
Subject: dj about your idea

Posted by [chuck duffy](#) on Fri, 27 Oct 2006 13:16:25 GMT

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Hi DJ,

I guess what we are talking about is two things:

1. An ASIO host application with let's say 64 ins and 64 outs. This app would also be a VST host application that would let you insert plugs on each of the 64 ins. It would add up the total latency on each input, buffer the output to some consistent user entered amount, and send it out the output. The latency for every channel would end up being exactly the same user entered amount.

2. A simple VST plugin that would allow you to select an input and output ASIO channel. That's all that one would do. This plug wouldn't have any latency of it's own.

So my question is..... Is there any other possible use for such a setup?

I would be willing to get involved in an open source freeware, ad/donation supported project for this if there was.

Chuck

Subject: Re: dj about your idea

Posted by [Dimitrios](#) on Fri, 27 Oct 2006 14:03:03 GMT

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Chuck,

You have hit gold here.

Well at least among Paris users...

Can you imagine all Parisians have the ability to send their Cubase (sorry DJ) tracks via asio destination channels to Paris for mixing ?

So one could install a basic simple audio card with low latency like rme or other like pULSAR which can have up to 64 asio destinations, well 16 would be great 8 would be enough.

Thus you can open a vst effect on Paris audio track 1 choose asio destination 1 and then on Pulsar environment asio 1 will receive the output of that channel.

So if a Paris user installs a Pulsar II card (3ms) then a Paris audio track can go out to Pulsar have a great digital effect and come back on vst again with asio to complete the route.

That could be done with rme/Cubase on same computer with Paris or other combination.

Anyway Chuck I am willing to pay for it 100\$ is ok ? he

One thing that matters is the vst instances must be synced at the same latency asio card will use. I guess that this may be obvious but anyway I would

like to point.

Other daws that luck asio could benefit also.

How much would you define as a payment for the time and skills that would involve such a task ?

Regards and thanks !

Dimitrios

"chuck duffy" <c@c.com> wrote:

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>Hi DJ,

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>1. An ASIO host application with let's say 64 ins and 64 outs. This app
>would also be a VST host application that would let you insert plugs on
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>Chuck

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Subject: Re: dj about your idea

Posted by [Rob Arsenault](#) on Fri, 27 Oct 2006 14:21:17 GMT

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If this lets me use my uad plugins in paris with minimal latency grief,
count me and my MasterCard in as well.

Rob

"chuck duffy" <c@c.com> wrote in message news:454206a9\$1@linux...
>
> Hi DJ,
>
> I guess what we are talking about is two things:
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> 1. An ASIO host application with let's say 64 ins and 64 outs. This app
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> Chuck
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Subject: Re: dj about your idea
Posted by [chuck duffy](#) on Fri, 27 Oct 2006 15:12:59 GMT
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Well, the real question is if this has any use *outside* of paris users.
It would need to have some sort of audience beyond the paris community to
get the kind of numbers that make ad revenue possible.

Chuck

"Dimitrios" <musurgio@otenet.gr> wrote:
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>"chuck duffy" <c@c.com> wrote:
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Subject: Re: dj about your idea
Posted by [chuck duffy](#) on Fri, 27 Oct 2006 15:23:08 GMT
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Hi Alex,

It might be, but I'm looking at a few other angles:

1. The plugin code in paris is ancient and it runs lots of newer plugs poorly, with weird side effects, or not at all. This would be an opportunity to run the plugs in a modern environment, and get latency compensation
2. We don't have access to the VST/DX plug-in code, or any other paris application code, so I can't really produce a delay compensator.
3. Since there are other, but more limited apps like this out there that act as effects, instrument hosts, i figured that there might be an audience outside of the paris community that could use it too. That's the only way I would really take on something like this.

Chuck

"alex plasko" <alex.plasko@snet.net> wrote:

>Chuck

>would an auto latency compensation plug in be easier to build?Im no software

>engineer but isnt that just a ping?

>

>"chuck duffy" <c@c.com> wrote in message [news:454206a9\\$1@linux...](news:454206a9$1@linux...)

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Subject: Re: dj about your idea
Posted by [AlexPlasko](#) on Fri, 27 Oct 2006 15:26:22 GMT
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Chuck
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"chuck duffy" <c@c.com> wrote in message news:454206a9\$1@linux...

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Subject: Re: dj about your idea
Posted by [Nil](#) on Fri, 27 Oct 2006 15:33:40 GMT
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"chuck duffy" <c@c.com> wrote:

>
>Well, the real question is if this has any use *outside* of paris users.

>It would need to have some sort of audience beyond the paris community to
>get the kind of numbers that make ad revenue possible.

Check, what if you included, as part of the whole package, a few plugins as well (maybe a basic selection of dynamics, reverb, EQ, modulation stuff, etc. - just some different flavors of those types of things)? That way it could give anyone & everyone a reason to try it beyond just the routing options. Are any of the plugins you ported over port-able to VST? If so, you could use some of those.

Neil

Subject: Re: dj about your idea
Posted by [AlexPlasko](#) on Fri, 27 Oct 2006 15:50:33 GMT
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I hear that. I wouldnt want to work for next to nothing either.maybe someday edmund will have a change of heart and i can dust off the paris rig again.if i live that long :-)"chuck duffy" <c@c.com> wrote in message news:4542245c\$1@linux...
>

> Hi Alex,
>
> It might be, but I'm looking at a few other angles:
>
> 1. The plugin code in paris is ancient and it runs lots of newer plugs
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> with weird side effects, or not at all. This would be an opportunity to
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Subject: Re: dj about your idea
Posted by [animix](#) on Fri, 27 Oct 2006 15:53:11 GMT
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Chuck,

There is already an ASIO host application that has unlimited I/O so #2 has been covered. It's not simple though
<http://www.plogue.com/index.php?option=content&task=view &id=21&Itemid=35>
I haven't tried it yet but will likely get around to it over the weekend or early next week. I was thinking of something that could interface directly with Paris so that the UAD-1 cards could work directly on the Paris DAW without having to interface via ADAT on a second workstation. Old Magma's are cheap these days and having the cards in the Paris workstation running Win XP without having to interface with a second DAW using lightpipe would be ideal. this is why I was thinking of Wires. As far as an ASIO driver, under the "Paris DAW being host" scenario, without an efficient ASIO driver, for Paris, I don't see this happening. To tell you the truth, I haven't used the Paris ASIO driver in years. I wonder if it would work with a VST host like Forte or Chainer? I do remember some latency with this driver, but it's been a long time. Anyway, as far as third party uses for the VST host you are proposing in #1I honestly don't know unless they were wanting to stream from a DAW with no latency compensation to a digital mixer. I don't think there are any DAWs, other than Paris left on earth that don't have latency compensation.

If you decide you want to do this, I will support your efforts 100%.

Thanks,

DJ

"chuck duffy" <c@c.com> wrote in message news:454206a9\$1@linux...

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> Chuck

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Subject: Re: dj about your idea

Posted by [brandon\[2\]](#) on Fri, 27 Oct 2006 16:15:06 GMT

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Is the reason for all of this to basically make up for the need of native
inserts on the PARIS AUX busses?

Brandon

"DJ" <notachance@net.net> wrote in message news:45422b7b@linux...
> Chuck,
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> [http://www.plogue.com/index.php?option=content&task=view &id=21&Itemid=35](http://www.plogue.com/index.php?option=content&task=view&id=21&Itemid=35)
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Subject: Re: dj about your idea
Posted by [animix](#) on Fri, 27 Oct 2006 16:20:19 GMT
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Not really. The need for this (for me) is to be able to work in a less chaotic way when using UAD-1 plugins with Paris. To be nudging tracks around all over the *^%\$%\$^&^* place and trying to keep up with what whas nudged where and how much drives me even crazier than the crap I'm dealing with trying to find a wyay not to do it....plus, it makes using the now line as a visual reference in the editor a useless endeavor because the latency is so extreme that the track is practically off the screen by the time you hear it.

;o)

"Brandon" <a@a.com> wrote in message news:45422e76\$1@linux...
> Is the reason for all of this to basically make up for the need of native
> inserts on the PARIS AUX busses?
>
> Brandon
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>
>
> "DJ" <notachance@net.net> wrote in message news:45422b7b@linux...

> > Chuck,
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Subject: Re: dj about your idea
Posted by [brandon\[2\]](#) on Fri, 27 Oct 2006 17:00:51 GMT
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So if there was an automatic delay compensator and Native inserts on the AUX
busses everyone would be happy?

Brandon

"DJ" <notachance@net.net> wrote in message news:454231d8@linux...
> Not really. The need for this (for me) is to be able to work in a less
> chaotic way when using UAD-1 plugins with Paris. To be nudging tracks
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Subject: Re: dj about your idea
Posted by [chuck duffy](#) on Fri, 27 Oct 2006 17:40:45 GMT
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Dj,

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It would be hardwareless.

Chuck

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>There is already an ASIO host application that has unlimited I/O so #2 has
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>"chuck duffy" <c@c.com> wrote in message news:454206a9\$1@linux...

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Subject: Re: dj about your idea
Posted by [chuck duffy](#) on Fri, 27 Oct 2006 17:41:38 GMT
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No because there are tons of plugs that just DONT run in paris, let alone
vstis!

Chuck

"Brandon" <a@a.com> wrote:

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>busses everyone would be happy?

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Subject: Re: dj about your idea
Posted by [animix](#) on Fri, 27 Oct 2006 17:51:31 GMT
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Ahhh.....OK.....so Paris would open this as a VST plugin? Can't we already do that with chainer, etc?

"chuck duffy" <c@c.com> wrote in message news:4542449d\$1@linux...

>

> Dj,

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> I think you are misunderstanding a little :-) The asio streams in this "new"

> asio host would be all virtual and not require any hardware or adats interfaces

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Subject: Re: dj about your idea
Posted by [animix](#) on Fri, 27 Oct 2006 17:52:41 GMT
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DOH!!!!.....OK, the difference being that with this plug we ould compensate
latency?

"DJ" <notachance@net.net> wrote in message news:454246bc\$1@linux...
> Ahhh.....OK.....so Paris would open this as a VST plugin? Can't we
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Subject: Re: dj about your idea
Posted by [Rich\[3\]](#) on Fri, 27 Oct 2006 18:02:53 GMT
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That's like asking my wife if I finish painting the Kitichen and cut the grass can I watch all the games every Sunday for the rest of the year....

"Brandon" <a@a.com> wrote:

>So if there was an automatic delay compensator and Native inserts on the AUX

>busses everyone would be happy?

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Subject: Re: dj about your idea
Posted by [Don Nafe](#) on Fri, 27 Oct 2006 19:38:20 GMT
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Hey Deej

Please excuse my pestering but Reaper has two relatively new things happening now...one is the their version of rewire (routing between apps) and the second is "Remote" which is Wormhole-like (passing audio via networking) and between these two things it might be what you're looking for.

DOn

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> Chuck
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Subject: Re: dj about your idea

Posted by [Dimitrios](#) on Fri, 27 Oct 2006 19:38:35 GMT

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Just to clear up things regarding Chuck's suggestion and ASIO.

Well

1)you will be needing another audio card that supports asio
i.e. Pulsar card with scope environment (which can accomodate 16adat channels,spdif,2
analog) Pulsar can give you 64 asio routing channels.

Now if Chuck's vst2asio plugin can "see" these channels (or less than 64
maybe 24 whatever) then if pulsar runs at 3ms asio the latency beetween pulsar
and Paris back and forth will be 6ms.

2) If you are gonna use Cubase on same computer with Paris you will be needing
either pulsar card or rme card on same computer with paris.

So vst2asio will see the cubase asio outputs and so audio can transfer back and forth.

3) If you are gonna use also UAD1 cards there will be a big pci stress on the machine.

I see only true benefit with a dsp card like Pulsar which has asio or any other dsp card with asio like Emu or maybe the Nuende or Focusrite ...

If you don't need to use UAD1 on same computer I am sure with one asio audio card cubase can be this way intergrated with Paris on same computer with very small latency as so to bring in VSTI and other.

Just some thoughts...

Regards,
Dimitrios

"chuck duffy" <c@c.com> wrote:

>

>Well, there were three things going on.

>

>1. I thought chainer didn't allow enough channels, or enough instances.

>

>2. I thought the other VST hosts you were using required physical audio connections

>(ie were not virtual) .

>

>3. I thought the other hosts didn't have enough asio channels

>

>"DJ" <notachance@net.net> wrote:

>>DOH!!!!.....OK, the difference being that with this plug we ould compensate
>>latency?

>>

>>

>>"DJ" <notachance@net.net> wrote in message news:454246bc\$1@linux...

>>> Ahhh.....OK.....so Paris would open this as a VST plugin? Can't we

>>>already

>>> do that with chainer, etc?

>>>

>>>

>>>

>>> "chuck duffy" <c@c.com> wrote in message news:4542449d\$1@linux...

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>>> > Dj,

>>> >

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>>> > at all.
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>>> > >Thanks,
>>> > >
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Subject: Re: dj about your idea
Posted by [Aaron Allen](#) on Fri, 27 Oct 2006 22:31:18 GMT
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I'm in.
AA

"chuck duffy" <c@c.com> wrote in message news:4542245c\$1@linux...
>
> Hi Alex,
>
> It might be, but I'm looking at a few other angles:
>
> 1. The plugin code in paris is ancient and it runs lots of newer plugs
> poorly,
> with weird side effects, or not at all. This would be an opportunity to
> run
> the plugs in a modern environment, and get latency compensation
>
> 2. We don't have access to the VST/DX plug-in code, or any other paris
> application
> code, so I can't really produce a delay compensator.

>
> 3. Since there are other, but more limited apps like this out there that
> act as effects, instrument hosts, i figured that there might be an
> audience
> outside of the paris community that could use it too. That's the only way
> I would really take on something like this.
>
> Chuck
>
> "alex plasko" <alex.plasko@snet.net> wrote:
>>Chuck
>>would an auto latency compensation plug in be easier to build?Im no
>>software
>
>>engineer but isnt that just a ping?
>>
>>"chuck duffy" <c@c.com> wrote in message news:454206a9\$1 @linux...
>>>
>>> Hi DJ,
>>>
>>> I guess what we are talking about is two things:
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>>> 1. An ASIO host application with let's say 64 ins and 64 outs. This app
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Subject: Re: dj about your idea
Posted by [Aaron Allen](#) on Fri, 27 Oct 2006 22:34:03 GMT
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would work over a network/firewire??
AA

"chuck duffy" <c@c.com> wrote in message news:4542449d\$1@linux...

>
> Dj,
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> I think you are misunderstanding a little :-) The asio streams in this
> "new"
> asio host would be all virtual and not require any hardware or adats
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>>There is already an ASIO host application that has unlimited I/O so #2 has
>>been covered. It's not simple though
>> <http://www.plogue.com/index.php?option=content&task=view &id=21&Itemid=35>

>>I haven't tried it yet but will likely get around to it over the weekend
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>>> Chuck
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>>>
>>>
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>>
>>
>

Subject: Re: dj about your idea
Posted by [animix](#) on Fri, 27 Oct 2006 23:14:56 GMT
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To me it's going to be all about whether I think the Pulsar FX are equivalent to UAD FX...not exactly the same, I wouldn't expect that, but equivalent. I would really like to be able to use the UAD-1 cards with Paris in a low latency environment though. These FX just wsound great and I'm used to working with them so mixing with them is comfortable.

;o)

"Dimitrios" <musurgio@otenet.gr> wrote in message news:4542603b\$1@linux...

>
> Just to clear up things regarding Chuck's suggestion and ASIO.
> Well
> 1)you will be needing another audio card that supports asio
> i.e. Pulsar card with scope environment (which can acommodate 16adat channels,spdif,2
> analog) Pulsar can give you 64 asio routing channels.
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Subject: Re: dj about your idea
Posted by [animix](#) on Fri, 27 Oct 2006 23:21:42 GMT

Chuck,

"chuck duffy" <c@c.com> wrote in message news:45424d16\$1@linux...

>

> Well, there were three things going on.

>

> 1. I thought chainer didn't allow enough channels, or enough instances.

I've never used Chainer so I don't know.

>

> 2. I thought the other VST hosts you were using required physical audio connections

> (ie were not virtual) .

Again, I'm not sure.

>

> 3. I thought the other hosts didn't have enough asio channels

The only one that I know of that does is the one by Plogue.

I'm definitely not an authority on these things. I have used Forte as a standalone VST host. It worked great streaming over ADAT but I ran out of channels. The one with unlimited channels looks promising, but I don't know *what* it requires, other than it will recognize *all* physical I/O and allow it to be configured as busses of various types.

DJ

>

> "DJ" <notachance@net.net> wrote:

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Subject: Re: dj about your idea
Posted by [Dimitrios](#) on Sat, 28 Oct 2006 12:43:45 GMT
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DJ,
What I suggest.
1)One pc with Paris cards only and the mecs with adat channels.

2)One pc with three pulsar card and many adat /spdif connections.

3) One pc with UAD1 cards only.

Now the fun part:
On pc number 2 (pulsar) you occupy 16 adat channels (or even 24, one adat plate) to connect the pc number 3 wich has UAD1 cards and RME card.

On pc number 2 the other adat ports are send to Mecs and outboard converters for external devices hookup

Now adat come and go inside Pulsar is 15 samples latent, so add another 15 for the PC-UAD1 connection goes upto 30 samples, now RME can go as low as 1.5ms (Right?) thus the latency will be 3ms+30 samples or around 150-160 samples.

Inside Pulsar environement where everything interconnects you can add some extra latency to have a real Paris nudge latency of 2 or 3 nudge clicks or even a single 5ms nudge click.

When everything will be templated it will be damn easy to work with.

You will get the picture when you will have and work with your pulsars.

Regards,

Dimitrios

"DJ" <notachance@net.net> wrote:

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>equivalent to UAD FX...not exactly the same, I wouldn't expect that, but
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>> and Paris back and forth will be 6ms.

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>> 2) If you are gonna use Cubase on same computer with Paris you will be
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>> I see only true benefit with a dsp card like Pulsar which has asio or
any
>> other dsp card with asio like Emu or maybe the Nuende or Focusrite ...
>>
>> If you don't need to use UAD1 on same computer I am sure with one asio
>audio
>> card cubase can be this way intergrated with Paris on same computer with
>> very small latency as so to bring in VSTI and other.
>>
>> Just some thoughts...
>> Regards,
>> Dimitrios
>>
>> "chuck duffy" <c@c.com> wrote:
>> >
>> >Well, there were three things going on.
>> >
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Subject: Re: dj about your idea

Posted by [chuck duffy](#) on Sat, 28 Oct 2006 13:45:07 GMT

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It would work by shuttling samples in and out of a piece of shared memory on a single machine. It would not be networked, or require hardware of any kind, but it would also not introduce and latency.

"Aaron Allen" <know-spam@not_here.dude> wrote:

>would work over a network/firewire??

>AA

>

>

>"chuck duffy" <c@c.com> wrote in message news:4542449d\$1@linux...

>>

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>> Chuck

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>>>There is already an ASIO host application that has unlimited I/O so #2
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>>> <http://www.plogue.com/index.php?option=content&task=view&id=21&Itemid=35>

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Subject: Re: dj about your idea
Posted by [chuck duffy](#) on Sat, 28 Oct 2006 13:48:22 GMT
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"Dimitrios" <musurgio@otenet.gr> wrote:

>
>Just to clear up things regarding Chuck's suggestion and ASIO.
>Well
>1)you will be needing another audio card that supports asio
>.i.e. Pulsar card with scope environment (which can acomodate 16adat channels,spdif,2
>analog)

NO NO NO :-) That is not correct:-) You will not need another card. The whole point is to virtualize connections, using shared memory on the PC for interconnections between the "new" asio host and paris.

I wouldn't do anything that required *more* hardware :-)

Chuck

Subject: Re: dj about your idea
Posted by [audioguy_editout](#) on Sat, 28 Oct 2006 16:17:37 GMT
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Then you know for sure DJ won't go for it... ;-)

David.

chuck duffy wrote:

> I wouldn't do anything that required *more* hardware :-)

>

> Chuck

>

Subject: Re: dj about your idea

Posted by [DJ](#) on Sat, 28 Oct 2006 19:21:36 GMT

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I'm going to try this until Chuck gets his new ASIO beast built.

;o)

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

>

>DJ,

>What I suggest.

>1)One pc with Paris cards only and the mecs with adat channels.

>

>2)One pc with three pulsar card and many adat /spdif connections.

>

>3) One pc with UAD1 cards only.

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>Now the fun part:

>On pc number 2 (pulsar) you occupy 16 adat channels (or even 24, one adat
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>When everything will be templated it will be damn easy to work with.

>You will get the picture when you will have and work with your pulsars.

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>Regards,

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>"DJ" <notachance@net.net> wrote:

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>>equivalent to UAD FX...not exactly the same, I wouldn't expect that, but
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>>;o)

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>>"Dimitrios" <musurgio@otenet.gr> wrote in message news:4542603b\$1@linux...

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Subject: Re: dj about your idea
Posted by [Aaron Allen](#) on Sun, 29 Oct 2006 01:29:33 GMT
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For native guys, this would work but as time and tech progresses Paris will

get (big surprise) further and further behind this way, biggest problem being the CPU. Once you can no longer buy a single core CPU things are gonna be ugly for Paris users, and we're almost there now.

Is there any way to code in a TCP (network/IEEE1394) stack to offload to a separate or bank of machines?

AA

"chuck duffy" <c@c.com> wrote in message news:45435ee3\$1@linux...

>
> It would work by shuttling samples in and out of a piece of shared memory
> on a single machine. It would not be networked, or require hardware of
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>>>>>

optical I/O, only ADAT so I haven't hooked them up to the Paris MECs yet. I don't have a registration key for my other on yet so I can't use it, plus the sync cable that connects the two cards didn't come today. The routing options for Pulsar are amazing to behold and they actually make sense!!!Very much like Paris in some ways, but maybe more flexible from what I can see right now. Compared to Totalmix, there is no comparison (IMHO). I'll be getting this going with some Paris tracks tomorrow and let you know what I think about it. I'm curious to know how the delay compensator plugins works (and where it is.....I couldn't find it).

;o)

Deej

"Dimitrios" <musurgio@otenet.gr> wrote in message news:45435081\$1@linux...

>
> DJ,
> What I suggest.
> 1)One pc with Paris cards only and the mecs with adat channels.
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Subject: Re: dj about your idea
Posted by [Dimitrios](#) on Sun, 29 Oct 2006 11:59:42 GMT
[View Forum Message](#) <> [Reply to Message](#)

Dear DJ,
Nice to know you are on Pulsar boat !
Goodit sounds familiar in a way...
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There is a free device found under devices in planetz which is called millidelay.
This lets you delay audio tracks by samples !
No 80 samples minimum shit here, just simple sample by sample delay.
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Subject: Re: dj about your idea
Posted by [animix](#) on Sun, 29 Oct 2006 15:38:25 GMT
[View Forum Message](#) <> [Reply to Message](#)

Thanks Dimitrios,

this sounds simple.....simple is good.....(did I really say that?)

;o)

"Dimitrios" <musurgio@otenet.gr> wrote in message [news:4544899e\\$1@linux...](news:4544899e$1@linux...)

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> >> >ASIO
> >> >> >>> driver,
> >> >> >>> > >for Paris, I don't see this happening. To tell you the truth,
> I
> >> >haven't
> >> >> >>> > used
> >> >> >>> > >the Paris ASIO driver in years. I wonder if it would work
with
> >> a
> >> >VST
> >> >> >>>host
> >> >> >>> > >like Forte or Chainer? I do remember some latency with this
> >driver,
> >> >> >but
> >> >> >>> > it's
> >> >> >>> > >been a long time. Anyway, as far as third party uses for the
> >VST

> >> >> host
> >> >> >>> you
> >> >> >>> > >are proposing in #1I honestly don't know
unless
> >> >they
> >> >> >>>were
> >> >> >>> > >wanting to stream from a DAW with no latency compensation to
> a
> >> >digital
> >> >> >>> > >mixer. I don't think there are any DAWs, other than Paris
left
> >> on
> >> >> earth
> >> >> >>> > that
> >> >> >>> > >don't have latency compensation.
> >> >> >>> > >
> >> >> >>> > >If you decide you want to do this, I will support your
efforts
> >> >100%.
> >> >> >>> > >
> >> >> >>> > >Thanks,
> >> >> >>> > >
> >> >> >>> > >DJ
> >> >> >>> > >
> >> >> >>> > >"chuck duffy" <c@c.com> wrote in message
> >news:454206a9\$1@linux...
> >> >> >>> > >>
> >> >> >>> > >> Hi DJ,
> >> >> >>> > >>
> >> >> >>> > >> I guess what we are talking about is two things:
> >> >> >>> > >>
> >> >> >>> > >> 1. An ASIO host application with let's say 64 ins and 64
outs.
> >> >> This
> >> >> >>> app
> >> >> >>> > >> would also be a VST host application that would let you
insert
> >> >plugins
> >> >> >>>on
> >> >> >>> > >each
> >> >> >>> > >> of the 64 ins. It would add up the total latency on each
> >input,
> >> >> >>>buffer
> >> >> >>> > >the
> >> >> >>> > >> output to some consistent user entered amount, and send it
> out
> >> >the
> >> >> >>> output.

