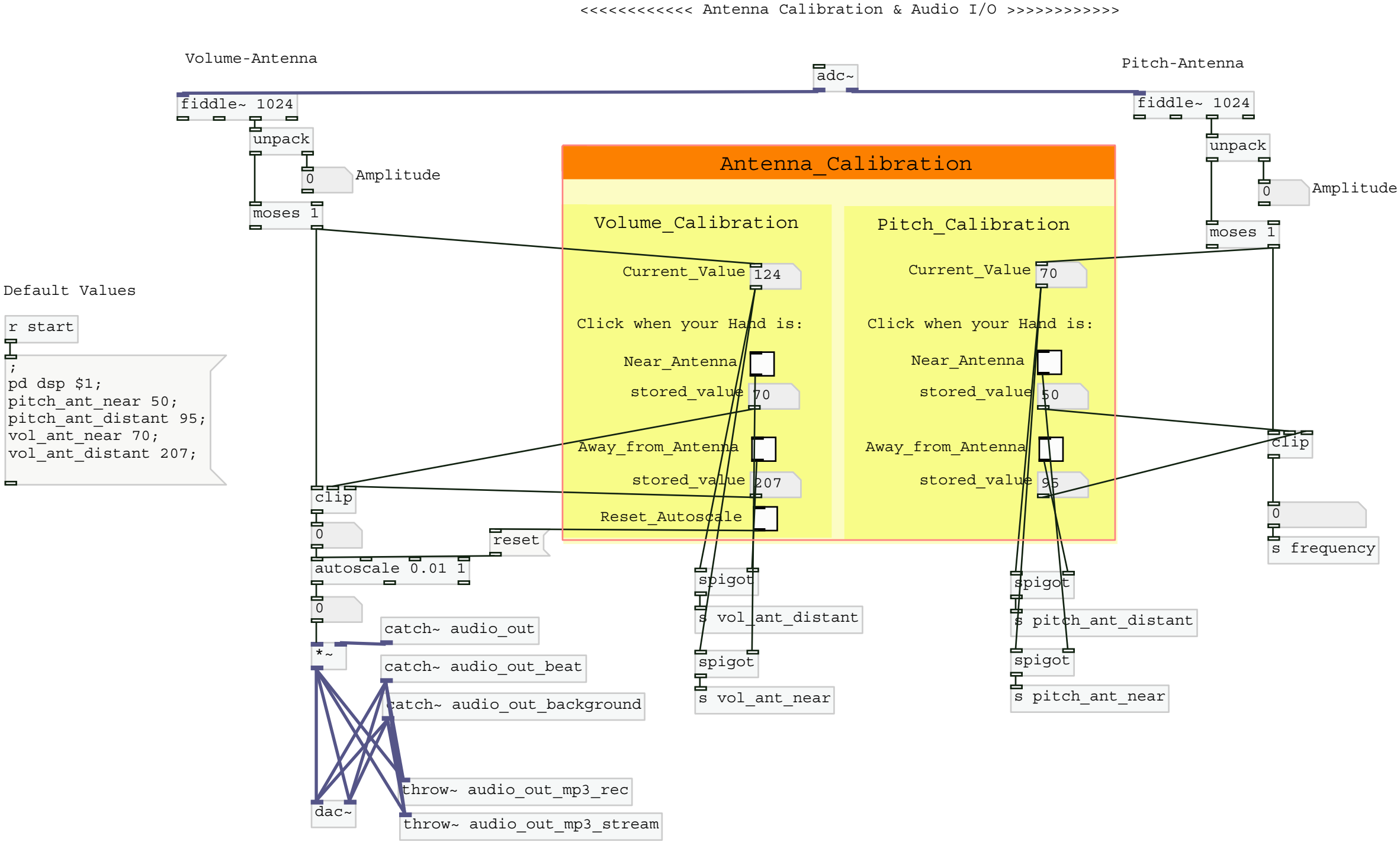
server: 176.31.120.92

port: 6808

password: Theremin1896

server type : shoutcast icecast icecast2

Start_Streaming Status Stop_Streaming


<<<<<<<<<<<< Antenna Calibration & Audio I/O >>>>>>>>>>>>
Volume-Antenna
adc~
Pitch-Antenna
fiddle~ 1024
unpack
0
Amplitude
moses 1
Antenna_Calibration
Volume_Calibration
Pitch_Calibration
Current_Value
124
70
Click when your Hand is:
Near_Antenna
stored_value
70
50
Away_from_Antenna
207
95
Reset_Autoscale
Default Values
r start
;
pd dsp $1;
pitch_ant_near 50;
pitch_ant_distant 95;
vol_ant_near 70;
vol_ant_distant 207;
clip
reset
autoscale 0.01 1
s frequency
spigot
s vol_ant_distant
s vol_ant_near
s pitch_ant_distant
s pitch_ant_near
catch~ audio_out
*~
catch~ audio_out_beat
catch~ audio_out_background
throw~ audio_out_mp3_rec
throw~ audio_out_mp3_stream
dac~

:_Definition_of_Shortcut_Keyboard_Keys

:help_-_Keyboard_Keys_to_Numbers_Assignment

Numbers:

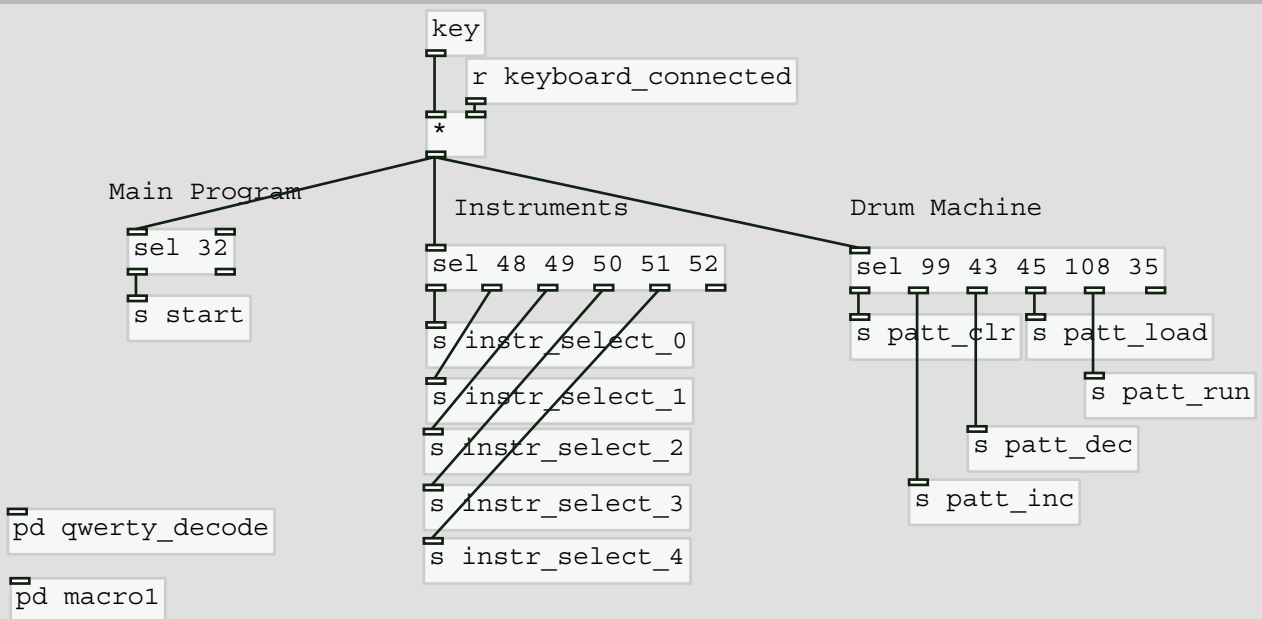
0 = 48
1 = 49
...
9 = 57

Letters:

a = 97
b = 98
...
z = 122

Special Characters:

Space = 32
# = 35
+ = 43
, = 44
- = 45
. = 46



<<<<<< Currently Configured >>>>>>

space bar - starts/stops program

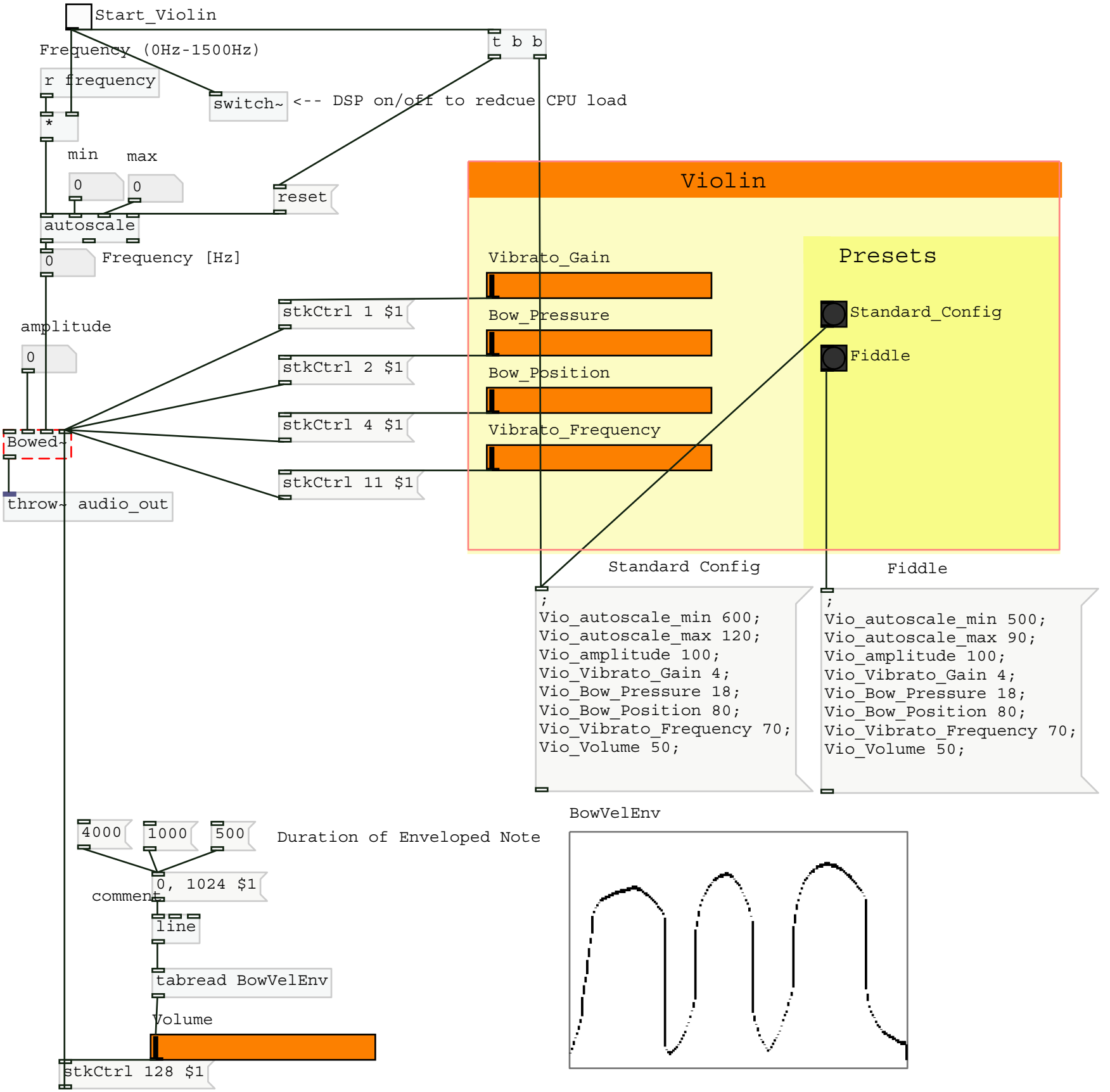
Numbers 1-4 - Select instrument

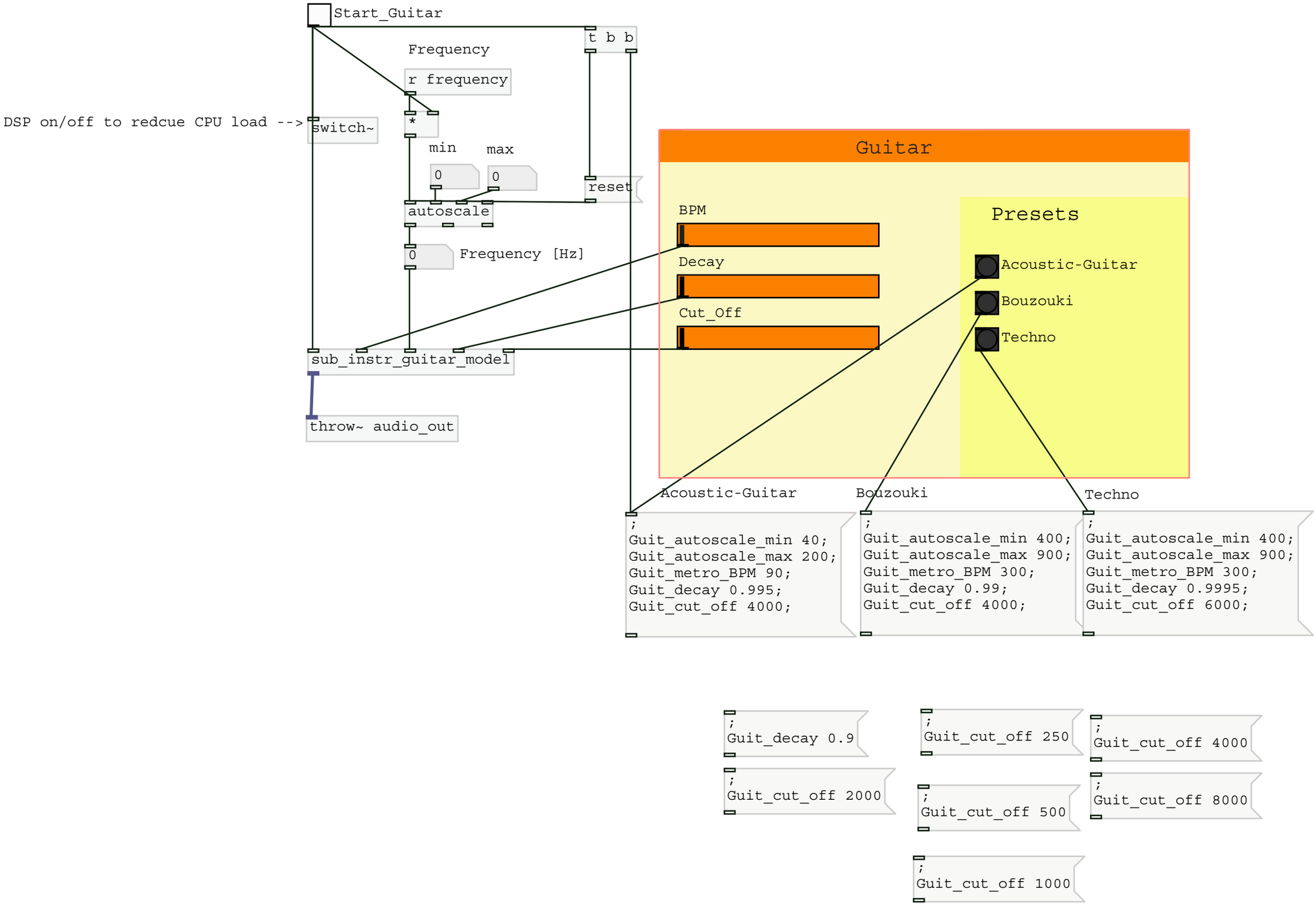
- starts/stops Drum Machine

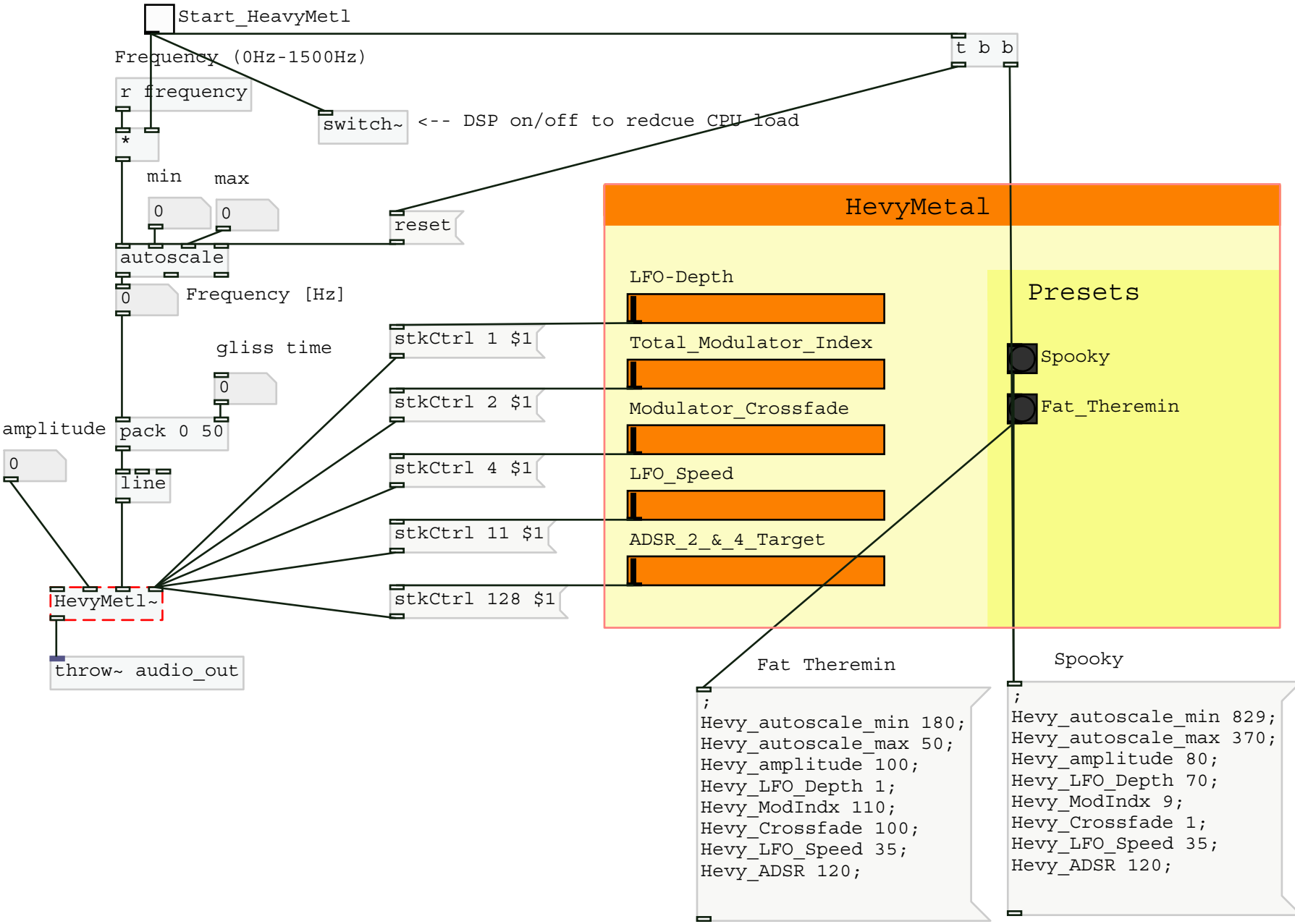
+/- - increment/decrement Drum Machine pattern

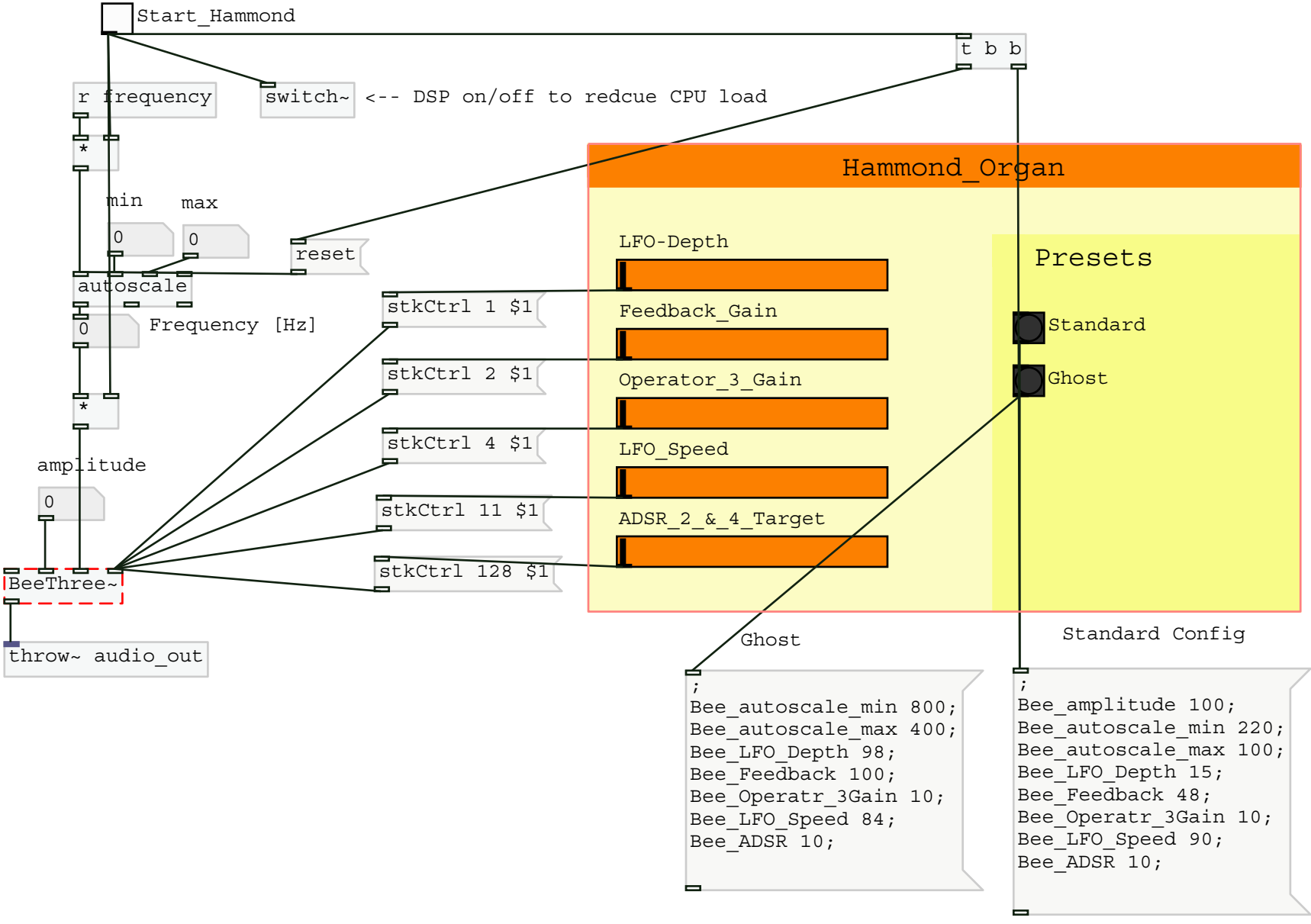
l - loads Drum Machine pattern

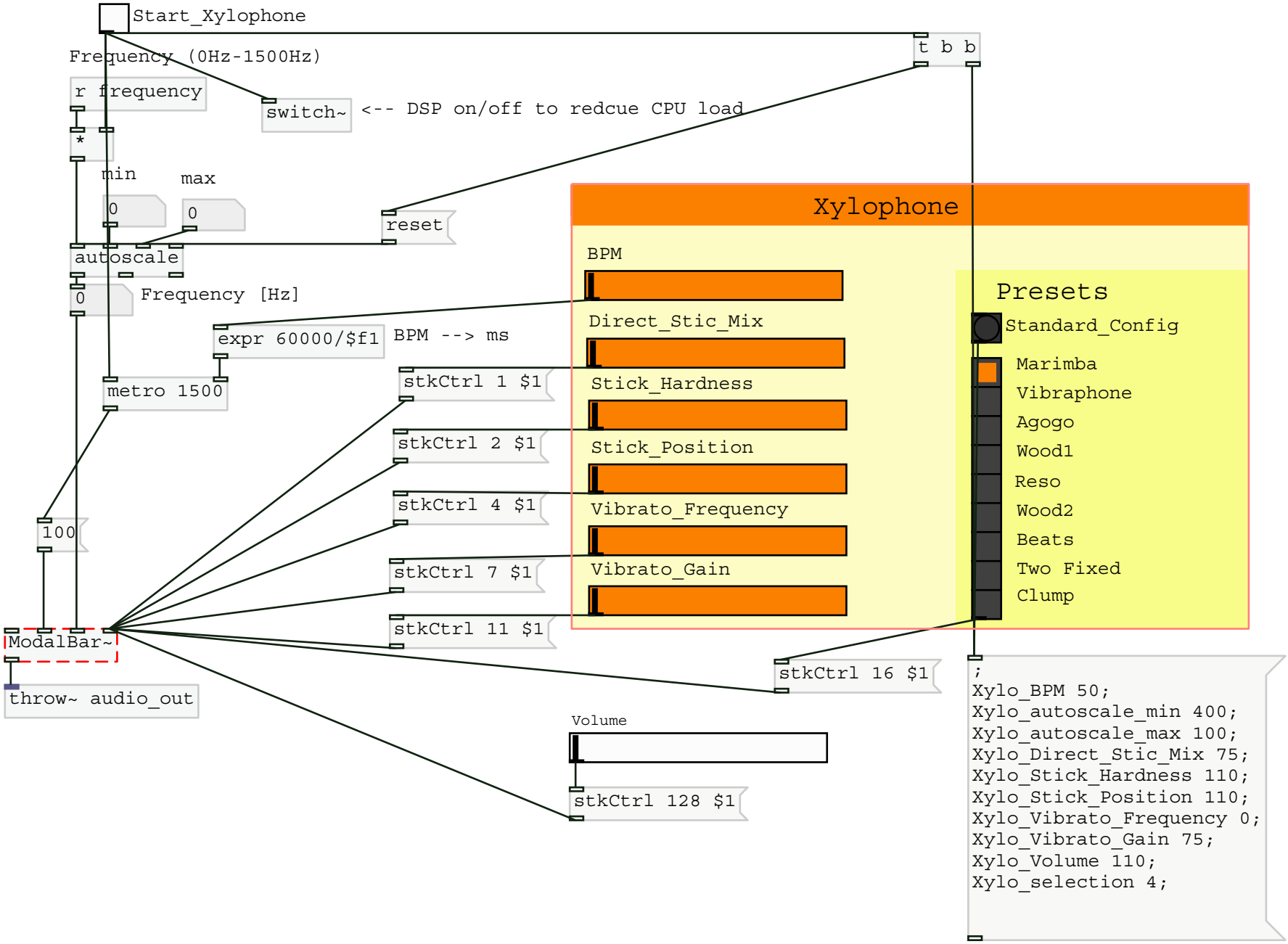
c - clears current Drum Machine pattern


Start_Violin
Frequency (0Hz-1500Hz)
r frequency
*
switch~
<-- DSP on/off to redcue CPU load
t b b
min
max
0
0
reset
autoscale
0
Frequency [Hz]
amplitude
0
Bowed~
throw~ audio_out
stkCtrl 1 $1
stkCtrl 2 $1
stkCtrl 4 $1
stkCtrl 11 $1
Violin
Vibrato_Gain
Bow_Pressure
Bow_Position
Vibrato_Frequency
Presets
Standard_Config
Fiddle
Standard Config
;
Vio_autoscale_min 600;
Vio_autoscale_max 120;
Vio_amplitude 100;
Vio_Vibrato_Gain 4;
Vio_Bow_Pressure 18;
Vio_Bow_Position 80;
Vio_Vibrato_Frequency 70;
Vio_Volume 50;
Fiddle
;
Vio_autoscale_min 500;
Vio_autoscale_max 90;
Vio_amplitude 100;
Vio_Vibrato_Gain 4;
Vio_Bow_Pressure 18;
Vio_Bow_Position 80;
Vio_Vibrato_Frequency 70;
Vio_Volume 50;
4000
1000
500
Duration of Enveloped Note
0, 1024 $1
comment
line
tabread BowVelEnv
Volume
stkCtrl 128 $1
BowVelEnv


Start_Guitar
t b b
Frequency
r frequency
DSP on/off to redcue CPU load -->
switch~
*
min
max
0
0
reset
autoscale
0
Frequency [Hz]
Guitar
BPM
Decay
Cut_Off
Presets
Acoustic-Guitar
Bouzouki
Techno
sub_instr_guitar_model
throw~ audio_out
Acoustic-Guitar
Bouzouki
Techno
;
Guit_autoscale_min 40;
Guit_autoscale_max 200;
Guit_metro_BPM 90;
Guit_decay 0.995;
Guit_cut_off 4000;
;
Guit_autoscale_min 400;
Guit_autoscale_max 900;
Guit_metro_BPM 300;
Guit_decay 0.99;
Guit_cut_off 4000;
;
Guit_autoscale_min 400;
Guit_autoscale_max 900;
Guit_metro_BPM 300;
Guit_decay 0.9995;
Guit_cut_off 6000;
;
Guit_decay 0.9
;
Guit_cut_off 2000
;
Guit_cut_off 250
;
Guit_cut_off 500
;
Guit_cut_off 1000
;
Guit_cut_off 4000
;
Guit_cut_off 8000


Start_HeavyMetl
Frequency (0Hz-1500Hz)
r frequency
*
switch~
<-- DSP on/off to redcue CPU load
t b b
min
max
0
0
reset
autoscale
0
Frequency [Hz]
gliss time
0
pack 0 50
amplitude
0
line
HevyMetl~
throw~ audio_out
stkCtrl 1 $1
stkCtrl 2 $1
stkCtrl 4 $1
stkCtrl 11 $1
stkCtrl 128 $1
HevyMetal
LFO-Depth
Total_Modulator_Index
Modulator_Crossfade
LFO_Speed
ADSR_2_&_4_Target
Presets
Spooky
Fat_Theremin
Fat Theremin
;
Hevy_autoscale_min 180;
Hevy_autoscale_max 50;
Hevy_amplitude 100;
Hevy_LFO_Depth 1;
Hevy_ModIndx 110;
Hevy_Crossfade 100;
Hevy_LFO_Speed 35;
Hevy_ADSR 120;
Spooky
;
Hevy_autoscale_min 829;
Hevy_autoscale_max 370;
Hevy_amplitude 80;
Hevy_LFO_Depth 70;
Hevy_ModIndx 9;
Hevy_Crossfade 1;
Hevy_LFO_Speed 35;
Hevy_ADSR 120;


Start_Hammond
t b b
r frequency
switch~ <-- DSP on/off to redcue CPU load
*
min
max
0
0
reset
autoscale
0
Frequency [Hz]
*
amplitude
0
BeeThree~
throw~ audio_out
stkCtrl 1 $1
stkCtrl 2 $1
stkCtrl 4 $1
stkCtrl 11 $1
stkCtrl 128 $1
Hammond_Organ
LFO-Depth
Feedback_Gain
Operator_3_Gain
LFO_Speed
ADSR_2_&_4_Target
Presets
Standard
Ghost
Ghost
;
Bee_autoscale_min 800;
Bee_autoscale_max 400;
Bee_LFO_Depth 98;
Bee_Feedback 100;
Bee_Operatr_3Gain 10;
Bee_LFO_Speed 84;
Bee_ADSR 10;
Standard Config
;
Bee_amplitude 100;
Bee_autoscale_min 220;
Bee_autoscale_max 100;
Bee_LFO_Depth 15;
Bee_Feedback 48;
Bee_Operatr_3Gain 10;
Bee_LFO_Speed 90;
Bee_ADSR 10;


Start_Xylophone
Frequency (0Hz-1500Hz)
r frequency
switch~
<-- DSP on/off to redcue CPU load
t b b
*
min
max
0
0
reset
autoscale
0
Frequency [Hz]
expr 60000/$f1
BPM --> ms
metro 1500
stkCtrl 1 $1
stkCtrl 2 $1
stkCtrl 4 $1
stkCtrl 7 $1
stkCtrl 11 $1
100
ModalBar~
throw~ audio_out
Xylophone
BPM
Direct_Stic_Mix
Stick_Hardness
Stick_Position
Vibrato_Frequency
Vibrato_Gain
Presets
Standard_Config
Marimba
Vibraphone
Agogo
Wood1
Reso
Wood2
Beats
Two Fixed
Clump
stkCtrl 16 $1
Volume
stkCtrl 128 $1
;
Xylo_BPM 50;
Xylo_autoscale_min 400;
Xylo_autoscale_max 100;
Xylo_Direct_Stic_Mix 75;
Xylo_Stick_Hardness 110;
Xylo_Stick_Position 110;
Xylo_Vibrato_Frequency 0;
Xylo_Vibrato_Gain 75;
Xylo_Volume 110;
Xylo_selection 4;

Default Values

loadbang

200

```
;
steps-1 const 0;
steps-2 const 0;
steps-3 const 0;
steps-4 const 0;
steps-5 const 0;
patt_clr 1;
```

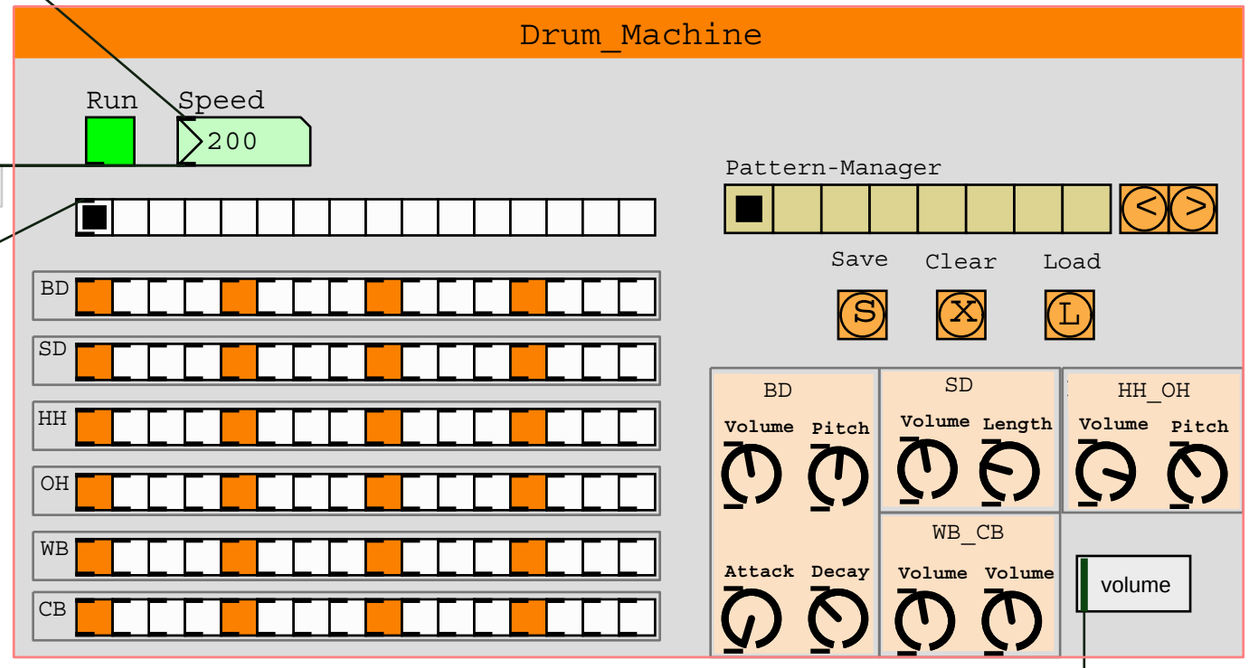
metro | switch~ | s Tempo

count 16

r runs_on_x86x64

s count

*



Save & Load Pattern

r patt_inc

r patt_curr

r patt_dec

f 1

f -1

+

+

s patt_sel

r patt_save

r patt_curr

f

route 0 1 2 3 4 5 6 7

0 1 2 3 4 5 6 7

r patt_load

r patt_curr

f

route 0 1 2 3 4 5 6 7

0 1 2 3 4 5 6 7

pd presetmanager

r~ BD

r~ SD

r~ HH OH

r~ WB

r~ CB

+~

moses 0.011

hip~ 3

hip~ 3 filter out DC

0

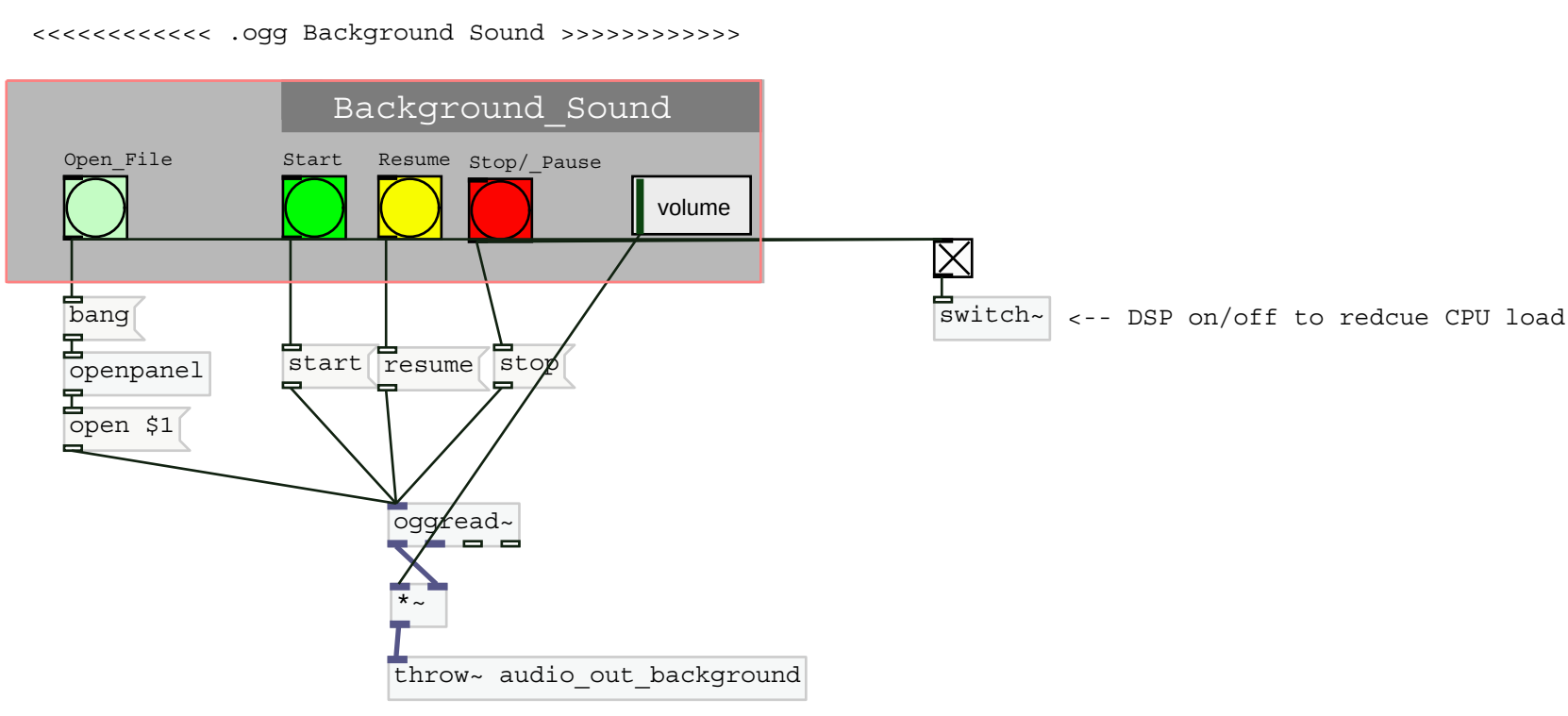
pack 0 50 <-- make a ramp to avoid clicks or zipper noise

line~

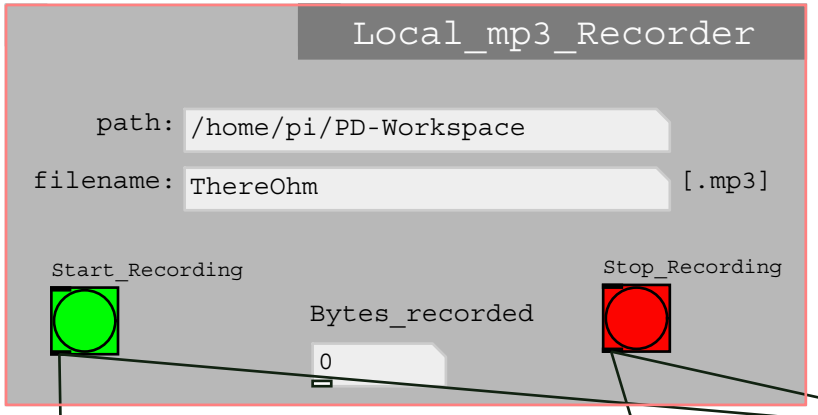
*~

*~

throw~ audio_out_beat


<<<<<<<<<<<< .ogg Background Sound >>>>>>>>>>>>
Background_Sound
Open_File
Start
Resume
Stop/_Pause
volume
bang
openpanel
open $1
start
resume
stop
oggread~
*~
throw~ audio_out_background
switch~
<-- DSP on/off to redcue CPU load

<<<<<<<<<<<< mp3 Audio Recorder >>>>>>>>>>>>



Default Path - Raspberry

loadbang

symbol /home/pi/PD-Workspace

Default Path - x86x64

r runs_on_x86x64

symbol /home/User/Downloads

s imp3-rec-path

s mp3-rec-path

Default-Filename

loadbang

symbol ThereOhm

s imp3-rec-file

s mp3-rec-file

Open File

t b b

Start Recording

start

Stop Recording

stop

switch~ <-- DSP on/off to redcue CPU load

r mp3-rec-path

r mp3-rec-file

pack s s

makesymbol %s/%s.mp3

/home/pi/PD-Workspace/sy>

open $1

catch~ audio_out_mp3_rec

mpeg 44100 128 1 4

append

mp3write~

0

Status

s rbytes

MP3-Settings

(samplerate, bitrate, mode, quality)

bitrate: bitrate of stream, def. 224kbit/s

mode: 0 = stereo

1 = joint stereo (default)

2 = dual channel

3 = mono

quality: 1 = high, 9 = low

<<<<<<<<<<<<<< mp3 Audio Streaming >>>>>>>>>>>>>>>>

Webradio_mp3_Streamer

Server configuration

server: 176.31.120.92

port: 6808

password: Theremin1896

server type : shoutcast / icecast / icecast2

Start_Streaming

Status

Stop_Streaming

switch~ <-- DSP on/off to redcue CPU load

Streaming-Server Configuration

Server-Adress

loadbang

symbol 176.31.120.92

s iserver-name

s server-name

Port-Settings

loadbang

6808

s iport-number

s port-number

Broadcast Password

loadbang

symbol Theremin1896

s ipassword

s password

Server-Type Init

loadbang

0

s iserver-type

r password

symbol Theremin1896

passwd $1

t b b

r server-name

symbol

r port-number

float

0

symbol

pack s f

connect $1 $2

disconnect

mpeg 44100 128 1 4

MP3-Settings

(samplerate, bitrate, mode, quality)

bitrate: bitrate of stream, def. 224kbit/s

mode: 0 = stereo
1 = joint stereo (default)
2 = dual channel
3 = mono

quality: 1 = high, 9 = low

Server-Type-Settings

r server-type

route 0 1 2

shoutcast

icecast

icecast2

Audiostream

catch~ audio_out_mp3_stream

mp3cast~ 1 2 512

0 Streaming_Status

print status