
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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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

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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<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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Subject: Re: DC Offset and checking in
Posted by [tonehouse](#) on Sun, 17 Feb 2008 18:34:55 GMT
[View Forum Message](#) <> [Reply to Message](#)

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 =
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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> wrote =
in message=20
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<DIV> </DIV>
<BLOCKQUOTE=20
style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =
BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">
<DIV>"Mike Audet" <mike@..> wrote in message <A=20
=
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..html </DIV></BLOCKQUOTE ></BODY></HTML>

-----=_NextPart_000_0014_01C87169.E1E539A0--

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.

This may just be a limitation of the PARIS eq algos. I'm personally not finding it to be a big deal, but if anyone has another algo to try, I'll plug it in a give it a whirl. There may also be a better crossover algo to try. I found the one I'm working with in a comment in the paris code.

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

Mike

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

"tonehouse" <zmcleod@comcast.net> wrote in message news:47b9e87f@linux...

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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 [mike audet\[3\]](#) on Tue, 19 Feb 2008 01:54:50 GMT
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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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I choose Polesoft Lockspam to fight spam, and you?

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

-----=_NextPart_000_0030_01C87304.054069B0

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charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">

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<STYLE></STYLE>

</HEAD>

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<DIV>Tom</DIV>
<DIV> </DIV>
<DIV> </DIV>
<BLOCKQUOTE=20
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<DIV>"tonehouse" <<A=20
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> >>>> >
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everyone know=20
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> >>>> >
> =
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> >>>>
>=20
>>>>
> >>>>
> >>>>=20
>
>
</BLOCKQUOTE>
<DIV>

I choose Polesoft Lockspam to fight spam, =
and=20
you?
<A=20
href=3D"http://www.polesoft.com/refer.html">http://www.polesoft.com/refer=
..html </DIV></BODY ></HTML>

-----=_NextPart_000_0030_01C87304.054069B0--

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

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> "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

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> any noticeable 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...

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> > 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 =

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

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> > >Let me know what you think, though. I can add another eq if the
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> > >is that we should go that way.
> > >
> > >All the best,
> > >
> > >Mike
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> > >"Wayne Carson" <carson_wayne@msn.com> wrote:
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> >>> filters
> =

>>>>=20

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

> >>> >
> >>> >If anyone out there =

>is=20

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

>>to
>=20

> >>>> >filter this better, I would love to hear from =
> As of right now,
> >I'm
> >>>> >out of =
>ideas on=20
>I'm
>=20
> >>> getting
> >>>> >1% DC offset =
>measurements by=20
> just tweaking the settings to minimize
> >the
>=20
> >>>> >effects.
> >>>> >
>=20
> >>>> >Anyway, I just thought I'd check in and let =
>everyone know=20
> I'm not
dead.
> >>>> >
> =
>>>>=20
> >All the best,
> >>>> >
> =
>>>>=20
> >Mike
> >>>>
> >>>>
>=20
> >>>>
> >>
> >>
>=20
>>
>

</BLOCKQUOTE>
><DIV>

I choose Polesoft Lockspam to fight spam, =
>and=20
>you?
<A=20
>href=3D"http://www.polesoft.com/refer.html">http://www.polesoft.com/refer=
>
>
