

---

Subject: DC Offset and checking in  
Posted by [mike audet\[3\]](#) on Sun, 17 Feb 2008 17:31:05 GMT  
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Hi All,

I've been working on a mono-band version of the multiband compressor so that we could use less dsp when there is just one offending band. This will be great for compressing just the lows or as a deesser.

I've got the mono version working, and I should have the stereo version finished soon. The mono version allows 4 instances, compared to two instances for the full multi band.

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Anyway, I just thought I'd check in and let everyone know I'm not dead.

All the best,

Mike

---

---

Subject: Re: DC Offset and checking in  
Posted by [Tom Bruhl](#) on Sun, 17 Feb 2008 18:19:22 GMT  
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This is a multi-part message in MIME format.

-----=\_NextPart\_000\_0051\_01C87167.B57DA660

Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

Hi Mike,

I'm glad to hear you're still kicking away at it AND your not dead. I love the idea of a single band of compression to save dsp. Often times that's all the doctor ordered on single tracks.

Will it have a switchable style of eq ie: fully=20 parametric/notch or shelving/bandpass?

I'm in for what ever you come up with and will pass your DC offset question on to a very smart friend.

Thanks for your effort as always!  
Tom

"Mike Audet" <mike@..> wrote in message news:47b86149\$1@linux...

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I choose Polesoft Lockspam to fight spam, and you?

<http://www.polesoft.com/refer.html>

-----=\_NextPart\_000\_0051\_01C87167.B57DA660

Content-Type: text/html;

charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

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<META content=3D"MSHTML 6.00.2900.2180" name=3DGENERATOR>
<STYLE></STYLE>
</HEAD>
<BODY bgColor=3D#ffffff>
<DIV><FONT face=3DArial size=3D2>Hi Mike,</FONT></DIV>
<DIV><FONT face=3DArial size=3D2>I'm glad to hear you're still kicking =
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Often=20
times</FONT></DIV>
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tracks.</FONT></DIV>
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ie: fully=20
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<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>
<DIV><FONT face=3DArial size=3D2>Thanks for your effort as =
```



Subject: Re: DC Offset and checking in  
Posted by [tonehouse](#) on Sun, 17 Feb 2008 18:34:55 GMT  
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---

This is a multi-part message in MIME format.

-----=\_NextPart\_000\_0014\_01C87169.E1E539A0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

I also hear weird Paris EQ artifacts in the Bass,boost or cut...been =  
that way since the XP conversion from Win98....I just avoid using it. I =  
don't think offset is the problem.

"Tom Bruhl" <arpegio@comcast.net> wrote in message =  
news:47b87c80\$1@linux...

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<STYLE></STYLE>
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</HEAD>
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<BODY bgColor=3D#ffffff>
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<DIV><FONT face=3DArial size=3D2>I also hear weird Paris EQ artifacts in the=20
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href=3D"mailto:arpeggio@comcast.net">arpeggio@comcast.net</A>&gt; wrote =  
in message=20  
<A href=3D"news:47b87c80\$1 @linux">news:47b87c80\$1 @linux</A>...</DIV>  
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BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">  
<DIV>"Mike Audet" &lt;mike@..&gt; wrote in message <A=20  
=  
href=3D"news:47b86149\$1 @linux">news:47b86149\$1 @linux</A>...</DIV><BR>Hi=20  
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=  
href=3D"http://www.polesoft.com/refer.html">http://www.polesoft.com/refer=  
..html</A>&nbsp;&nbsp;&nbsp;&nbsp;</FONT></DIV></BLOCKQUOTE ></BODY></HTML>  
  
-----=\_NextPart\_000\_0014\_01C87169.E1E539A0--

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Subject: Re: DC Offset and checking in  
Posted by [Aaron Allen](#) on Sun, 17 Feb 2008 20:20:28 GMT  
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---

This may seem completely simplistic, but would building a EDS DSP DC offset plug (separate or as part of the monoband) that's user adjustable alleviate the immediate problem?

AA

"Mike Audet" <mike@..> wrote in message news:47b86149\$1@linux...  
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Subject: Re: DC Offset and checking in  
Posted by [mike audet\[3\]](#) on Sun, 17 Feb 2008 21:47:55 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hi Aaron,

The trouble is the algorithm. There are 3 dc offset algos in the paris code that I have, and none of them work for this. My working theory is that all of them try to detect a constant signal below a selected frequency (5 or 10 Hz) and subtract it from the output or input. I think that the offset from the eq has something to do with oscillation in the eq, so it isn't constant and doesn't get picked up as DC offset.

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I'm sure there are others out there, I just don't know any of them. :)

Mike

"Aaron Allen" <know-spam@not\_here.dude> wrote:

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---

---

Subject: Re: DC Offset and checking in  
Posted by [Kim](#) on Sun, 17 Feb 2008 23:29:15 GMT  
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---

Mike,

Just thinking that perhaps a DC offset meter might be appropriate. If such a thing takes minimal resources you could build it in to the plug, or if it requires more resources then perhaps a separate plug allowing people to pop it in just to check the offset and pop it back out again once they are happy that nothing silly is going on DC wise.

Just a thought. Easy for me to sit here and give you work I know, but it might be easier than fixing the issue while making the plugs more usable, and indeed if made as a separate plug it could be used on ALL EQ's not just that one. Given the Paris DSP resource limit I'm thinking it's rare that all four Paris DSP slots are used on a channel anyhow.

Cheers,  
Kim.

"Mike Audet" <mike@..> wrote:

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>Mike

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Subject: Re: DC Offset and checking in  
Posted by [Kim](#) on Sun, 17 Feb 2008 23:32:48 GMT  
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---

Instead of using a DC offset algo, could you use a low pass eq and just set it really low... just block everything under 10Hz?

That may be what the existing code is doing perhaps, but it might be worth testing. Indeed you could test it by plugging in an existing EQ and hence not even have to code anything.

Cheers,  
Kim.

"Mike Audet" <mike@..> wrote:

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>>> All the best,  
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Subject: Re: DC Offset and checking in  
Posted by [Dimitrios](#) on Mon, 18 Feb 2008 01:37:33 GMT  
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---

Hi Mike !  
Nice you are still on boat !!!  
We count on your findings here !  
Regarding these quirks with eq , yes maybe these are XP oriented.  
Based on some tests I did there was at least one band on EQ (the lowest)  
that was acting differently under XP than under Me.  
This was confirmed by other users.  
Another thing that confuses me is some frequency bumps around 500 hz or  
so coming from the eq especially noticable with drums when mixing.  
I may say that frequency wise Paris is not super stable and always trying  
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Anyone else sharing these findings ?  
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Subject: Re: DC Offset and checking in  
Posted by [tonehouse](#) on Mon, 18 Feb 2008 20:20:06 GMT  
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---

Yes Dimitrios ,thats what I reflected in my earlier message. The EQ has been  
screwed up since the XP conversion.." low frequency artifacts"..call it DC  
offset if you like...DC offset is an easy thing to get rid of anyhow,takes  
about 10 seconds in Wavelab,,  
"Dimitrios" <musurgio@otenet.gr> wrote in message news:47b8d34d\$1 @linux...

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Subject: Re: DC Offset and checking in  
Posted by [Aaron Allen](#) on Mon, 18 Feb 2008 22:27:42 GMT  
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Betcha that's directly related to the distortion reaction being different  
from ME/98 to XP/2000 as well. If anyone knows how to reach Chris Thoman, he  
may know the answer to that.

AA

"tonehouse" <zmcleod@comcast.net> wrote in message news:47b9e87f@linux...  
> Yes Dinitrios ,thats what I reflected in my earlier message. The EQ has  
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> "Dimitrios" <musurgio@otenet.gr> wrote in message news:47b8d34d\$1 @linux...  
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Subject: Re: DC Offset and Bass EQ

Posted by [Wayne Carson](#) on Mon, 18 Feb 2008 23:29:41 GMT

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Hi Tonehouse,

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Also, you mention that you avoiding using boost or cut on the bass because of artifacts. Did you mean on the EQ trim or anywhere in the graphic EQ? Since many of us are XP users it can make a difference knowing what you meant since the bass is a tough instrument to EQ in the first place and we may be complicating or making it worse with EQ. I went with BT's recommendation to crank the trim on bass . . . but he was on Win98, if I recall correctly. But, Brian also stated on the DVD, that Paris was a bit mushy in the low to low/mid area so maybe it's been there all along.

Concerning DC offset, Mike Audet said he encountered it with a narrow band EQ at a low frequency. Sounds like there might be some correlation between the two.

Anyhow, I'm just happy to learn so much from this group. It helps me on every mix I do!!! Have a great day.

Wayne

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Subject: Re: DC Offset and Bass EQ  
Posted by [mike audet\[3\]](#) on Tue, 19 Feb 2008 01:54:50 GMT  
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I just checked, and you can use the high-pass filter in the stock paris eq to filter out the dc offset. It has to be after the effect. Placing an eq before the crossover doesn't help. I think it's probably best to use the stock eqs instead of embedding another eq in the effect if only to conserve DSP resources. The stock EQs use different, reserved chips, whereas if I embed the eq in the effect, it will take up the more scarce effect dsp.

Let me know what you think, though. I can add another eq if the consensus is that we should go that way.

All the best,

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"Wayne Carson" <[carson\\_wayne@msn.com](mailto:carson_wayne@msn.com)> wrote:

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Subject: Re: DC Offset and Bass EQ  
Posted by [Neil](#) on Tue, 19 Feb 2008 15:35:38 GMT  
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Subject: Re: DC Offset and Bass EQ  
Posted by [tonehouse](#) on Tue, 19 Feb 2008 19:13:38 GMT  
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I agree with Neil .I am not sure exactly what triggers it,but if I cut or boost much low freq (100 or below)on the Paris eq,most of the time it gets a strange distortion,or artifact to the sound...The EQ plug that works with multiple instances and sounds great with Paris is the PSP MasterQ..hardly any noticeable latency either. I was referring to using Wavelab as the mixdown,and removing DC at that stage.

"Neil" <IOUOUI@Ol.com> wrote in message news:47bae93a\$1@linux...

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>>  
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> >>EQ at a low frequency. Sounds like there might be some =  
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> >  
> >>the two.  
> >>  
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> >  
> >>every mix I do!!! Have a great day.  
> >>  
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> >>  
> >>  
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> >>>> Hi Mike !  
> >>>> Nice you are still on boat !!!  
> >>>> We count on your findings here !  
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> >>>> Based on some tests I did there was at least one band on EQ =  
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> >>>> This was confirmed by other users.  
> >>>> Another thing that confuses me is some frequency bumps around =  
500 hz  
> >or  
> >>>> so coming from the eq especially noticable with drums when =  
mixing.  
> >>>> I may say that frequency wise Paris is not super stable and =

always

trying

> >>>> to use compressors to overcome...

> >>>> Anyone else sharing these findings ?

> >>>> Regards,

> >>>> Dimitrios

> >>>>

> >>>> "Mike Audet" <mike@..> wrote:

> >>>> >

> >>>> >Hi All,

> >>>> >

> >>>> >I've been working on a mono-band version of the multiband =  
compressor

> >so

> >>>> that

> >>>> >we could use less dsp when there is just one offending band. =

This

> will

> >>>> be

> >>>> >great for compressing just the lows or as a deesser.

> >>>> >

> >>>> >I've got the mono version working, and I should have the =

stereo

version

> >>>> finished

> >>>> >soon. The mono version allows 4 instances, compared to two =

instances

> >for

> >>>> >the full multi band.

> >>>> >

> >>>> >I've been investigating the DC offset issues in the crossover. =

It

> seems

> >>>> >that whenever any PARIS eq is set to a narrow band and at a =

low

> >>> frequency,

> >>>> >it generates some DC offset. I've tried putting various DC =

offset

> >>> filters

> >>>> >before and after the EQ, but they don't seem to help.

> >>>> >

> >>>> >If anyone out there is skilled in DSP math and has some ideas =

for

how

> >to

> >>>> >filter this better, I would love to hear from you. As of =

right now,

> >I'm

> >>>> >out of ideas on how to fix this. Not that it is a huge big =  
deal.  
> I'm  
> >>> getting  
> >>>> >1% DC offset measurements by just tweaking the settings to =  
minimize  
> >the  
> >>>> >effects.  
> >>>> >  
> >>>> >Anyway, I just thought I'd check in and let everyone know I'm =  
not  
dead.  
> >>>> >  
> >>>> >All the best,  
> >>>> >  
> >>>> >Mike  
> >>>>  
> >>>  
> >>>  
> >>  
> >>  
> >  
> >  
>  
>

I choose Polesoft Lockspam to fight spam, and you?

<http://www.polesoft.com/refer.html>

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<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>  
<DIV>&nbsp;</DIV>  
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&gt;to<BR>&gt;=20  
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---

Subject: Re: DC Offset and Bass EQ  
Posted by [Neil](#) on Wed, 20 Feb 2008 15:30:50 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Tom - I seem to recall trying that once, but the thing is, it's not a constantly-replicating problem. I've even had it come & go on the same project. So, since I can't pin it down, just to be safe i simply don't use it for anything requiring lo or lo-mid adjustments. Which sucks, because i like the sound of that EQ for certain applications.



Neil

"Tom Bruhl" <arpeggio@comcast.net> wrote:

>

>

>Have you guys tried using another Paris band for lows

>instead of eq band 1? #1 is particularly blatty in the

>lows. The VST was designed to model the EDS eq

>top to bottom . . . so be it.

>Tom

>

>

> "tonehouse" <zmcleod@comcast.net> wrote in message =

>news:47bb2a7f@linux...

> I agree with Neil .I am not sure exactly what triggers it,but if I cut

=

>or

> boost much low freq (100 or below)on the Paris eq,most of the time it

=

>gets a

> strange distortion,or artifact to the sound...The EQ plug that works =

>with

> multiple instances and sounds great with Paris is the PSP =

>MasterQ..hardly

> any noticable latency either. I was referring to using Wavelab as the

> mixdown,and removing DC at that stage.

> "Neil" <IOUOUI@OI.com> wrote in message news:47bae93a\$1@linux...

> >

> > I don't know if this makes any difference, but i use the vst

> > version of the Paris eq, and I've noticed some weird stuff going

> > on with low freqs, too... what i hear is what i'd describe as

> > a "sputtering" sound. and you don't even need to be rolling

> > at the time, either. So, i don't use it on anything requiring

> > adjustments of lo-mids & lows.

> >

> > Neil

> >

> >

> > "Mike Audet" <mike@..> wrote:

> > >

> > >Hi Guys,

> > >

> > >I just checked, and you can use the high-pass filter in the stock =

>paris

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> > >to filter out the dc offset. It has to be after the effect. =

>Placing an

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> > >  
> > >All the best,  
> > >  
> > >Mike  
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> > >"Wayne Carson" <carson\_wayne@msn.com> wrote:  
> > >>Hi Tonehouse,  
> > >>  
> > >>I usually take my final mixes (Paris mixdown) and (create a stereo  
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> > >  
> > >>file .wav) from the audio window and drop them into Wavelab to =  
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> > >>at all during this process. Is this what you are referring to or  
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> > >>>> Another thing that confuses me is some frequency bumps around =  
>500 hz  
> > >or  
> > >>>> so coming from the eq especially noticable with drums when =  
>mixing.  
> > >>>> I may say that frequency wise Paris is not super stable and =  
>always  
> trying  
> > >>>> to use compressors to overcome...  
> > >>>> Anyone else sharing these findings ?  
> > >>>> Regards,  
> > >>>> Dimitrios  
> > >>>>  
> > >>>> "Mike Audet" <mike@..> wrote:  
> > >>>> >  
> > >>>> >Hi All,  
> > >>>> >

> > >>>> >I've been working on a mono-band version of the multiband =  
>compressor  
> > >so  
> > >>>> that  
> > >>>> >we could use less dsp when there is just one offending band.  
=  
>This  
> > will  
> > >>>> be  
> > >>>> >great for compressing just the lows or as a deesser.  
> > >>>> >  
> > >>>> >I've got the mono version working, and I should have the =  
>stereo  
> version  
> > >>>> finished  
> > >>>> >soon. The mono version allows 4 instances, compared to two =  
>instances  
> > >for  
> > >>>> >the full multi band.  
> > >>>> >  
> > >>>> >I've been investigating the DC offset issues in the crossover.  
=  
> It  
> > seems  
> > >>>> >that whenever any PARIS eq is set to a narrow band and at a =  
>low  
> > >>> frequency,  
> > >>>> >it generates some DC offset. I've tried putting various DC =  
>offset  
> > >>> filters  
> > >>>> >before and after the EQ, but they don't seem to help.  
> > >>>> >  
> > >>>> >If anyone out there is skilled in DSP math and has some ideas  
=  
>for  
> how  
> > >to  
> > >>>> >filter this better, I would love to hear from you. As of =  
>right now,  
> > >I'm  
> > >>>> >out of ideas on how to fix this. Not that it is a huge big =  
>deal.  
> > I'm  
> > >>> getting  
> > >>>> >1% DC offset measurements by just tweaking the settings to =  
>minimize  
> > >the  
> > >>>> >effects.



>BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">  
> <DIV>"tonehouse" <<A=20  
> href=3D"mailto:zmcleod@comcast.net">zmcleod@comcast.net</A>> wrote =  
>in message=20  
> <A href=3D"news:47bb2a7f@linux">news:47bb2a7f@linux</A>...</DIV>I =  
>agree with=20  
> Neil .I am not sure exactly what triggers it,but if I cut or<BR>boost  
=  
>much low=20  
> freq (100 or below)on the Paris eq,most of the time it gets =  
>a<BR>strange=20  
> distortion,or artifact to the sound...The EQ plug that works =  
>with<BR>multiple=20  
> instances and sounds great with Paris is the PSP =  
>MasterQ..hardly<BR>any=20  
> noticeable latency either. I was referring to using Wavelab as=20  
> the<BR>mixdown,and removing DC at that stage.<BR>"Neil" <<A=20  
> href=3D"mailto:IOUOUI@OI.com">IOUOUI@OI.com</A>> wrote in message =  
><A=20  
> =  
>href=3D"news:47bae93a\$1 @linux">news:47bae93a\$1 @linux</A>...<BR>><BR>&g=  
>t; l=20  
> don't know if this makes any difference, but i use the vst<BR>> =  
>version of=20  
> the Paris eq, and I've noticed some weird stuff going<BR>> on with =  
>low=20  
> freqs, too... what i hear is what i'd describe as<BR>> a =  
>"sputtering"=20  
> sound. and you don't even need to be rolling<BR>> at the time, =  
>either. So,=20  
> i don't use it on anything requiring<BR>> adjustments of lo-mids =  
>&=20  
> lows.<BR>><BR>> Neil<BR>><BR>><BR>> "Mike Audet"=20  
> <mike@..> wrote:<BR>> ><BR>> >Hi Guys,<BR>> =  
>><BR>>=20  
> >I just checked, and you can use the high-pass filter in the stock=20  
  
>to be=20  
  
>doesn't=20  
  
>eqs=20  
> instead of embedding another eq in the effect if only =  
>to<BR>conserve<BR>>=20  
  
>whereas=20  
> if<BR>> l<BR>> >embed the eq in the effect, it will take =

> more scarce effect dsp.<BR>> ><BR>> >Let me know what you =  
>think,=20

>that we=20  
> should go that way.<BR>> ><BR>> >All the best,<BR>>=20  
> ><BR>> >Mike<BR>> ><BR>> ><BR>> >"Wayne =  
>Carson"=20  
> <<A =  
>href=3D"mailto:carson\_wayne@msn.com">carson\_wayne@msn.com</A>=20  
> wrote:<BR>> >>Hi Tonehouse,<BR>> >><BR>> =  
>>>I=20  
> usually take my final mixes (Paris mixdown) and (create a stereo =  
>audio<BR>>=20  
> ><BR>> >>file .wav) from the audio window and drop them =  
>into=20  
> Wavelab to check the<BR>> >DC<BR>> >>offset and do any =  
>gain=20  
> up/down balancing with other final mixes (my<BR>cheap<BR>> =  
>><BR>>=20

>offset and=20  
> some<BR>> none<BR>> ><BR>> >>at all during this=20

>  
> ><BR>> >>saying to run each individual track in Wavelab to =  
>remove=20  
> any DC offset<BR>> and<BR>> ><BR>> >>convert them =  
>back to=20

> >>cumbersome?<BR>> >><BR>> >>Also, you mention =  
>that=20  
> you avoiding using boost or cut on the bass<BR>because<BR>> =  
>><BR>>=20

>the=20  
> graphic<BR>EQ?<BR>> ><BR>> >>Since many of us are XP =  
>users it=20  
> can make a difference knowing what you<BR>> ><BR>> =  
>>>meant=20  
> since the bass is a tough instrument to EQ in the first place =  
>and<BR>>=20  
> >we<BR>> >>may be complicating or making it worse with =

> went with BT's<BR>> >>recommendation to crank the trim on =  
>bass . . .=20  
> but he was on Win98, if<BR>> I<BR>> ><BR>> >>recall=20

>a<BR>>=20



> bit<BR>> ><BR>> >>mushy in the low to low/mid area so =  
>maybe=20  
> it's been there all along.<BR>> >><BR>> >>Concerning =  
>DC=20  
> offset, Mike Audet said he encountered it with a =  
>narrow<BR>band<BR>>=20

>might be=20  
> some correlation<BR>between<BR>> ><BR>> >>the =  
>two.<BR>>=20  
> >><BR>> >>Anyhow, I'm just happy to learn so much from =  
>this=20

>>>Wayne<BR>>=20  
> >><BR>> >><BR>> >><BR>> >>"tonehouse" =  
><<A=20  
> href=3D"mailto:zmcleod@comcast.net">zmcleod@comcast.net</A>> wrote =  
>in=20  
> message<BR><A =  
>href=3D"news:47b9e87f@linux">news:47b9e87f@linux</A>...<BR>>=20  
> >>> Yes Dinitrios ,thats what I reflected in my earlier =  
>message. The=20  
> EQ<BR>has<BR>> ><BR>> >>> been<BR>> >>> =  
>screwed=20  
> up since the XP conversion.." low frequency artifacts"..call<BR>>=20  
> it<BR>> >DC<BR>> >>> offset if you like...DC offset =  
>is an=20  
> easy thing to get rid of<BR>anyhow,takes<BR>> >>> about 10 =  
>seconds=20  
> in Wavelab,,<BR>> >>> "Dimitrios" <<A=20  
> href=3D"mailto:musurgio@otenet.gr">musurgio@otenet.gr</A>> wrote in =  
>  
> message<BR><A=20  
> href=3D"news:47b8d34d\$1@linux">news:47b8d34d\$1@linux</A>...<BR>>=20  
> >>>><BR>> >>>> Hi Mike !<BR>> =  
>>>>=20  
> Nice you are still on boat !!!<BR>> >>>> We count on =  
>your=20  
> findings here !<BR>> >>>> Regarding these quirks with =  
>eq , yes=20  
> maybe these are XP oriented.<BR>> >>>> Based on some =  
>tests l=20  
> did there was at least one band on EQ (the<BR>lowest)<BR>> =  
>>>>=20  
> that was acting differently under XP than under Me.<BR>> =  
>>>>=20  
> This was confirmed by other users.<BR>> >>>> Another =

>thing that=20

>>or<BR>>=20

> >>> so coming from the eq especially noticable with drums =

>when=20

> mixing.<BR>> >>> I may say that frequency wise Paris =

>is not=20

> super stable and always<BR>trying<BR>> >>> to use =

>compressors=20

> to overcome...<BR>> >>> Anyone else sharing these =

>findings=20

> ?<BR>> >>> Regards,<BR>> >>> =

>Dimitrios<BR>>=20

> >>><BR>> >>> "Mike Audet" <mike@..> =

>

> wrote:<BR>> >>> ><BR>> >>> >Hi=20

> All,<BR>> >>> ><BR>> >>> >I've =

>been=20

> working on a mono-band version of the multiband compressor<BR>>=20

> >so<BR>> >>> that<BR>> >>> >we =

>could use=20

> will<BR>> >>> be<BR>> >>> >great =

>for=20

> compressing just the lows or as a deesser.<BR>> >>>=20

> ><BR>> >>> >I've got the mono version working, =

>and I=20

> should have the stereo<BR>version<BR>> >>> =

>finished<BR>>=20

> >>> >soon. The mono version allows 4 instances, =

>compared to=20

> two instances<BR>> >for<BR>> >>> >the full =

>multi=20

> band.<BR>> >>> ><BR>> >>> >I've =

>been=20

> seems<BR>> >>> >that whenever any PARIS eq is set =

>to a=20

> narrow band and at a low<BR>> >>> frequency,<BR>>=20

>putting=20

> various DC offset<BR>> >>> filters<BR>> =

>>>>=20

> >before and after the EQ, but they don't seem to help.<BR>>=20

> >>> ><BR>> >>> >If anyone out there =

>is=20

> skilled in DSP math and has some ideas for<BR>how<BR>> =

>>to<BR>>=20

> >>>> >filter this better, I would love to hear from =  
> As of right now,<BR>> >I'm<BR>> >>>> >out of =  
>ideas on=20  
>I'm<BR>>=20  
> >>> getting<BR>> >>>> >1% DC offset =  
>measurements by=20  
> just tweaking the settings to minimize<BR>> >the<BR>>=20  
> >>>> >effects.<BR>> >>>> ><BR>>=20  
> >>>> >Anyway, I just thought I'd check in and let =  
>everyone know=20  
> I'm not<BR>dead.<BR>> >>>> ><BR>> =  
>>>>=20  
> >All the best,<BR>> >>>> ><BR>> =  
>>>>=20  
> >Mike<BR>> >>>><BR>> >>>><BR>>=20  
> >>>><BR>> >><BR>> >><BR>>=20  
>><BR>><BR><BR></BLOCKQUOTE>  
><DIV><FONT size=3D2><BR><BR>I choose Polesoft Lockspam to fight spam, =  
>and=20  
>you?<BR><A=20  
>href=3D"http://www.polesoft.com/refer.html">http://www.polesoft.com/refer=  
>  
>

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