
Subject: Did you know that Paris DID and DOES THAT ??

Posted by [Dimitrios](#) on Sat, 01 Dec 2007 22:10:51 GMT

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Well,

I was suspecting that for a long time but now I am convinced that Paris has a limiter in his outputs !!!!

Yes either the monitor outs or the LR outs have a limiter on its outputs that does not let anything go beyond that !

I found that -0.7 was a safe margin at the main outs and no matter how hard

I was driving the submixes and seprate cahnnels there were no overs !!

ou can see that on your mix that there is this chopped over waveform !!

Regards,

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Subject: Re: Did you know that Paris DID and DOES THAT ??

Posted by [chuck duffy](#) on Sat, 01 Dec 2007 22:47:04 GMT

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no, there is no limiter on the outputs

Chuck

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Subject: Re: Did you know that Paris DID and DOES THAT ??

Posted by [Dimitrios](#) on Sat, 01 Dec 2007 23:44:25 GMT

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Subject: Re: Did you know that Paris DID and DOES THAT ??

Posted by [Dimitrios](#) on Sun, 02 Dec 2007 00:08:06 GMT

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Subject: Re: Did you know that Paris DID and DOES THAT ??
Posted by [Rod Lincoln](#) on Sun, 02 Dec 2007 02:04:47 GMT
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Granted, Paris handles this kind of gain staging really well, and is one of the reasons I still use it.

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Posted by [Dimitrios](#) on Sun, 02 Dec 2007 02:50:39 GMT
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Subject: Re: Did you know that Paris DID and DOES THAT ??
Posted by [Neil](#) on Sun, 02 Dec 2007 17:16:33 GMT
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Or it could simply be digital clipping that's being handled well by the inputs of the Scope card... does it have a soft-limit feature?

Neil

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Subject: Re: Did you know that Paris DID and DOES THAT ??
Posted by [Kim](#) on Mon, 03 Dec 2007 01:45:31 GMT
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My understanding was that a flat top wav file is an indication of clipping, not limiting. That doesn't mean that you'll never see flat top wav forms when going through a limiter, but it means that if you're seeing that, you need to adjust your limiter. ;o) A limiter is really just a compressor on a certain setting, so fundamentally what you see should look like a compressor has hit it, which basically means a nice curved wav file just like what you started with, only louder, or at least with less dynamics.

For some reason the flat top wav files Paris creates don't sound like the flat top wav files that other apps create. They don't sound harsh and distorted. They just sound kinda louder and with some added harmonic richness, not entirely dissimilar to if you overdrive an analog circuit, which also, especially with transistors, tends to leave you with a flattish top on your file. This is not compression/limiting however. It's just a form overdrive which "hurts" less than other forms.

Functionally it's similar of course. Anything you do to a wav file will change the original audio, and limiters can easily lose dynamics obviously. Gentle overdrive can achieve the same end of increasing overall average amplitude of the signal, but the trade off is different. Basically, with overdrive, you keep the bulk of the original audio intact but just "completely lose" some small sections at the peaks. With compression/limiting there is a greater overall change to the sound (depending on settings and such) but you keep the peaks intact, albeit at a lower level.

Horses for courses yada yada.

What Paris does isn't a limiter as I understand it, but it can, in effect, fill the role of a limiter to an extent.

And the reason Chuck doubts your findings is that these claims have been made previously, and Chuck knows the inner workings of Paris as well as anybody here. He's looked through the internals of Paris code and can't see a limiter anywhere. Unless there is a separate limiter hidden on the EDS card which doesn't use any actual code from the Paris app, he's right. ;o) I'm pretty sure he is, in fact, right. :o)

Cheers,
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Subject: Re: Did you know that Paris DID and DOES THAT ??
Posted by [Martin Harrington](#) on Mon, 03 Dec 2007 01:56:37 GMT
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But...from my observations, if you look at a compressed wave file that has been compressed to say -.07dbfs, as an overall file, it will look like it's been severely clipped.

If you go into sample level, you'll find that all the waveforms are nicely rounded.

Don't forget, waveform graphics are just approximations, especially if your viewing a large file as a whole.

Martin H

On 3/12/07 12:45 PM, in article 475351ab\$1@linux, "Kim" <hiddensounds@hotmail.com> wrote:

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