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IR adaptation/cab sim for FV-1?

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IR adaptation/cab sim for FV-1? (#p2939)

by **add4** » Sun Mar 12, 2017 11:09 pm

Hello there.

Is there a way to use an IR file and adapt it to the FV1? To my very limited understanding, it's "just" filtering, right?
Has anybody tried to adapt a IR file for the FV-1 ? Is there a way to do that in spincad ? Or just take the frequency response curve of a speaker and try to approximate it with filters maybe?

Just wondering as I discover the possibilities of this chip

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Re: IR adaptation/cab sim for FV-1? (#p2943)

by **Digital Larry** » Mon Mar 13, 2017 6:52 am

The Spin chip is really good at doing single pole filters with or without shelving, and 2 pole state variable filters. These are all "Infinite Impulse Response" filters which use feedback and are very efficient as regards register and instruction usage.

As I understand it, an "IR" impulse response leads to implementation as a "Finite Impulse Response" filter, where you save a certain number of input samples and then multiply them all by the FIR coefficients each sample period and add up all those points. So, I'm fairly sure you could do it, but you'll be limited to somewhere in the range of 30? 50? 100? points as you have to keep all of those

samples in memory (register or delay RAM). SpinCAD doesn't offer anything in that regard and I have never seen any examples of FIR filters for the FV-1.

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