
Subject: Paris tips with latency / adat / digital connections etc

Posted by [Dimitrios](#) on Tue, 15 Jul 2008 08:20:24 GMT

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Hi,

As some of you (including me) are using except for the Paris ins extra outboard AD connected to Paris adat card or spdif I would like to share the following...

There is a time difference by using analog Paris ins and digital input at the same time.

I measured some devices I have against Paris inputs.

ISA 220 connected to Scope creamware using adat connection and then back to Paris ADAT gives me a 22 samples latency (Paris input considered as 0)

DBX 376 gives me 29 samples

DBX 386 gives 30 samples.

ADA8000 behringer connected directly to Paris adat card (no creamware in between) gives 24 samples latency.

Now the whole point for any of you is the following.

If you are using such devices and you want a time aligned recording (Very essential when recording multi microphone setups like drums) then you ought yourself to get Faderworks.

Well faderworks is needed by any means for all Paris users.

Now you can measure your outboard device for latency as follows:

take two outputs from your external preamp.

One analog output and connect it to Paris analog in and the digital output (spdif or ADAT) and connect this to the same eds card's submix as your analog input.

Record something like one,two,three,four and loop this.

While looping make sure the two audio tracks can cancel (well not at all but the closest that can be done) by using the sample latency delay from Voxengo or Faderworks or other latency plugin and slowly move the knob to like over 10 samples and so.

Around 20-30 samples I am sure you will find the "almost" cancellation occurring (don't forget to flip phase on one track !).

You will need to change volume on one track also to match for volume recording differences.

Then you keep data like this.

If you have Behringer ADA8000 then by using adat card there is a 24 sample latency already measured for you !

Now when you record a multiple mic setup you can compensate by using faderworks for this latencies to have a time aligned recording !!

Believe me the recording which is time aligned will sound exceptional when done so.

ALSO important when using faderworks make a preset with your cards (I have a 5 card preset) where you put the eds cards time differences already aligned in beetween the cards just by using faderworks and have the latency on on all paris audio tracks.

So first submix needs no faderworks latency input.

Second submix tracks need a 14 samples being put.

Third 16 samples, fourth 18, fifth 20 etc...

You can check that by using same method as above only easier.

Just put the same recorded audio tracks on separate submixes, flip the phase of one and put a latency plugin to check on FIRST submix (this comes earlier than all other submixes) 14 samples or maybe 15 or 16 , depends on your system !

Then every after submix it will be two samples added.

My system has 0,16,18,20,22 (cards 1-5).

You need to align all your submixes because all other DAWs have this by default ! and because this way you can insure that you can record to multiple eds cards and spread across time sensitive tracks.

Even when mixing and you wanna use more eds resources especially with Mike's great new additions (Thanks Mike !!) then you can move your overheads to submix 2 or 3 and don't care about the latency difference in between these cards because you have taken care of it already !

I can send my default preset (5 cards) and if this works for you then you will gain all the time needed to load on all paris tracks faderworks (OK this is for faderworks users only !) and align for the latency differences.

That's for now...

Regards,

Dimitrios

Subject: Re: Paris tips with latency / adat / digital connections etc

Posted by [Rich\[6\]](#) on Tue, 15 Jul 2008 15:24:32 GMT

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Thanks D for this and all your really helpful posts! Paris is hard to leave and with things like this it makes sense to keep using it.

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

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Subject: Re: Paris tips with latency / adat / digital connections etc
Posted by [Tom Bruhl](#) on Tue, 15 Jul 2008 17:13:32 GMT
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I finally have some new projects started with FaderWorks and I
have to say it makes life so convenient adding plugins and bam - compensated
for.
Sweet addition along with Mike's new plugs. Almost keepin' up with the
Jone's.

My new Paris rig arrived today . It'll be some time before it's in use. I have to configure the Magma, 5 EDS, Creamware, UAD before anything happens. Quadcore overclocked to 3.2. Holy mama .

Thanks go to Chris Ludwig, Mike Audet, Dimitrios for keeping Paris alive ! !
!

Tom

"Rich" <000studiodog_99@yahoo.com> wrote in message news:487cc130\$1@linux...

>

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