

Re: What is line level audio?

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- *From:* Eeyore <rabbitsfriendsandrelations@xxxxxxxxxxx>
 - *Date:* Thu, 19 Oct 2006 14:55:05 +0100
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BobG wrote:

Eeyore wrote:

What do you mean by an average anyway ? The dynamics of different styles of music push the level all over the place from one moment to the next. The concept of average isn't terribly helpful. You need to avoid distorting the loud passages.

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I was interested in using the rms to model as the dc heating in the voice coil as a speaker protector... I wrote some programs that graphed a music wave, its avg, and its rms, and was surprised to see the rms riding about 3dB above the avg. I expected the 'crest factor' to be more variable with wave shape. The conclusion was: use a long time constant avg (seconds), set the threshold 3dB below the power handling capability of the speakers, dont let the clipping indicators stay on too much.

3dB doesn't surprise me for modern music at all.

Try it with some classical !

Graham