Holy City Audio Forum

Former Home of SpinCAD Designer

Filter Block

Post a reply

Filter Block (#p1812)

by **Rebel_88** » Fri Sep 19, 2014 2:43 am

Hi everyone,
I want to ask a question about the filter menu.
I'm trying to use this block but i can't understand how to do it properly.
The first question is about the 2P State Variable filter. I have understood that it give me 3 output the Low Pass, The High Pass and the Band pass.
When i open its control panel i can see a Frequency level and a resonance level.
I think that the frequency mean a cut of frequency for the low pass and the high pass but if i want the band pass how i can set my frequency range?
And the resonance is the gain at the frequency i have choosen?
The second is about a varible filter like the one in the Wah Wah. It is possible to create an auto wah with this software? i have found an FV-1 AutoWah on youtube and this is not bad
http://www.youtube.com/watch?v=f2yLL3fnsCY (http://www.youtube.com/watch?v=f2yLL3fnsCY) .
I'm trying to do something similar with an High Pass 2P a Smoother an LFO and knob but i have noticed that if i change with the knob slider (manually) the filter frequency i can hear the "wha" but if i set the lfo with smoother it is not more audible and if i delete the smoother the effect is so bad.
Any idea?

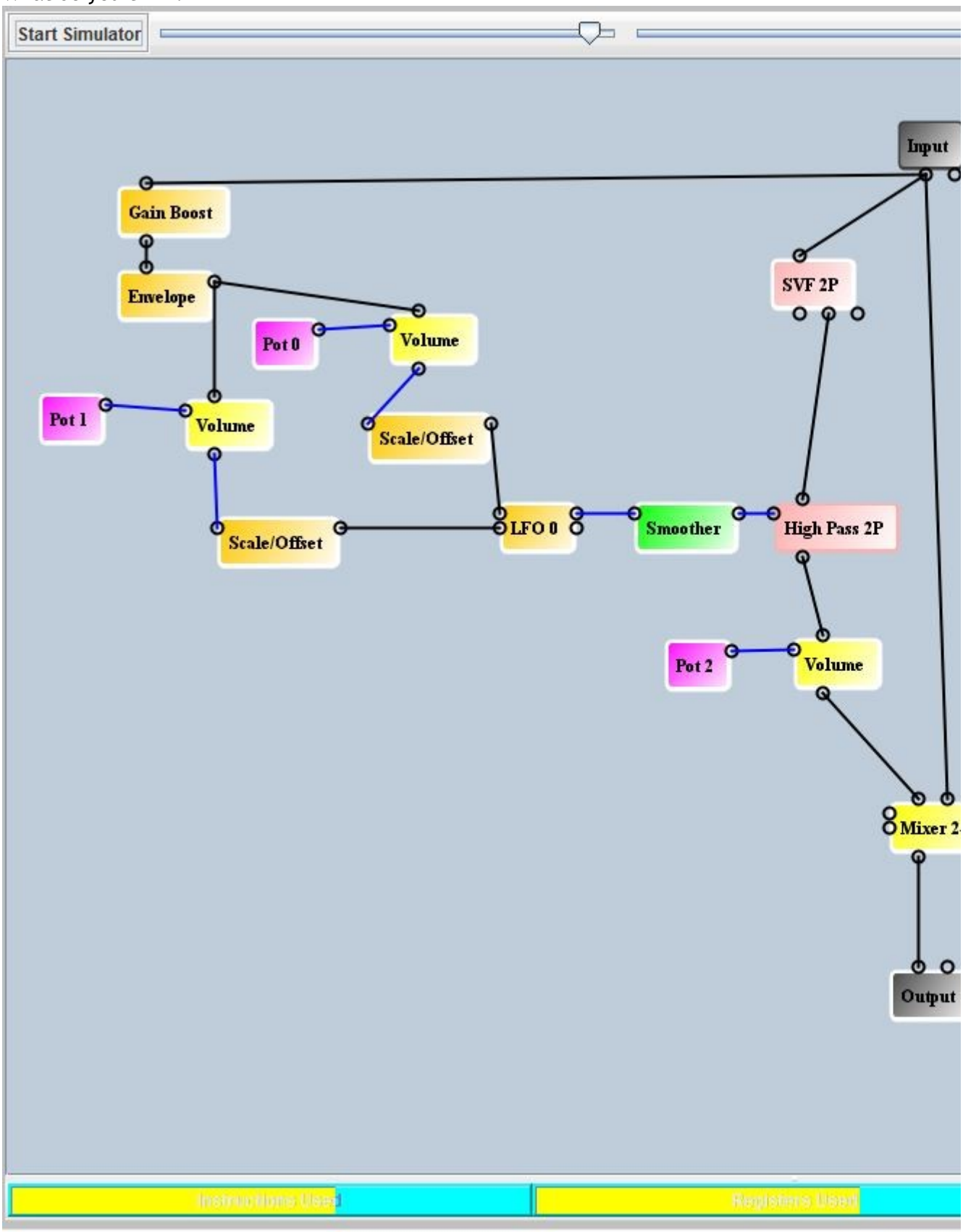
Top

- Edit post (./posting.php?mode=edit&f=31&p=1813)
- Delete post (./posting.php?mode=delete&f=31&p=1813)
- Report this post (./report.php?f=31&p=1813)
- Warn user (./mcp.php?i=warn&mode=warn_post&f=31&p=1813&sid=befaf904784df501ab581b011c284453)
- Information (./mcp.php?i=main&mode=post_details&f=31&p=1813&sid=befaf904784df501ab581b011c284453)
- Reply with quote (./posting.php?mode=quote&f=31&p=1813)

Re: Filter Block (#p1813)

by **Rebel_88** » Fri Sep 19, 2014 3:13 am

This is my idea of auto wah but it is not pretty good. It seems a phaser with an envelope control. What do you think?



Link

http://sdvpedali@sdvpedali.altervista.org/DIY/Spincad/Wah/AutoWah.rar (http://sdvpedali@sdvpedali.altervista.org/DIY/Spincad/Wah/AutoWah.rar)

Top

- Edit post (./posting.php?mode=edit&f=31&p=1814)
- Delete post (./posting.php?mode=delete&f=31&p=1814)
- Report this post (./report.php?f=31&p=1814)
- Information (./mcp.php?i=main&mode=post_details&f=31&p=1814&sid=befaf904784df501ab581b011c284453)
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Re: Filter Block (#p1814)

by **Digital Larry** » Fri Sep 19, 2014 5:44 am

Here is my variation on your block.

Image (https://imageshack.com/i/p3HWwJQYp)

1) I took out the bandpass prior to the moving highpass - didn't see any need for it.
2) I removed the LFO - to drive the filter "directly" from the envelope signal.
3) I added a scale/offset just prior to the filter input, so I could adjust the position of the sweep.
4) I added a power control at the output of the envelope detector to adjust the "curve" of the sweep. Try different values for the "Power" variable as well as flip/invert (which may not be working properly in build 837, so I will include the Spin ASM from my development build).
5) I moved the "filter" parameter down in the envelope block, to give a smoother output. It is not in the least bit obvious how to use this block! This would be like the capacitor after your full wave rectifier in an envelope follower circuit. The range of useful values is actually way over on the left side of the slider and should be improved/expanded. If the filter is set too high, then you get audio frequency modulation of the filter, which has a special sound - not necessarily a good sound, just special.
6) I took the volume control out from the HP filter output and connected Pot2 to the mixer control input - same end result, but saves a few instructions.

I just tested this using the simulator, and I am guessing you will need to adjust the envelope input gain (or the gain boost) to get the correct sensitivity for your actual circuit.

```
;  Program: Render Block exported from SpinCAD Designer
;------ Input
;------ Pot 0
;------ Pot 2
;------ Gain Boost
RDAX ADCL,1.0000000000
SOF -2.0000000000,0.0000000000
SOF -2.0000000000,0.0000000000
WRAX REG0,0.0000000000
;------ Envelope
RDAX REG0,1.0000000000
ABSA
SOF -2.0000000000,0.0000000000
SOF -2.0000000000,0.0000000000
SOF -1.2500000000,0.0000000000
```

```
SOF -1.0000000000,0.0000000000
RDFX REG1,0.0004300000
WRAX REG1,0.0000000000
;------ Power
RDAX REG1,1.0000000000
WRAX REG2,1.0000000000
MULX REG2
MULX REG2
WRAX REG3,0.0000000000
;------ Volume
RDAX REG3,1.0000000000
MULX POT0
WRAX REG4,0.0000000000
;------ Scale/Offset
RDAX REG4,1.0000000000
SOF 0.5000000000,0.5000000000
WRAX REG5,0.0000000000
;------ 2 pole high pass
SKP RUN ,3
CLR
WRAX REG8,0.0000000000
WRAX REG9,0.0000000000
RDAX REG5,1.0000000000
SOF 0.5000000000,-0.5000000000
EXP 1.0,0.0
WRAX REG6,0.0000000000
RDAX REG5,1.0000000000
SOF 1.0000000000,-0.9990000000
EXP 1.0,0.0
WRAX REG7,0.0000000000
RDAX REG8,1.0000000000
MULX REG6
RDAX REG9,1.0000000000
WRAX REG9,-1.0000000000
RDAX REG8,-0.2000000000
RDAX ADCL,1.0000000000
WRAX REG10,1.0000000000
MULX REG6
RDAX REG8,1.0000000000
WRAX REG8,0.0000000000
;------ Mixer 2-1
RDAX REG10,1.0000000000
MULX POT2
WRAX REG11,0.0000000000
RDAX ADCL,0.3000000000
RDAX REG11,1.0000000000
WRAX REG11,0.0000000000
```

```
;------ Output
RDAX REG11,1.0000000000
WRAX DACL,0.0000000000
```

If the SPCD file doesn't open in build 837, I'll put up another experimental build soon.

Attachments
AutoWah-revised.zip (./download/file.php?id=67)
(1.93 KiB) Downloaded 9 times
Top

- Edit post (./posting.php?mode=edit&f=31&p=1815)
- Delete post (./posting.php?mode=delete&f=31&p=1815)
- Report this post (./report.php?f=31&p=1815)
- Information (./mcp.php?i=main&mode=post_details&f=31&p=1815&sid=befaf904784df501ab581b011c284453)
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Re: Filter Block (#p1815)

by **Digital Larry** » Fri Sep 19, 2014 7:07 am

I just tested the code supplied above using my Spin dev board in the effects loops of my Tech 21 guitar amp. As I expected, I had to boost the gain going to the envelope detector quite a bit to get it to move the filter.

Here's the result:

```
;  Program: Render Block exported from SpinCAD Designer
;------ Input
;------ Pot 0
;------ Pot 2
;------ Gain Boost
RDAX ADCL,1.0000000000
SOF -2.0000000000,0.0000000000
SOF -2.0000000000,0.0000000000
WRAX REG0,0.0000000000
;------ Envelope
RDAX REG0,1.0000000000
ABSA
SOF -2.0000000000,0.0000000000
SOF -2.0000000000,0.0000000000
SOF -2.0000000000,0.0000000000
SOF -2.0000000000,0.0000000000
SOF -2.0000000000,0.0000000000
SOF -2.0000000000,0.0000000000
SOF -2.0000000000,0.0000000000
SOF -2.0000000000,0.0000000000
SOF -1.2500000000,0.0000000000
SOF -1.0000000000,0.0000000000
RDFX REG1,0.0004300000
```

```
WRAX REG1,0.0000000000
;------ Power
RDAX REG1,1.0000000000
WRAX REG2,1.0000000000
MULX REG2
MULX REG2
WRAX REG3,0.0000000000
;------ Volume
RDAX REG3,1.0000000000
MULX POT0
WRAX REG4,0.0000000000
;------ Scale/Offset
RDAX REG4,1.0000000000
SOF 0.5000000000,0.5000000000
WRAX REG5,0.0000000000
;------ 2 pole high pass
SKP RUN ,3
CLR
WRAX REG8,0.0000000000
WRAX REG9,0.0000000000
RDAX REG5,1.0000000000
SOF 0.5000000000,-0.5000000000
EXP 1.0,0.0
WRAX REG6,0.0000000000
RDAX REG5,1.0000000000
SOF 1.0000000000,-0.9990000000
EXP 1.0,0.0
WRAX REG7,0.0000000000
RDAX REG8,1.0000000000
MULX REG6
RDAX REG9,1.0000000000
WRAX REG9,-1.0000000000
RDAX REG8,-0.2000000000
RDAX ADCL,1.0000000000
WRAX REG10,1.0000000000
MULX REG6
RDAX REG8,1.0000000000
WRAX REG8,0.0000000000
;------ Mixer 2-1
RDAX REG10,1.0000000000
MULX POT2
WRAX REG11,0.0000000000
RDAX ADCL,0.3000000000
RDAX REG11,1.0000000000
WRAX REG11,0.0000000000
;------ Output
RDAX REG11,1.0000000000
```

```
WRAX DACL,0.0000000000
```

Top
- Edit post (./posting.php?mode=edit&f=31&p=1816)
- Delete post (./posting.php?mode=delete&f=31&p=1816)
- Report this post (./report.php?f=31&p=1816)
- Information (./mcp.php?i=main&mode=post_details&f=31&p=1816&sid=befaf904784df501ab581b011c284453)
- Reply with quote (./posting.php?mode=quote&f=31&p=1816)

Re: Filter Block (#p1816)

by **Digital Larry** » Fri Sep 19, 2014 7:17 am

> ***Rebel_88 wrote:***
> Hi everyone,
> The first question is about the 2P State Variable filter. I have understood that it give me 3 output the Low Pass, The High Pass and the Band pass.
> When i open its control panel i can see a Frequency level and a resonance level.
> I think that the frequency mean a cut of frequency for the low pass and the high pass but if i want the band pass how i can set my frequency range?
> And the resonance is the gain at the frequency i have chosen?

The State Variable filter is a 2-pole filter. What this means is:
a) Above the cutoff frequency, the response of the low pass output rolls off at -12 dB/octave.
b) Below the cutoff frequency, the response of the high pass output rolls off at -12 dB/octave.
c) The bandpass output peaks at the cutoff frequency. It rolls off above and below this frequency at -12 dB/octave.

The bandpass is in effect the overlap of the high pass and low pass filters.

Check this article from Stanford's CCRMA: https://ccrma.stanford.edu/~jos/svf/svf.pdf (https://ccrma.stanford.edu/~jos/svf/svf.pdf)
Look at the frequency response plots.

The resonance factor is a number that goes into the calculation of the filter coefficients. Resonance of 1 = no peaking (no resonance). Above 1, there is starting to be some resonance, meaning that there is a peak at the cutoff frequency, even for low pass and high pass. Higher value = more resonant. It's not exactly the "gain" though. I suggest adjusting this by ear and being very careful with higher resonance values, which may boost so much at the peak frequency that it causes distortion.

Top
- Edit post (./posting.php?mode=edit&f=31&p=1817)
- Delete post (./posting.php?mode=delete&f=31&p=1817)
- Report this post (./report.php?f=31&p=1817)
- Information (./mcp.php?i=main&mode=post_details&f=31&p=1817&sid=befaf904784df501ab581b011c284453)
- Reply with quote (./posting.php?mode=quote&f=31&p=1817)

Re: Filter Block (#p1817)

by **Digital Larry** » Fri Sep 19, 2014 11:30 am

Another thing to note about the Envelope Follower block is that it does not (yet) implement a fast peak follower. If you make the response time longer (by using smaller values of the filter parameter), then this will apply to the filter opening and closing. It can be a cool effect but might not be what you were after. Somewhere there is some code to implement a peak follower. I will get around to offering that option eventually!

Top

- Edit post (./posting.php?mode=edit&f=31&p=1818)
- Delete post (./posting.php?mode=delete&f=31&p=1818)
- Report this post (./report.php?f=31&p=1818)
- Information (./mcp.php?i=main&mode=post_details&f=31&p=1818&sid=befaf904784df501ab581b011c284453)
- Reply with quote (./posting.php?mode=quote&f=31&p=1818)

Re: Filter Block (#p1818)

by **Digital Larry** » Fri Sep 19, 2014 12:29 pm

I worked on the filter block and I came up with something that sounds pretty cool here anyway!

Image (https://imageshack.com/i/paDDNceMp)

Pot0 = sensitivity
Pot1 = filter offset
Pot2 = reverb level/time

Take a look at it and let me know if there's anything that you don't understand. As usual the scale/offset blocks are critical to "tuning" the sound of the effect. Many variations on the basic sound can be achieved through adjustments to the scale/offset blocks - especially the ones connected to Pot1, which affect the sweep positions of the filters.

If the filter is not sensitive enough, add some more gain through the Gain Boost block before the Envelope block. This is really going to depend on the specifics of the circuit that you have the FV-1 hooked up in, your playing style, and your guitar.

```
;  Program: Render Block exported from SpinCAD Designer
;------ Input
;------ Pot 0
;------ Gain Boost
RDAX ADCL,1.0000000000
SOF -2.0000000000,0.0000000000
SOF -2.0000000000,0.0000000000
SOF -2.0000000000,0.0000000000
SOF -2.0000000000,0.0000000000
SOF -2.0000000000,0.0000000000
SOF -2.0000000000,0.0000000000
WRAX REG0,0.0000000000
;------ Envelope
RDAX REG0,1.0000000000
ABSA
```

```
RDFX REG1,0.0002360000
WRAX REG1,0.0000000000
;------ Pot 1
;------ Power
RDAX REG1,1.0000000000
MULX REG1
MULX REG1
WRAX REG2,0.0000000000
;------ Volume
RDAX REG2,1.0000000000
MULX POT0
WRAX REG3,0.0000000000
;------ 1 pole low pass
RDAX REG4,0.9548416074
RDAX ADCL,0.0451583926
WRAX REG4,0.0000000000
;------ Pot 2
;------ Scale/Offset
RDAX POT1,1.0000000000
SOF 0.2000000000,0.3900000000
WRAX REG5,0.0000000000
;------ Scale/Offset
RDAX REG3,1.0000000000
SOF 1.0000000000,0.0000000000
WRAX REG6,0.0000000000
;------ Scale/Offset
RDAX POT2,1.0000000000
SOF 0.7500000000,0.2500000000
WRAX REG7,0.0000000000
;------ Scale/Offset
RDAX POT1,1.0000000000
SOF 0.2900000000,0.4000000000
WRAX REG8,0.0000000000
;------ Scale/Offset
RDAX POT2,1.0000000000
SOF 0.1700000000,0.1900000000
WRAX REG9,0.0000000000
;------ Control Mixer
RDAX REG3,1.0000000000
RDAX REG5,1.0000000000
WRAX REG10,0.0000000000
;------ 2 pole high pass
SKP RUN ,3
CLR
WRAX REG13,0.0000000000
WRAX REG14,0.0000000000
RDAX REG10,1.0000000000
```

```
SOF 0.5000000000,-0.5000000000
EXP 1.0,0.0
WRAX REG11,0.0000000000
RDAX REG10,1.0000000000
SOF 1.0000000000,-0.9990000000
EXP 1.0,0.0
WRAX REG12,0.0000000000
RDAX REG13,1.0000000000
MULX REG11
RDAX REG14,1.0000000000
WRAX REG14,-1.0000000000
RDAX REG13,-0.2000000000
RDAX ADCL,1.0000000000
WRAX REG15,1.0000000000
MULX REG11
RDAX REG13,1.0000000000
WRAX REG13,0.0000000000
;------ Control Mixer
RDAX REG6,1.0000000000
RDAX REG8,1.0000000000
WRAX REG16,0.0000000000
;------ 2 pole low pass
RDAX REG16,1.0000000000
SOF 0.3500000000,-0.3500000000
EXP 1.0,0.0
WRAX REG17,0.0000000000
RDAX REG16,1.0000000000
SOF 1.0000000000,-0.9990000000
EXP 1.0,0.0
WRAX REG18,0.0000000000
RDAX REG20,1.0000000000
MULX REG17
RDAX REG19,1.0000000000
WRAX REG19,-1.0000000000
RDAX REG20,-0.4000000000
RDAX ADCL,0.2500000000
MULX REG17
RDAX REG20,1.0000000000
WRAX REG20,0.0000000000
;------ Gain Boost
RDAX REG20,1.0000000000
SOF -2.0000000000,0.0000000000
SOF -2.0000000000,0.0000000000
WRAX REG23,0.0000000000
;------ Mixer 2-1
RDAX REG15,0.7200000000
WRAX REG24,0.0000000000
```

```
RDAX REG23,0.7200000000
RDAX REG24,1.0000000000
WRAX REG24,0.0000000000
;------ Minimum reverb
RDAX REG24,0.2500000000
RDA 122,0.325
WRAP 0,-1.0
RDA 426,0.325
WRAP 123,-1.0
RDA 980,0.325
WRAP 427,-1.0
RDA 1903,0.325
WRAP 981,-1.0
WRAX REG25,1.0000000000
RDA 21990,1.0
MULX REG9
RDA 5727,-0.325
WRAP 1904,0.325
WRA 5728,1.99
RDAX REG25,1.0000000000
RDA 12240,1.0
MULX REG9
RDA 16973,-0.325
WRAP 12241,0.325
WRA 16974,1.99
WRAX REG26,0.0000000000
;------ Mixer 3-1
RDAX REG4,0.3333333333
WRAX REG27,0.0000000000
RDAX REG24,0.3333333333
RDAX REG27,1.0000000000
WRAX REG27,0.0000000000
RDAX REG26,0.3333333333
MULX REG7
RDAX REG27,1.0000000000
WRAX REG27,0.0000000000
;------ Output
RDAX REG27,1.0000000000
WRAX DACL,0.0000000000
```

Attachments
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Top

- Edit post (./posting.php?mode=edit&f=31&p=1820)
- Delete post (./posting.php?mode=delete&f=31&p=1820)
- Report this post (./report.php?f=31&p=1820)
- Warn user (./mcp.php?i=warn&mode=warn_post&f=31&p=1820&

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- Information (./mcp.php?i=main&mode=post_details&f=31&p=1820&sid=befaf904784df501ab581b011c284453)
- Reply with quote (./posting.php?mode=quote&f=31&p=1820)

Re: Filter Block (#p1820)

by **Rebel_88** » Fri Sep 19, 2014 9:55 pm

Hi Digital Larry,
you are great!
It has a nice sound and working a little bit on it i think i'll get my sound.
Thank you for your pdf file, i didn't know it was a Butterworth filter and so you have only the OmegaC. Now it is more clear.
All your filters are Butterworth?
The last question is about a block of the patch: the Power block.
What is is used for? It is like a selective gain boost that works following an exponential curve?
Thank you for your work and to help me.

Top
- Edit post (./posting.php?mode=edit&f=31&p=1821)
- Delete post (./posting.php?mode=delete&f=31&p=1821)
- Report this post (./report.php?f=31&p=1821)
- Information (./mcp.php?i=main&mode=post_details&f=31&p=1821&sid=befaf904784df501ab581b011c284453)
- Reply with quote (./posting.php?mode=quote&f=31&p=1821)

Re: Filter Block (#p1821)

by **Digital Larry** » Sat Sep 20, 2014 6:06 am

Hi Rebel_88,

Glad you liked my work on the filter. I had a fun time working on it, but as you can see, the end result is not very simple. Also, your questions helped to point out some areas where I can improve the program and I have taken some notes to make sure I follow through on those.

Butterworth filters are also called "maximally flat" as they have no peak at the cutoff frequency. So, as soon as we adjust the resonance to create a peak, they are no longer Butterworth.

The "power block" is used to adjust the "curve" of control signals. It could be used for other things, but that's what I use it for mostly. Typically, control signals go from 0.0 to 1.0 (such as the pots). If you connect a pot to a volume control, the end result is like a linear taper potentiometer in the analog world being used for a volume control - in other words, when it's turned to halfway, the apparent volume is not decreased very much. If you run the pot through a power control and set it to 3, the effect is more like a log taper pot, which comes up gradually for most of the rotation and then increases a lot right at the end. However, I usually adjust these things by ear rather than theory. Try adjusting the power block in this patch - I got pretty different sounds. In this patch it seems to affect how abrupt the attack is on the filter movement.

Top
- Edit post (./posting.php?mode=edit&f=31&p=1822)
- Delete post (./posting.php?mode=delete&f=31&p=1822)
- Report this post (./report.php?f=31&p=1822)
- Warn user (./mcp.php?i=warn&mode=warn_post&f=31&p=1822&sid=befaf904784df501ab581b011c284453)

- Information (./mcp.php?i=main&mode=post_details&f=31&p=1822&sid=befaf904784df501ab581b011c284453)
- Reply with quote (./posting.php?mode=quote&f=31&p=1822)

Re: Filter Block (#p1822)

by **Rebel_88** » Sat Sep 20, 2014 7:19 am

Hi,
thank you for your answer now this software is getting sense to me
I made some change on the filter block I have lowered the low pass frequency to minimum and changed Scale/offset to Pot1, the sound is good but i thing we need a little bit of resonance to have a perfect sound.
I know something about Filters because I'm studying Electronic Engineering and I have studied Butterworth Chebyshev and other filters, so it was just a curiosity.

Attachments
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Top

- Edit post (./posting.php?mode=edit&f=31&p=1823)
- Delete post (./posting.php?mode=delete&f=31&p=1823)
- Report this post (./report.php?f=31&p=1823)
- Information (./mcp.php?i=main&mode=post_details&f=31&p=1823&sid=befaf904784df501ab581b011c284453)
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Re: Filter Block (#p1823)

by **Digital Larry** » Sat Sep 20, 2014 9:16 am

To adjust the LPF Q, find this line:

```
RDAX REG20,-0.4000000000
```

If you make the scaling value closer to zero, the resonance increases. I took it down to -0.01 and it was getting pretty squealy.

Similarly, find the line in the HPF block:

```
RDAX REG13,-0.2000000000
```

And adjust the scaling factor towards zero to increase resonance. Again, I tried -0.01 here which seems too much.

I think that at 0.0, the Q becomes infinite and you get an oscillator.

What values work well for you? Once we figure out a good range, then I can add this to the control panel and possibly a control input.

Thanks,

DL

Top
- Edit post (./posting.php?mode=edit&f=31&p=1824)
- Delete post (./posting.php?mode=delete&f=31&p=1824)
- Report this post (./report.php?f=31&p=1824)
- Warn user (./mcp.php?i=warn&mode=warn_post&f=31&p=1824&sid=befaf904784df501ab581b011c284453)
- Information (./mcp.php?i=main&mode=post_details&f=31&p=1824&sid=befaf904784df501ab581b011c284453)
- Reply with quote (./posting.php?mode=quote&f=31&p=1824)

Re: Filter Block (#p1824)

by **Rebel_88** » Sat Sep 20, 2014 9:28 am

Hi Digital Larry,
I was waiting a piece to finish my fv-1 pedal but it didn't arrive so i built another power limiter but when i play the instrument the pedal has a latency and its output is not clear but there are some bub or buf buf on the guitar,and if i adjust pot0 and 1 i have no change in the sound, only pot2 works so i have to adjust it.
And i can't load patches from the eeprom and i don't know why...i have followed all program tips but when i switch i don't hear anything.
I'm pretty sure my circuit is good made but if i attach a battery the voltage drop down from 10v to 7 and i can't hear sound. is this chip absorb so much?
with a power supply i can play ith but with bop sound.
If i can resolve those problems i will try the patch with your changes.

Top
- Edit post (./posting.php?mode=edit&f=31&p=1825)
- Delete post (./posting.php?mode=delete&f=31&p=1825)
- Report this post (./report.php?f=31&p=1825)
- Information (./mcp.php?i=main&mode=post_details&f=31&p=1825&sid=befaf904784df501ab581b011c284453)
- Reply with quote (./posting.php?mode=quote&f=31&p=1825)

Re: Filter Block (#p1825)

by **Digital Larry** » Sat Sep 20, 2014 9:37 am

You may wish to contact Frank over at the Spin forum for hardware related questions. At the very least you should measure the current being drawn, because I don't know what your circuit is and to be honest I'm not really an expert on the hardware implementation. Up to now I'm just using the Spin dev board and also a pedal that Ice-9 (Mick) built.

Top
- Edit post (./posting.php?mode=edit&f=31&p=1826)
- Delete post (./posting.php?mode=delete&f=31&p=1826)
- Report this post (./report.php?f=31&p=1826)
- Warn user (./mcp.php?i=warn&mode=warn_post&f=31&p=1826&sid=befaf904784df501ab581b011c284453)
- Information (./mcp.php?i=main&mode=post_details&f=31&p=1826&sid=befaf904784df501ab581b011c284453)
- Reply with quote (./posting.php?mode=quote&f=31&p=1826)

Re: Filter Block (#p1826)

by **Rebel_88** » Sat Sep 20, 2014 9:42 am

yes I'm using the Ice-9 circuit.

I have just posted something on diystompboxes page to ask for help.
I hope i will resolve it soon.
Thankyou for your help.

Top
- Edit post (./posting.php?mode=edit&f=31&p=1865)
- Delete post (./posting.php?mode=delete&f=31&p=1865)
- Report this post (./report.php?f=31&p=1865)
- Warn user (./mcp.php?i=warn&mode=warn_post&f=31&p=1865&sid=befaf904784df501ab581b011c284453)
- Information (./mcp.php?i=main&mode=post_details&f=31&p=1865&sid=befaf904784df501ab581b011c284453)
- Reply with quote (./posting.php?mode=quote&f=31&p=1865)

Re: Filter Block (#p1865)

by **Rebel_88** » Wed Oct 08, 2014 4:13 am

Hi friend I'm back!
I have ordered new chip and everything is working.
Now as soon as i can i will create other effects and i will post them on this site

Top
- Edit post (./posting.php?mode=edit&f=31&p=1866)
- Delete post (./posting.php?mode=delete&f=31&p=1866)
- Report this post (./report.php?f=31&p=1866)
- Information (./mcp.php?i=main&mode=post_details&f=31&p=1866&sid=befaf904784df501ab581b011c284453)
- Reply with quote (./posting.php?mode=quote&f=31&p=1866)

Re: Filter Block (#p1866)

by **Digital Larry** » Wed Oct 08, 2014 5:35 pm

I'm looking forward to it!

Top
- Edit post (./posting.php?mode=edit&f=31&p=1869)
- Delete post (./posting.php?mode=delete&f=31&p=1869)
- Report this post (./report.php?f=31&p=1869)
- Warn user (./mcp.php?i=warn&mode=warn_post&f=31&p=1869&sid=befaf904784df501ab581b011c284453)
- Information (./mcp.php?i=main&mode=post_details&f=31&p=1869&sid=befaf904784df501ab581b011c284453)
- Reply with quote (./posting.php?mode=quote&f=31&p=1869)

Re: Filter Block (#p1869)

by **Rebel_88** » Sat Oct 11, 2014 5:06 am

Hi,
I was playing with the Auto Wah and i have obtained a patch that should be good
I have changed some parameters, in special way in the GAIN BOOST and POWER. In this way the pedal sounds very good on solos but if you want to play with loud volumes it goes in a sort of saturation.
Let me know wat do you think about.

Attachments

AutoWah-revised-10.rar (./download/file.php?id=82)
(2.49 KiB) Downloaded 6 times
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- Report this post (./report.php?f=31&p=1870)
- Information (./mcp.php?i=main&mode=post_details&f=31&p=1870&sid=befaf904784df501ab581b011c284453)
- Reply with quote (./posting.php?mode=quote&f=31&p=1870)

Re: Filter Block (#p1870)

by **Digital Larry** » Sat Oct 11, 2014 5:22 am

Hi Rebel_88, thanks a lot for sharing your patch.

Could you please do me a favor? It is a result of the fact that when I change the program, or some detail within a certain block, then it becomes incompatible with SPCD files created with previous versions. For me to try to keep file compatibility as I am making these changes would slow down development even more than it already is.

So, #1: Please let us know which version of SpinCAD Designer you used to create this patch?
and, #2: Would you please also attach the Spin ASM output so that people can try it even if there is some SPCD file compatibility problem in the future?

Grazie,

DL

Top

- Edit post (./posting.php?mode=edit&f=31&p=1871)
- Delete post (./posting.php?mode=delete&f=31&p=1871)
- Report this post (./report.php?f=31&p=1871)
- Warn user (./mcp.php?i=warn&mode=warn_post&f=31&p=1871&sid=befaf904784df501ab581b011c284453)
- Information (./mcp.php?i=main&mode=post_details&f=31&p=1871&sid=befaf904784df501ab581b011c284453)
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Re: Filter Block (#p1871)

by **Rebel_88** » Sat Oct 11, 2014 5:34 am

Yes of course!
I'm using the **version0.96 build 837**

Thores are my files

Attachments
AutoWah-revised-10.rar (./download/file.php?id=83)
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Display posts from previous: All posts Sort by Post time Ascending Go

Post a reply
19 posts • Page **1** of **1**
Return to SpinCADBlocks

Jump to: SpinCADBlocks Go

Quick-mod tools: Lock topic Go

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