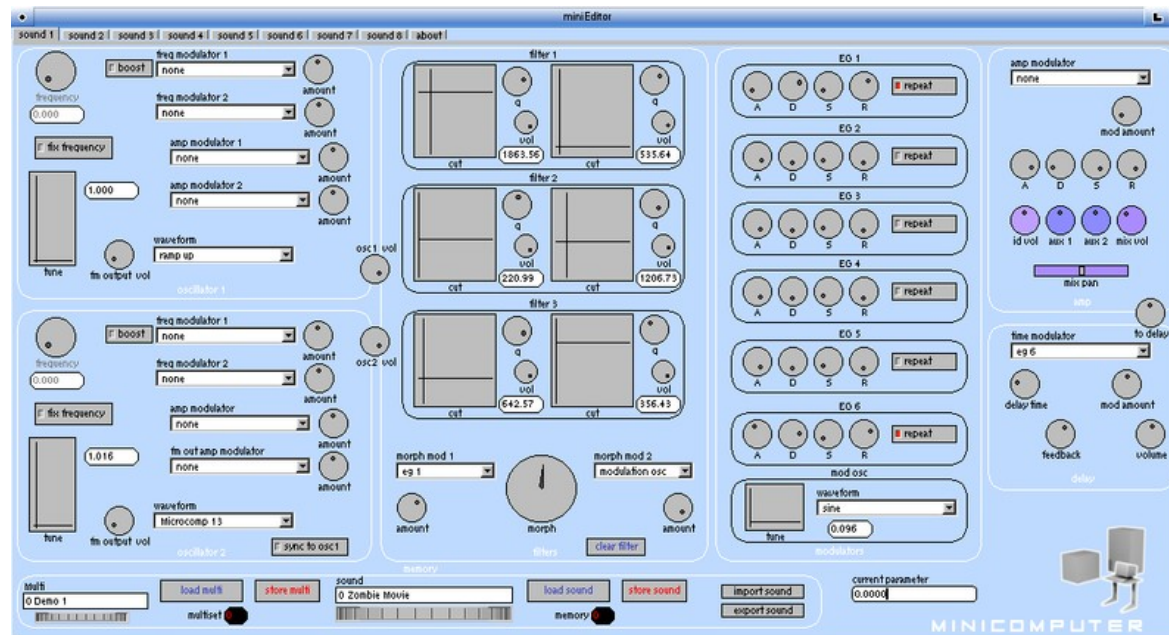




# Linux and Synthesizers



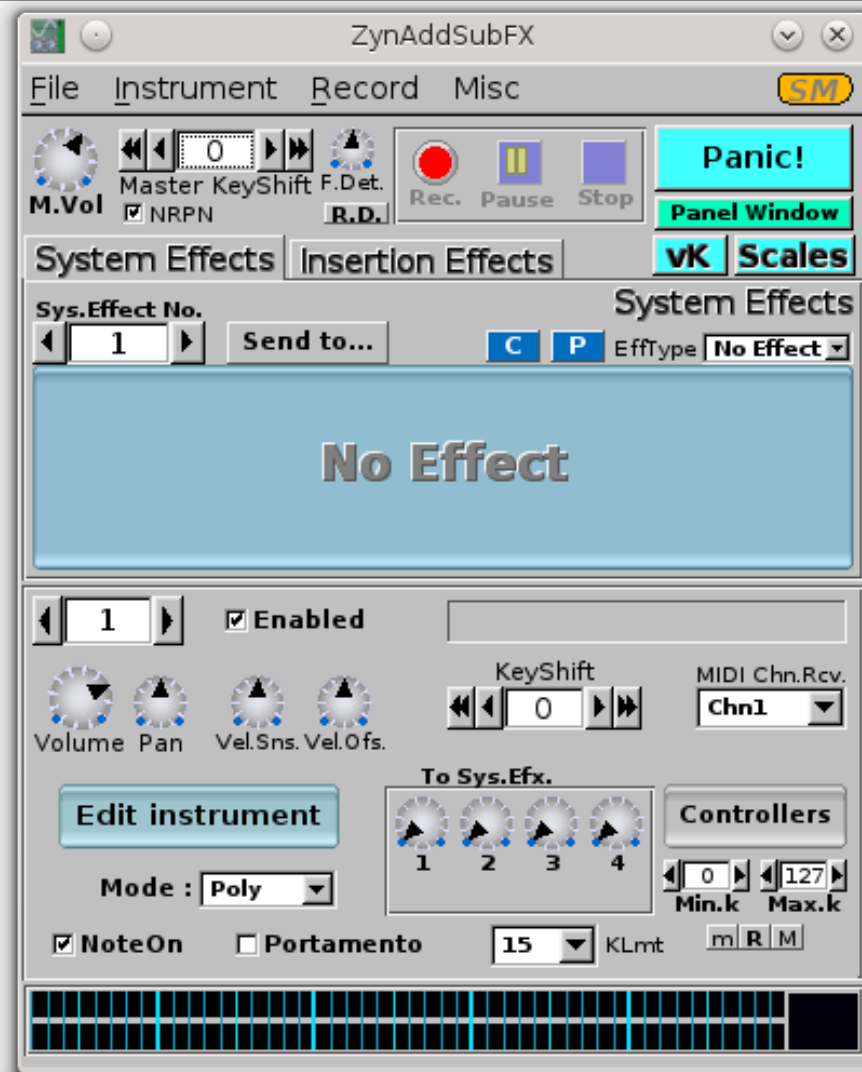
Y. Collette ([ycollette.nospam@free.fr](mailto:ycollette.nospam@free.fr))  
<https://audinux.github.io>



# ZynAddSubFX (1/3)

Un synthétiseur très puissant qui est installé avec plein de patches.  
Supporte Jack et Alsa.  
Existe sous la forme de plugin DSSI.

<https://zynaddsubfx.sourceforge.io/>





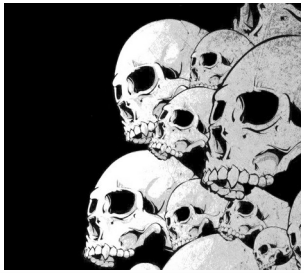
# ZynAddSubFX (2/3)

/usr/share/zynaddsubfx/banks/Collection/

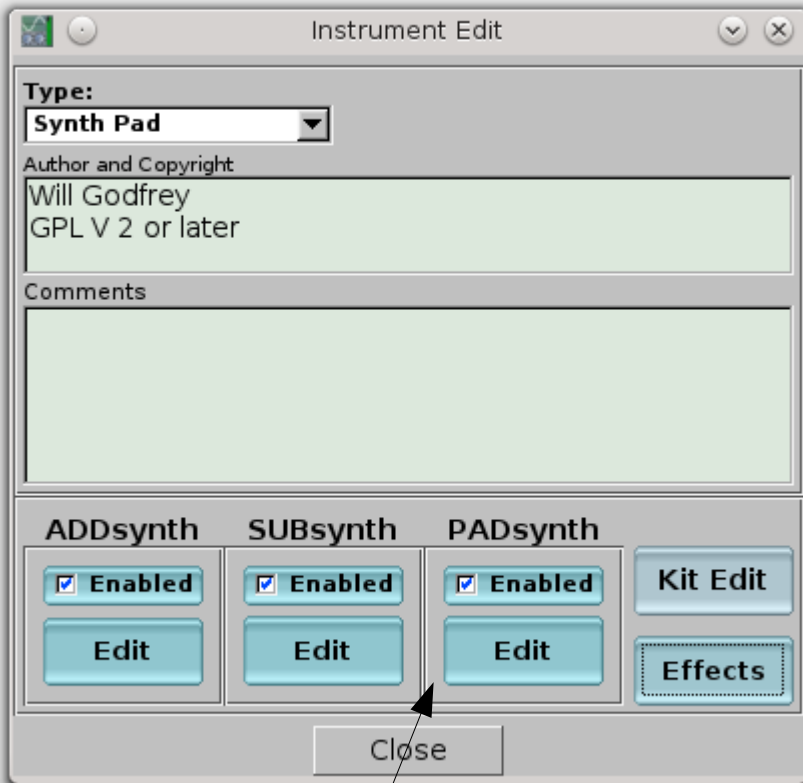
Refresh bank list New Bank...

1. Xylophone	33. Sweep Synth		97. Sharp	
2. Vibraphone	34. Warm Synth		98. Sharp and Warm	
3. Soft Vibes	35. Hard Synth	67. Soft Flute	99. Sharp and Deep	131. Lite Guitar
4. Simple Chimes	36. Bright Synth	68. Warm Flute	100. Sharp Reed	132. Trem Guitar
5. Silver Bell	37. Multi Synth		101. Far Reed	133. Smooth Guitar
	38. Slow Saw			134. Nylon Guitar
	39. Medium Saw	71. Ocarina	103. Clarinet	
8. Ethereal	40. Hard Saw		104. Bassoon	
	41. Voiced Saw	73. Variable Reed		
10. Trem Lead	42. Sweep Saw		106. Aooww	
		75. Smooth	107. Daooww	139. Home Piano
12. Trem Synth Piano	44. Wipe Synth		108. Yaooww	140. Moonlight Piano
13. Trem Synth	45. Hard Stereo Sweep	77. Matrix	109. Yiee	141. Soft Piano1
	46. Master Synth Low	78. Sweep Matrix	110. Eeoow	142. Soft Piano2
15. Simple Square	47. Master Synth High	79. Ice Field		143. Space Piano
16. Full Square	48. Sharp Synth	80. Hollow Ice Field	112. Overdrive	
17. Super Square		81. Beyond	113. Overdrive 2	
18. Steel Wire	50. Fretless Bass		114. Overdrive 3	146. Space Voice
19. Metal Drips	51. Decay Bass	83. Sweep Pad		147. Space Voice 2
20. Fantasia	52. Steel Bass	84. Breathy Pad	116. Power Guitar 1	
21. Soft	53. Synth Bass	85. Bottle	117. Power Guitar 2	149. Soft Choir
22. Ultra Soft	54. Distorted Bass	86. ReedBank		150. Full Choir
23. Whistle		87. Sweep Rushes		151. Soft Ahh
24. Wipe Whistle		88. Rushes	120. Wet Brass	152. Breathy Ahh
25. Ghost Whistle	57. Sub Delay	89. Medium Rushes		
	58. Reed Organ	90. Bright Rushes	122. Extended Rushes	
	59. Soft Organ	91. Bright Rush Pipe	123. Prophecy	155. Super Pad
28. Echo Bubbles	60. Thin Pipe	92. Bright Rush Long T		156. Hyper Pad
29. Full Strings	61. Great Organ	93. Voyager	125. Pan Pipe 32	157. Hyper Matrix
30. Slow Strings	62. Hammond Organ	94. Soft Voyager	126. Pan Pipe	158. Extreme
	63. Percussion Organ	95. Soft Voyager Reve	127. Pan Pipe 96	
32. Pizzicato Strings	64. Sines	96. Echo Choir		160. Wind and Surf

☒ READ
 ☐ WRITE
 ☐ CLEAR
 ☐ SWAP
 ☒ Show PADsynth status
 ☐ auto close
 Close



# ZynAddSubFX (3/3)



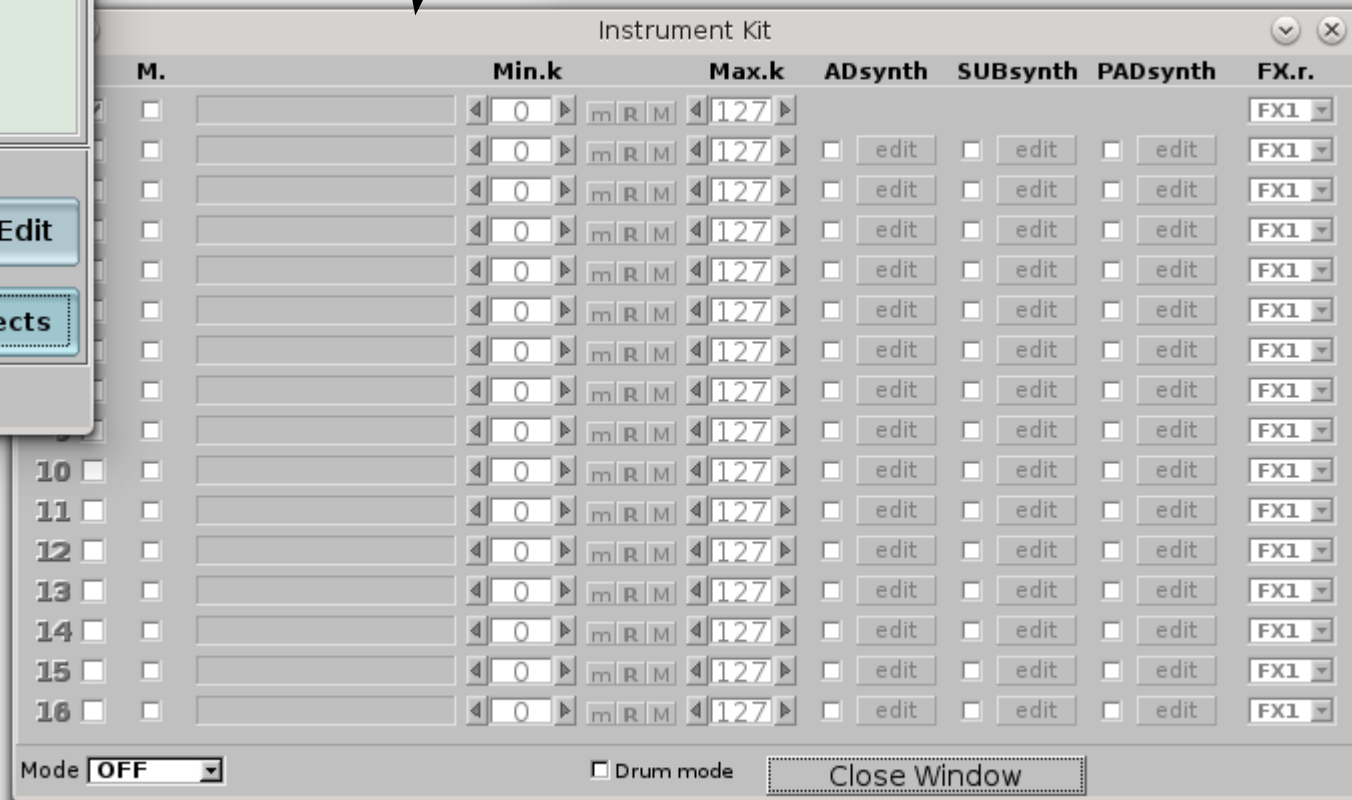
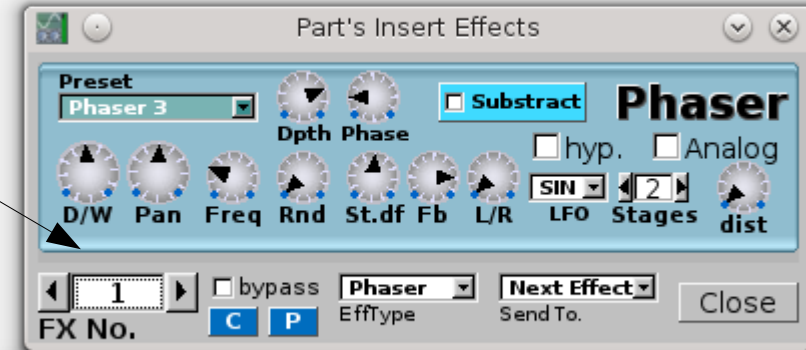
3 types de modélisation :

- ADDSynth
- SUBSynth
- PADSynth

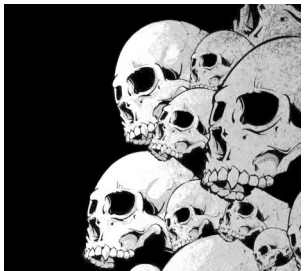
24/08/2013

Gestion d'effets  
par son

Gérer sa  
bibliothèques de  
sons / Midi







# AmSynth



Synthétiseur simple d'utilisation  
fournit avec une grande quantité  
de patches.  
Existe sous la forme de plugin  
LV2.

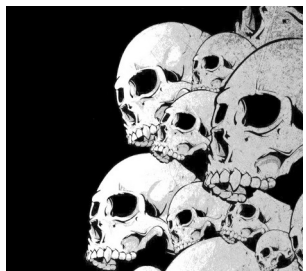
<http://code.google.com/p/amsynth/?p=index>



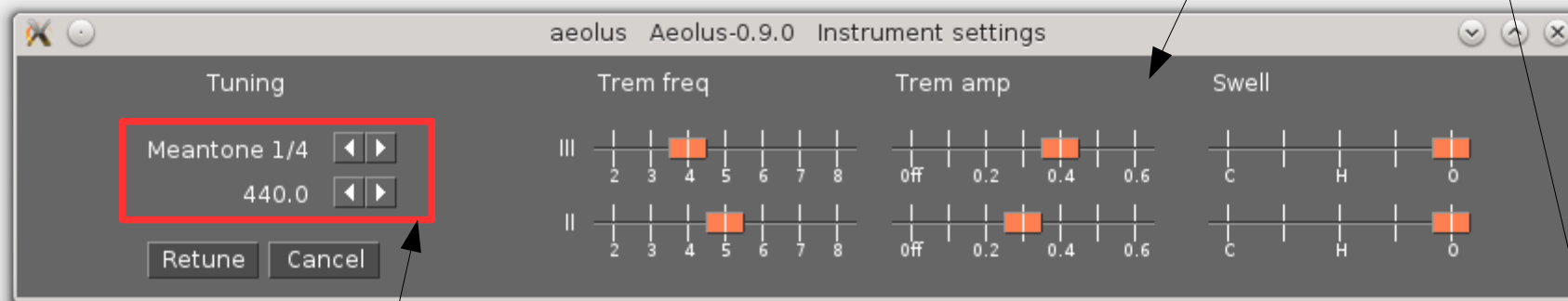
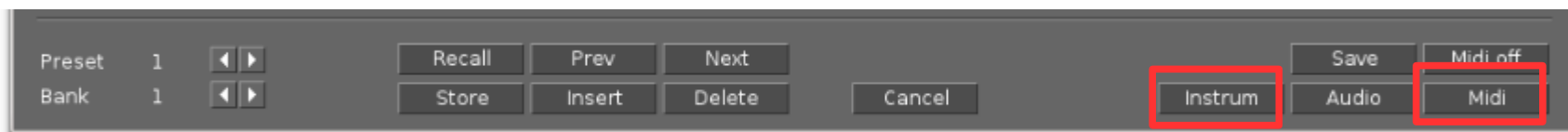
# Aeolus (1/2)



<http://kokkinizita.linuxaudio.org/linuxaudio/aeolus/index.html>

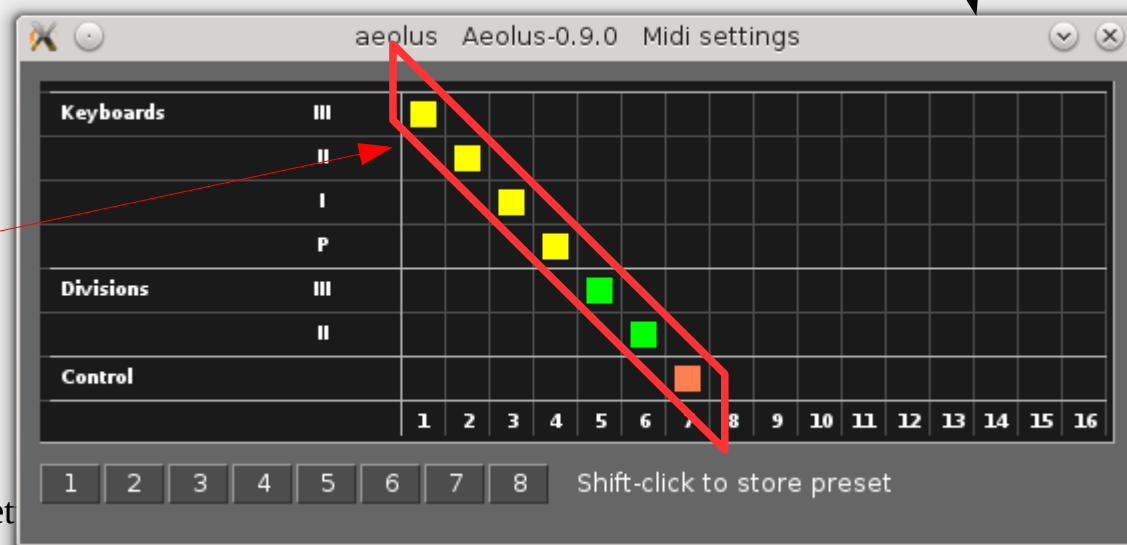


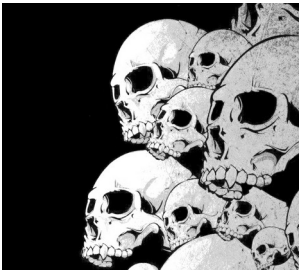
# Aeolus (2/2)



Gestion du type d'orgue

Affectation du canal  
MIDI et des  
différents claviers





# PhaseX

<https://github.com/williamweston/phaseX>

Entièrement contrôlable  
par MIDI.  
Très puissant.  
Installé avec quelques  
patches intéressants.







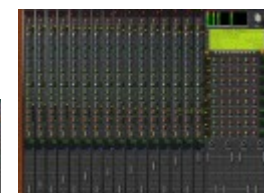
# Bristol

Les monuments du synthé

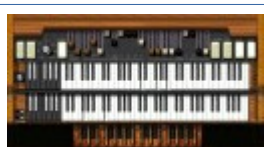
<http://bristol.sourceforge.net>



MOOG



HAMMOND



RHODES



YAMAHA DX



ette



BY



# Bristol

Le mini-moog

<http://fr.wikipedia.org/wiki/Minimoog>



Mini moog

Le minimoog est un synthétiseur analogique monophonique, inventé par Robert Moog. Commercialisé en 1970.

Il a notamment été utilisé par de nombreux musiciens, dont Eloy Fritsch, Rick Wakeman, Jean-Michel Jarre, Rush, Toto, Marillion, Keith Emerson, Rick Wakeman, Yes, Vangelis, Herbie Hancock et Richard Tandy (ELO).

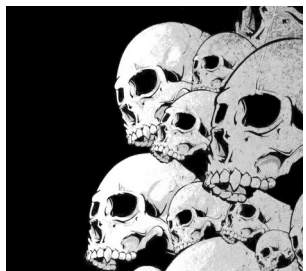
24/08/2013

Y. Collette



Mini Moog





# Bristol

Petit problème : bristol se lance en ligne de commande

```
$ startBristol -mini -jack -jdo
```

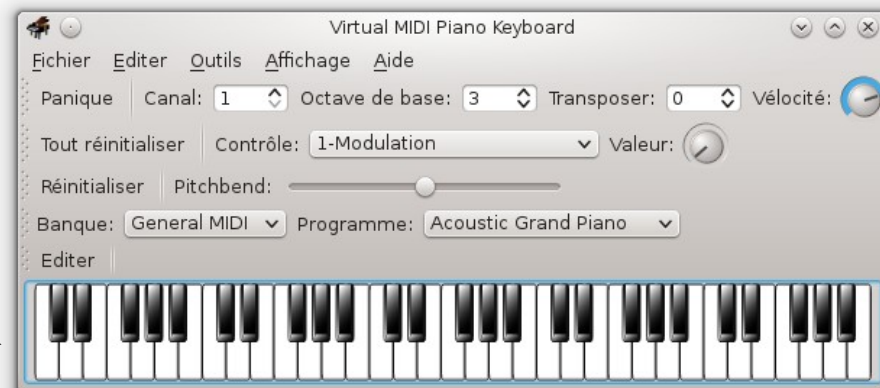
-mini : sélection du synthé  
-jack: utilisation de jack pour la sortie audio  
-jdo : utilisation de jack pour l'entrée midi



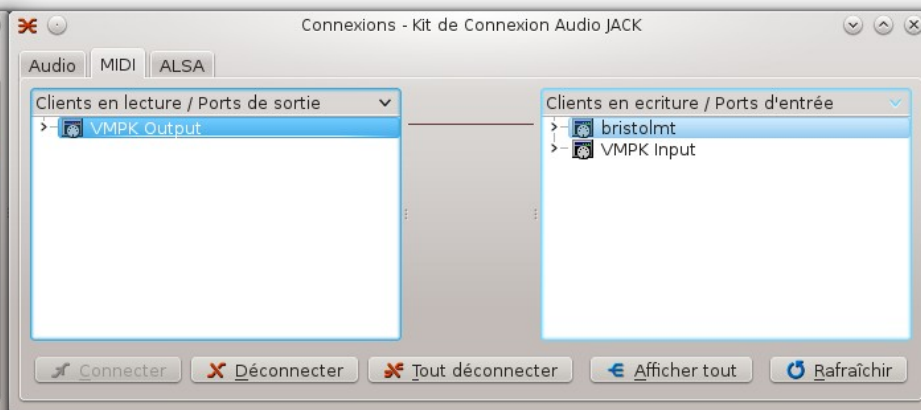
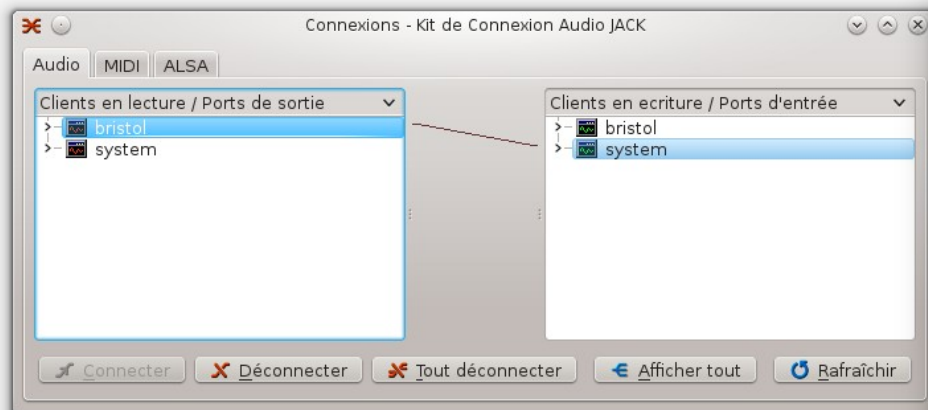
Jack audio

miniMoog

VMPK



Jack MIDI





# Bristol

## Liste des synthétiseurs

<b>-mini</b>	moog mini
<b>-explorer</b>	moog voyager
<b>-voyager</b>	moog voyager electric blue
<b>-memory</b>	moog memory
<b>-sonic6</b>	moog sonic 6
<b>-mg1</b>	moog/realistic mg-1 concertmate
<b>-hammond</b>	hammond module (deprecated, use -b3)
<b>-b3</b>	hammond B3 (default)
<b>-prophet</b>	sequential circuits prophet-5
<b>-pro52</b>	sequential circuits prophet-5/fx
<b>-pro10</b>	sequential circuits prophet-10
<b>-pro1</b>	sequential circuits pro-one
<b>-rhodes</b>	fender rhodes mark-I stage 73
<b>-rhodesbass</b>	fender rhodes bass piano
<b>-roadrunner</b>	crumar roadrunner electric piano
<b>-bitone</b>	crumar bit 01
<b>-bit99</b>	crumar bit 99
<b>-bit100</b>	crumar bit + mods
<b>-stratus</b>	crumar stratus synth/organ combo



# Bristol

## Liste des synthétiseurs

<b>-trilogy</b>	crumar trilogy synth/organ/string combo
<b>-obx</b>	oberheim OB-X
<b>-obxa</b>	oberheim OB-Xa
<b>-axxe</b>	arp axxe
<b>-odyssey</b>	arp odyssey
<b>-arp2600</b>	arp 2600
<b>-solina</b>	arp/solina string ensemble
<b>-polysix</b>	korg polysix
<b>-poly800</b>	korg poly-800
<b>-monopoly</b>	korg mono/poly
<b>-ms20</b>	korg ms20 (unfinished: -libtest only)
<b>-vox</b>	vox continental
<b>-voxM2</b>	vox continental super/300/II
<b>-juno</b>	roland juno-60
<b>-jupiter</b>	roland jupiter-8
<b>-bme700</b>	baumann bme-700
<b>-bm</b>	bristol bassmaker sequencer
<b>-dx</b>	yamaha dx-7
<b>-cs80</b>	yamaha cs-80 (unfinished)



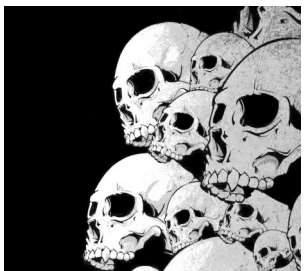


# Bristol

## Liste des synthétiseurs

**-sidney**  
**-melbourne**  
**-granular**  
**-aks**  
**-mixer**

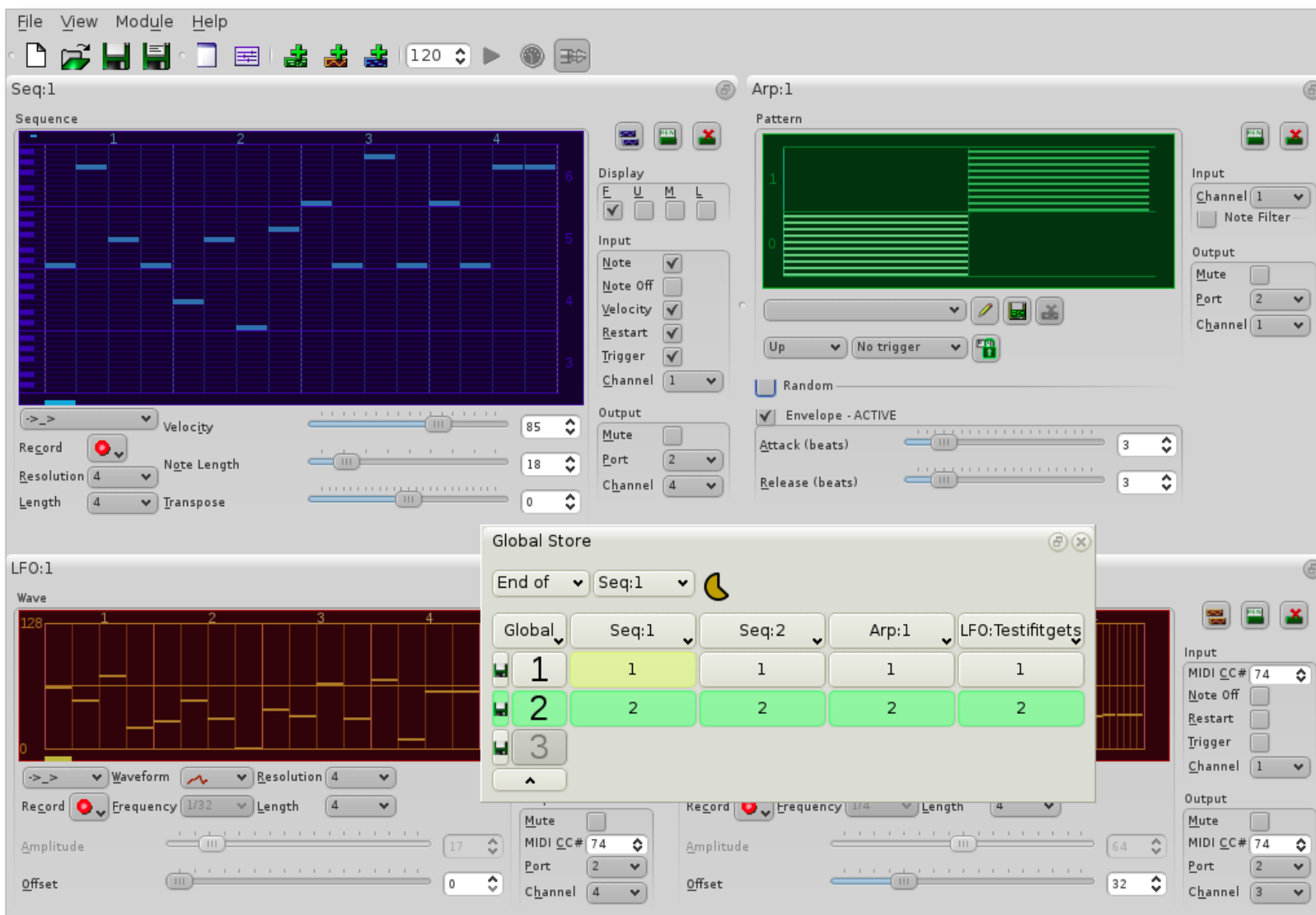
commodore-64 SID chip synth  
commodore-64 SID polyphonic synth (unfinished)  
granular synthesiser (unfinished)  
ems synthi-a (unfinished)  
16 track mixer (unfinished: **-libtest** only)



# QMidiArp

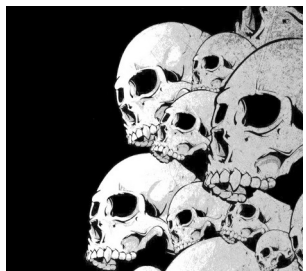
<http://qmidiarp.sourceforge.net/>

Pour transformer  
une note MIDI en  
séquences ou autre.



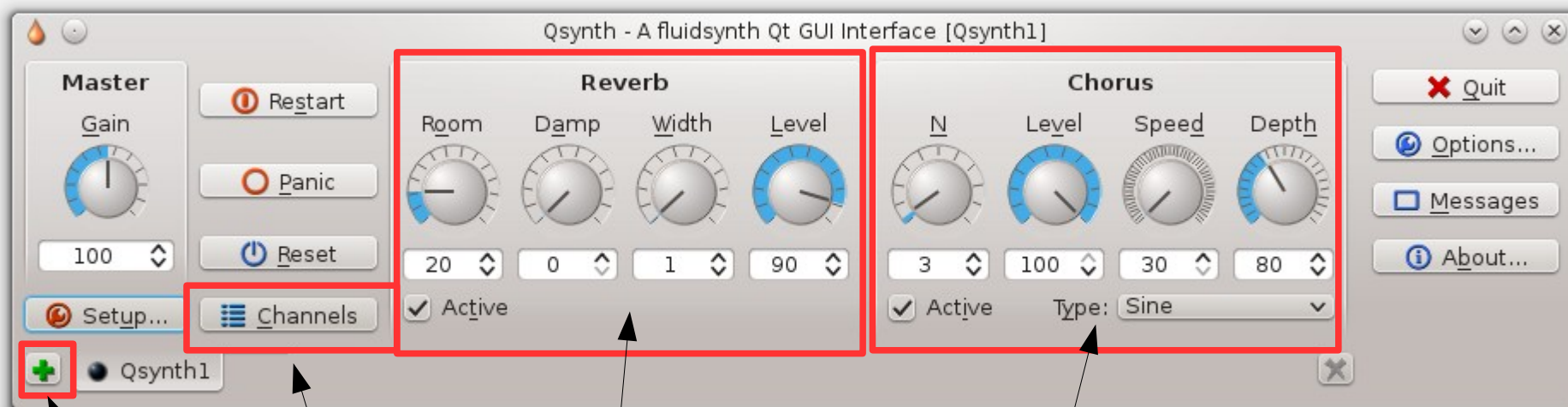
15





# QSynth

Qsynth est une interface graphique à fluidsynth. Elle permet de lire des Sound Fonts SF2.

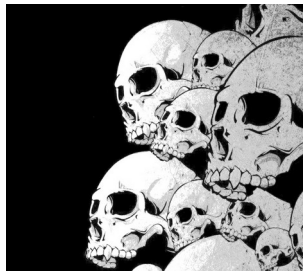


Ajouter des moteurs  
fluidsynth

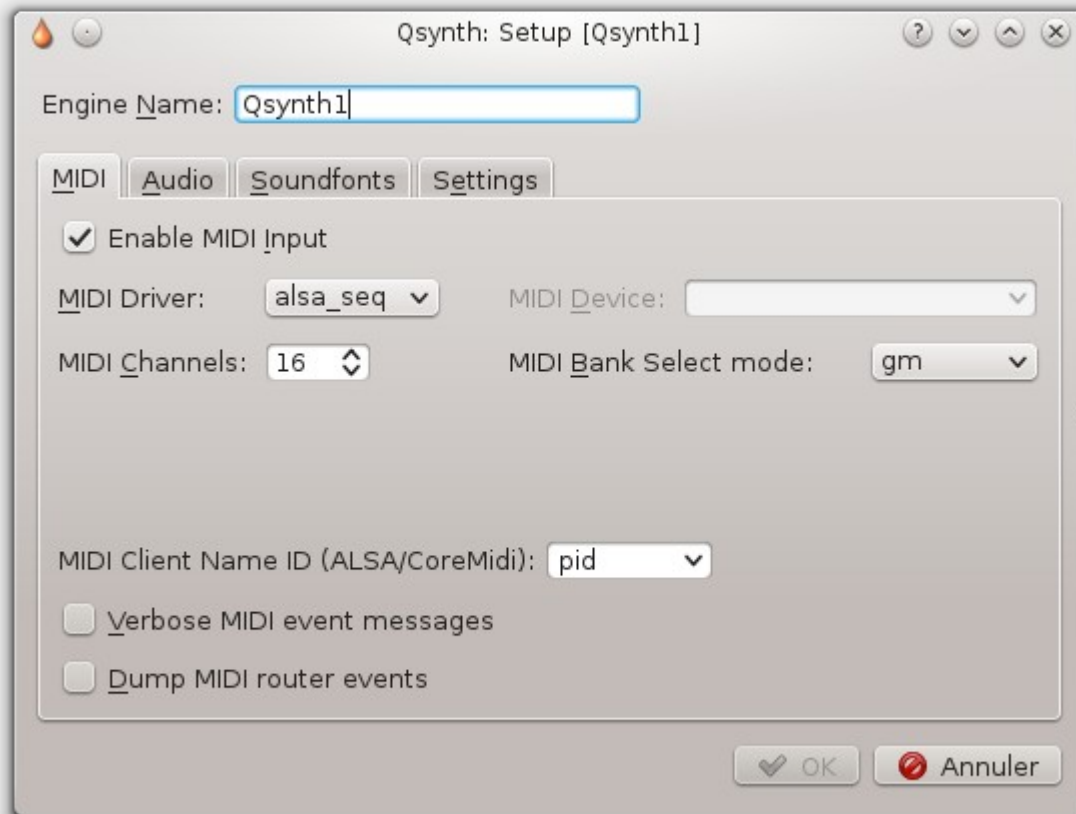
Réglages

Réverbération  
globale

Chorus global

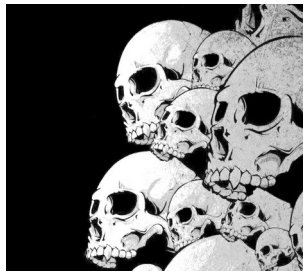


# Qsynth Setup 1/4

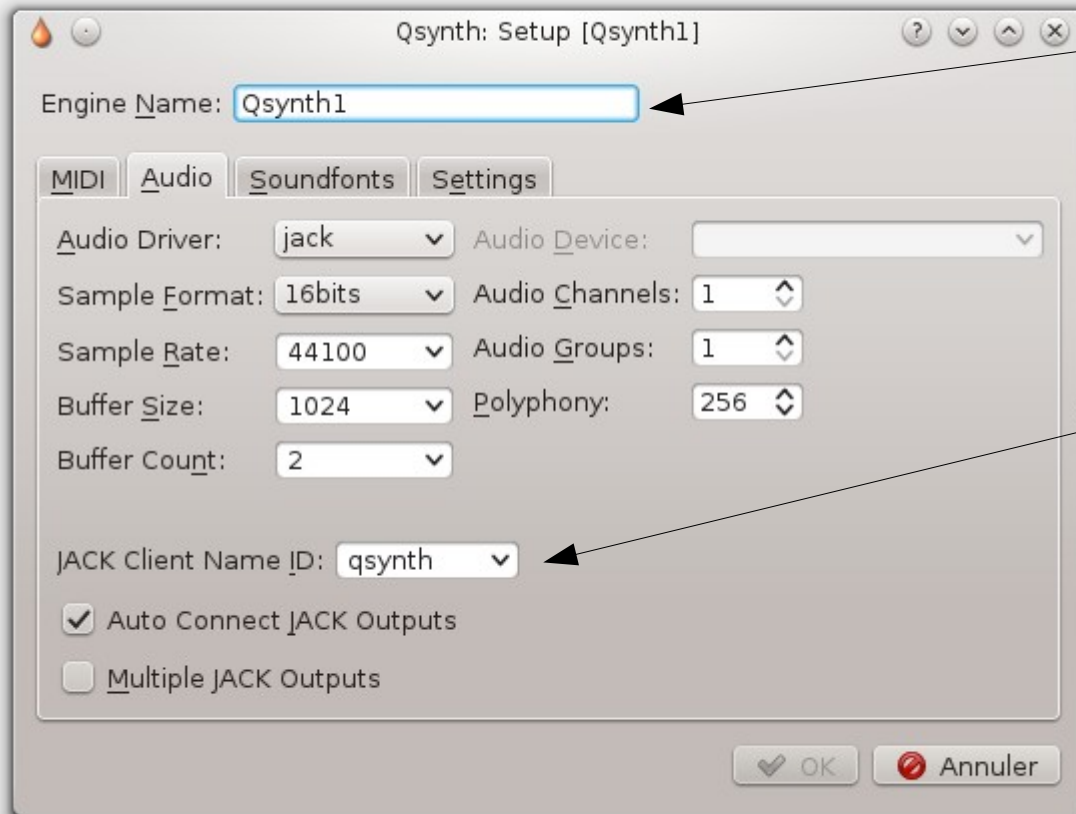


Menu permettant de sélectionner le type d'entrée MIDI à utiliser :

- alsa\_seq
- jack



# Qsynth Setup 2/4



Modification du nom du moteur

Sélection du driver audio :

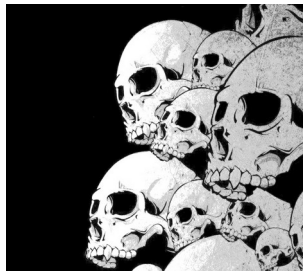
- jack

- alsa

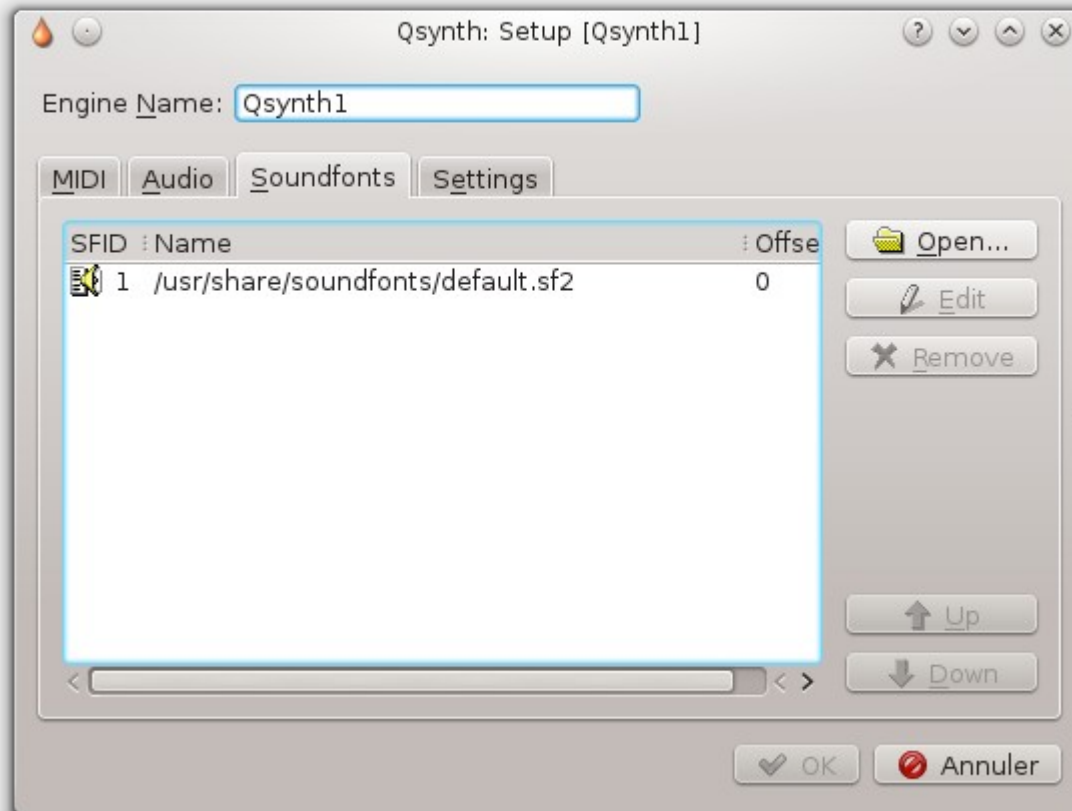
Sélection de certains paramètres audio

Modification du nom Jack

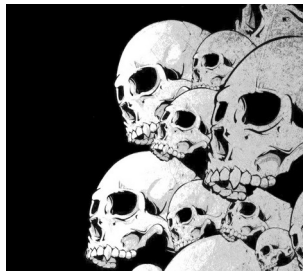




# Qsynth Setup 3/4



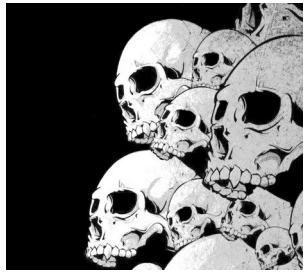
Fenêtre de chargement des  
SoundFonts



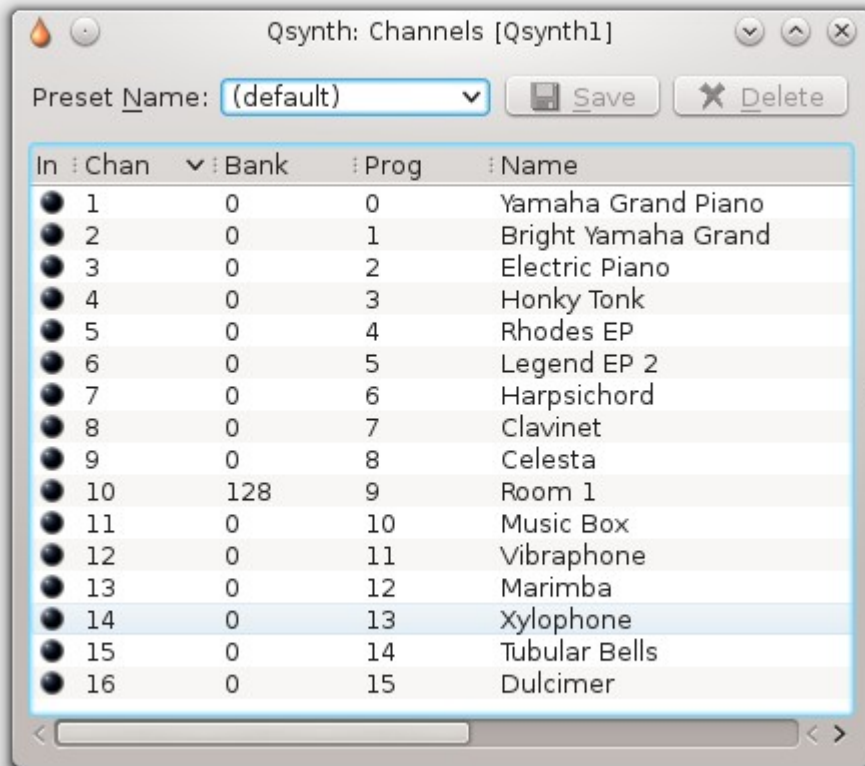
# Qsynth Setup 4/4



Fenêtre de réglage des options de fluidsynth

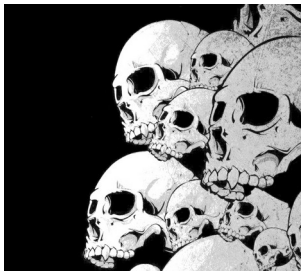


# Qsynth Channels

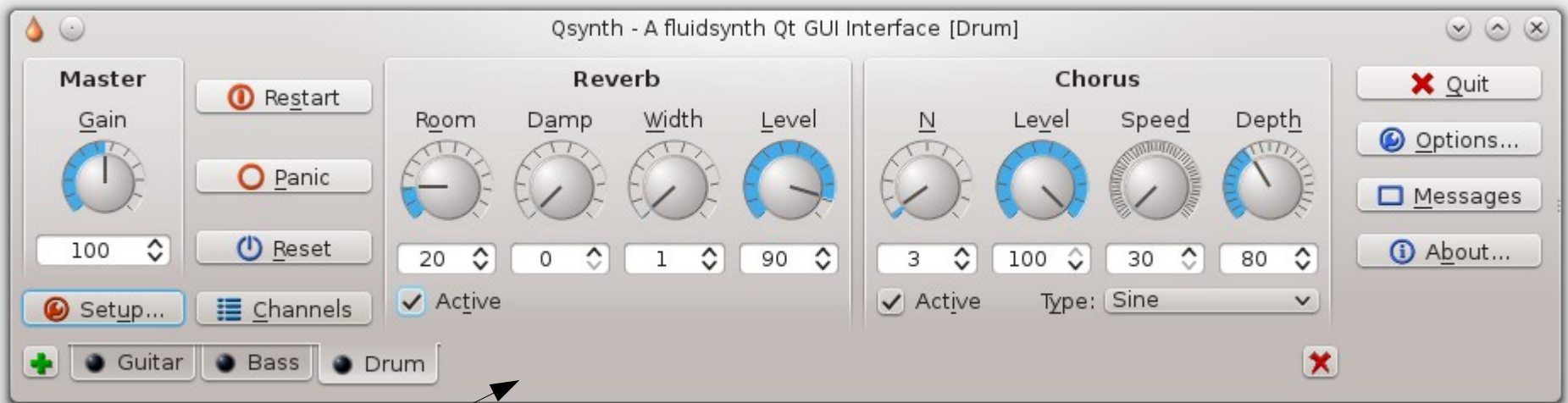


Fenêtre d'affectation des instruments et des canaux.

1 fenêtre par moteur fluidsynth.



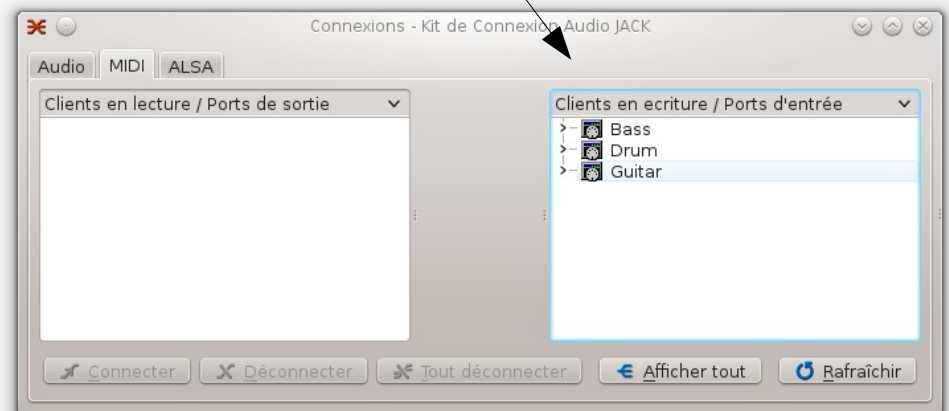
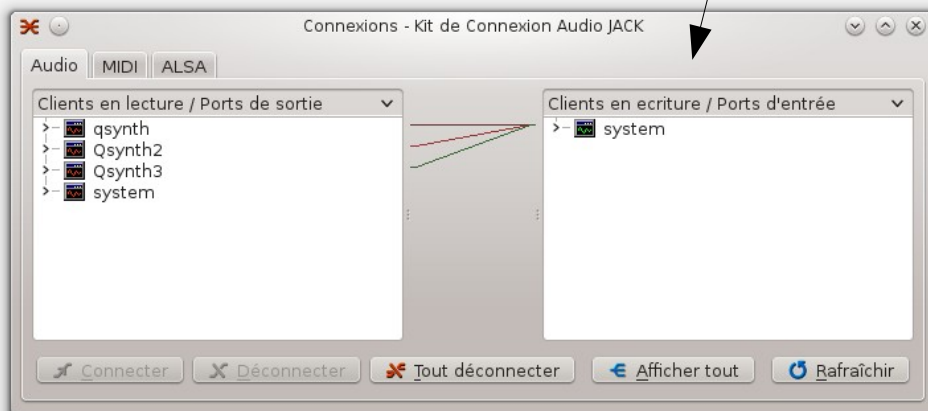
# QSynth

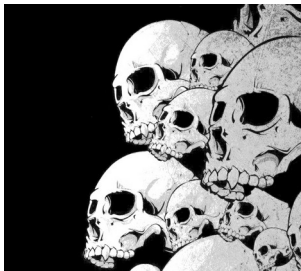


Coté QSynth

Coté Jack audio

Coté Jack MIDI

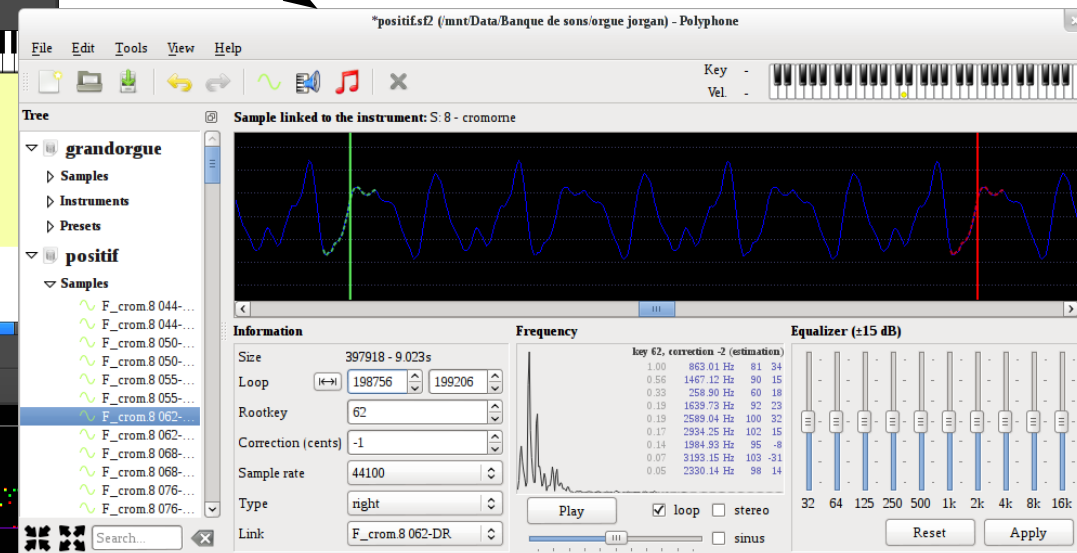
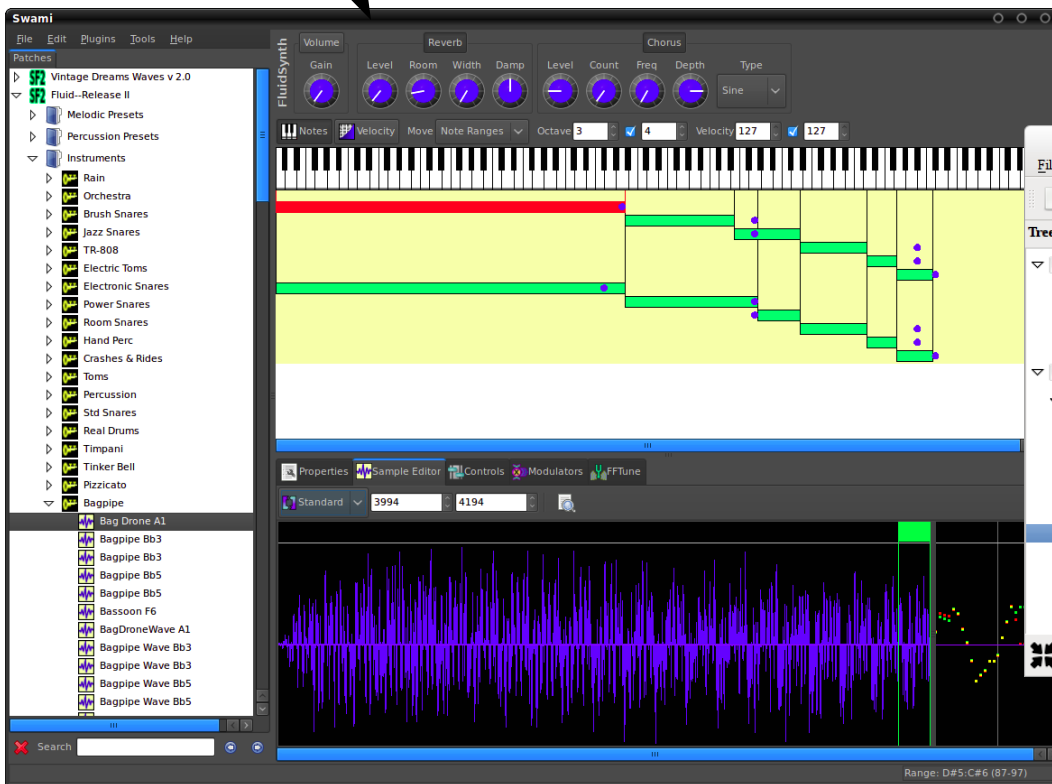




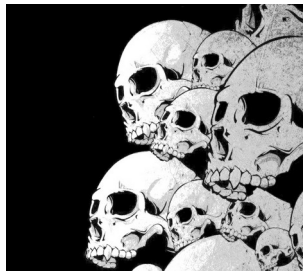
# SF2 Swami

Pour modifier ou créer une Sound Font SF2 :

- Polyphone (<http://www.polyphone.fr>)
- Swami (<http://www.swamiproject.org>)

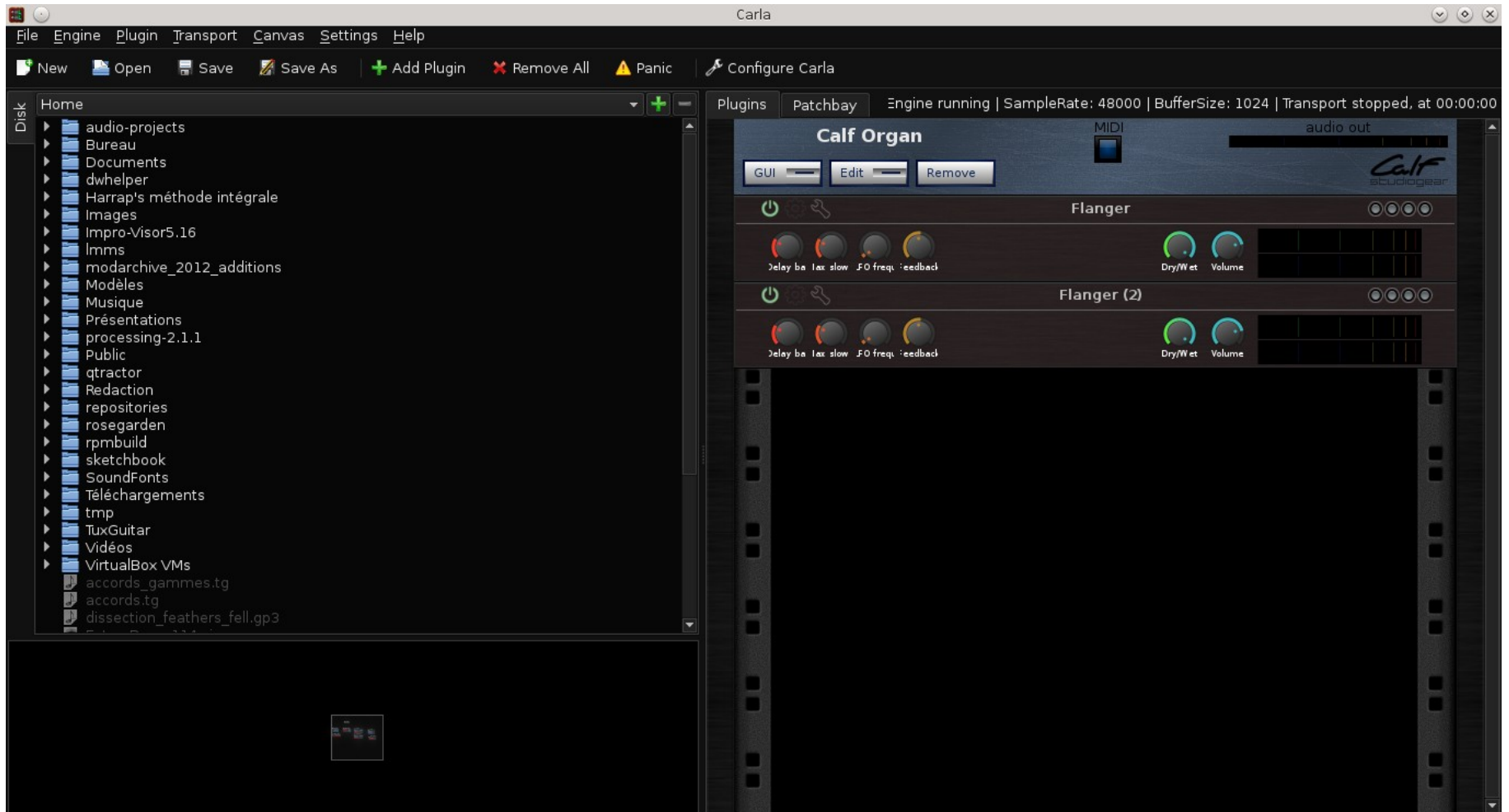






# Carla

## Rack de plugins

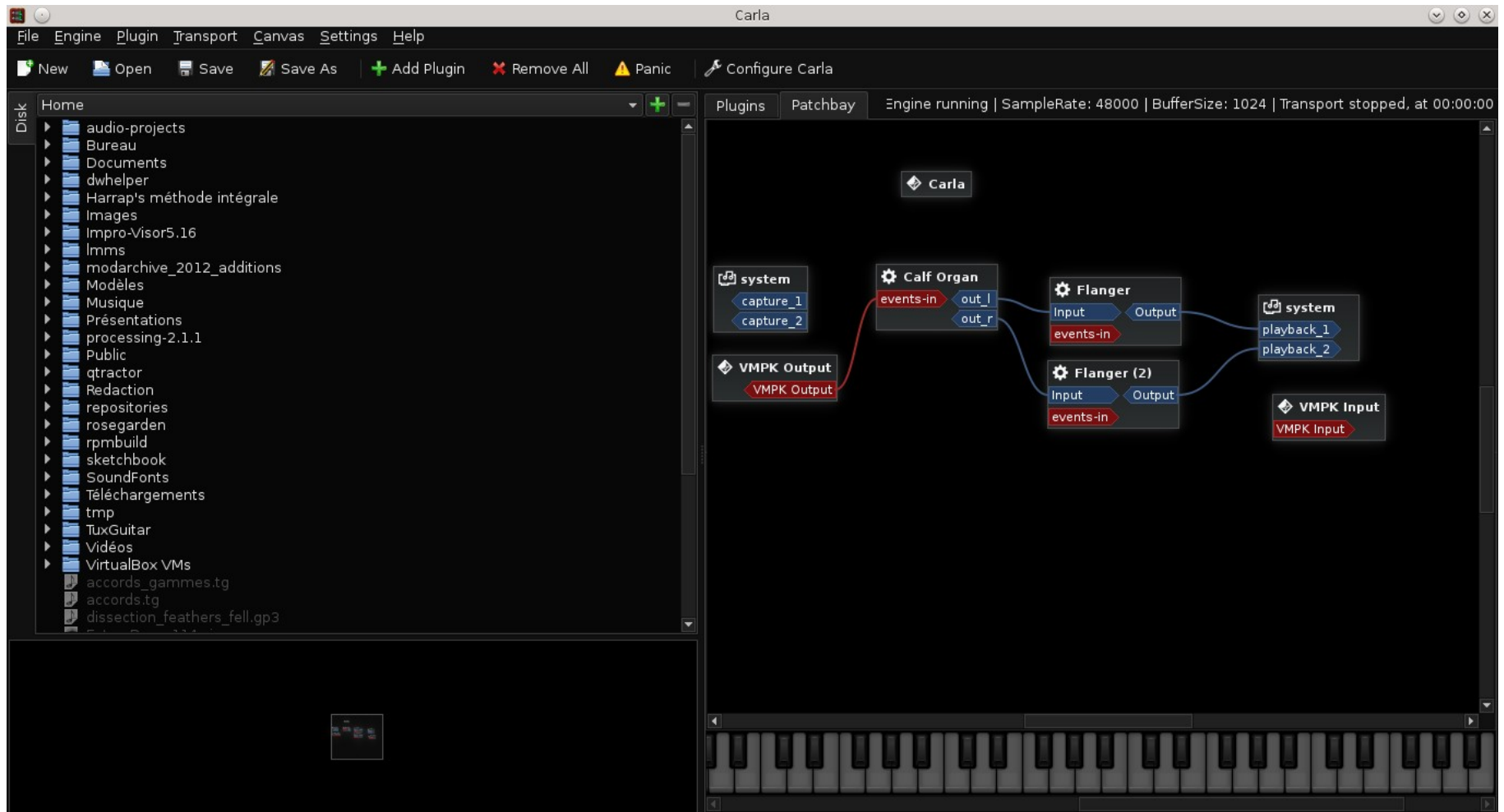


<https://github.com/falkTX/Carla>



# Carla

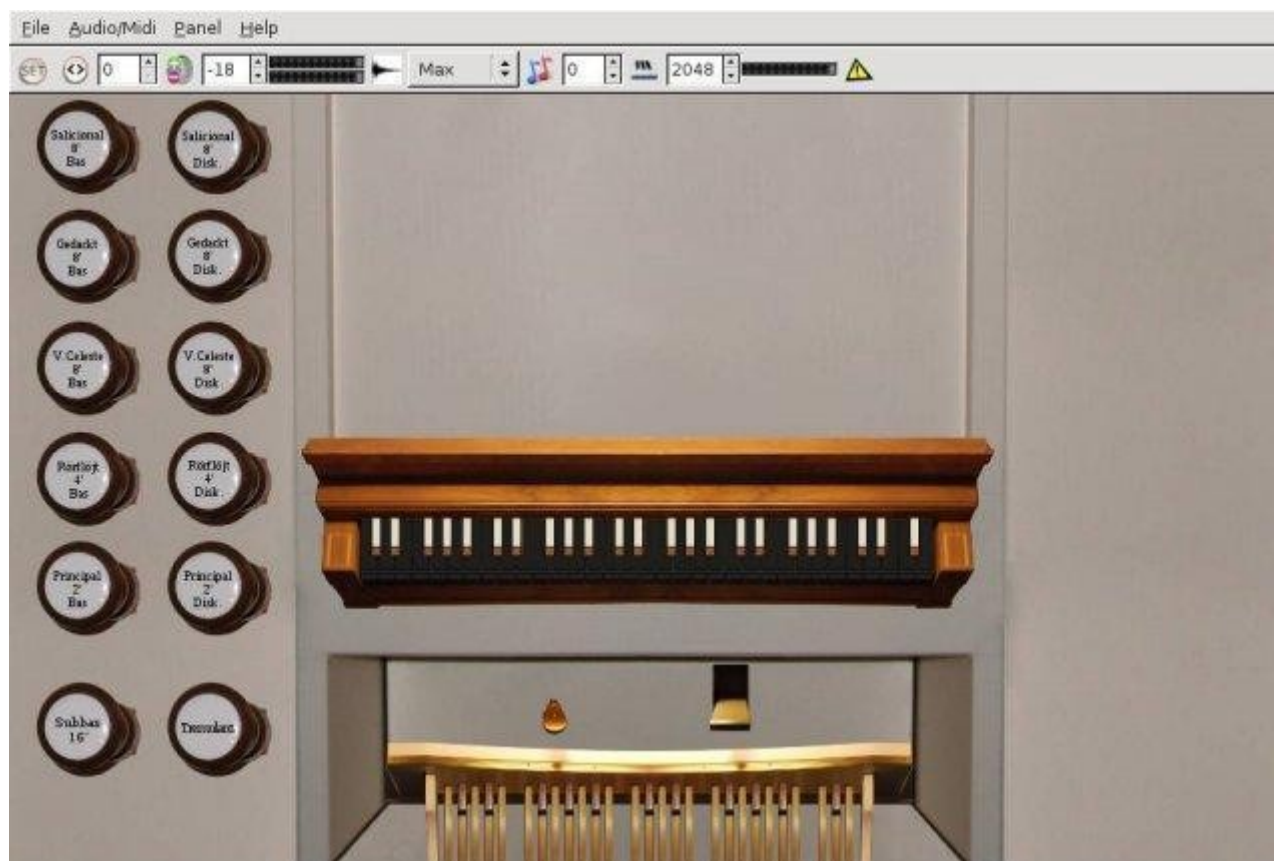
## Patchbay





# Ourorgan

## Un orgue à samples



<http://sourceforge.net/p/ourorgan/wiki/Home/>



# LinuxSampler

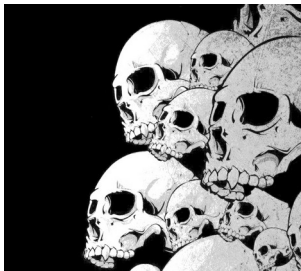
## Un player de samples

Supporte les formats :

- SF2
- SFZ
- GIG

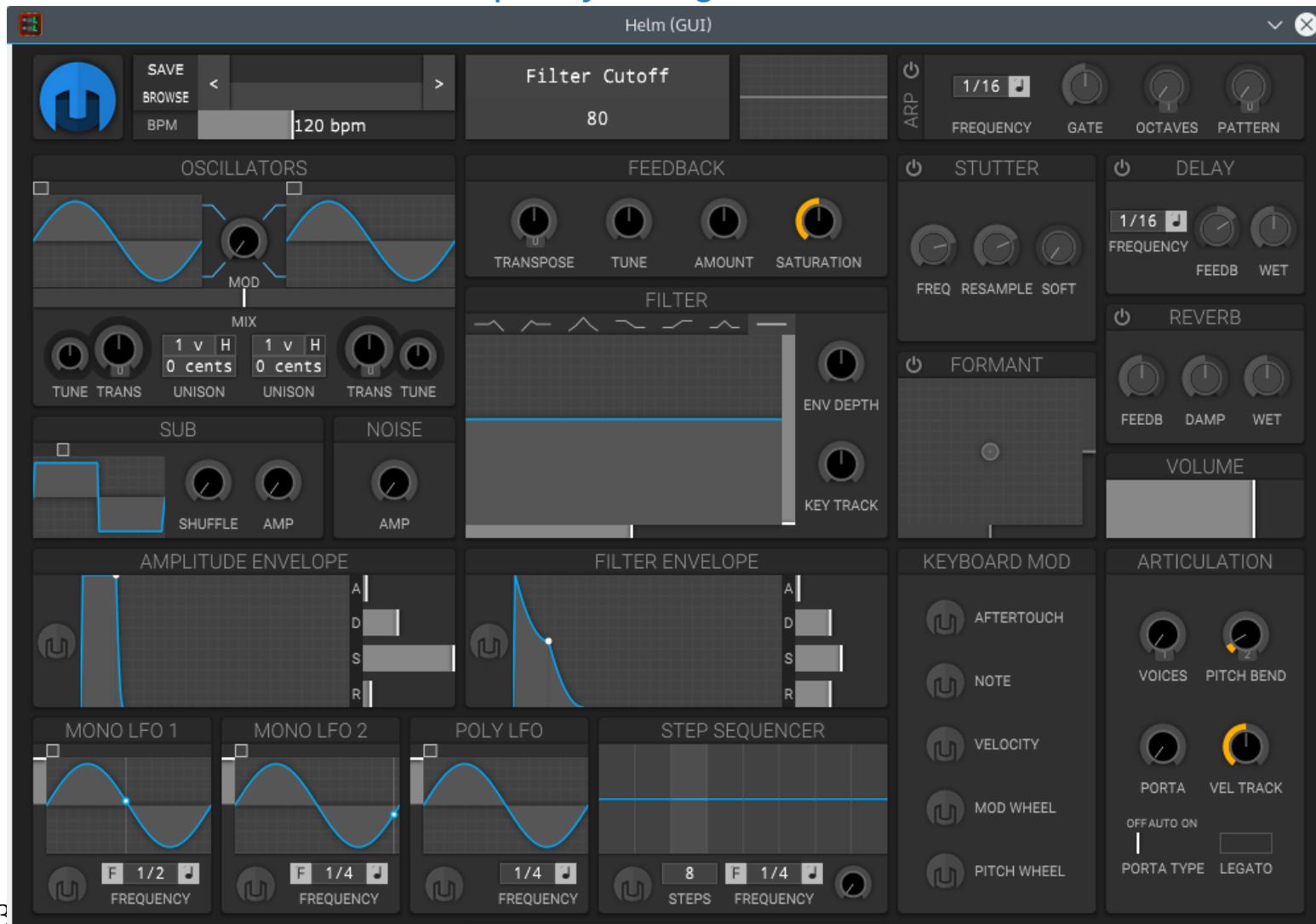


<https://linuxsampler.org/>



# Helm

<https://tytel.org/helm/>



24/08/2013







# DISTRHO

## Dexed

drowaudio-distortion  
drowaudio-distortionshaper  
drowaudio-flanger  
drowaudio-reverb  
drowaudio-tremolo  
drumsynth  
EasySSP  
eqinox  
KlangFalter  
LUFSMeter  
LUFSMeterMulti  
Luftikus  
**Obxd**  
PitchedDelay  
StereoSourceSeparation  
TAL-Dub-3

Une série de plugins VST portés vers LV2.

<https://distrho.sourceforge.io/>

TAL-Filter-2

TAL-Filter

**TAL-NoiseMaker**

TAL-Reverb-2

TAL-Reverb-3

TAL-Reverb

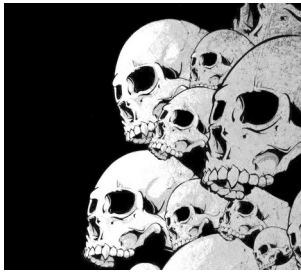
TAL-Vocoder-2

TheFunction

ThePilgrim

Vex

Wolpertinger



# DISTRHO – 1/7



## Arctican :

These are simple but useful plugins, "developed as there was nothing similar out there".

In the pack you will find 2 Arctican plugins: "The Function" and "The Pilgrim".

## Dexed :

Dexed is a plugin synth that is closely modeled on the Yamaha DX7.

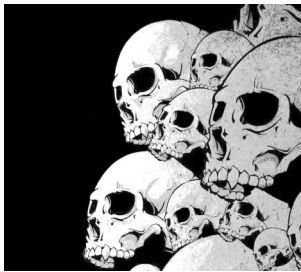
The goal of this synth is to be a tool/companion for the original DX7.



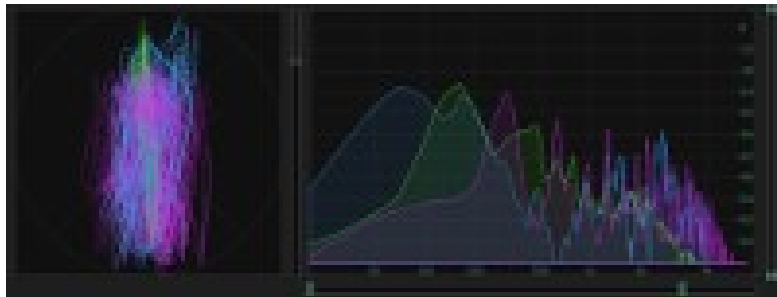
## DrowAudio :

Professional grade audio plugin suite from dRowAudio, now available for Linux.





# DISTRHO – 2/7



## EasySSP :

Easy Sound Space Perception is a small and lightweight audio visualization tool, which currently provides spectrometer and goniometer views.

## Juced :

Plugins originally in the Jucetice project, then moved to Juced.

We took DrumSynth and EQinox and made them work better and in LV2 format.

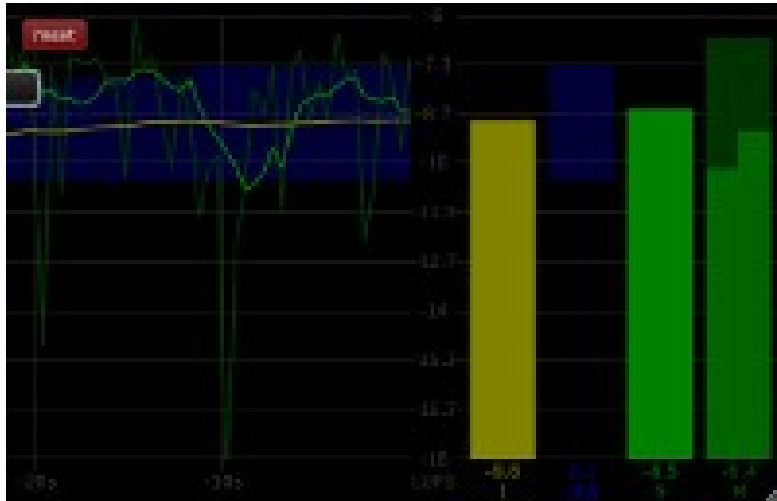


## KlangFalter :

KlangFalter is a convolution audio plugin.



# DISTRHO – 3/7



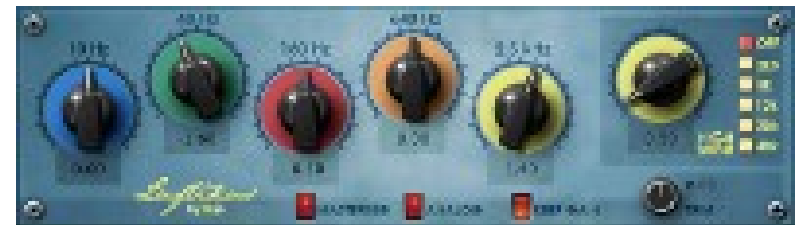
## LUFS Meter :

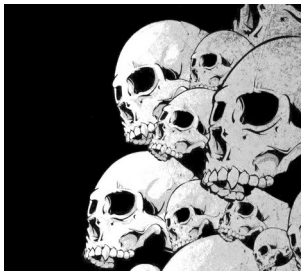
The LUFS Meter plugin measures loudness similar to the human perception of loudness.

## Luftikus :

Luftikus is a digital adaptation of an analog EQ with fixed half-octave bands and additional high frequency boost.

As an improvement to the hardware it allows deeper cuts and supports a keep-gain mode where overall gain changes are avoided.





# DISTRHO – 4/7

## Mverb :



MVerb is a studio quality, open-source reverb.

Its release was intended to provide a practical demonstration of Dattorro's figure-of-eight reverb structure and provide the open source community with a high quality reverb.

## Nekobi :

Nekobi is a simple single-oscillator synth based on the Roland TB-303.



## Obxd :

Obxd is emulation of famous ob-x, ob-xa and ob8 synths.

While not copying originals, some of the features were taken to a better point.





# DISTRHO – 5/7

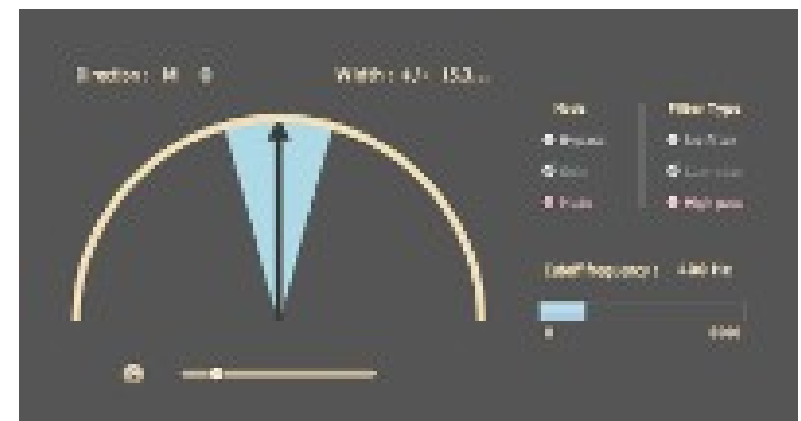


## Pitched Delay :

PitchedDelay is a delay that allows the pitching the delayed signal, within or outside the feedback loop.

## Stereo Source Separator :

This is a plugin that uses the spatial information hidden in the stereo signal to accomplish source separation.





# DISTRHO – 6/7

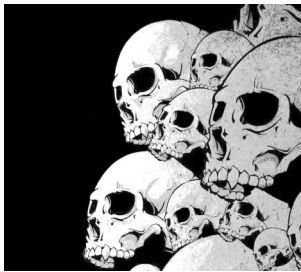


## TAL :

This is a plugin pack from TAL (Togu Audio Line), now available for Linux.

In this pack you will find TAL Dub-3, Filter, NoiseMaker, Reverb and Vocoder.

A Special thanks goes to Patrick Kunz for making these awesome plugins!



# DISTRHO – 7/7



**Vex :**

Vex is a 3 oscillator subtractive wavetform synth

**Wolpertinger :**

Wolpertinger is a subtractive, antialiased polyphonic software synthesizer, now working as a LV2 plugin.

