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Terminology

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Terminology (#p1945)

by **Jacko** » Sat Nov 01, 2014 8:55 am

DL,

I am an old hardware guy (emphasis on the old) and some of my confusion in using SpCD is in how the ports are labeled. Here are a couple of examples:

(1) The Loop (feedback) is designed so that the IN-OUT sections are opposite from how it is commonly designated in hardware. Usually, the output of the effect is also the feedback out, and it loops back to the input next the original signal and that is the feedback input. SpCD designates the two parts with the opposite tags. This has not caused me any problems since your examples were easy to work out, but it is not how I am used to seeing it.

(2) In hardware, for many effects, such as phasers, flangers, delays, there are 3 types of outputs from the effect:

Dry: This is the same as the signal input. Usually it just a buffered pass-thru. There is no fx on it.

Wet: This is the fx only. None of the input signal has been added to it.

Mix: This is the Wet and Dry signals mixed together, usually under control of a knob. This is typically the output that is used for generating the effect signal as intended for that design.

It seems that the phaser block has the output ports labeled differently, if I am reading them correctly. The Dry output on the phaser block is actually the Wet output. The Audio output is the Mix? I think some of my patches were not working as I thought they should because of this... and it is my confusion on how the blocks are designed to be used, but it doesn't correlate with common hardware.

Best regards, Jacko

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Re: Terminology (#p1947)

by **Digital Larry** » Sat Nov 01, 2014 11:36 am

Hi Jacko,

Ah let me see, why did I do things this way?

Regarding Feedback loops, the FB In connects to the output of some block, while the FB out connects to the input (usually of a mixer). I did think about it possibly being confusing. The perspective is from the feedback loop rather than the other side. And the positioning of the connections helps (I hope) clarify the intention.

As far as the "dry" output of the phaser, well (cough, cough) you got me there! LOL it's obviously not dry! What was I thinking? All I remember was that I was on vacation at the time, and the place we were staying didn't have wi-fi, so I was connecting to some very weak open SSID named "Elvis", and (I don't think this explanation is making it better)... ☹

I'm changing it to Wet right now! I've also made a "Tremolizer" block that takes your Sin or Triangle LFO and a width control input and makes nice tremoloes with the volume block.

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Re: Terminology (#p1951)

by **Jacko** » Sat Nov 01, 2014 1:54 pm

In analog circuits, there is a feedforward loop the comes out near the signal input and goes in to a later circuit element where it is used to control something. This is sometimes used in compressors and limiters, for example. The labeling for this is more like the FB in SpCD. And therein lies the initial confusion on my part 😊 But like I said, your examples made it easy to sort out.

Best regards, Jacko

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