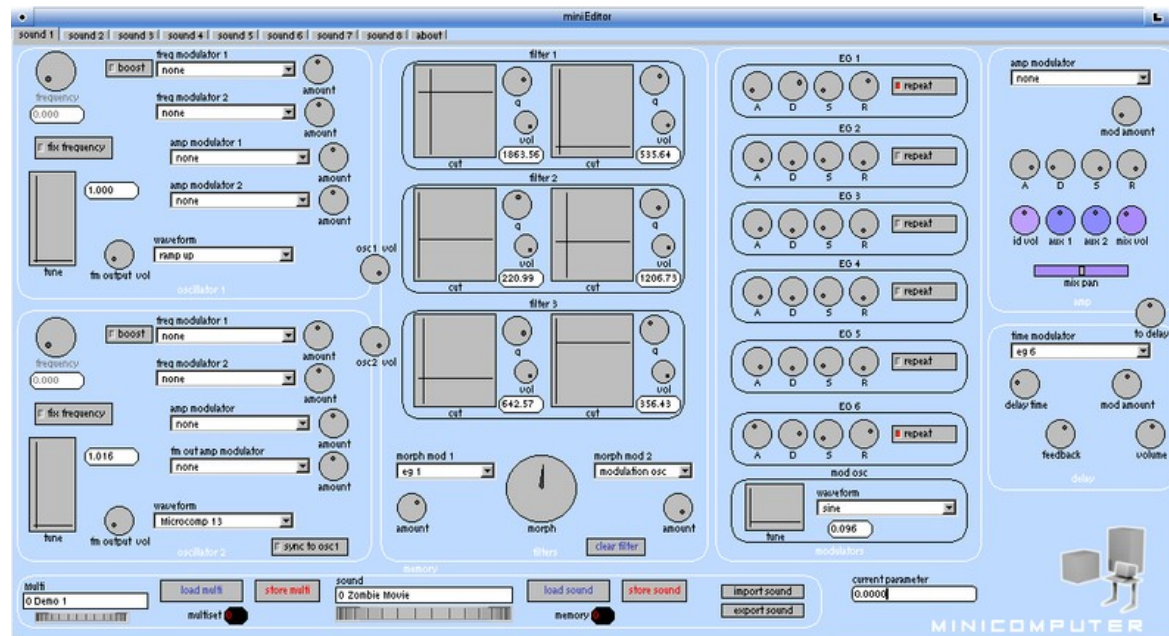




Linux and Synthesizers



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



Les synthétiseurs

ZynAddSubFX

AmSynth

Aeolus

Phasex

QMidiArp

Calf

DISTRho

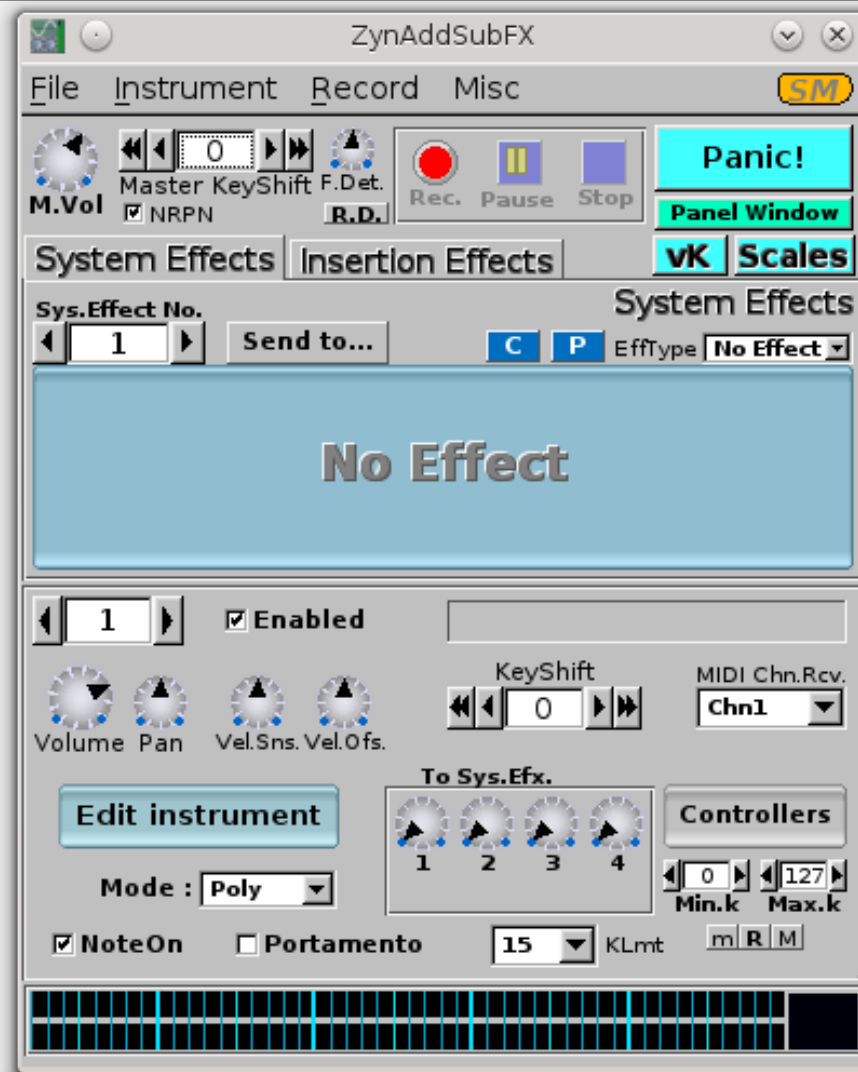
Divers

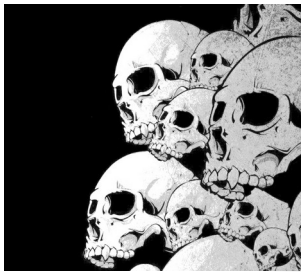


ZynAddSubFX (1/3)

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

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





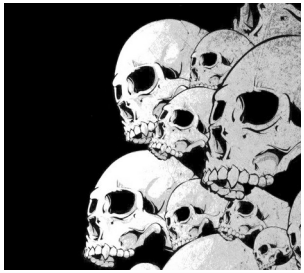
ZynAddSubFX (2/3)

/usr/share/zynaddsubfx/banks/Collection/

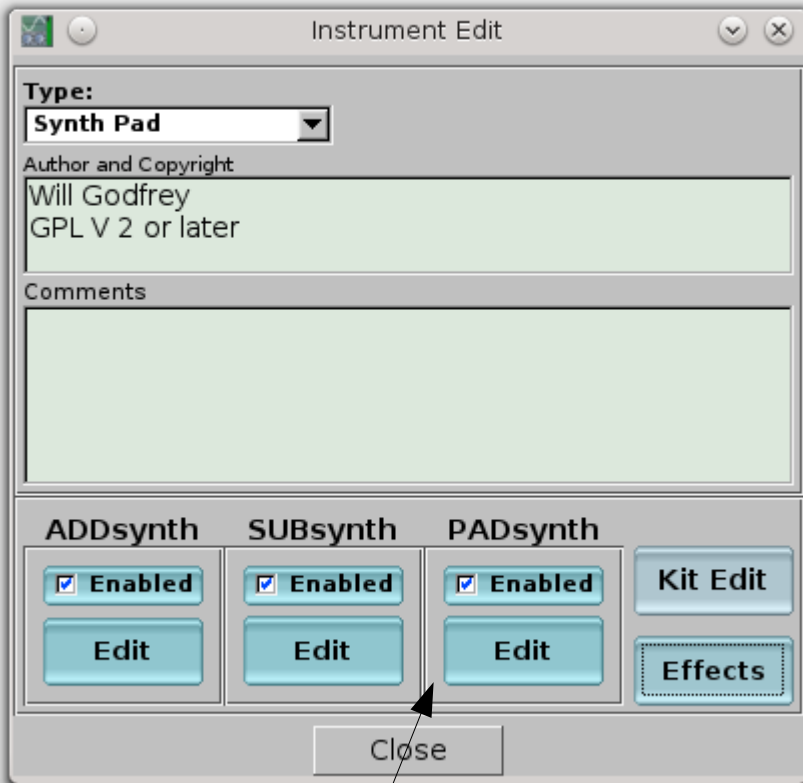
Refresh bank list New Bank...

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)



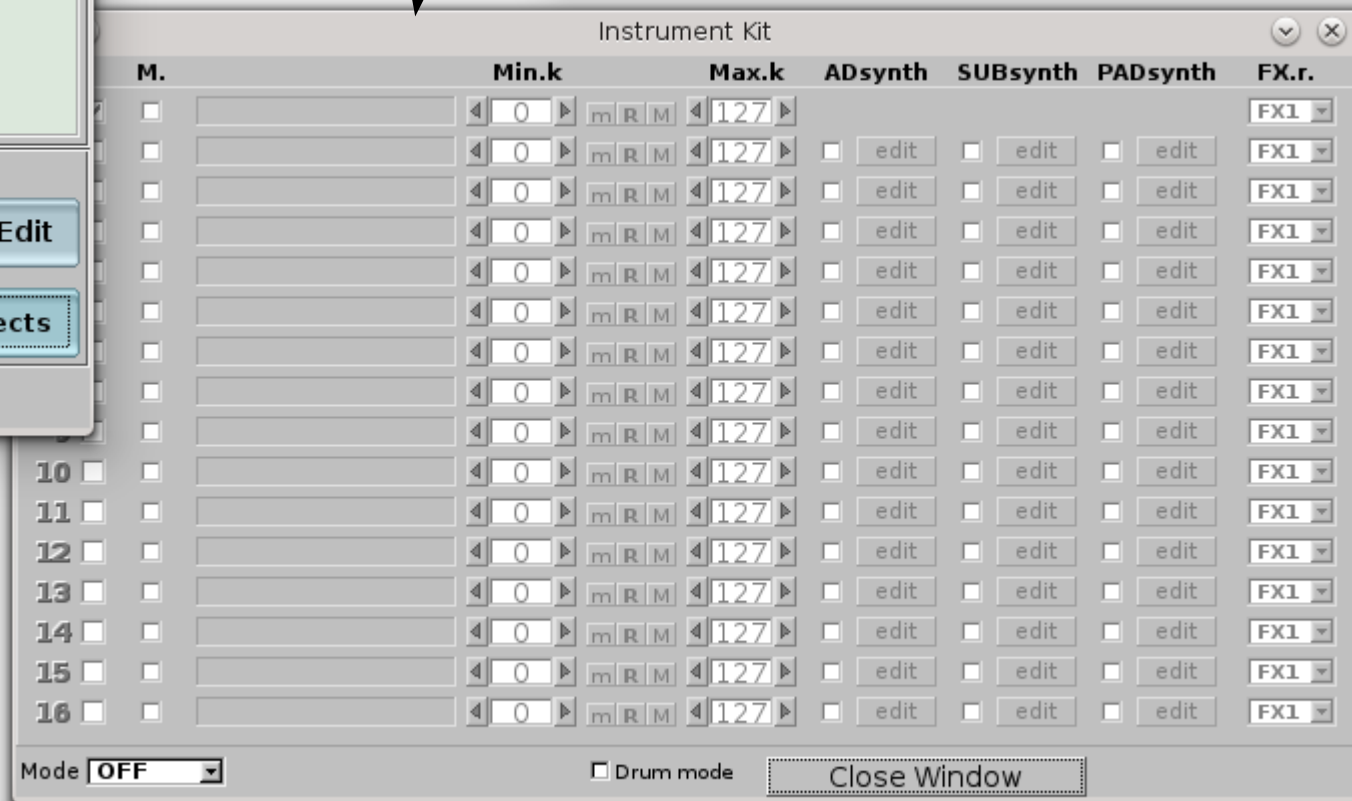
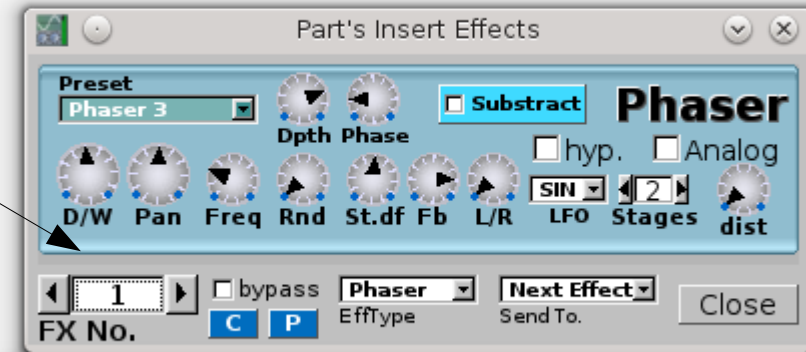
3 types de modélisation :

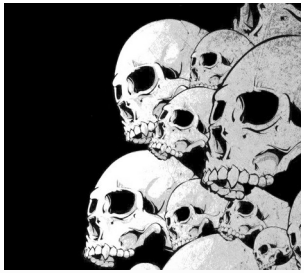
- ADDSynth
- SUBSynth
- PADSynth

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.

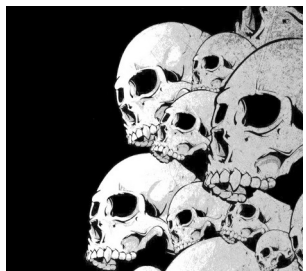
<http://code.google.com/p/amsynth/?p=index>



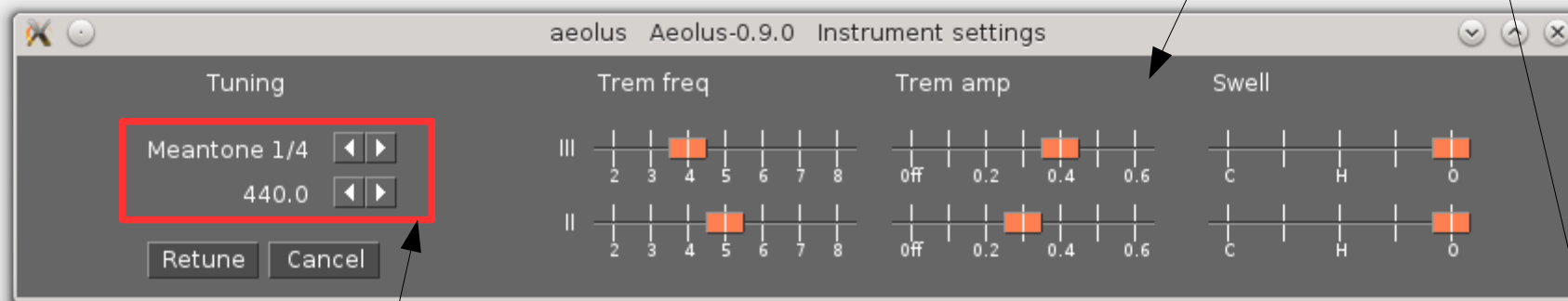
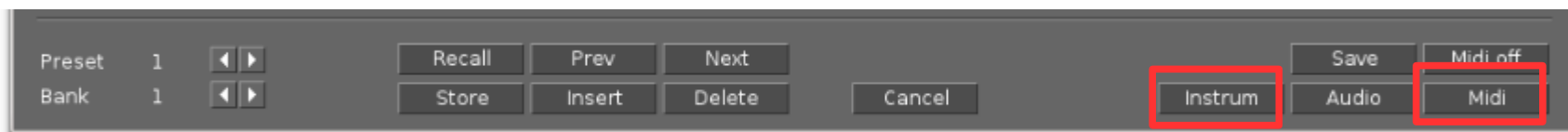
Aeolus (1/2)



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

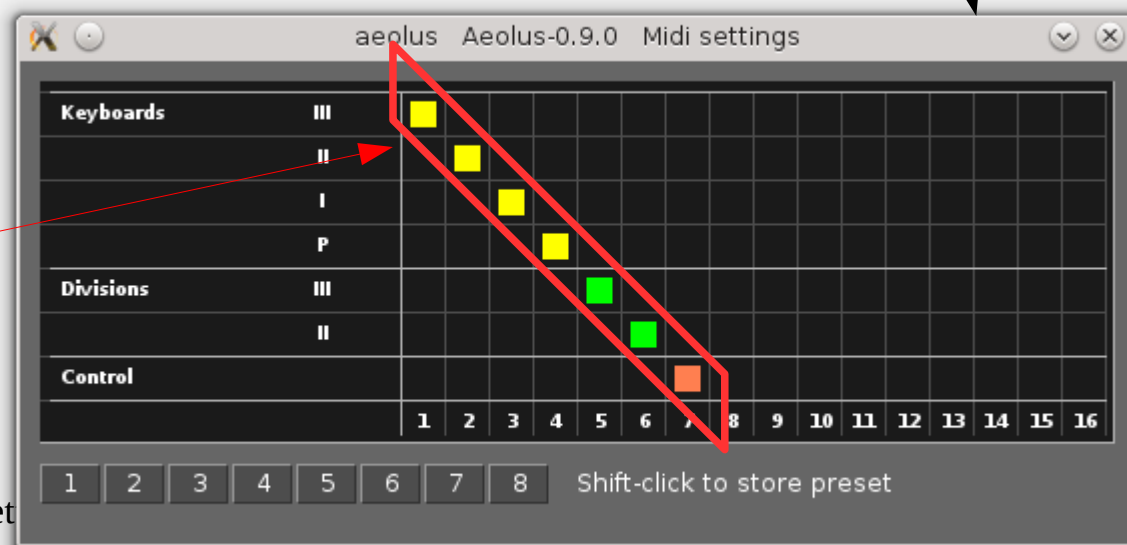


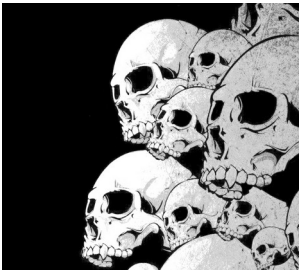
Aeolus (2/2)



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.





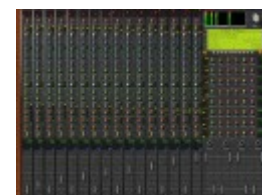
Bristol

Les monuments du synthé

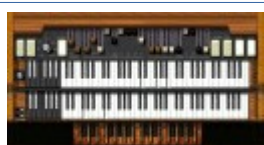
<http://bristol.sourceforge.net>



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



Minimog by



Bristol

Petit problème : bristol se lance en ligne de commande

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

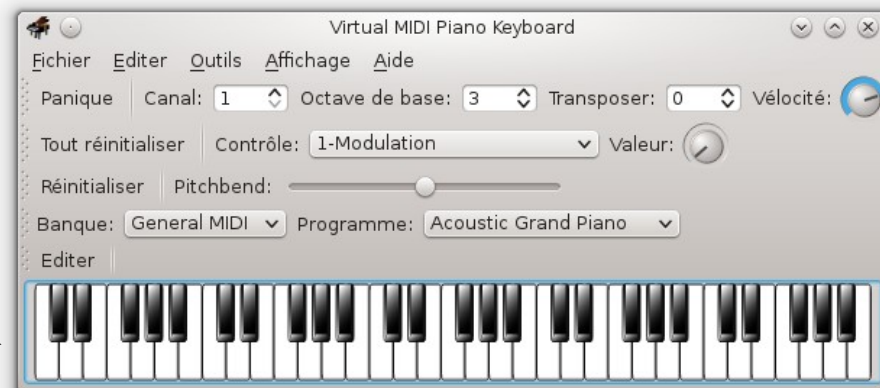
- mini : sélection du synthé
- jack: utilisation de jack pour la sortie audio
- jdo : utilisation de jack pour l'entrée midi



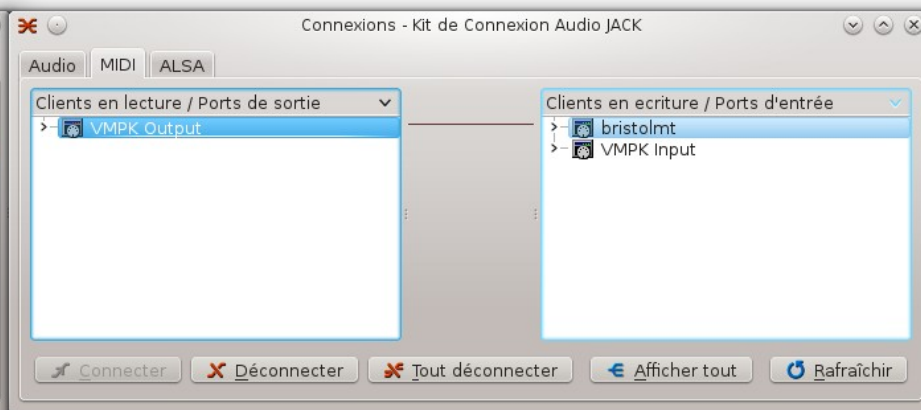
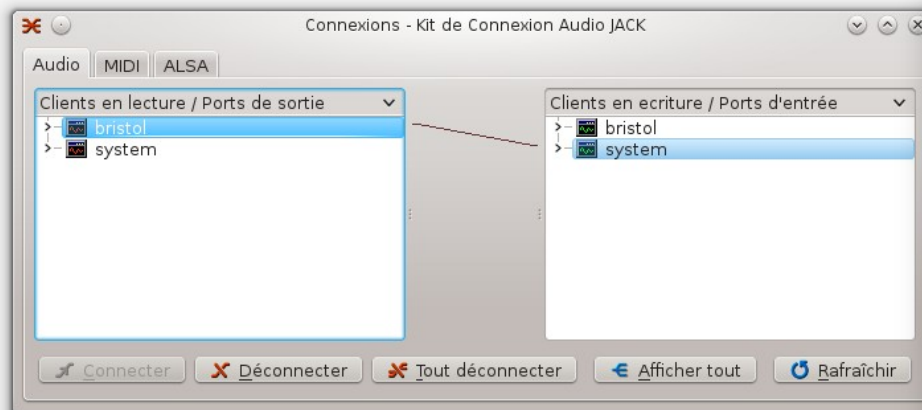
Jack audio

miniMoog

VMPK



Jack MIDI





Bristol

Liste des synthétiseurs

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



Bristol

Liste des synthétiseurs

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

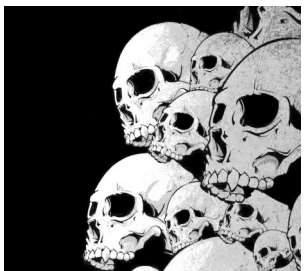


Bristol

Liste des synthétiseurs

-sidney
-melbourne
-granular
-aks
-mixer

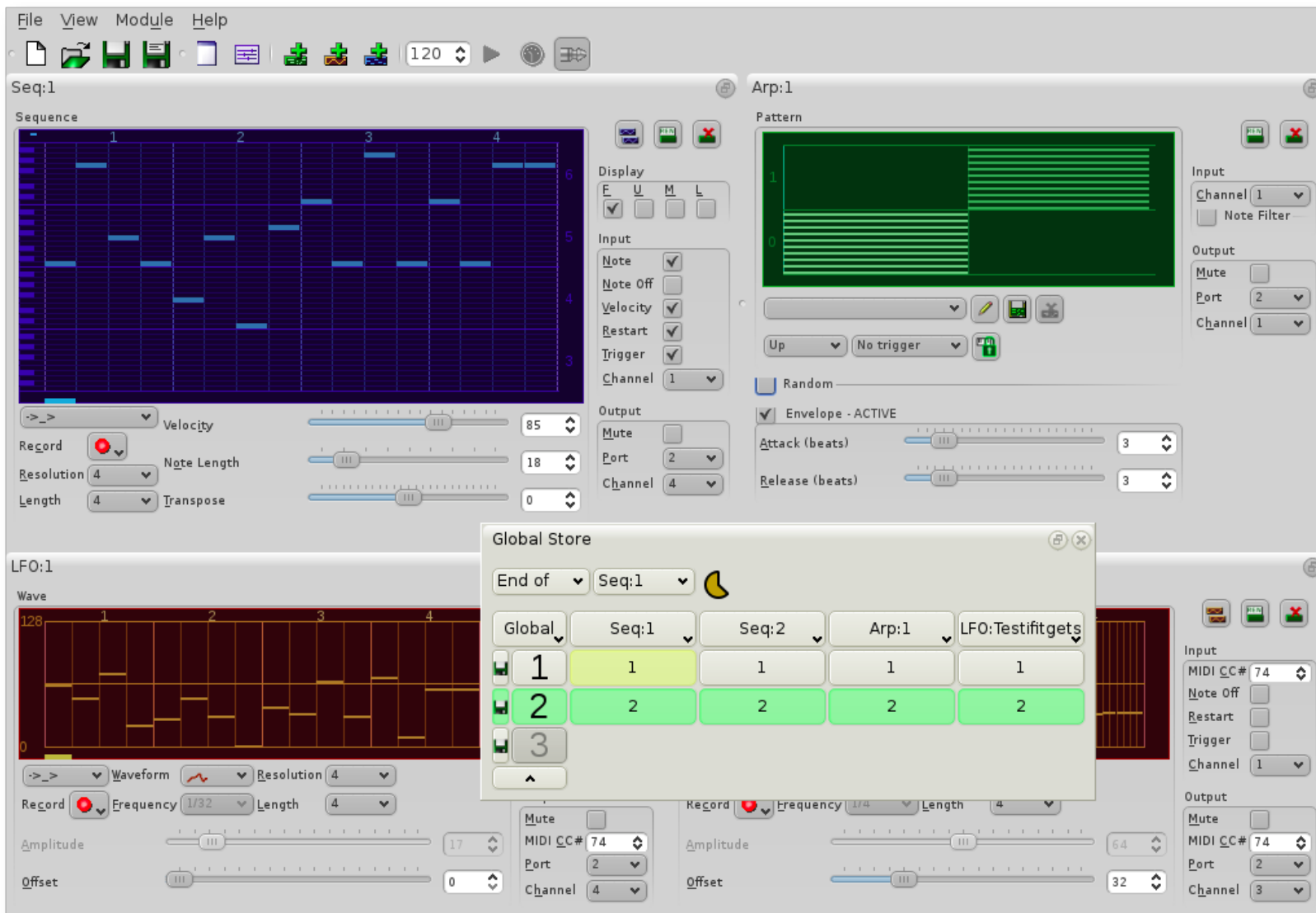
commodore-64 SID chip synth
commodore-64 SID polyphonic synth (unfinished)
granular synthesiser (unfinished)
ems synthi-a (unfinished)
16 track mixer (unfinished: **-libtest** only)

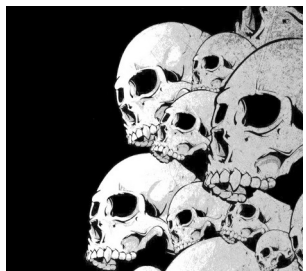


QMidiArp

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

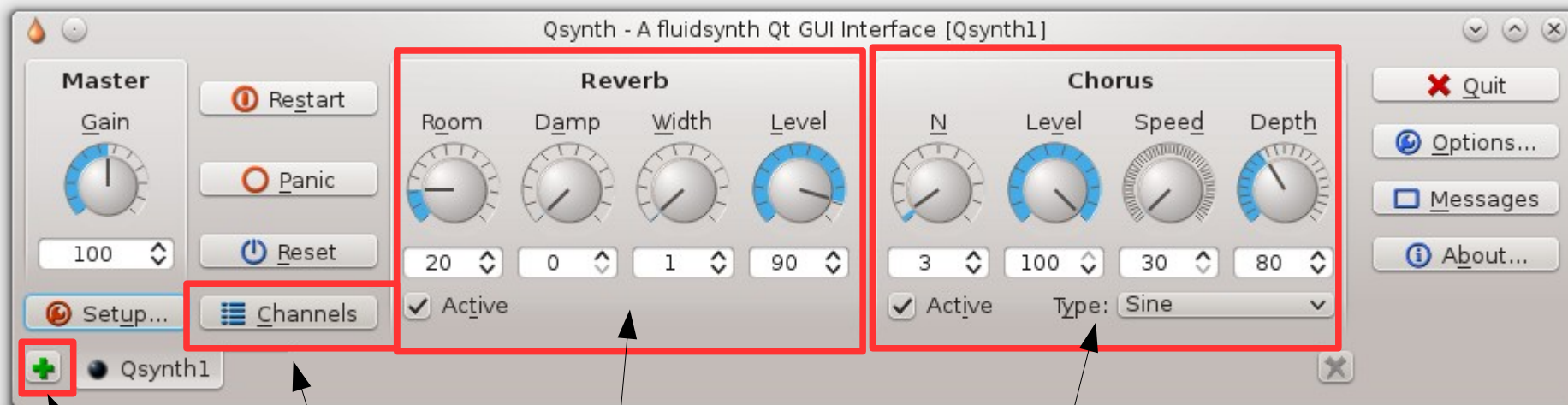
Pour transformer
une note MIDI en
séquences ou autre.





QSynth

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

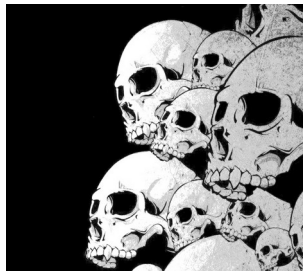


Ajouter des moteurs
fluidsynth

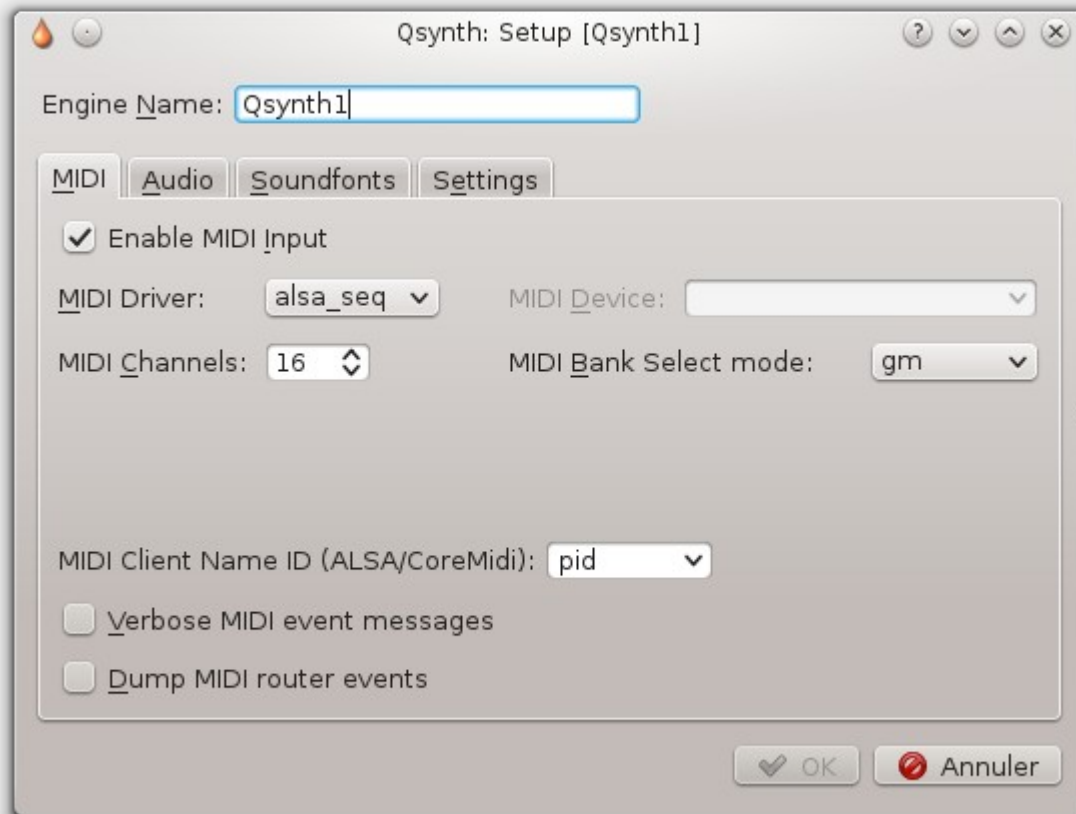
Réglages

Réverbération
globale

Chorus global

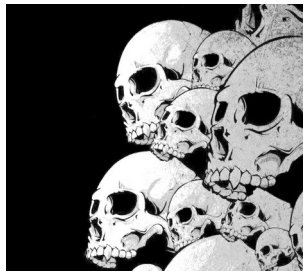


Qsynth Setup 1/4



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

- alsa_seq
- jack



Qsynth Setup 2/4



Modification du nom du moteur

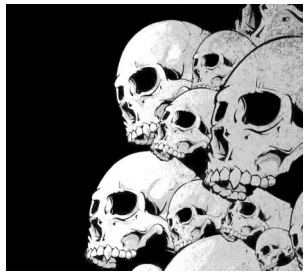
Sélection du driver audio :

- jack

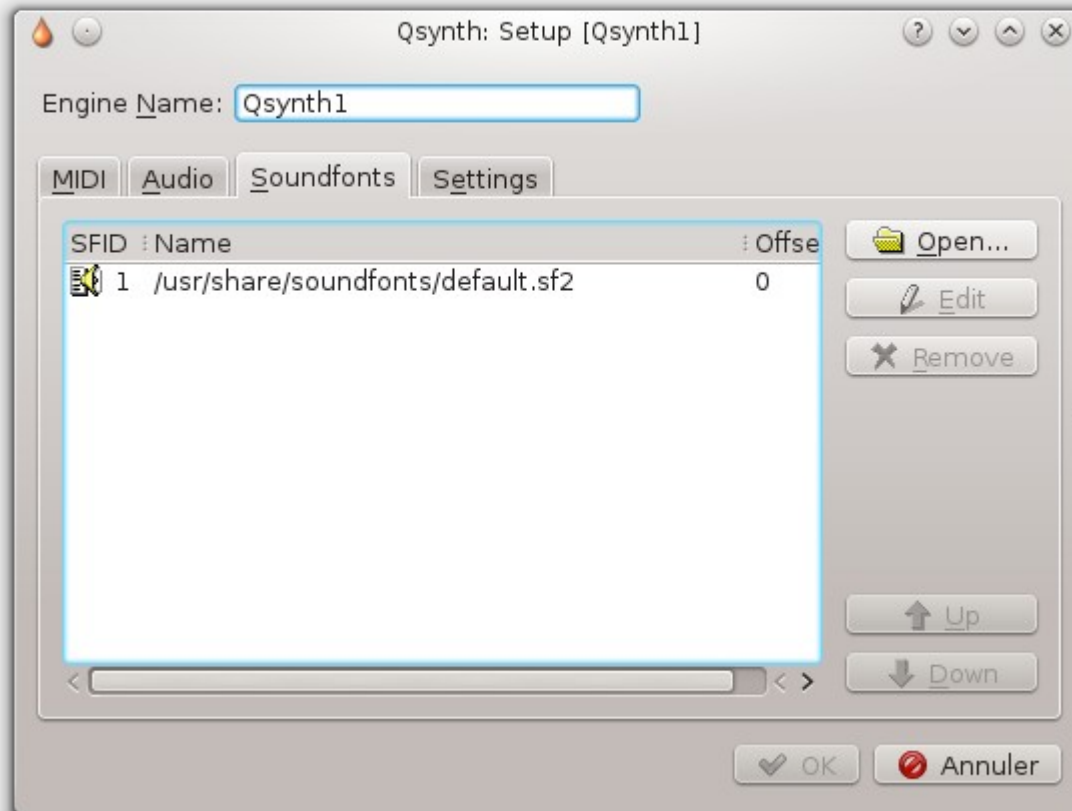
- alsa

Sélection de certains paramètres audio

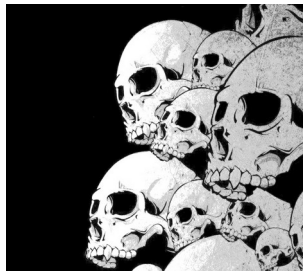
Modification du nom Jack



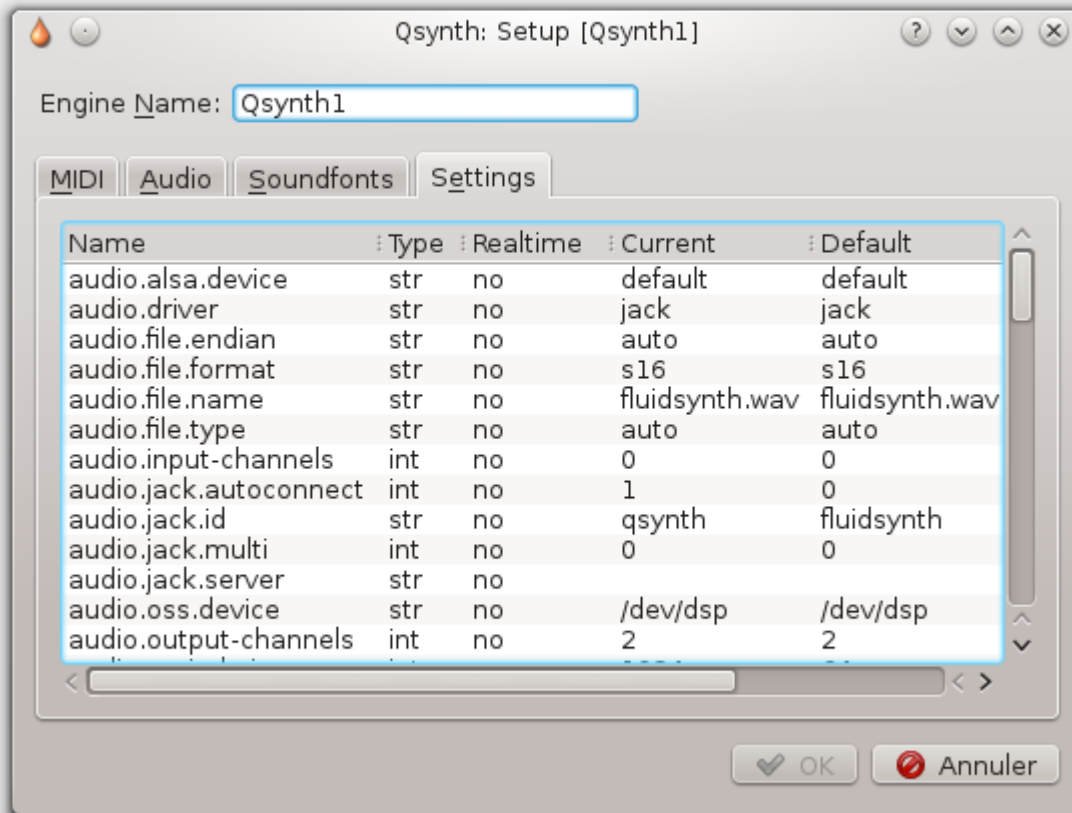
Qsynth Setup 3/4



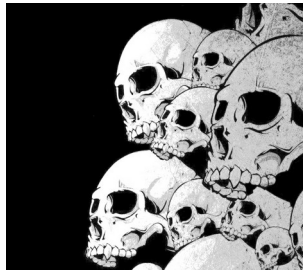
Fenêtre de chargement des
SoundFonts



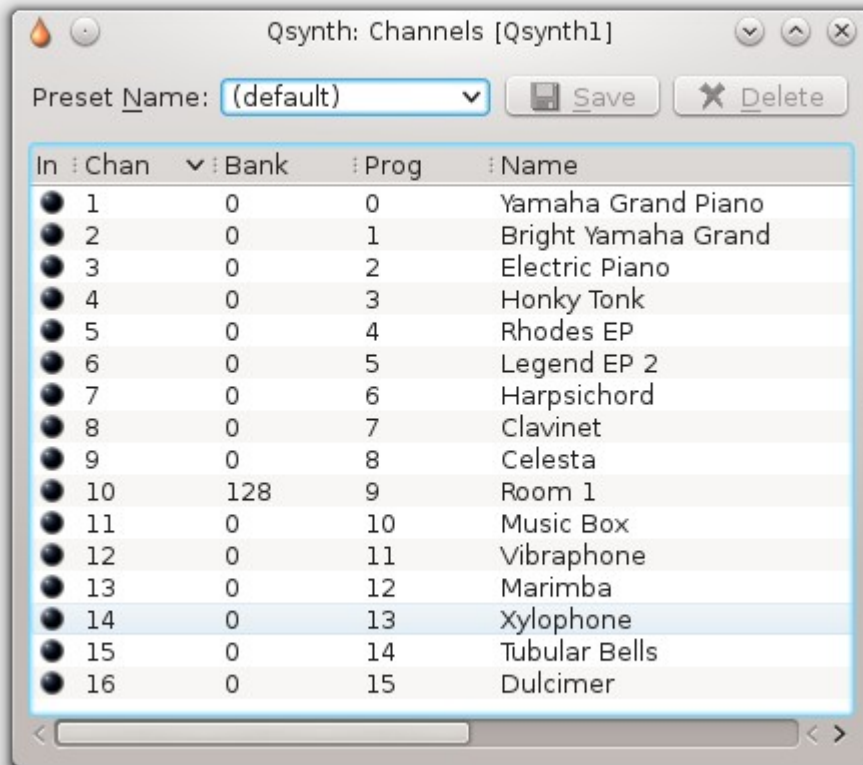
Qsynth Setup 4/4



Fenêtre de réglage des options de fluidsynth



Qsynth Channels

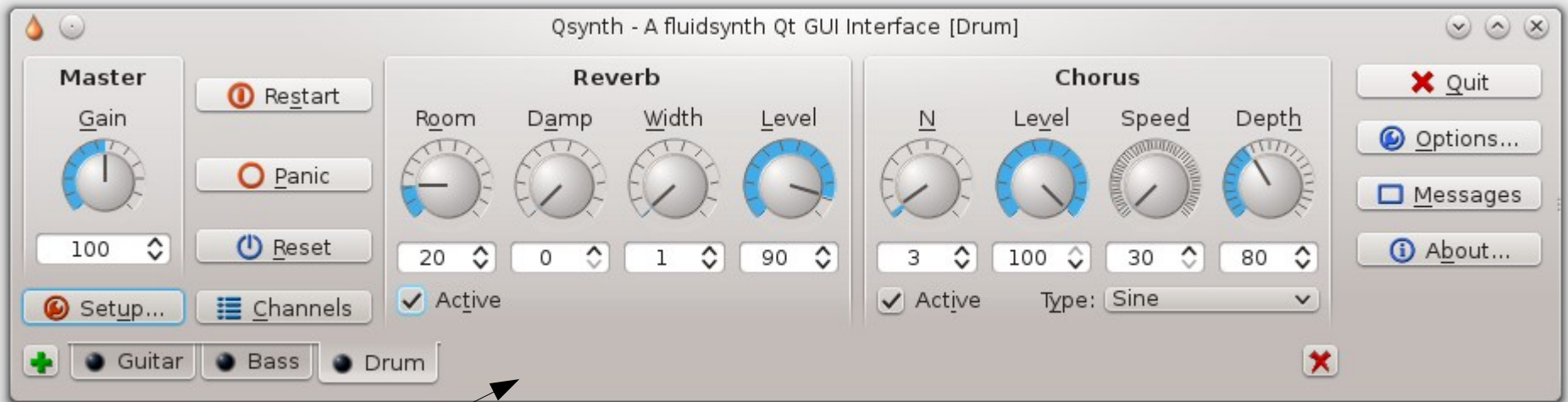


Fenêtre d'affectation des instruments et des canaux.

1 fenêtre par moteur fluidsynth.



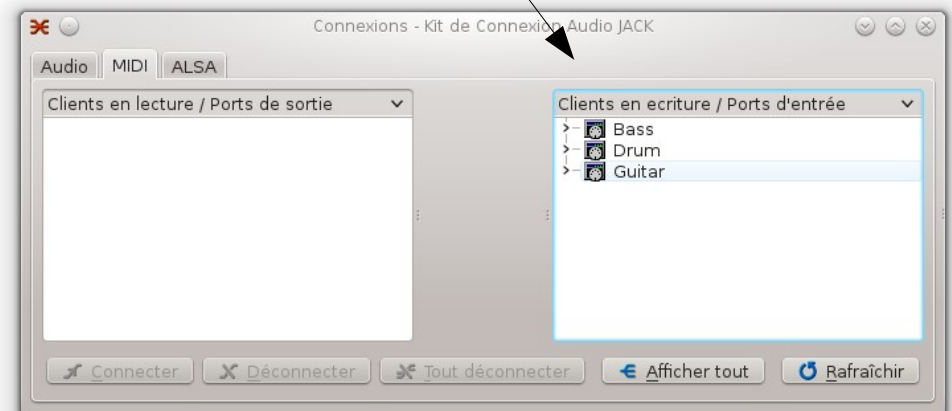
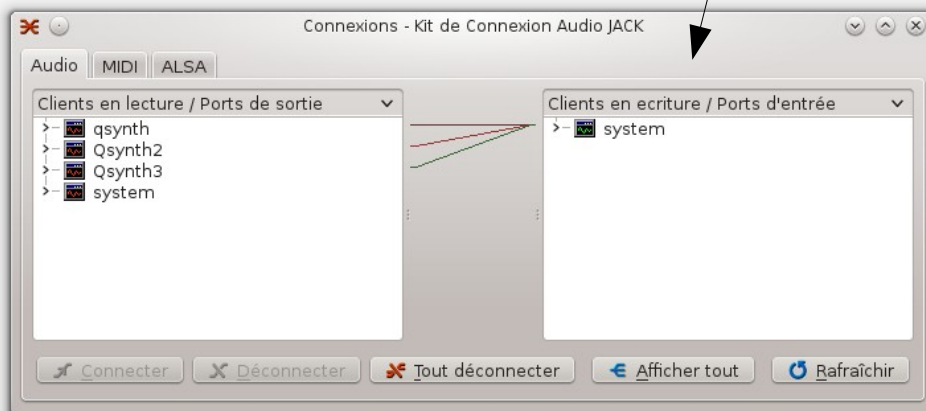
QSynth

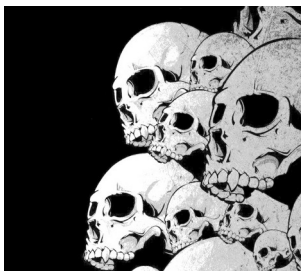


Coté QSynth

Coté Jack audio

Coté Jack MIDI

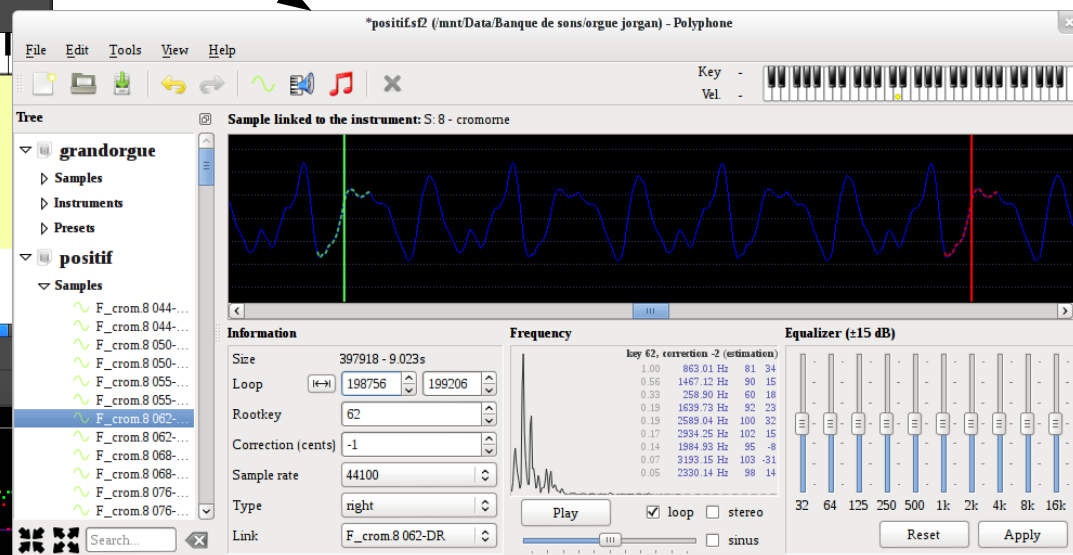
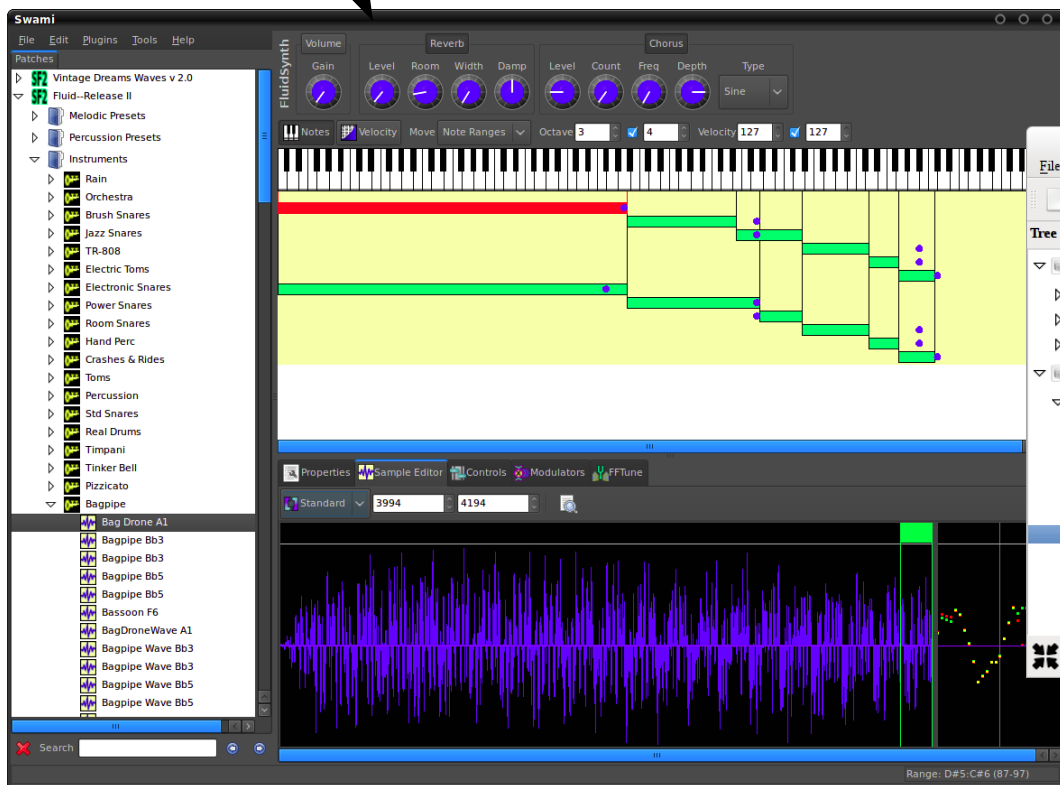


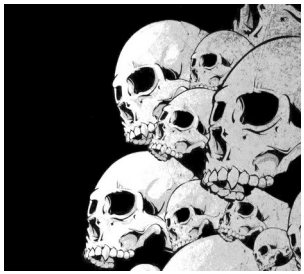


SF2

Pour modifier ou créer une Sound Font SF2 :

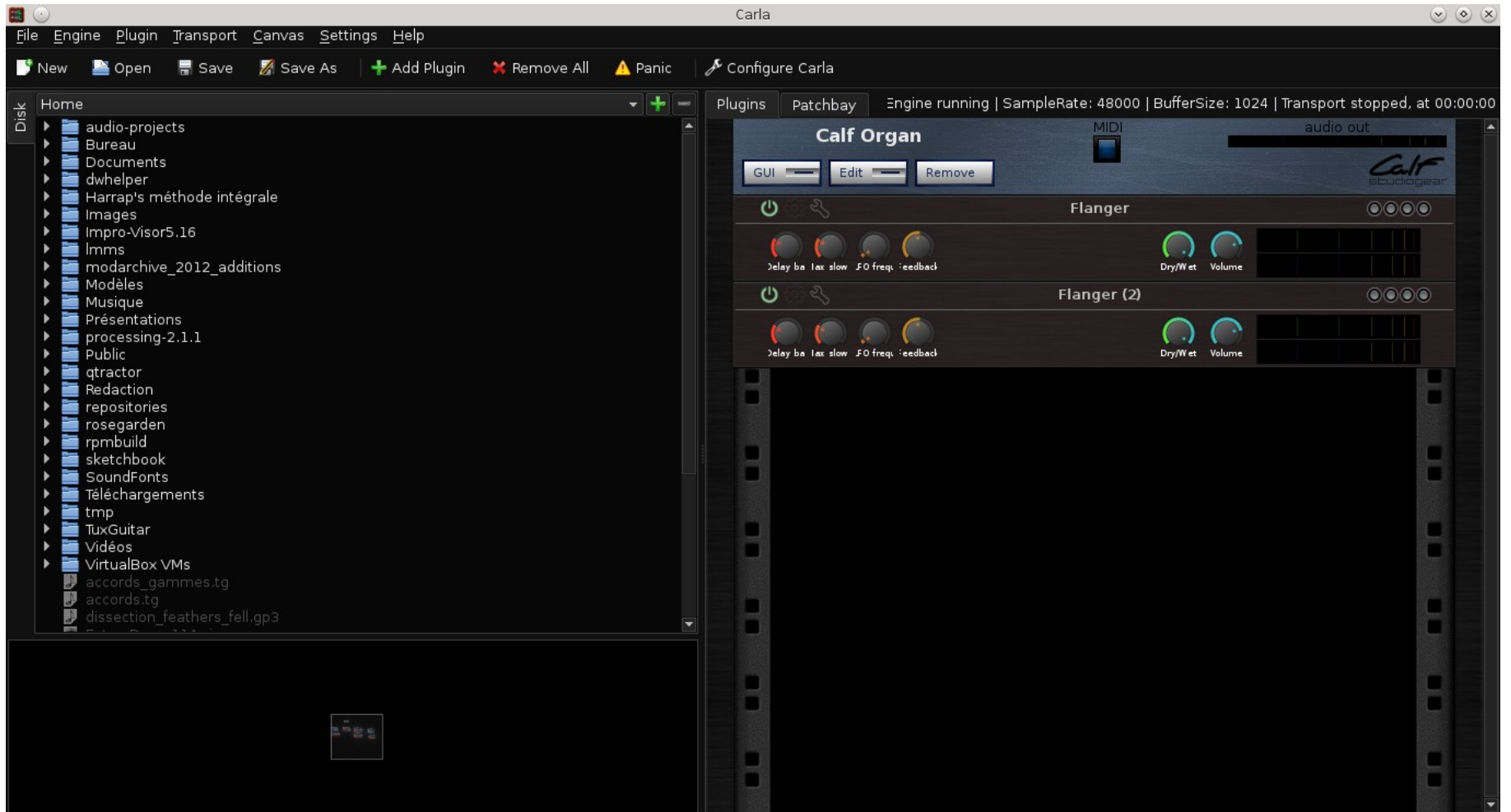
- Polyphone (<http://www.polyphone.fr>)
- Swami (<http://www.swamiproject.org>)



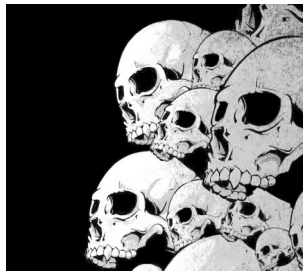


Carla

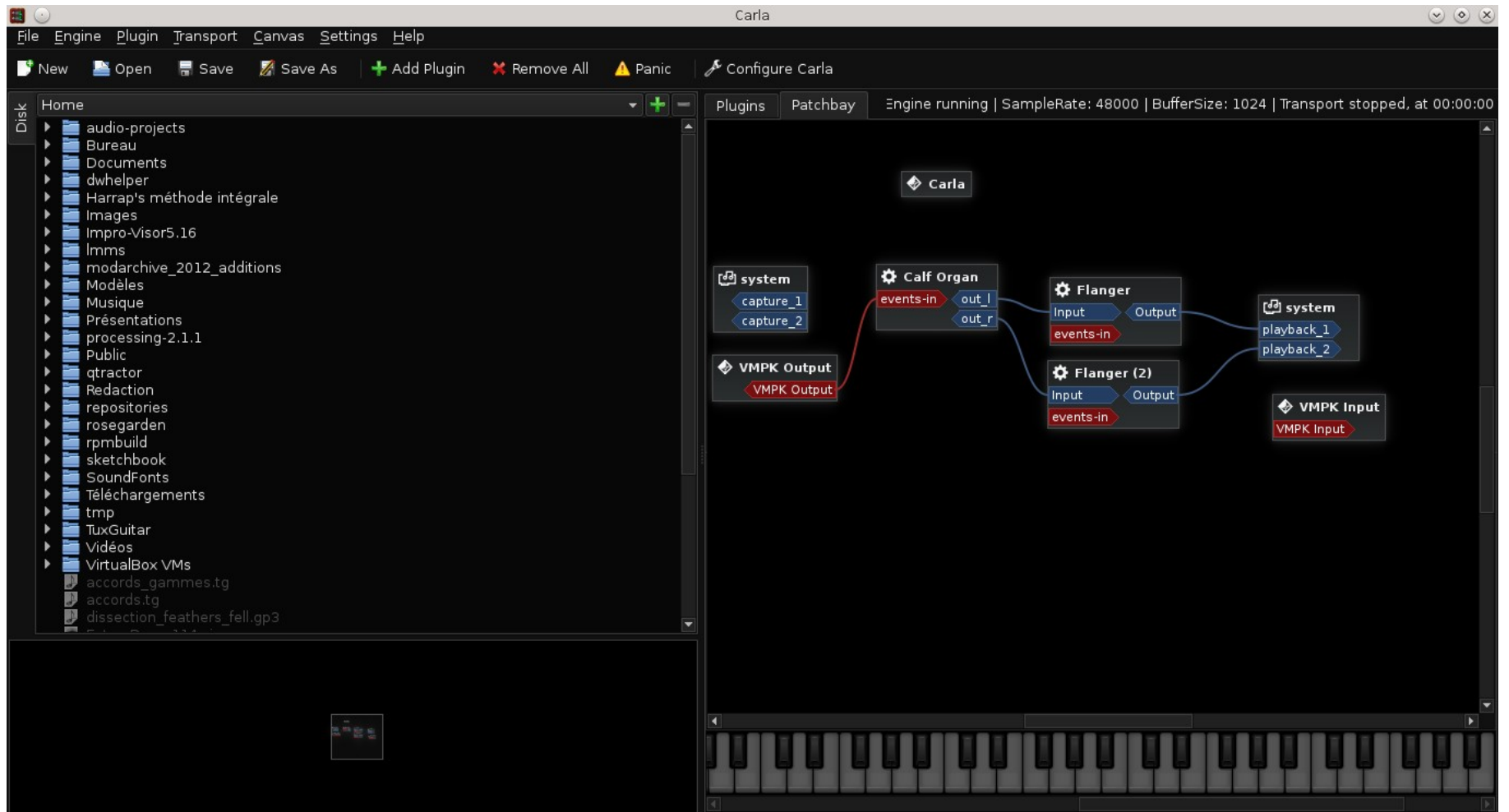
Rack des plugins



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



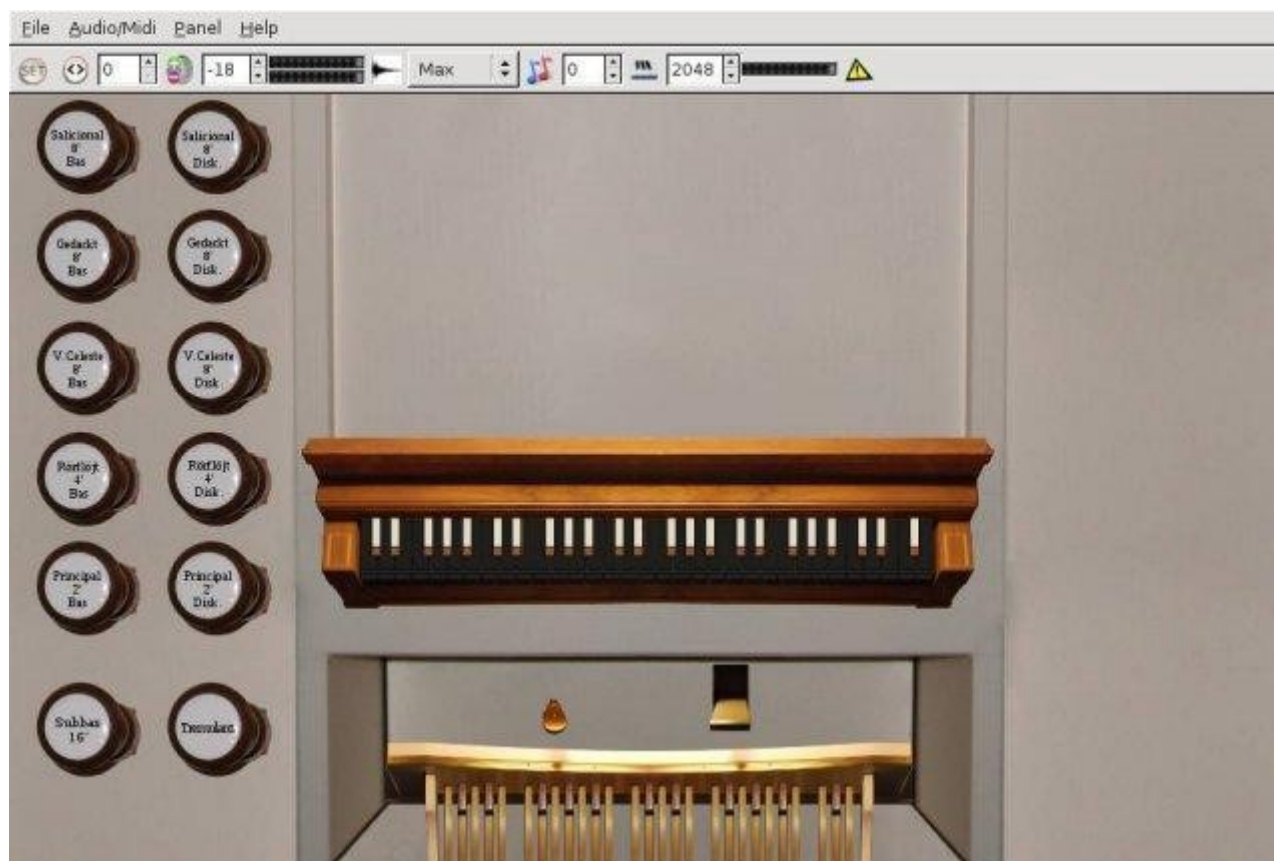
Carla Patchbay





Ourorgan

Un orgue à samples



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



LinuxSampler

Un player de samples

Supporte les formats :

- SF2
- SFZ
- GIG

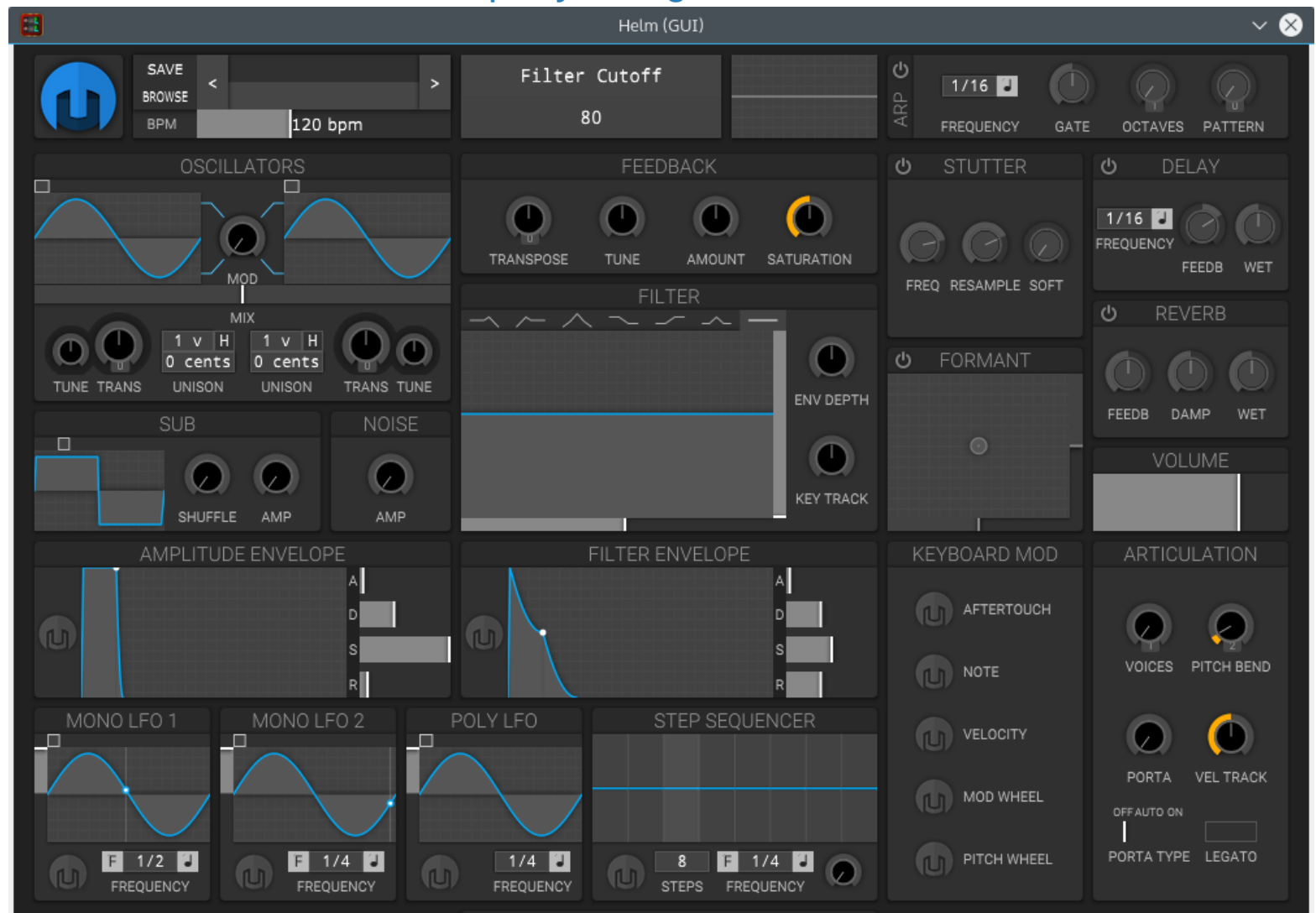


<https://linuxsampler.org/>



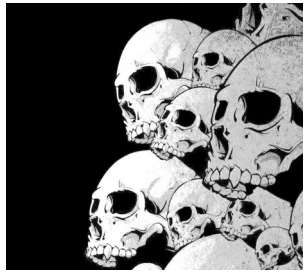
Helm

<http://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

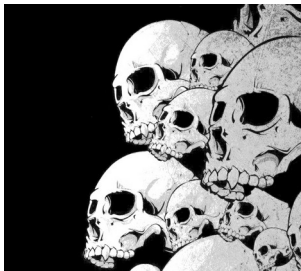
TAL-Vocoder-2

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.

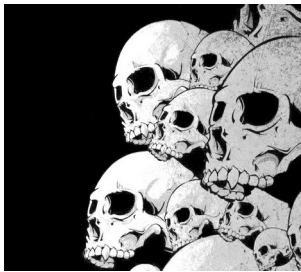
The goal of this synth is to be a tool/companion for the original DX7.



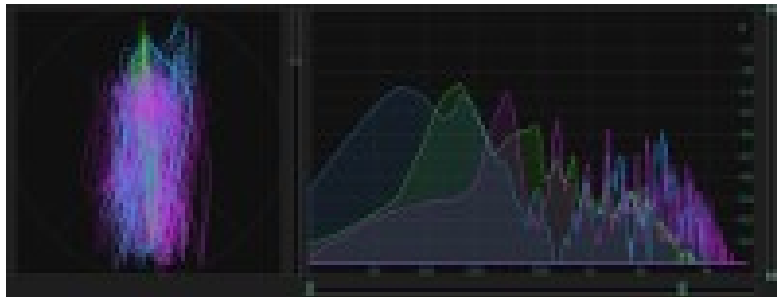
DrowAudio :

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.

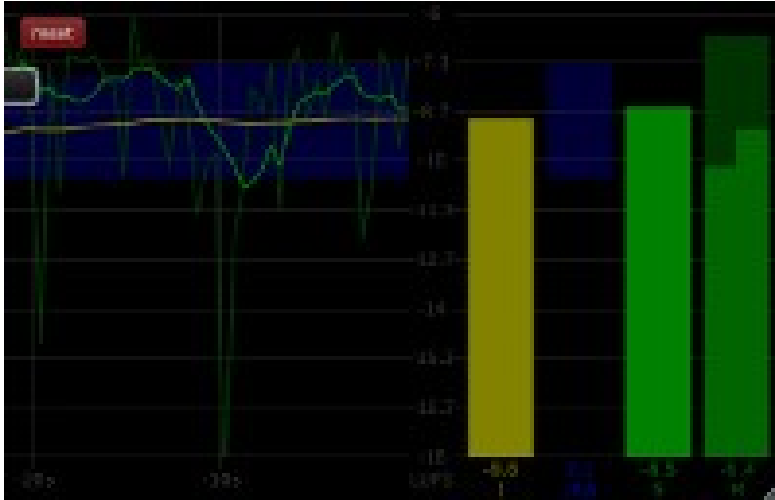


KlangFalter :

KlangFalter is a convolution audio plugin.



DISTRHO – 3/7



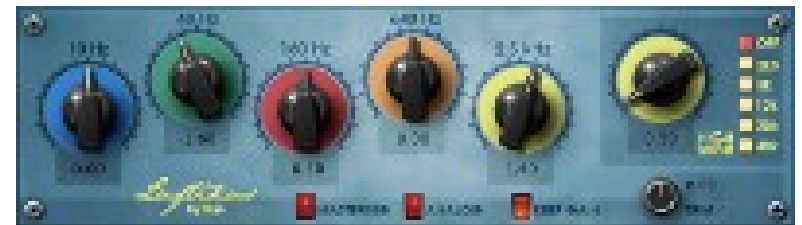
LUFS Meter :

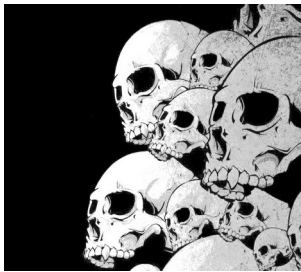
The LUFS Meter plugin measures loudness similar to the human perception of loudness.

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 :

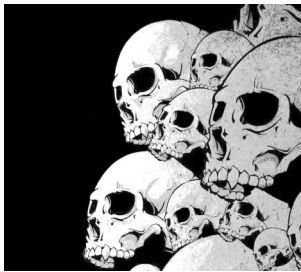
Nekobi is a simple single-oscillator synth based on the Roland TB-303.



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



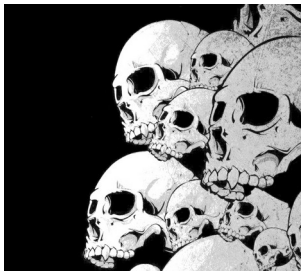
Pitched Delay :

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

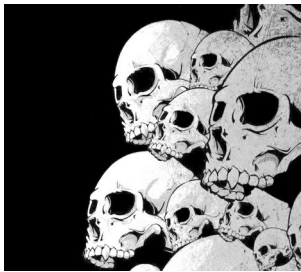


TAL :

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 wavetom synth

Wolpertinger :

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

