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Noise Gate / Downward Expander Block

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Noise Gate / Downward Expander Block (#p2017)

by **disasterarea** » Mon Dec 08, 2014 6:17 am

From the FV-1 site:

```
equ    temp    reg0
equ    gate    reg1

wrax    temp,0.02   ;save accum, scale by sensitivity
absa        ;take absolute value of accumulator
rdax    gate,0.9998   ;recursive gain in register
wrax    gate,1.999   ;save recursive register, double to sat limit
mulx    temp   ;scale temp by saturated gate value
```

Would be nice to have both a control panel value for sensitivity (it's the 0.02 in the first WRAX line) as well as a pot input. Ideally you could set the sensitivity up to scale with a pot or other control signal. I'm thinking you could do some sick gated reverb and delay with this as well as noise suppression. This is textbook downward expansion - the lower the input signal, the lower the output volume.

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Re: Noise Gate / Downward Expander Block (#p2018)

by **Digital Larry** » Mon Dec 08, 2014 9:20 am

As always, thanks for the idea. You could do me a great service by determining a good range for the sensitivity setting.

Any sort of dynamically controlled effect depends a lot on the average input levels. I've found with my Tech 21 Trademark 60 amp that the effects loop level is WAAYYYYY low for some reason. So I wind up putting a lot of straight gain before the level detector and that's why I put a huge range of adjustable input gain in the envelope detector. It's possible that the same will be needed here depending on where in the signal chain the effect winds up.

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Re: Noise Gate / Downward Expander Block (#p2071)

by **Digital Larry** » Wed Jan 21, 2015 3:44 pm

Er.... where did this code come from? It really doesn't look like a dynamics patch to me. I don't even see where the input comes in or the output goes out.

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