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Subject: changing phase for a thicker sound

Posted by [mikeaudet](#) on Tue, 08 Feb 2011 22:03:08 GMT

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Hi guys,

I was reading about a hardware mod the other night, and it mentioned that one of the things that makes transformer isolated mic pres sound so much better is that the high frequencies get delayed relative to the bass. I did some more reading, and it turns out (supposedly) that the human ear can't tell phase difference above around 200hz, but is very sensitive to changes below 200hz.

So, I split an acoustic guitar track over two tracks with a crossover set so that below 200hz was on one track and above 200hz was on the other, and then I used sample slide to delay the high frequencies by around 40 samples.

I haven't listened for all that long yet, but my first impression was that the sound was definitely fuller and bigger, with no eq applied except for the crossovers.

Has anyone else ever tried this? I'm curious how close to the thickness of transformers one could come using this kind of approach. A compressor could be put on the lower frequencies, too, to try to simulate the low end saturation that a transformer provides.

Just wondering what people's thoughts are on this.

Mike

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