
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,

Dimitrios

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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Hey Chuck,

How come you offend my findings ?

Have you tried what I tried ?

Regards,

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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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Dimitrios

What your describing is no different than if you had a mixer of any kind and lowered the master fader. Your end output is not clipping even though you may be clipping at one of many places before that in the signal chain. That's still not limiting, unless you want to call it that. Granted, Paris handles this kind of gain staging really well, and is one of the reasons I still use it.

Rod

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Subject: Re: Did you know that Paris DID and DOES THAT ??
Posted by [Dimitrios](#) on Sun, 02 Dec 2007 02:50:39 GMT
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Dear Rod,
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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

"Dimitrios" <musurgio@otenet.gr> wrote:

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Subject: Re: Did you know that Paris DID and DOES THAT ??
Posted by [Cujjo](#) on Sun, 02 Dec 2007 22:24:44 GMT
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I found this to be true as well, I mean the sawed off waves if you back down the master fader when dumping a track

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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.

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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,
Kim.

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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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Martin H

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

Posted by [Rod Lincoln](#) on Mon, 03 Dec 2007 07:01:00 GMT

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Your right Martin. Have you ever noticed that a clipped looking mix in Paris (in the destructive editor) doesn't look nearly as clipped, or even clipped at all, if you look at it in another app, like Wavelab. Good point

Rod

Martin Harrington <lendan@bigpond.net.au> wrote:

>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

 \succ \triangleright

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

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>>> I found this to be true as well, I mean the sawed off waves if you back
>> down
>>> the master fader when dumping a track
>>>
>>> "Dimitrios" <musurgio@otenet.gr> wrote:
>>>>
>>>> Dear Rod,
>>>> As with analog mixers if you gain up channels you always have to lower
>> your
>>>> main output to compensate.
>>>> In Paris leaving the out at -0.7 digital (always) no matter what you
do
>>> with
>>>> your music you never clip it.
>>>> Your waveform though shows the clipping (cutting the edges of loud peaks),
>>>> so to me that sounds like a limiter !
>>>> Regards,
>>>> Dimitrios
>>>>
>>>> "Rod Lincoln" <rlincoln@nospam.kc.rr.com> wrote:
>>>>>
>>>>> Dimitrios
>>>>> What your describing is no different than if you had a mixer of any
kind
>>>>> and lowered the master fader. Your end output is not clipping even
though
>>>>> you may be clipping at one of many places before that in the signal
chain.
>>>>> That's still not limiting, unless you want to call it that.
>>>>> Granted, Paris handles this kind of gain staging really well, and is
one
>>>>> of the reasons I still use it.
>>>>> Rod
>>>>> "Dimitrios" <musurgio@otenet.gr> wrote:
>>>>>>
>>>>>> Here is the conditions of my test.
>>>>>> I am using the spdif out connected to Pulsar Scope spdif in and I
am
>> watching
>>>>>> the digital meters of the Paris out.
>>>>>> When using the 0 for Paris outputs there is a occasional digital clip.
>>>>>> When lowering under 0, -0.3 then the digital over goes away.
>>>>>> Now no matter how much you push the submixes into red ,nno matter

```

[illegible]