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My first patch : Delay with phaser

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My first patch : Delay with phaser (#p1807)

by **Rebel_88** » Thu Sep 18, 2014 4:09 am

Hi every one,

I'm a new user of this chip and software.

I have build a guitar pedal that is a delay with phaser on repetition and now i want to do the same with this dsp. (0.96 build 837)

So i want to post it to get your feedback an learn how to do it.

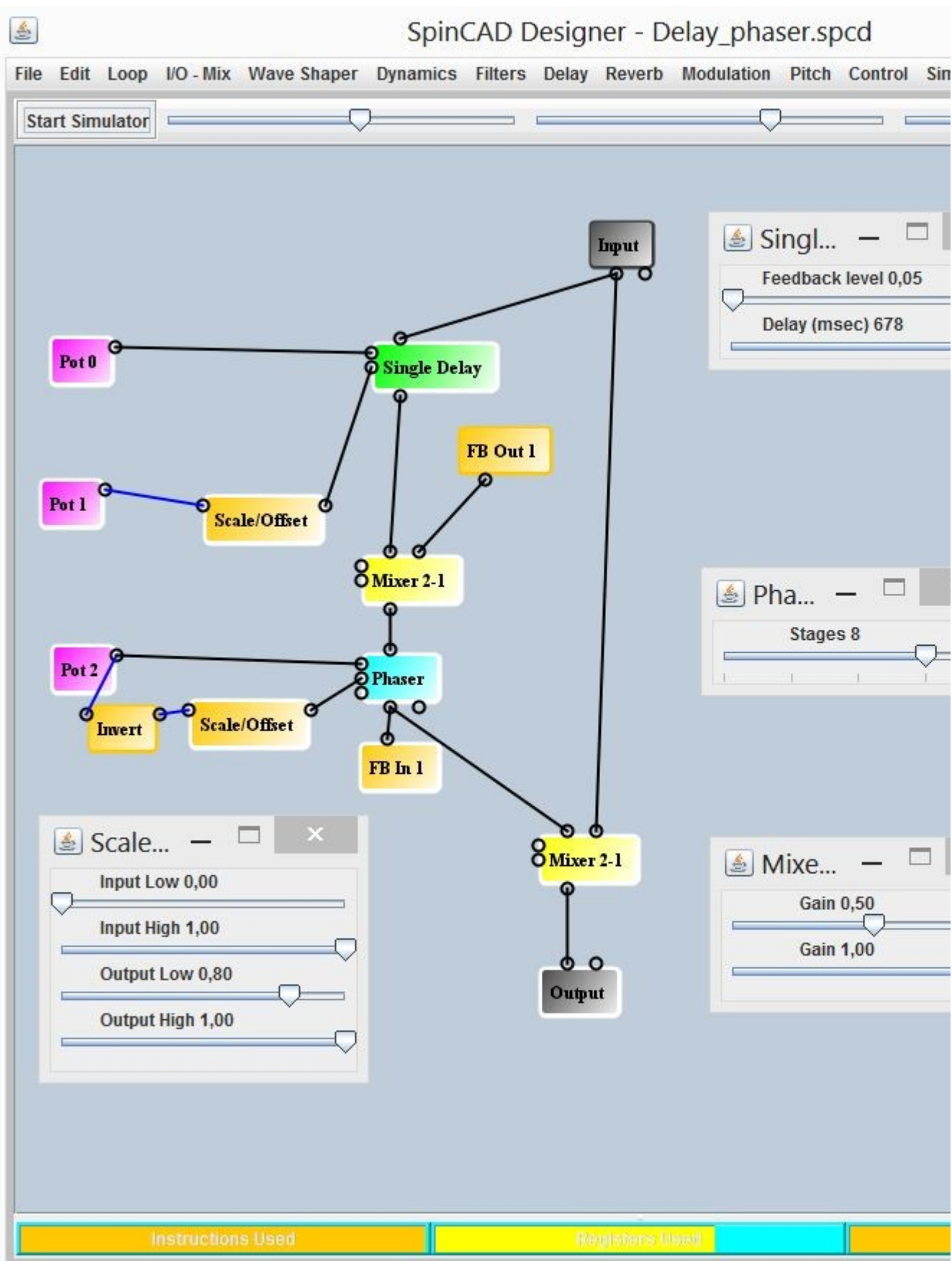
My guitar enter in the Delay block, I'm using the Single Delay because it can give me the chance to change feedback and time. Pot0 enters directly and the Pot1 enters with an Scale/Offset to reduce the maximum feedback and to avoid excessive feedback.

My repetitions enter in the Phaser block to get the effect. I'm controlling 2 parameters of this block by only one pot (Pot2) and I'm giving adirect control on the speed and an inverse control on the Width so when i'm at high speed i have a 0.8 width and when i'm at low speed i have 1.

I split the ouput and one part come in a mixer whit the clean sound and the other comes in a Feedback Loop and retourns and get phased again.

How it is going?

This is the block diagram



This is the effect output on a file

http://sdvpedali.altervista.org/DIY/Spincad/MyDelay_Phaser.mp3 (http://sdvpedali.altervista.org/DIY/Spincad/MyDelay_Phaser.mp3)

And this is the .rar file

http://sdvpedali.altervista.org/DIY/Spincad/Delay+Phaser_rebel_88.rar

(http://sdvpedali.altervista.org/DIY/Spincad/Delay+Phaser_rebel_88.rar)

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Re: My first patch : Delay with phaser (#p1808)

by **Digital Larry** » Thu Sep 18, 2014 6:01 am

Hi Rebel_88,

The first control input to the "Single Delay" block says "Gain", not "Time", but it is clearly "Time". I don't actually like this block very much (I never use it) and was thinking of making it go away in favor of the "servo delay" which does have the time control input, but would require an external feedback loop arrangement to get repeating echoes. Try putting a control smoother between the pot and the "Gain" (I mean "Time") control input and check out the pitch bending effect you get when turning the knob. Lower frequency setting for the smoother gives a longer pitch bend.

You do not have to use an invert block prior to the Scale/Offset going into the phaser width control. Instead, set "Output Low" to 0.99 (it will cause a problem if output low is 1.00 - this is a bug I should fix) and set "Output High" to 0.80. Then you can remove the inversion block.

Also I would try taking the phaser feedback from the dry output rather than the mix output, just to see if it makes a sound you enjoy better. The phaser resonance seems more pronounced with the connection the way you have it already though.

It isn't clear to me whether you wanted the non-delayed sound to be phased also, or only the delayed sound.

Do you have any complaints about this patch or specific things you'd like to improve?

Thanks for your contribution.

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Re: My first patch : Delay with phaser (#p1809)

by **Rebel_88** » Thu Sep 18, 2014 6:36 am

My idea is to create a delay effect that have the phaser only on repetitions and not on the input sound, this is why i take the output from the wet output of the phaser.

My first question was about the correct sequence of controls to use or a better solution in your opinion (because it is my first project and i'm sure there is some better way to do the same thing). The second was about the invert block because i saw a patch where it was not used but i didn't know the bug of the scale/offset you told me and i didn't understand why i couldn't reproduce the same effect whitout the invert block. So now i have removed it and used the 0.99 trik to get it works. I was thinking to use the Smoother block but the instruction used will go upper the maximum level and so it gives me an error " Too many instructions "ad i didn't used it.

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Re: My first patch : Delay with phaser (#p1810)

by **Digital Larry** » Thu Sep 18, 2014 8:08 am

I think you're on the right path. I don't think there's a single "correct answer" for everything and I'm interested to see what other people come up with.

If you want to try the smoother, you could reduce the number of stages in the phaser, which will free up some instructions (and change the sound too, but maybe that's OK). Using the smoother is somewhat humorous when you have a fairly long delay and also some feedback, then turn the control pot. If you don't find this enjoyable, then there's no real point in using the control smoother. However, some people use this for a performance effect (I guess) or just for a laugh.

Another thing you could try would be to turn off the delay's feedback and then put another feedback loop around both the delay and phase shifter. I don't know what will happen - but these are the sorts of things I try when I'm building up a patch.

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