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More "CV" generator blocks

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More "CV" generator blocks (#p2501)

by **encoder** » Mon Sep 28, 2015 11:22 pm

Hi Larry,

Is it possible to add a few more CV generator blocks, like noise sources, more LFO-s, maybe a better Oscillator (which could go to upper frequencies), clock generator, some king of trigger signal generator, etc...

Me and my good mate are designing a PCB for our modular system and would like to use the FV-1 as a modulation source.

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Re: More "CV" generator blocks (#p2502)

by **Digital Larry** » Tue Sep 29, 2015 4:31 am

Maybe. I'm just now starting to try to recreate my Java development environment on a new laptop after my old one's display broke. I can take any bit of Spin ASM and turn it into a block. So if you can write what you're looking for in Spin ASM, I can probably make it into a block. Realistically speaking, you're probably much more likely to accomplish what you're after by getting into something like the Arduino.

Check this for a few ideas:

<https://duckduckgo.com/?t=lm&q=arduino+...+generator> (<https://duckduckgo.com/?t=lm&q=arduino+synth+control+voltage+generator>)

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Re: More "CV" generator blocks (#p2503)

by **encoder** » Tue Sep 29, 2015 7:36 am

Yeah, arduino is an option, but just imagine a module in Buchla format.

A dual FV-1 board, with 2 independent section, with a switch on front, so you can use the internal ROM or an external with some great stuffs.

I mean, we've already added voltage control to the pots and audio buffers for the output and buffers to boost the outs to use them as CV-s.

The Sample And hold is great, just like the LFO-s and the envelope follower just great, no need o "tune them".

But if there would be more block it would be better 😊

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Re: More "CV" generator blocks (#p2504)

by **Digital Larry** » Tue Sep 29, 2015 5:28 pm

One thing I was starting to work on is a pattern generator that puts out preset step values in a cycle of 4 or 8 or whatever. Similar to the random+5/H but with a fixed pattern.

I've thought a bit about triggered envelope generators but not really sure what the goal would be. I guess you could have a synth type filter envelope triggered by guitar notes? I know you're talking about a rack synth which is a bit out of my personal experience.

As far as noise goes, well you've got the one noise generator. Noise is noise, so... it isn't noisy enough? Not sure what the advantage of a second one would be. Let me know what you had in mind.

There is a free-floating oscillator that doesn't use the built-in LFO hardware. I presume you've used that? I don't quite know what the upper limit is in terms of frequency and whether or not I limited it to be less than is actually possible.

I'm also giving thought to having the S/H block be able to put out 4 separate outputs. 2 modes. (a) All at once, or (b) sequenced over the sample period (so the sampling period would actually be 4 times as fast). That would give seriously warped sounds with granular delay and filters.

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