
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,

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

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pass your DC offset question on to a very
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Thanks for your effort as always!
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"Mike Audet" <mike@..> wrote in message news:47b86149\$1@linux...

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

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</HEAD>
<BODY bgColor=3D#ffffff>
<DIV><FONT face=3DArial size=3D2>Hi Mike,</FONT></DIV>
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-----=_NextPart_000_0051_01C87167.B57DA660--

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

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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
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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. :)

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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.

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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
[View Forum Message](#) <> [Reply to Message](#)

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 Dinitrios ,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

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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.

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

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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 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...

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Subject: Re: DC Offset and Bass EQ
Posted by [Tom Bruhl](#) on Tue, 19 Feb 2008 19:30:48 GMT
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This is a multi-part message in MIME format.

-----=_NextPart_000_0030_01C87304.054069B0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

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...
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> >>

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

> >>> Yes Dinitrios ,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...

> >>>>

> >>>> 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
 > >>>> 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>

-----=_NextPart_000_0030_01C87304.054069B0

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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>Have you guys tried using another Paris =
band for=20
lows</FONT></DIV>
<DIV><FONT face=3DArial size=3D2>instead of eq band 1?&nbsp; #1 is =
particularly=20
blatty in the</FONT></DIV>
```

<DIV>lows. The VST was designed to =
 model the EDS=20
 eq</DIV>
 <DIV>top to bottom . . . so be =
 it.</DIV>
 <DIV>Tom</DIV>
 <DIV> </DIV>
 <DIV> </DIV>
 <BLOCKQUOTE=20
 style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =
 BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">
 <DIV>"tonehouse" <<A=20
 href=3D"mailto:zmcleod@comcast.net">zmcleod@comcast.net> wrote =
 in message=20
 news:47bb2a7f@linux...</DIV>I =
 agree with=20
 Neil .I am not sure exactly what triggers it,but if I cut or
boost =
 much low=20
 freq (100 or below)on the Paris eq,most of the time it gets =
 a
strange=20
 distortion,or artifact to the sound...The EQ plug that works =
 with
multiple=20
 instances and sounds great with Paris is the PSP =
 MasterQ..hardly
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 noticable latency either. I was referring to using Wavelab as=20
 the
mixdown,and removing DC at that stage.
"Neil" <<A=20
 href=3D"mailto:IOUOUI@OI.com">IOUOUI@OI.com> wrote in message =
 <A=20
 =
 href=3D"news:47bae93a\$1 @linux">news:47bae93a\$1 @linux...
>
&g=
 t; I=20
 don't know if this makes any difference, but i use the vst
> =
 version of=20
 the Paris eq, and I've noticed some weird stuff going
> on with =
 low=20
 freqs, too... what i hear is what i'd describe as
> a =
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 sound. and you don't even need to be rolling
> at the time, =
 either. So,=20
 i don't use it on anything requiring
> adjustments of lo-mids =
 &=20
 lows.
>
> Neil
>
>
> "Mike Audet"=20
 <mike@..> wrote:
> >
> >
> >Hi Guys,
> =
 >
>=20
 >I just checked, and you can use the high-pass filter in the stock=20
 paris
> eq
> >to filter out the dc offset. It has =
 to be=20
 after the effect. Placing an
> >eq before the crossover =

doesn't=20
 help. I think it's probably best to use
> >the stock =
 eqs=20
 instead of embedding another eq in the effect if only =
 to
conserve
>=20
 >DSP resources. The stock EQs use different, reserved chips, =
 whereas=20
 if
> I
> >embed the eq in the effect, it will take =
 up the=20
 more scarce effect dsp.
> >
> >Let me know what you =
 think,=20
 though. I can add another eq if the
consensus
> >is =
 that we=20
 should go that way.
> >
> >All the best,
>=20
 >
> >Mike
> >
> >
> >"Wayne =
 Carson"=20
 <<A =
 href=3D"mailto:carson_wayne@msn.com">carson_wayne@msn.com>=20
 wrote:
> >>Hi Tonehouse,
> >>
> =
 >>I=20
 usually take my final mixes (Paris mixdown) and (create a stereo =
 audio
>=20
 >
> >>file .wav) from the audio window and drop them =
 into=20
 Wavelab to check the
> >DC
> >>offset and do any =
 gain=20
 up/down balancing with other final mixes (my
cheap
> =
 >
>=20
 >>man's CD finalize tool). I generally find very little =
 offset and=20
 some
> none
> >
> >>at all during this=20
 process. Is this what you are referring to or are
you
> =
 >
> >>saying to run each individual track in Wavelab to =
 remove=20
 any DC offset
> and
> >
> >>convert them =
 back to=20
 .pafs and then begin mixing? Wouldn't this be
>=20
 >>cumbersome?
> >>
> >>Also, you mention =
 that=20
 you avoiding using boost or cut on the bass
because
> =
 >
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 >>of artifacts. Did you mean on the EQ trim or anywhere in =
 the=20
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EQ?
> >
> >>Since many of us are XP =
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a
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bit
> >>mushy in the low to low/mid area so =
maybe=20
it's been there all along.
> >>
> >>Concerning =
DC=20
offset, Mike Audet said he encountered it with a =
narrow
band
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> >>EQ at a low frequency. Sounds like there =
might be=20
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> >
> >>the =
two.
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> >>Anyhow, I'm just happy to learn so much from =
this=20
group. It helps me on
> >
> >>every mix I=20
do!!! Have a great day.
> >>
> =
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> >>> offset if you like...DC offset =
is an=20
easy thing to get rid of
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> >>> about 10 =
seconds=20
in Wavelab,,
> >>> "Dimitrios" <<A=20
href=3D"mailto:musurgio@otenet.gr">musurgio@otenet.gr> wrote in =
message
<A=20
href=3D"news:47b8d34d\$1 @linux">news:47b8d34d\$1 @linux...
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>>>>
> >>>> Hi Mike !
> =
>>>>=20
Nice you are still on boat !!!
> >>>> We count on =
your=20

findings here !
> >>>> Regarding these quirks with =
eq , yes=20
maybe these are XP oriented.
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did there was at least one band on EQ (the
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thing that=20
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>or
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>>>> so coming from the eq especially noticable with drums =
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is not=20
super stable and always
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seems
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to a=20
narrow band and at a low
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>=20

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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>or

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

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>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 =

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 > > >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,
 > > >
 > > >Mike
 > > >
 > > >
 > > >"Wayne Carson" <carson_wayne@msn.com> wrote:
 > > >>Hi Tonehouse,
 > > >>
 > > >>I usually take my final mixes (Paris mixdown) and (create a stereo
 =
 >audio
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 > > >>file .wav) from the audio window and drop them into Wavelab to =
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>>>>>=20
> This was confirmed by other users.
> >>>> Another =

>thing that=20

>>or
>=20

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

>when=20

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

>is not=20

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

>compressors=20

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

>findings=20

> ?
> >>> Regards,
> >>> =

>Dimitrios
>=20

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

>

> wrote:
> >>> >
> >>> >Hi=20

> All,
> >>> >
> >>> >I've =

>been=20

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

> >so
> >>> that
> >>> >we =

>could use=20

> will
> >>> be
> >>> >great =

>for=20

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

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

>and I=20

> should have the stereo
version
> >>> =

>finished
>=20

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

>compared to=20

> two instances
> >for
> >>> >the full =

>multi=20

> band.
> >>> >
> >>> >I've =

>been=20

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

>to a=20

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

>putting=20

> various DC offset
> >> 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=

>
>
