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Subject: Internal clipping

Posted by [MatthieuTibi](#) on Mon, 23 Mar 2020 08:37:40 GMT

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Hello,

My question is about 2d audio mixer.

I know it's in 80 bits, but can it clip on the way of the signal ?

Example :

I have a digital full-scale stereo input (like a CD player on a s/pdif input for example).

If I set 20 dB of digital gain on the trim of that stereo strip and -20dB on the stereo monitoring, is it equivalent to 0dB everywhere ?

Or will the strip clip before the output ?

Thanks !

And good luck everybody for that hard period we're in...

Matthieu

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Subject: Re: Internal clipping

Posted by [MatthieuTibi](#) on Mon, 30 Mar 2020 11:06:23 GMT

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Hello,

Well I did some tests and it seems to work perfectly.

I put +10dB on a Channel Strip and +10 dB on the fader on a full-range signal (already at about 0dBFS).

All is red :)

But since my output is at -23 dBFS I can't hear no clipping.

That confirms the theory I saw on different forums, about the 80 fixed bits audio engine... it has a huge "numeric" headroom before clipping.

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Subject: Re: Internal clipping

Posted by [Perfect Record](#) on Fri, 17 Apr 2020 15:37:46 GMT

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Are you reducing the output via the output level control or via a master fader. If you are attenuating via the output level control, that likely will allow the signal to clip. Try using a master fader.

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Subject: Re: Internal clipping  
Posted by [MatthieuTibi](#) on Sat, 18 Apr 2020 20:25:06 GMT  
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Hello Perfect Record,

Well I only attenuate with the Monitor Control, and I really don't hear any distortion.  
I think the conversion DA is after the numerical monitor control, and so there is no problem.

Be careful : it's possible with my 2882, but I think that with the ULN soudcards it's different : the monitor control is analog, and so it wouldn't work.

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