
Subject: More info on using Cubase SX as a standalone FX processor

Posted by [animix](#) on Wed, 04 Oct 2006 18:56:10 GMT

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OK,

Before you guys start getting too excited about this, it appears that there is one more hoop to jump through if you are using multiple MECs. When looping audio from Paris *through* Cubase SX channels while Cubase SX is slaved to Paris ADAT sync, Cubase crashes once audio is being looped from two different MECs. This is likely due to the latency between EDS cards causing a trainwreck with the clocking.

This will not be an issue to those who are not wanting to have plugin automation in SX. As long as SX is not slaving to the Paris timeline, the audio passes through the audio interface on Cubase and back to Paris with no problem. If, however, you want to automate plugin parameters, you will need both machines timeline synced so that you can write automation data to Cubase SX.

I am hoping to solve this problem by sending Paris ADAT sync to a JL Cooper Datasync II unit which converts ADAT timecode to MTC and then slaving Cubase SX to incoming MTC from the Datasync II.

Thank goodness for yet another kludge. I thought I had finally succeeded in accomplishing everything I started out to do and there was this sudden realization that my life would have no further purpose.

;o)

Subject: Re: More info on using Cubase SX as a standalone FX processor

Posted by [animix](#) on Wed, 04 Oct 2006 19:38:38 GMT

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Setting sync source in Cubase SX to MTC (with no midi interface selected) so that there is no interfacing between the Paris ADAT module and Cubase SX works fine.....no crashes of cubase SX when processing tracks from multiple submixes in Paris.

Thanks for you input on this Dave. Hopefully the Datasync II will do the trick.

Deej

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Subject: UH OH!!.....not good!

Posted by [animix](#) on Wed, 04 Oct 2006 19:47:19 GMT

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Subject: Re: UH OH!!.....not good!
Posted by [animix](#) on Wed, 04 Oct 2006 20:43:49 GMT
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Subject: Re: UH OH!!.....not good!
Posted by [Don Nafe](#) on Wed, 04 Oct 2006 21:44:01 GMT
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looks like it's time to set up a third computer with a basic music app..that can send a start/stop signal to an external clock module which all your goodies can then sync to

or not

Don

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Subject: Re: UH OH!!.....not good!
Posted by [Nappy](#) on Wed, 04 Oct 2006 21:50:58 GMT
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DJ'
I'm starting to think it may be time for you to make the jump to a Dualcore intel box and 2 UAD PCI-e cards running Cubase 4. I know you have invested alot of time and brain power into this,lord knows I'm exhausted just reading it. I think you would be better using PARIS as a summing buss. At least thats what I'm coming to believe. I'm going to use my old B&W G3 for my PARIS system and build a Dualcore Intel box and run Cubase 4 and be done with it.

respect

Nappy

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Subject: Re: UH OH!!.....not good!
Posted by [animix](#) on Thu, 05 Oct 2006 01:04:31 GMT
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I'm still lookng into this. There are some things about it that aren't adding up. It seems that the problem must be when a digital signal is sent

out the RE ADAT output to be returned to Paris after processing on an individual channel, though Paris isn't the app that is crashing. If I just stream audio from Cubase SX to Paris and sum it there with Paris in Live Mix mode.....including send effects, no crashing. It's when the audio is looped *through* across EDS cards with Paris in *always monitor input mode that Cubase crashes.....even when both machines are only WC synced with SX receiving no positioning info and not chasing Paris. I'm going to try the Datasync solution, but I doubt if it will cure this issue. I may have hit an insurmountable barrier here.....the sample latency between EDS cards/submixes seems to be the culprit. I have also tried it without any external hardware boxes being attached to the RME cards in the SX DAW. Makes no difference. Oh well, I can live with the scenario I was using before but it doesn't sound quite as good as what I am trying to do with using SX solely as an FX processor.

"Don Nafe" <dnafe@magma.ca> wrote in message news:45242948\$1@linux...
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Posted by [animix](#) on Thu, 05 Oct 2006 03:03:23 GMT

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C'est la ****'in vie

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Subject: AHhhh.....HA!!!

Posted by [animix](#) on Thu, 05 Oct 2006 04:44:51 GMT

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I wonder if this isn't working because some of the UAD-1 plugins (like the Neve EQ for instance) are upsampling what is essentially a Paris audio file being played *through* SX with none of the downsampling possible that would normally be part of the DSP process in SX to resolve the sample rate of the plugin to the project sample rate/clock source. If so, that would certainly explain some things. It might also explain why the UAD-1 card with ADAT I/O that was on the boards a few years ago went nowhere and why the POCO, Duende, etc. do not have digital I/O and only work in a plugin format. If these processors were upsampling/downsampling in real time, the SR converters/clocking shenanigans that would be necessary to bring the audio signal back to the project sample rate would put the pricepoint through the roof.

Well.....it's just a thought.....

;O)

Deej

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Subject: Re: UH OH!!.....not good!
Posted by [Martin Harrington](#) on Thu, 05 Oct 2006 07:26:19 GMT
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No wonder you're almost "hairless" DeeJ...you need to start winding
down...relax a little and stop re-inventing the wheel.
Use Paris as it's meant to be, or use Cubase, (or whatever), and get all the
goodies.
Why not just master in Paris??

How's Amy...you do remember her, don't you?
8>P
many regards
--
Martin Harrington
www.lendaneer-sound.com

"DJ" <notachance@net.net> wrote in message [news:45245a1a\\$1@linux...](news:45245a1a$1@linux...)

> I'm still looking into this. There are some things about it that aren't
> adding up. It seems that the problem must be when a digital signal is sent
> out the RE ADAT output to be returned to Paris after processing on an
> individual channel, though Paris isn't the app that is crashing. If I just
> stream audio from Cubase SX to Paris and sum it there with Paris in Live
> Mix
> mode.....including send effects, no crashing. It's when the audio is
> looped
> *through* across EDS cards with Paris in *always monitor input mode that
> Cubase crashes.....even when both machines are only WC synced with SX
> receiving no positioning info and not chasing Paris. I'm going to try the
> Datasync solution, but I doubt if it will cure this issue. I may have hit
> an
> insurmountable barrier here.....the sample latency between EDS
> cards/submixes seems to be the culprit. I have also tried it without any
> external hardware boxes being attached to the RME cards in the SX DAW.
> Makes
> no difference. Oh well, I can live with the scenario I was using before
> but
> it doesn't sound quite as good as what I am trying to do with using SX
> solely as an FX processor.
>
>
> "Don Nafe" <dnafe@magma.ca> wrote in message news:45242948\$1@linux...
>> looks like it's time to set up a third computer with a basic music
> app..that
>> can send a start/stop signal to an external clock module which all your
>> goodies can then sync to
>>
>>
>> or not
>>
>> Don
>>
>>
>> "DJ" <notachance@net.net> wrote in message news:45241cfe\$1@linux...
>> > Hmmmm.....this just may not be possible to achieve. I've got both
> systems
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Subject: Re: UH OH!!.....not good!
Posted by [Martin Harrington](#) on Thu, 05 Oct 2006 07:29:14 GMT
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Huh, that's funny, I didn't read Nappy's post until I sent the previous one...

It's not only me that's looking after you health

--

Martin Harrington
www.lendaneer-sound.com

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Subject: Re: UH OH!!.....not good!
Posted by [Nappy](#) on Thu, 05 Oct 2006 07:43:18 GMT
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Martin,
We think alot alike,maybe it because we are about the same age;with in days!
I think? I was born 4 July 1956,you the 3rd of July if I remember correctly?

respect
Nappy

"Martin Harrington" <lendan@bigpond.net.au> wrote:
>Huh, that's funny, I didn't read Nappy's post until I sent the previous

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Subject: Re: UH OH!!.....not good!
Posted by [rick](#) on Thu, 05 Oct 2006 09:00:16 GMT
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you should see how deej makes toast...oy...264 ramblers standing on end with the hoods removed about 3 inches apart. i mean it works but just a tad excessive. but then, that's our deej isn't it.

On 5 Oct 2006 17:43:18 +1000, "Nappy" <mgrant01@san.rr.com> wrote:

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>I wonder if this isn't working because some of the UAD-1 plugins (like the
>Neve EQ for instance) are upsampling what is essentially a Paris audio file
>being played *through* SX with none of the downsampling possible that would
>normally be part of the DSP process in SX to resolve the sample rate of the
>plugin to the project sample rate/clock source. If so, that would certainly
>explain some things. It might also explain why the UAD-1 card with ADAT I/O
>that was on the boards a few years ago went nowhere and why the POCO,
>Duende, etc. do not have digital I/O and only work in a plugin format. If
>these processors were
>upsampling/downsampling in real time, the SR converters/clocking shenanigans
>that would be necessary to bring the audio signal back to the project sample
>rate would put the pricepoint through the roof.

>
>Well.....it's just a thought.....

>
>;O)

>
>Deej

>
>
>
>

>"DJ" <notachance@net.net> wrote in message news:452475f8@linux...

>> Well.....I'm baffled by this and I'm just going to let it slide for a
>> while. Looping audio *through* SX so that it functions as a standalone FX
>> processor has been a total bust so far. OTOH, streaming tracks directly
>from

>> SX (lots of them) to Paris and summing there does not create the clocking
>> trainwreck that looping through the inserts does. I guess it must be the
>> loop that is causing it as opposed to the one way trip.

>>
>> C'est la ****'in vie

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Subject: Re: UH OH!!.....not good!
Posted by [Martin Harrington](#) on Thu, 05 Oct 2006 10:37:41 GMT
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You're right Nappy...life's too short....

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Martin
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Subject: Re: AHhhh.....HA!!!
Posted by [animix](#) on Thu, 05 Oct 2006 12:02:41 GMT
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Yes, they are, but the UAD-1 upsamples during processing with the Fairchild, 1073, Pultec and some others.

"rick" <parnell68@hotmail.com> wrote in message
news:gei9i2tdu1nimf16gnf75mfl7hsb0lpb82@4ax.com...
> aren't all the machines set to the same sample rate?
>
> On Wed, 4 Oct 2006 22:44:51 -0600, "DJ" <notachance@net.net> wrote:
>
> >I wonder if this isn't working because some of the UAD-1 plugins (like
the
> >Neve EQ for instance) are upsampling what is essentially a Paris audio
file
> >being played *through* SX with none of the downsampling possible that
would
> >normally be part of the DSP process in SX to resolve the sample rate of
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> >plugin to the project sample rate/clock source. If so, that would
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> >explain some things. It might also explain why the UAD-1 card with ADAT
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> >that was on the boards a few years ago went nowhere and why the POCO,
> >Duende, etc. do not have digital I/O and only work in a plugin format. If
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> >Well.....it's just a thought.....

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> >Deej
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> >> C'est la ****'in vie
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Subject: Re: UH OH!!.....not good!
Posted by [animix](#) on Thu, 05 Oct 2006 12:20:08 GMT
[View Forum Message](#) <> [Reply to Message](#)

June 29 1950 here.

;o)

"Nappy" <mgrant01@san.rr.com> wrote in message news:4524b796\$1@linux...

>
> Martin,
> We think alot alike,maybe it because we are about the same age;with in
days!
> I think? I was born 4 July 1956,you the 3rd of July if I remember
correctly?
>
> respect
> Nappy
>
> "Martin Harrington" <lendan@bigpond.net.au> wrote:
> >Huh, that's funny, I didn't read Nappy's post until I sent the previous
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> >It's not only me that's looking after you health
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> >>
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> >> I'm starting to think it may be time for you to make the jump to a
> >> Dualcore
> >> intel box and
> >> 2 UAD PCI-e cards running Cubase 4. I know you have invested alot of
> time
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> >>>Hmmm.....this just may not be possible to achieve. I've got both
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> >>>clocked to those cards may be an insurmountable issue here.
> >>>Deej
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> >>>> The Cubase rig just crashed while not receiving any sync info at all
> >>>>between
> >>>> Paris and Cubase. Not good. I've got another trick up my sleeve. Stay
> >>>>tuned.
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> >>>>> > Further repeated testing has verified that when Paris ADAT sync

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> >>>> > audio track from Submix 2/card B/MEC 2 starting to play.

> >>>> >

> >>>> > Setting sync source in Cubase SX to MTC (with no midi interface

> >>>>selected)

> >>>> so

> >>>> > that there is no interfacing between the Paris ADAT module and

Cubase

> >> SX

> >>>> > works fine.....no crashes of cubase SX when processing tracks from

> >>>> multiple

> >>>> > submixes in Paris.

> >>>> >

> >>>> > Thanks for you input on this Dave. Hopefully the Datasync II will

> do

> >> the

> >>>> > trick.

> >>>> >

> >>>> > Deej

> >>>> >

> >>>> >

> >>>> >

> >>>> > "DJ" <notachance@net.net> wrote in message news:452403c4@linux...

> >>>> > > OK,

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Subject: Re: AHhhh.....HA!!!
Posted by [animix](#) on Thu, 05 Oct 2006 12:27:42 GMT
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Hmmmm.....maybe so?

"Don Nafe" <dnafe@magma.ca> wrote in message news:4524f895@linux...

> Ya know I actually understood that....scarey

>

> would putting SX into record mode complete that circuit in the UAD?

>

> DOn

>

>

> "DJ" <notachance@net.net> wrote in message news:45248dc6@linux...

> > I wonder if this isn't working because some of the UAD-1 plugins (like the

> > Neve EQ for instance) are upsampling what is essentially a Paris audio
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> > being played *through* SX with none of the downsampling possible that
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If

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Subject: Re: AHhhh.....HA!!!
Posted by [Don Nafe](#) on Thu, 05 Oct 2006 12:28:34 GMT
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Subject: Re: UH OH!!.....not good!
Posted by [Nei](#) on Thu, 05 Oct 2006 13:21:11 GMT
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Martin, I'm with you & Nappy. I like tinkering, too, but at some stage if something gets too convoluted, you start reaching a point of diminishing returns. DeeJ, have you considered that part of your issue with sync/lock might be that you're going in & out of both machines in digital? What would happen if you switched to analog? I mean, you've got good convertors on both ends there, so I'd hardly think signal degradation would be a problem.

Either that or just track in Paris, export the files so you can mix in SX (even upsample to 96k on the way in, if you must!) so you can use all your EFX, but use four submixes out of your Multiface analog outs, then back into your Paris box to sum in live mode. That way you get to hit those Paris convertors one more time, in fact. :)

Heck, with most of the stuff you do (bluegrass, folkish stuff, etc) "clean" is good... you could live perfectly happily with just SX & those nice clean RME convertors.

Heaven forbid! lol

Neil

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

>Huh, that's funny, I didn't read Nappy's post until I sent the previous

>one...

>It's not only me that's looking after you health

>--

>Martin Harrington

>www.lendanear-sound.com

>

>"Nappy" <mgrant01@san.rr.com> wrote in message news:45242cc2\$1@linux...

>>

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>> I'm starting to think it may be time for you to make the jump to a

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>> brain power into this, lord knows I'm exhausted just reading it. I think

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>> better using PARIS as a summing buss. At least thats what I'm coming to

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>> I'm going to use my old B&W G3 for my PARIS system and build a Dualcore

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>> Nappy

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Subject: Re: UH OH!!.....not good!
Posted by [Nappy](#) on Thu, 05 Oct 2006 14:32:27 GMT
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What a bunch we are here!
That explains it.
DJ,I want you to know I've got a ton of respect for you,and I think what you're doing in your studio is very creative. It truly makes my head spin,and I think I'm a pretty smart guy. Keep your note on this whole process I may go your way in the end,who knows. I like to keep a open mind. Thanks for blazing t trail for us all!

respect
Nappy

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>> >>>> > positioning protocol is selected as the Cubase sync source, even
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>> >>>> > transport is set to internal so that the Cubase transport is not
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> Nappy
>
> "DJ" <notachance@net.net> wrote:
> >June 29 1950 here.
> >
> >;o)
> >
> >"Nappy" <mgrant01@san.rr.com> wrote in message news:4524b796\$1@linux...
> >>
> >> Martin,
> >> We think alot alike,maybe it because we are about the same age;with in
> >>days!
> >> I think? I was born 4 July 1956,you the 3rd of July if I remember
> >>correctly?
> >>
> >> respect
> >> Nappy
> >>
> >> "Martin Harrington" <lendan@bigpond.net.au> wrote:
> >> >Huh, that's funny, I didn't read Nappy's post until I sent the
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> >> >It's not only me that's looking after you health
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> >> >> Dualcore
> >> >> intel box and
> >> >> 2 UAD PCI-e cards running Cubase 4. I know you have invested alot
> >> of
> >> time
> >> >> and
> >> >> brain power into this,lord knows I'm exhausted just reading it. I
think
> >>
> >> >> you
> >> >> would be
> >> >> better using PARIS as a summing buss. At least thats what I'm coming
> >> to
> >>
> >> >> believe.

> >> >> I'm going to use my old B&W G3 for my PARIS system and build a
Dualcore
> >>
> >> >> Intel
> >> >> box and run Cubase 4 and be done with it.
> >> >>
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> >> >> "DJ" <notachance@net.net> wrote:
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Subject: Re: AHhhh.....HA!!!
Posted by [rick](#) on Thu, 05 Oct 2006 18:34:48 GMT
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are we talking bit rate or sample rate? i no longer have my uad card but thought they worked at the pre specified rate of the audio. maybe you can put a dummy file in sx to lock the uad sample rate to match the rest.

On Thu, 5 Oct 2006 06:02:41 -0600, "DJ" <notachance@net.net> wrote:

>Yes, they are, but the UAD-1 upsamples during processing with the Fairchild, >1073, Pultec and some others.

>
>

>"rick" <parnell68@hotmail.com> wrote in message
>news:gei9i2tdu1nimf16gnf75mfl7hsb0lpb82@4ax.com...
>> aren't all the machines set to the same sample rate?

>>
>> On Wed, 4 Oct 2006 22:44:51 -0600, "DJ" <notachance@net.net> wrote:

>>
>> >I wonder if this isn't working because some of the UAD-1 plugins (like
>the
>> >Neve EQ for instance) are upsampling what is essentially a Paris audio
>file
>> >being played *through* SX with none of the downsampling possible that
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>> >normally be part of the DSP process in SX to resolve the sample rate of
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>> >plugin to the project sample rate/clock source. If so, that would
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>> >explain some things. It might also explain why the UAD-1 card with ADAT
>I/O

>> >that was on the boards a few years ago went nowhere and why the POCO,
>> >Duende, etc. do not have digital I/O and only work in a plugin format. If
>> >these processors were

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>> >that would be necessary to bring the audio signal back to the project

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>

Subject: Re: UH OH!!.....not good!
Posted by [rick](#) on Thu, 05 Oct 2006 18:36:29 GMT
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then he'd be in my world.

On 5 Oct 2006 23:21:11 +1000, "Neil" <OIUOI@OIU.com> wrote:

>
>Martin, I'm with you & Nappy. I like tinkering, too, but at
>some stage if something gets too convoluted, you start reaching
>a point of diminishing returns. Deej, have you considered that
>part of your issue with sync/lock might be that you're going in
>& out of both machines in digital? What would happen if you
>switched to analog? I mean, you've got good convertors on both
>ends there, so I'd hardly think signal degradation would be a

>problem.
>
>Either that or just track in Paris, export the files so you can
>mix in SX (even upsample to 96k on the way in, if you must!) so
>you can use all your EFX, but use four submixes out of your
>Multiface analog outs, then back into your Paris box to sum in
>live mode. That way you get to hit those Paris convertors one
>more time, in fact. :)
>
>Heck, with most of the stuff you do (bluegrass, folkish stuff,
>etc) "clean" is good... you could live perfectly happily with
>just SX & those nice clean RME convertors.
>
>Heaven forbid! lol
>
>Neil
>
>
>"Martin Harrington" <lendan@bigpond.net.au> wrote:
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>

Subject: Re: AHhhh.....HA!!!
Posted by [Don Nafe](#) on Thu, 05 Oct 2006 21:53:31 GMT
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I take it my suggestion didn't work

Don

"DJ" <notachance@net.net> wrote in message news:4524fa4b@linux...
> Hmmmm.....maybe so?
>
> "Don Nafe" <dnafe@magma.ca> wrote in message news:4524f895@linux...
>> Ya know I actually understood that....scarey
>>
>> would putting SX into record mode complete that circuit in the UAD?
>>
>> DOn
>>
>>
>> "DJ" <notachance@net.net> wrote in message news:45248dc6@linux...
>> >I wonder if this isn't working because some of the UAD-1 plugins (like
> the
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>> >> > ;o)
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Subject: Re: AHhhh.....HA!!!
Posted by [animix](#) on Fri, 06 Oct 2006 00:47:00 GMT
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Haven't tried it yet Don.

"Don Nafe" <dnafe@magma.ca> wrote in message <news:45257cfd@linux...>

> I take it my suggestion didn't work

>

> Don

>

>

> "DJ" <notachance@net.net> wrote in message <news:4524fa4b@linux...>

> > Hmmmm.....maybe so?

> >

> > "Don Nafe" <dnafe@magma.ca> wrote in message <news:4524f895@linux...>

> > > Ya know I actually understood that....scarey

> > >

> > > would putting SX into record mode complete that circuit in the UAD?

> > >

> > > DOn

> > >

> > >

> > > "DJ" <notachance@net.net> wrote in message <news:45248dc6@linux...>

> > > > I wonder if this isn't working because some of the UAD-1 plugins (like

> > > the

> > > > Neve EQ for instance) are upsampling what is essentially a Paris
audio

> > > > file

> > > > being played *through* SX with none of the downsampling possible that

> > > > would

> > > > normally be part of the DSP process in SX to resolve the sample rate
of

> > > > the

> > > > plugin to the project sample rate/clock source. If so, that would

> > > > certainly

> > > > explain some things. It might also explain why the UAD-1 card with
ADAT

> > > > I/O

> > > > that was on the boards a few years ago went nowhere and why the POCO,

> > > > Duende, etc. do not have digital I/O and only work in a plugin

format.

> > If
> >> > these processors were
> >> > upsampling/downsampling in real time, the SR converters/clocking
> >> > shenanigans
> >> > that would be necessary to bring the audio signal back to the project
> >> > sample
> >> > rate would put the pricepoint through the roof.
> >> >
> >> > Well.....it's just a thought.....
> >> >
> >> > ;O)
> >> >
> >> > Deej
> >> >
> >> >
> >> >
> >> >
> >> > "DJ" <notachance@net.net> wrote in message news:452475f8@linux...
> >> >> Well.....I'm baffled by this and I'm just going to let it slide
> >> >> for
> > a
> >> >> while. Looping audio *through* SX so that it functions as a
standalone
> > FX
> >> >> processor has been a total bust so far. OTOH, streaming tracks
> >> >> directly
> >> > from
> >> >> SX (lots of them) to Paris and summing there does not create the
> > clocking
> >> >> trainwreck that looping through the inserts does. I guess it must be
> > the
> >> >> loop that is causing it as opposed to the one way trip.
> >> >>
> >> >> C'est la ****'in vie
> >> >>
> >> >> ;o)
> >> >>
> >> >> "DJ" <notachance@net.net> wrote in message news:452403c4@linux...
> >> >> > OK,
> >> >> >
> >> >> > Before you guys start getting too excited about this, it appears
> >> >> > that
> >> >> > there
> >> >> > is one more hoop to jump through if you are using multiple MECs.
> >> >> > When
> >> >> > looping audio from Paris *through* Cubase SX channels while Cubase
> >> >> > SX
> >> >> > is

> >
>
>
>

Subject: Re: AHhhh.....HA!!!
Posted by [rick](#) on Fri, 06 Oct 2006 09:48:44 GMT
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well, that's almost as dumb as me.

On Thu, 5 Oct 2006 14:46:25 -0600, "DJ" <notachance@net.net> wrote:

>Rick,

>
>some UAD-1 plugins upsample the signal while processing it.....the sneaky
>bastards.

>
>"rick" <parnell68@hotmail.com> wrote in message
>news:mujai210kurc2or3ne8ek78h4coqmv54pi@4ax.com...
>> are we talking bit rate or sample rate? i no longer have my uad card
>> but thought they worked at the pre specified rate of the audio. maybe
>> you can put a dummy file in sx to lock the uad sample rate to match
>> the rest.

>>
>> On Thu, 5 Oct 2006 06:02:41 -0600, "DJ" <notachance@net.net> wrote:

>>
>> >Yes, they are, but the UAD-1 upsamples during processing with the
>>Fairchild,
>> >1073, Pultec and some others.

>> >

>> >

>> >"rick" <parnell68@hotmail.com> wrote in message
>> >news:gei9i2tdu1nimf16gnf75mfl7hsb0lpb82@4ax.com...
>> >> aren't all the machines set to the same sample rate?

>> >>

>> >> On Wed, 4 Oct 2006 22:44:51 -0600, "DJ" <notachance@net.net> wrote:
>> >>

>> >> >I wonder if this isn't working because some of the UAD-1 plugins (like
>> >the
>> >> >Neve EQ for instance) are upsampling what is essentially a Paris audio
>> >file
>> >> >being played *through* SX with none of the downsampling possible that
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