

---

Subject: DJ and people with complex setups  
Posted by [gene lennon](#) on Sun, 15 Jul 2007 15:09:24 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

TC - Digital Konnekt x32  
Digital router, sample rate converter and Firewire interface with a few tricks.

<http://www.tcelectronic.com/Default.asp?ld=11321>

Price?

Gene

---

---

Subject: Re: DJ and people with complex setups  
Posted by [DJ](#) on Sun, 15 Jul 2007 15:32:15 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Is it possible to daisy chain two of these?

;o)

"Gene Lennon" <[glennon@NOSPmyrealbox.com](mailto:glennon@NOSPmyrealbox.com)> wrote in message  
news:469a38a4@linux...

>

>

> TC - Digital Konnekt x32

> Digital router, sample rate converter and Firewire interface with a few  
> tricks.

>

> <http://www.tcelectronic.com/Default.asp?ld=11321>

>

> Price?

>

> Gene

>

---

---

Subject: Re: DJ and people with complex setups  
Posted by [gene lennon](#) on Sun, 15 Jul 2007 16:16:03 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Gene

"DJ" <[animix\\_\\_at\\_\\_animas\\_\\_dot\\_\\_net](mailto:animix__at__animas__dot__net)> wrote:  
>Is it possible to daisy chain two of these?

>  
>;o)  
>  
>"Gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message  
>news:469a38a4@linux...  
>>  
>>  
>> TC - Digital Konnekt x32  
>> Digital router, sample rate converter and Firewire interface with a few  
  
>> tricks.  
>>  
>> <http://www.tcelectronic.com/Default.asp?ld=11321>  
>>  
>> Price?  
>>  
>> Gene  
>>  
>  
>

---

---

Subject: Re: DJ and people with complex setups  
Posted by [Dedric Terry](#) on Sun, 15 Jul 2007 16:41:54 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Since you can daisy chain the Konnekt interfaces via TCNear networking, and this one has it as well, I would guess Konnekt 32 can as well, but the I would wonder whether the firewire port can handle more than 16 in and out at the same time.

Dedric

On 7/15/07 10:16 AM, in article 469a4843\$1@linux, "Gene Lennon" <glennon@NOSPmyrealbox.com> wrote:

>  
> Gene  
>  
> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:  
>> Is it possible to daisy chain two of these?  
>>  
>> ;o)  
>>  
>> "Gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message  
>> news:469a38a4@linux...  
>>>

>>>  
>>> TC - Digital Konnekt x32  
>>> Digital router, sample rate converter and Firewire interface with a few  
>  
>>> tricks.  
>>>  
>>> <http://www.tcelectronic.com/Default.asp?Id=11321>  
>>>  
>>> Price?  
>>>  
>>> Gene  
>>>  
>>  
>>  
>

---

---

Subject: Re: DJ and people with complex setups  
Posted by [DJ](#) on Sun, 15 Jul 2007 17:09:41 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

If the driver will support two + units, it might be a monster with a dedicated 4 x port FW PCIe card, especially if you can further merge/interpatch within the software control panel. I'd probably look pretty hard at this if the price was right. I'm currently doing pretty much what this will do using 4 x Behringer SRC 2496 units along with an RME ADI4-DD for real time SRC for two of my outboard reverbs and interpatching various other I/O through a Frontier Apache and M-Audio C03 units to connect the other digital processors, SMUX I/O of my converters and the I/O of my slave computer with the free I/O of the master computer. It's a daunting scenario. I have written an I/O sheet (small manual) for this that I have memorized and the faceplates of the gear are all labelled as well. Same thing with all of the midi I/O I have here. There's a lot of it and it is interpatched through an Ensoniq KMX-16. This is only about half as insane as things were when I was integrating Paris with the Cubase DAW. I watched the entire video demo and this looks like they were reading my mind.....which may be why they stopped before it got too complex and twisted....but there is no midi I/O on this interface, is there? Didn't see any. That may be a show stopper. Does anyone make a decent (large) midi interface now that Steinberg discontinued the Midex?

;o)

"Dedric Terry" <[dterry@keyofd.net](mailto:dterry@keyofd.net)> wrote in message  
<news:C2BFAA72.B6CD%dterry@keyofd.net...>

> Since you can daisy chain the Konnekt interfaces via TCNear networking,  
> and

> this one has it as well, I would guess Konnekt 32 can as well, but the I  
> would wonder whether the firewire port can handle more than 16 in and out  
> at  
> the same time.  
>  
> Detric  
>  
> On 7/15/07 10:16 AM, in article 469a4843\$1@linux, "Gene Lennon"  
> <glennon@NOSPmyrealbox.com> wrote:  
>  
>>  
>> Funny, that's the first question I had. That and price.  
>> Gene  
>>  
>> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:  
>>> Is it possible to daisy chain two of these?  
>>>  
>>> ;o)  
>>>  
>>> "Gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message  
>>> news:469a38a4@linux...  
>>>>  
>>>>  
>>>> TC - Digital Konnekt x32  
>>>> Digital router, sample rate converter and Firewire interface with a few  
>>  
>>>> tricks.  
>>>>  
>>>> <http://www.tcelectronic.com/Default.asp?Id=11321>  
>>>>  
>>>> Price?  
>>>>  
>>>> Gene  
>>>>  
>>>  
>>>  
>>  
>

---

Subject: Re: DJ and people with complex setups  
Posted by [gene lennon](#) on Sun, 15 Jul 2007 17:28:19 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

On a Mac you can aggregate PCI(e) and Firewire interfaces to build one large I/O system. Is this possible under XP?

Gene

"DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:  
>If the driver will suport two + units, it might be a monster with a  
>dedicated 4 x port FW PCIe card, especially if you can further  
>merge/interpatch within the software control panel. I'd probably look pretty  
  
>hard at this if the price was right. I'm currently doing pretty much what  
  
>this will do using 4 x Behringer SRC 2496 units along with an RME ADI4-DD  
  
>for real time SRC for two of my outboard reverbs and interpatching various  
  
>other I/O through a Frontier Apache and M-Audio C03 units to connect the  
  
>other digital processors, SMUX I/O of my converters and the I/O of my slave  
  
>computer with the free I/O of the master computer. It's a daunting scenario.  
  
>I have written an I/O sheet (small manual) for this that I have memorized  
  
>and the faceplates of the gear are all labelled as well. Same thing with  
all  
>of the midi I/O I have here. There's a lot of it and it is interpatched  
  
>through an Ensoniq KMX-16. This is only about half as insane as things  
were  
>when I was integrating Paris with the Cubase DAW. I watched the entire video  
  
>demo and this looks like they were reading my mind.....which may be why  
they  
>stopped before it got too complex and twisted....but there is no midi I/O  
on  
>this interface, is there? Didn't see any. That may be a show stopper. Does  
  
>anyone make a decent (large) midi interface now that Steinberg discontinued  
  
>the Midex?  
>  
>;o)  
>  
>  
>"Dedric Terry" <dterry@keyofd.net> wrote in message  
>news:C2BFAA72.B6CD%dterry@keyofd.net...  
>> Since you can daisy chain the Konnekt interfaces via TCNear networking,  
  
>> and  
>> this one has it as well, I would guess Konnekt 32 can as well, but the  
I

>> would wonder whether the firewire port can handle more than 16 in and out  
>> at  
>> the same time.  
>>  
>> Dedic  
>>  
>> On 7/15/07 10:16 AM, in article 469a4843\$1@linux, "Gene Lennon"  
>> <glennon@NOSPmyrealbox.com> wrote:  
>>  
>>>  
>>> Funny, that's the first question I had. That and price.  
>>> Gene  
>>>  
>>> "DJ" <animix\_ at \_ animas \_ dot \_ net> wrote:  
>>>> Is it possible to daisy chain two of these?  
>>>>  
>>>> ;o)  
>>>>  
>>>> "Gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message  
>>>> news:469a38a4@linux...  
>>>>>  
>>>>>  
>>>>> TC - Digital Konnekt x32  
>>>>> Digital router, sample rate converter and Firewire interface with a  
few  
>>>  
>>>>> tricks.  
>>>>>  
>>>>> <http://www.tcelectronic.com/Default.asp?Id=11321>  
>>>>>  
>>>>> Price?  
>>>>>  
>>>>> Gene  
>>>>>  
>>>>  
>>>>  
>>>>  
>>>  
>>  
>  
>

---

Subject: Re: DJ and people with complex setups  
Posted by [excelav](#) on Sun, 15 Jul 2007 18:36:01 GMT  
[View Forum Message](#) <> [Reply to Message](#)

Vary cool product. It's too bad it's not 32x32. I'll bet the price will

be painful, but I hope not. Anybody know what the price is?

"Gene Lennon" <glennon@NOSPmyrealbox.com> wrote:

>  
>  
>TC - Digital Konnekt x32  
>Digital router, sample rate converter and Firewire interface with a few  
tricks.  
>  
><http://www.tcelectronic.com/Default.asp?Id=11321>  
>  
>Price?  
>  
>Gene  
>

---

---

Subject: Re: DJ and people with complex setups  
Posted by [DJ](#) on Sun, 15 Jul 2007 19:34:51 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

You are, of course, just mentioning this to twist the knife.....right?

(actually, there is a Win driver called ASIO4all that is supposed to accomplish this. Last I heard, it sucked big time.

;o)

"Gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message  
news:469a5933@linux...

>  
> On a Mac you can aggregate PCI(e) and Firewire interfaces to build one  
> large  
> I/O system. Is this possible under XP?  
>  
> Gene  
>  
> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:  
>>If the driver will suport two + units, it might be a monster with a  
>>dedicated 4 x port FW PCIe card, especially if you can further  
>>merge/interpatch within the software control panel. I'd probably look  
>>pretty  
>  
>>hard at this if the price was right. I'm currently doing pretty much what  
>  
>>this will do using 4 x Behringer SRC 2496 units along with an RME ADI4-DD  
>  
>>for real time SRC for two of my outboard reverbs and interpatching various

>  
>>other I/O through a Frontier Apache and M-Audio C03 units to connect the  
>  
>>other digital processors, SMUX I/O of my converters and the I/O of my  
>>slave  
>  
>>computer with the free I/O of the master computer. It's a daunting  
>>scenario.  
>  
>>I have written an I/O sheet (small manual) for this that I have memorized  
>  
>>and the faceplates of the gear are all labelled as well. Same thing with  
> all  
>>of the midi I/O I have here. There's a lot of it and it is interpatched  
>  
>>through an Ensoniq KMX-16. This is only about half as insane as things  
> were  
>>when I was integrating Paris with the Cubase DAW. I watched the entire  
>>video  
>  
>>demo and this looks like they were reading my mind.....which may be why  
> they  
>>stopped before it got too complex and twisted....but there is no midi I/O  
> on  
>>this interface, is there? Didn't see any. That may be a show stopper. Does  
>  
>>anyone make a decent (large) midi interface now that Steinberg  
>>discontinued  
>  
>>the Midex?  
>>  
>>;o)  
>>  
>>  
>>"Dedric Terry" <dterry@keyofd.net> wrote in message  
>>news:C2BFAA72.B6CD%dterry@keyofd.net...  
>>> Since you can daisy chain the Konnekt interfaces via TCNear networking,  
>  
>>> and  
>>> this one has it as well, I would guess Konnekt 32 can as well, but the  
> I  
>>> would wonder whether the firewire port can handle more than 16 in and  
> out  
>>> at  
>>> the same time.  
>>>  
>>> Dedric  
>>>





> G  
>  
> "James McCloskey" <excelsm@hotmail.com> wrote:  
>>  
>>Vary cool product. It's too bad it's not 32x32. I'll bet the price will  
>>be painful, but I hope not. Anybody know what the price is?  
>>  
>>"Gene Lennon" <glennon@NOSPmyrealbox.com> wrote:  
>>>  
>>>  
>>>TC - Digital Konnekt x32  
>>>Digital router, sample rate converter and Firewire interface with a few  
>>tricks.  
>>>  
>>><http://www.tcelectronic.com/Default.asp?Id=11321>  
>>>  
>>>Price?  
>>>  
>>>Gene  
>>>  
>>  
>

---

---

Subject: Re: DJ and people with complex setups  
Posted by [gene lennon](#) on Sun, 15 Jul 2007 19:38:58 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

G  
  
"James McCloskey" <excelsm@hotmail.com> wrote:  
>  
>Vary cool product. It's too bad it's not 32x32. I'll bet the price will  
>be painful, but I hope not. Anybody know what the price is?  
>  
>"Gene Lennon" <glennon@NOSPmyrealbox.com> wrote:  
>>  
>>  
>>TC - Digital Konnekt x32  
>>Digital router, sample rate converter and Firewire interface with a few  
>tricks.  
>>  
>><http://www.tcelectronic.com/Default.asp?Id=11321>  
>>  
>>Price?  
>>  
>>Gene

>>  
>

---

Subject: Re: DJ and people with complex setups  
Posted by [Dedric Terry](#) on Sun, 15 Jul 2007 21:59:20 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

On 7/15/07 11:28 AM, in article 469a5933@linux, "Gene Lennon"  
<glennon@NOSPmyrealbox.com> wrote:

>  
> On a Mac you can aggregate PCI(e) and Firewire interfaces to build one large  
> I/O system. Is this possible under XP?  
>  
> Gene

Mixed manufacturers? What kind of latency are you getting with sample  
library VSTi's and mixed firewire/PCIe?

My Fireface 800 doesn't have the low latency of the PCI HDSP system, so I'm  
curious if when mixing the two, latency is subject to the limitation of the  
firewire interface, or if the Mac/Core audio manages it better than XP  
might.

With XP/PC you can add interfaces from one manufacturer, but I doubt  
Firewire and PCIe would be elegant - the only time I tried it the Firewire  
interface was only connected for access to its' control panel - only the PCI  
interface handled direct I/O.

I also agree with James on the Konnekt - 32x32 would be much more attractive  
if used as an interface and not just a converter/patchbay, but I fear that's  
a firewire limitation.

Dedric

>  
> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:  
>> If the driver will suport two + units, it might be a monster with a  
>> dedicated 4 x port FW PCIe card, especially if you can further  
>> merge/interpatch within the software control panel. I'd probably look pretty  
>  
>> hard at this if the price was right. I'm currently doing pretty much what  
>  
>> this will do using 4 x Behringer SRC 2496 units along with an RME ADI4-DD  
>  
>> for real time SRC for two of my outboard reverbs and interpatching various  
>

>> other I/O through a Frontier Apache and M-Audio C03 units to connect the  
>  
>> other digital processors, SMUX I/O of my converters and the I/O of my slave  
>  
>> computer with the free I/O of the master computer. It's a daunting scenario.  
>  
>> I have written an I/O sheet (small manual) for this that I have memorized  
>  
>> and the faceplates of the gear are all labelled as well. Same thing with  
> all  
>> of the midi I/O I have here. There's a lot of it and it is interpatched  
>  
>> through an Ensoniq KMX-16. This is only about half as insane as things  
> were  
>> when I was integrating Paris with the Cubase DAW. I watched the entire video  
>  
>> demo and this looks like they were reading my mind.....which may be why  
> they  
>> stopped before it got too complex and twisted....but there is no midi I/O  
> on  
>> this interface, is there? Didn't see any. That may be a show stopper. Does  
>  
>> anyone make a decent (large) midi interface now that Steinberg discontinued  
>  
>> the Midex?  
>>  
>> ;o)  
>>  
>>  
>> "Dedric Terry" <dterry@keyofd.net> wrote in message  
>> news:C2BFAA72.B6CD%dterry@keyofd.net...  
>>> Since you can daisy chain the Konnekt interfaces via TCNear networking,  
>  
>>> and  
>>> this one has it as well, I would guess Konnekt 32 can as well, but the  
> I  
>>> would wonder whether the firewire port can handle more than 16 in and  
> out  
>>> at  
>>> the same time.  
>>>  
>>> Dedric  
>>>  
>>> On 7/15/07 10:16 AM, in article 469a4843\$1@linux, "Gene Lennon"  
>>> <glennon@NOSPmyrealbox.com> wrote:  
>>>  
>>>>  
>>>> Funny, that's the first question I had. That and price.

>>>> Gene  
>>>>  
>>>> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:  
>>>>> Is it possible to daisy chain two of these?  
>>>>>  
>>>>> ;o)  
>>>>>  
>>>>> "Gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message  
>>>>> news:469a38a4@linux...  
>>>>>>  
>>>>>>  
>>>>>> TC - Digital Konnekt x32  
>>>>>> Digital router, sample rate converter and Firewire interface with a  
> few  
>>>>  
>>>>>> tricks.  
>>>>>>  
>>>>>> http://www.tcelectronic.com/Default.asp?Id=11321  
>>>>>>  
>>>>>> Price?  
>>>>>>  
>>>>>> Gene  
>>>>>>  
>>>>>  
>>>>>  
>>>>  
>>>  
>>  
>>  
>

---

---

Subject: Re: DJ and people with complex setups  
Posted by [Bill L](#) on Sun, 15 Jul 2007 23:28:24 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

I know it's TC and and all, but that's not what I call good value.

DJ wrote:

> OK, so for \$2000.00 I can get an interface with no midi ports.....right?  
>  
>  
> "Gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message  
> news:469a77d2\$1@linux...

>> G

>>

>> "James McCloskey" <excelsm@hotmail.com> wrote:

>>> Vary cool product. It's too bad it's not 32x32. I'll bet the price will  
>>> be painful, but I hope not. Anybody know what the price is?  
>>>  
>>> "Gene Lennon" <glennon@NOSPmyrealbox.com> wrote:  
>>>>  
>>>> TC - Digital Konnekt x32  
>>>> Digital router, sample rate converter and Firewire interface with a few  
>>> tricks.  
>>>> <http://www.tcelectronic.com/Default.asp?Id=11321>  
>>>>  
>>>> Price?  
>>>>  
>>>> Gene  
>>>>  
>  
>

---

---

Subject: Re: DJ and people with complex setups  
Posted by [excelav](#) on Sun, 15 Jul 2007 23:35:26 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Dedric Terry <dterry@keyofd.net> wrote:  
>On 7/15/07 11:28 AM, in article 469a5933@linux, "Gene Lennon"  
><glennon@NOSPmyrealbox.com> wrote:  
>  
>>  
>> On a Mac you can aggregate PCI(e) and Firewire interfaces to build one  
>> large  
>> I/O system. Is this possible under XP?  
>>  
>> Gene  
>  
>Mixed manufacturers? What kind of latency are you getting with sample  
>library VSTi's and mixed firewire/PCIe?  
>  
>My Fireface 800 doesn't have the low latency of the PCI HDSP system, so  
>I'm  
>curious if when mixing the two, latency is subject to the limitation of  
>the  
>firewire interface, or if the Mac/Core audio manages it better than XP  
>might.  
>  
>With XP/PC you can add interfaces from one manufacturer, but I doubt  
>Firewire and PCIe would be elegant - the only time I tried it the Firewire  
>interface was only connected for access to its' control panel - only the  
>PCI  
>interface handled direct I/O.

>  
>I also agree with James on the Konnekt - 32x32 would be much more attractive  
>if used as an interface and not just a converter/patchbay, but I fear that's  
>a firewire limitation.  
>  
>Dedric  
>

I don't think it's FW, the Pro Fire Light bridge will do 34x36.  
[http://www.m-audio.com/products/en\\_us/ProFireLightbridge-main.html](http://www.m-audio.com/products/en_us/ProFireLightbridge-main.html)

>>  
>> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:  
>>> If the driver will support two + units, it might be a monster with a  
>>> dedicated 4 x port FW PCIe card, especially if you can further  
>>> merge/interpatch within the software control panel. I'd probably look  
pretty  
>>  
>>> hard at this if the price was right. I'm currently doing pretty much  
what  
>>  
>>> this will do using 4 x Behringer SRC 2496 units along with an RME ADI4-DD  
>>  
>>> for real time SRC for two of my outboard reverbs and interpatching various  
>>  
>>> other I/O through a Frontier Apache and M-Audio C03 units to connect  
the  
>>  
>>> other digital processors, SMUX I/O of my converters and the I/O of my  
slave  
>>  
>>> computer with the free I/O of the master computer. It's a daunting scenario.  
>>  
>>> I have written an I/O sheet (small manual) for this that I have memorized  
>>  
>>> and the faceplates of the gear are all labelled as well. Same thing with  
>> all  
>>> of the midi I/O I have here. There's a lot of it and it is interpatched  
>>  
>>> through an Ensoniq KMX-16. This is only about half as insane as things  
>> were  
>>> when I was integrating Paris with the Cubase DAW. I watched the entire  
video  
>>  
>>> demo and this looks like they were reading my mind.....which may be why  
>> they  
>>> stopped before it got too complex and twisted....but there is no midi  
I/O

>> on  
>>> this interface, is there? Didn't see any. That may be a show stopper.  
Does  
>>  
>>> anyone make a decent (large) midi interface now that Steinberg discontinued  
>>  
>>> the Midex?  
>>>  
>>> ;o)  
>>>  
>>>  
>>> "Dedric Terry" <dterry@keyofd.net> wrote in message  
>>> news:C2BFAA72.B6CD%dterry@keyofd.net...  
>>>> Since you can daisy chain the Konnekt interfaces via TCNear networking,  
>>  
>>>> and  
>>>> this one has it as well, I would guess Konnekt 32 can as well, but the  
>> I  
>>>> would wonder whether the firewire port can handle more than 16 in and  
>> out  
>>>> at  
>>>> the same time.  
>>>>  
>>>> Dedric  
>>>>  
>>>> On 7/15/07 10:16 AM, in article 469a4843\$1@linux, "Gene Lennon"  
>>>> <glennon@NOSPmyrealbox.com> wrote:  
>>>>  
>>>>>  
>>>>> Funny, that's the first question I had. That and price.  
>>>>> Gene  
>>>>>  
>>>>> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:  
>>>>>> Is it possible to daisy chain two of these?  
>>>>>>  
>>>>>> ;o)  
>>>>>>  
>>>>>> "Gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message  
>>>>>> news:469a38a4@linux...  
>>>>>>>  
>>>>>>>  
>>>>>>>> TC - Digital Konnekt x32  
>>>>>>>> Digital router, sample rate converter and Firewire interface with  
a  
>> few  
>>>>>  
>>>>>>> tricks.  
>>>>>>>>



>>>>>> http://www.tcelectronic.com/Default.asp?Id=11321

>>>>>>

>>>>>> Price?

>>>>>>

>>>>>> Gene

>>>>>>

>>>>>>

>>>>>>

>>>>>

>>>>

>>>

>>>

>>

>

---

Subject: Re: DJ and people with complex setups  
Posted by [Dedric Terry](#) on Sun, 15 Jul 2007 23:52:23 GMT

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

---

----- Original Message -----

From: "James McCloskey" <excelsm@hotmail.com>

Newsgroups: IDEA.EMUEnsoniqPARIS

Sent: Sunday, July 15, 2007 5:35 PM

Subject: Re: DJ and people with complex setups

>

> I don't think it's FW, the Pro Fire Light bridge will do 34x36.

> [http://www.m-audio.com/products/en\\_us/ProFireLightbridge-main.html](http://www.m-audio.com/products/en_us/ProFireLightbridge-main.html)

Hi James - Any experiences with this unit to report (drivers, latency, integration with PCI audio cards)? M-Audio never had a great rep for drivers and quality, but I know Lamont gave it a thumbs up, so it seems worth considering. I could use an extra 4 lightpipe ports. I've been reluctant to put as much weight on firewire as PCI/PCle so far, but would like to be able to implement something like this.

Regards,  
Dedric

>

>>>

>>> "DJ" <animix\_ \_ at \_ animas \_ dot \_ net> wrote:

>>>> If the driver will suport two + units, it might be a monster with a

>>>> dedicated 4 x port FW PCle card, especially if you can further

>>>> merge/interpatch within the software control panel. I'd probably look

> pretty

>>>

>>>> hard at this if the price was right. I'm currently doing pretty much

> what  
>>>  
>>>> this will do using 4 x Behringer SRC 2496 units along with an RME  
>>>> ADI4-DD  
>>>  
>>>> for real time SRC for two of my outboard reverbs and interpatching  
>>>> various  
>>>  
>>>> other I/O through a Frontier Apache and M-Audio C03 units to connect  
> the  
>>>  
>>>> other digital processors, SMUX I/O of my converters and the I/O of my  
> slave  
>>>  
>>>> computer with the free I/O of the master computer. It's a daunting  
>>>> scenario.  
>>>  
>>>> I have written an I/O sheet (small manual) for this that I have  
>>>> memorized  
>>>  
>>>> and the faceplates of the gear are all labelled as well. Same thing  
>>>> with  
>>> all  
>>>> of the midi I/O I have here. There's a lot of it and it is interpatched  
>>>  
>>>> through an Ensoniq KMX-16. This is only about half as insane as things  
>>> were  
>>>> when I was integrating Paris with the Cubase DAW. I watched the entire  
> video  
>>>  
>>>> demo and this looks like they were reading my mind.....which may be why  
>>> they  
>>>> stopped before it got too complex and twisted....but there is no midi  
> I/O  
>>> on  
>>>> this interface, is there? Didn't see any. That may be a show stopper.  
> Does  
>>>  
>>>> anyone make a decent (large) midi interface now that Steinberg  
>>>> discontinued  
>>>  
>>>> the Midex?  
>>>>  
>>>> ;o)  
>>>>  
>>>>  
>>>> "Dedric Terry" <dterry@keyofd.net> wrote in message  
>>>> news:C2BFAA72.B6CD%dterry@keyofd.net...

>>>> Since you can daisy chain the Konnekt interfaces via TCNear  
>>>> networking,  
>>>  
>>>> and  
>>>> this one has it as well, I would guess Konnekt 32 can as well, but the  
>>> I  
>>>> would wonder whether the firewire port can handle more than 16 in and  
>>> out  
>>>> at  
>>>> the same time.  
>>>>  
>>>> Dedic  
>>>>  
>>>> On 7/15/07 10:16 AM, in article 469a4843\$1@linux, "Gene Lennon"  
>>>> <glennon@NOSPmyrealbox.com> wrote:  
>>>>  
>>>>>  
>>>>> Funny, that's the first question I had. That and price.  
>>>>> Gene  
>>>>>  
>>>>> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:  
>>>>>> Is it possible to daisy chain two of these?  
>>>>>>  
>>>>>> ;o)  
>>>>>>  
>>>>>> "Gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message  
>>>>>> news:469a38a4@linux...  
>>>>>>  
>>>>>>  
>>>>>>> TC - Digital Konnekt x32  
>>>>>>> Digital router, sample rate converter and Firewire interface with  
> a  
>>> few  
>>>>>  
>>>>>>> tricks.  
>>>>>>>  
>>>>>>> <http://www.tcelectronic.com/Default.asp?Id=11321>  
>>>>>>>  
>>>>>>> Price?  
>>>>>>>  
>>>>>>> Gene  
>>>>>>>  
>>>>>>>  
>>>>>>>  
>>>>>>>  
>>>>>  
>>>>  
>>>>

>>>  
>>  
>

---

Subject: Re: DJ and people with complex setups  
Posted by [gene lennon](#) on Mon, 16 Jul 2007 00:11:26 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Actually, I am considering building a PC for mixing.  
I have become quite enamored with Nebula3, and although I could route to  
mix setup.

the TC box for I/O to my 6000 and a few other tricks I would like it to do,  
right?

I guess this is not the right place to ask if Cubase is the right choice  
used Nuendo for several mixes and it always gave good, if not great results.

Gene

"DJ" <[animix \\_ at \\_ animas \\_ dot \\_ net](#)> wrote:

>You are, of course, just mentioning this to twist the knife.....right?

>

>(actually, there is a Win driver called ASIO4all that is supposed to  
>accomplish this. Last I heard, it sucked big time.

>

>;o)

>

>"Gene Lennon" <[glennon@NOSPmyrealbox.com](#)> wrote in message  
>[news:469a5933@linux...](#)

>>

>> On a Mac you can aggregate PCI(e) and Firewire interfaces to build one

>> large

>> I/O system. Is this possible under XP?

>>

>> Gene

>>

>> "DJ" <[animix \\_ at \\_ animas \\_ dot \\_ net](#)> wrote:

>>>If the driver will suport two + units, it might be a monster with a

>>>dedicated 4 x port FW PCIe card, especially if you can further

>>>merge/interpatch within the software control panel. I'd probably look

>>>pretty

>>  
>>>hard at this if the price was right. I'm currently doing pretty much what  
>>  
>>>this will do using 4 x Behringer SRC 2496 units along with an RME ADI4-DD  
>>  
>>>for real time SRC for two of my outboard reverbs and interpatching various  
>>  
>>>other I/O through a Frontier Apache and M-Audio C03 units to connect the  
>>  
>>>other digital processors, SMUX I/O of my converters and the I/O of my  
  
>>>slave  
>>  
>>>computer with the free I/O of the master computer. It's a daunting  
>>>scenario.  
>>  
>>>I have written an I/O sheet (small manual) for this that I have memorized  
>>  
>>>and the faceplates of the gear are all labelled as well. Same thing with  
>> all  
>>>of the midi I/O I have here. There's a lot of it and it is interpatched  
>>  
>>>through an Ensoniq KMX-16. This is only about half as insane as things  
>> were  
>>>when I was integrating Paris with the Cubase DAW. I watched the entire  
  
>>>video  
>>  
>>>demo and this looks like they were reading my mind.....which may be why  
>> they  
>>>stopped before it got too complex and twisted....but there is no midi  
I/O  
>> on  
>>>this interface, is there? Didn't see any. That may be a show stopper.  
Does  
>>  
>>>anyone make a decent (large) midi interface now that Steinberg  
>>>discontinued  
>>  
>>>the Midex?  
>>>  
>>>;o)  
>>>  
>>>  
>>>"Dedric Terry" <dterry@keyofd.net> wrote in message  
>>>news:C2BFAA72.B6CD%dterry@keyofd.net...  
>>>> Since you can daisy chain the Konnekt interfaces via TCNear networking,  
>>

>>>> and  
>>>> this one has it as well, I would guess Konnekt 32 can as well, but the  
>> I  
>>>> would wonder whether the firewire port can handle more than 16 in and  
>> out  
>>>> at  
>>>> the same time.  
>>>>  
>>>> Dedric  
>>>>  
>>>> On 7/15/07 10:16 AM, in article 469a4843\$1@linux, "Gene Lennon"  
>>>> <glennon@NOSPmyrealbox.com> wrote:  
>>>>  
>>>>>  
>>>>> Funny, that's the first question I had. That and price.  
>>>>> Gene  
>>>>>  
>>>>> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:  
>>>>>> Is it possible to daisy chain two of these?  
>>>>>>  
>>>>>> ;o)  
>>>>>>  
>>>>>> "Gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message  
>>>>>> news:469a38a4@linux...  
>>>>>>  
>>>>>>  
>>>>>>> TC - Digital Konnekt x32  
>>>>>>> Digital router, sample rate converter and Firewire interface with  
a  
>> few  
>>>>>  
>>>>>>> tricks.  
>>>>>>>  
>>>>>>> <http://www.tcelectronic.com/Default.asp?Id=11321>  
>>>>>>>  
>>>>>>> Price?  
>>>>>>>  
>>>>>>> Gene  
>>>>>>>  
>>>>>>>  
>>>>>>>  
>>>>>  
>>>>  
>>>  
>>>  
>>  
>  
>

---

---

Subject: Re: DJ and people with complex setups  
Posted by [gene lennon](#) on Mon, 16 Jul 2007 00:13:21 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

TC has never been known for great prices.

G

"DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:

>OK, so for \$2000.00 I can get an interface with no midi ports.....right?

>

>

>"Gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message

>news:469a77d2\$1@linux...

>>

>> G

>>

>> "James McCloskey" <excelsm@hotmail.com> wrote:

>>>

>>>Vary cool product. It's too bad it's not 32x32. I'll bet the price will

>>>be painful, but I hope not. Anybody know what the price is?

>>>

>>>"Gene Lennon" <glennon@NOSPmyrealbox.com> wrote:

>>>>

>>>>

>>>>TC - Digital Konnekt x32

>>>>Digital router, sample rate converter and Firewire interface with a few

>>>>tricks.

>>>>

>>>><http://www.tcelectronic.com/Default.asp?Id=11321>

>>>>

>>>>Price?

>>>>

>>>>Gene

>>>>

>>>

>>

>

>

---

Subject: Re: DJ and people with complex setups  
Posted by [excelav](#) on Mon, 16 Jul 2007 00:14:27 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hey Dedic, I have no experience with the Pro Fire Lightbridge. I was following the user reports on gear slutz awhile back. Most reports were good, but

someone didn't like something about the way the monitoring is set up, or some thing. You might want to read up on those threads. Also, early on, some didn't like that there are only 18 I/O available in PT. They may have changed this by now. All other software can utilize all of the I/Os, such as Nuendo, Cubase, etc.

"Dedric Terry" <dterry@keyofd.net> wrote:

>----- Original Message -----

>From: "James McCloskey" <excelsm@hotmail.com>

>Newsgroups: IDEA.EMUEnsoniqPARIS

>Sent: Sunday, July 15, 2007 5:35 PM

>Subject: Re: DJ and people with complex setups

>>

>> I don't think it's FW, the Pro Fire Light bridge will do 34x36.

>> [http://www.m-audio.com/products/en\\_us/ProFireLightbridge-main.html](http://www.m-audio.com/products/en_us/ProFireLightbridge-main.html)

>

>Hi James - Any experiences with this unit to report (drivers, latency, integration with PCI audio cards)? M-Audio never had a great rep for drivers and quality, but I know Lamont gave it a thumbs up, so it seems

>worth considering. I could use an extra 4 lightpipe ports. I've been reluctant to put as much weight on firewire as PCI/PCIe so far, but would

>like to be able to implement something like this.

>

>Regards,

>Dedric

>

>>

>>>>

>>>> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:

>>>>> If the driver will suport two + units, it might be a monster with a

>>>>> dedicated 4 x port FW PCIe card, especially if you can further

>>>>> merge/interpatch within the software control panel. I'd probably look

>> pretty

>>>>

>>>>> hard at this if the price was right. I'm currently doing pretty much

>> what

>>>>

>>>>> this will do using 4 x Behringer SRC 2496 units along with an RME

>>>>> ADI4-DD

>>>>

>>>>> for real time SRC for two of my outboard reverbs and interpatching

>>>>> various

>>>>

>>>>> other I/O through a Frontier Apache and M-Audio C03 units to connect

>> the



>>>>  
>>>>> other digital processors, SMUX I/O of my converters and the I/O of  
my  
>> slave  
>>>>  
>>>>> computer with the free I/O of the master computer. It's a daunting  
  
>>>>> scenario.  
>>>>  
>>>>> I have written an I/O sheet (small manual) for this that I have  
>>>>> memorized  
>>>>  
>>>>> and the faceplates of the gear are all labelled as well. Same thing  
  
>>>>> with  
>>>> all  
>>>>> of the midi I/O I have here. There's a lot of it and it is interpatched  
>>>>  
>>>>> through an Ensoniq KMX-16. This is only about half as insane as things  
>>>> were  
>>>>> when I was integrating Paris with the Cubase DAW. I watched the entire  
>> video  
>>>>  
>>>>> demo and this looks like they were reading my mind.....which may be  
why  
>>>> they  
>>>>> stopped before it got too complex and twisted....but there is no midi  
>> I/O  
>>>> on  
>>>>> this interface, is there? Didn't see any. That may be a show stopper.  
>> Does  
>>>>  
>>>>> anyone make a decent (large) midi interface now that Steinberg  
>>>>> discontinued  
>>>>  
>>>>> the Midex?  
>>>>>  
>>>>> ;o)  
>>>>>  
>>>>>  
>>>>> "Dedric Terry" <dterry@keyofd.net> wrote in message  
>>>>> news:C2BFAA72.B6CD%dterry@keyofd.net...  
>>>>>> Since you can daisy chain the Konnekt interfaces via TCNear  
>>>>>> networking,  
>>>>>  
>>>>>> and  
>>>>>>> this one has it as well, I would guess Konnekt 32 can as well, but  
the



Subject: Re: DJ and people with complex setups  
Posted by [DJ](#) on Mon, 16 Jul 2007 00:16:24 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

I'm starting to get my head around the wierd bugs in Cubase 4 now. Not that I would recommend it for a professional mix platform right now, but it does have some cool features. When I talked to Steinberg tech support last week, they were making "60 days till the big update to Cubase 4.1" noises, but I wouldn't put my eggs in that basket just now. I'm going to give Nuendo 3 a try soon.

One main reason I'm stiking with Steinberg instead of moving to Reaper is because I've got Systemlink pretty well integrated into my situation and I'm liking it.....plus..I'm just sorta' comfortably miserable with C4 right now. It's sorta' like Paris....you never know WTF is gonna' happen next.

;o)

"Gene Lennon" <[glennon@NOSPmyrealbox.com](mailto:glennon@NOSPmyrealbox.com)> wrote in message  
news:469ab7ae\$1@linux...

>

> Actually, I am considering building a PC for mixing.

> I have become quite enamored with Nebula3, and although I could route to

> it using a complex ADAT maze, I want to at least consider a PC - centric

> mix setup.

> If I use my MOTU PCI setup for my primary I/O, I probably can't also

> integrate

> the TC box for I/O to my 6000 and a few other tricks I would like it to

> do,

> right?

>

> I guess this is not the right place to ask if Cubase is the right choice

> for a mix engine. I'm also looking at Reaper (and Nuendo naturally). I

> have

> used Nuendo for several mixes and it always gave good, if not great

> results.

>

> Gene

>

>

> "DJ" <[animix\\_at\\_animas\\_dot\\_net](mailto:animix_at_animas_dot_net)> wrote:

>>You are, of course, just mentioning this to twist the knife.....right?

>>

>>(actually, there is a Win driver called ASIO4all that is supposed to

>>accomplish this. Last I heard, it sucked big time.

>>

>>;o)

>>

>>"Gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message  
>>news:469a5933@linux...  
>>>  
>>> On a Mac you can aggregate PCI(e) and Firewire interfaces to build one  
>  
>>> large  
>>> I/O system. Is this possible under XP?  
>>>  
>>> Gene  
>>>  
>>> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:  
>>>>If the driver will support two + units, it might be a monster with a  
>>>>dedicated 4 x port FW PCIe card, especially if you can further  
>>>>merge/interpatch within the software control panel. I'd probably look  
>  
>>>>pretty  
>>>>  
>>>>hard at this if the price was right. I'm currently doing pretty much  
>>>>what  
>>>>  
>>>>this will do using 4 x Behringer SRC 2496 units along with an RME  
>>>>ADI4-DD  
>>>>  
>>>>for real time SRC for two of my outboard reverbs and interpatching  
>>>>various  
>>>>  
>>>>other I/O through a Frontier Apache and M-Audio C03 units to connect the  
>>>>  
>>>>other digital processors, SMUX I/O of my converters and the I/O of my  
>  
>>>>slave  
>>>>  
>>>>computer with the free I/O of the master computer. It's a daunting  
>>>>scenario.  
>>>>  
>>>>I have written an I/O sheet (small manual) for this that I have  
>>>>memorized  
>>>>  
>>>>and the faceplates of the gear are all labelled as well. Same thing with  
>>>> all  
>>>>of the midi I/O I have here. There's a lot of it and it is interpatched  
>>>>  
>>>>through an Ensoniq KMX-16. This is only about half as insane as things  
>>>> were  
>>>>when I was integrating Paris with the Cubase DAW. I watched the entire  
>  
>>>>video  
>>>>

>>>>demo and this looks like they were reading my mind.....which may be why  
>>> they  
>>>>stopped before it got too complex and twisted....but there is no midi  
> I/O  
>>> on  
>>>>this interface, is there? Didn't see any. That may be a show stopper.  
> Does  
>>>  
>>>>anyone make a decent (large) midi interface now that Steinberg  
>>>>discontinued  
>>>  
>>>>the Midex?  
>>>>  
>>>>;o)  
>>>>  
>>>>  
>>>>"Dedric Terry" <dterry@keyofd.net> wrote in message  
>>>>news:C2BFAA72.B6CD%dterry@keyofd.net...  
>>>>> Since you can daisy chain the Konnekt interfaces via TCNear  
>>>>> networking,  
>>>>  
>>>>> and  
>>>>> this one has it as well, I would guess Konnekt 32 can as well, but the  
>>>> I  
>>>>> would wonder whether the firewire port can handle more than 16 in and  
>>>> out  
>>>>> at  
>>>>> the same time.  
>>>>>  
>>>>> Dedric  
>>>>>  
>>>>> On 7/15/07 10:16 AM, in article 469a4843\$1@linux, "Gene Lennon"  
>>>>> <glennon@NOSPmyrealbox.com> wrote:  
>>>>>  
>>>>>>  
>>>>>> Funny, that's the first question I had. That and price.  
>>>>>> Gene  
>>>>>>  
>>>>>> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:  
>>>>>>> Is it possible to daisy chain two of these?  
>>>>>>>  
>>>>>>> ;o)  
>>>>>>>  
>>>>>>> "Gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message  
>>>>>>> news:469a38a4@linux...  
>>>>>>>  
>>>>>>>  
>>>>>>>> TC - Digital Konnekt x32



>>From: "James McCloskey" <excelsm@hotmail.com>  
>>Newsgroups: IDEA.EMUEnsoniqPARIS  
>>Sent: Sunday, July 15, 2007 5:35 PM  
>>Subject: Re: DJ and people with complex setups  
>>>  
>>> I don't think it's FW, the Pro Fire Light bridge will do 34x36.  
>>> [http://www.m-audio.com/products/en\\_us/ProFireLightbridge-main.html](http://www.m-audio.com/products/en_us/ProFireLightbridge-main.html)  
>>  
>>Hi James - Any experiences with this unit to report (drivers, latency,  
>>integration with PCI audio cards)? M-Audio never had a great rep for  
>>drivers and quality, but I know Lamont gave it a thumbs up, so it seems  
>  
>>worth considering. I could use an extra 4 lightpipe ports. I've been  
>>reluctant to put as much weight on firewire as PCI/PCIe so far, but would  
>  
>>like to be able to implement something like this.  
>>  
>>Regards,  
>>Dedric  
>>  
>>>  
>>>>>  
>>>>> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:  
>>>>> If the driver will support two + units, it might be a monster with a  
>>>>> dedicated 4 x port FW PCIe card, especially if you can further  
>>>>> merge/interpatch within the software control panel. I'd probably look  
>>> pretty  
>>>>>  
>>>>> hard at this if the price was right. I'm currently doing pretty much  
>>> what  
>>>>>  
>>>>> this will do using 4 x Behringer SRC 2496 units along with an RME  
>>>>> ADI4-DD  
>>>>>  
>>>>> for real time SRC for two of my outboard reverbs and interpatching  
>  
>>>>> various  
>>>>>  
>>>>> other I/O through a Frontier Apache and M-Audio C03 units to connect  
>>> the  
>>>>>  
>>>>> other digital processors, SMUX I/O of my converters and the I/O of  
> my  
>>> slave  
>>>>>  
>>>>> computer with the free I/O of the master computer. It's a daunting  
>  
>>>>> scenario.

>>>>> I have written an I/O sheet (small manual) for this that I have  
>>>>> memorized  
>>>>> and the faceplates of the gear are all labelled as well. Same thing  
>  
>>>>> with  
>>>>> all  
>>>>> of the midi I/O I have here. There's a lot of it and it is  
>>>>> interpatched  
>>>>> through an Ensoniq KMX-16. This is only about half as insane as  
>>>>> things  
>>>>> were  
>>>>> when I was integrating Paris with the Cubase DAW. I watched the  
>>>>> entire  
>>> video  
>>>>> demo and this looks like they were reading my mind.....which may be  
> why  
>>>>> they  
>>>>> stopped before it got too complex and twisted....but there is no midi  
>>> I/O  
>>>>> on  
>>>>> this interface, is there? Didn't see any. That may be a show stopper.  
>>> Does  
>>>>> anyone make a decent (large) midi interface now that Steinberg  
>>>>> discontinued  
>>>>> the Midex?  
>>>>> ;o)  
>>>>> "Dedric Terry" <dterry@keyofd.net> wrote in message  
>>>>> news:C2BFAA72.B6CD%dterry@keyofd.net...  
>>>>>> Since you can daisy chain the Konnekt interfaces via TCNear  
>>>>>> networking,  
>>>>>> and  
>>>>>> this one has it as well, I would guess Konnekt 32 can as well, but  
> the  
>>>>> I  
>>>>>> would wonder whether the firewire port can handle more than 16 in  
> and  
>>>>> out  
>>>>>> at





Posted by [Aaron Allen](#) on Mon, 16 Jul 2007 01:06:12 GMT

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

---

I can't remember the name at the moment, but there is a software vendor out there that does build a generic driver that's supposed to unify to one driver set. It takes the latency from the slowest piece of hardware you have in the set. Dang... can't remember the name.

AA

"DJ" <animix \_ at \_ animas \_ dot \_ net> wrote in message  
news:469a783a\$1@linux...

> You are, of course, just mentioning this to twist the knife.....right?

>

> (actually, there is a Win driver called ASIO4all that is supposed to

> accomplish this. Last I heard, it sucked big time.

>

> ;o)

>

> "Gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message

> news:469a5933@linux...

>>

>> On a Mac you can aggregate PCI(e) and Firewire interfaces to build one

>> large

>> I/O system. Is this possible under XP?

>>

>> Gene

>>

>> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:

>>>If the driver will support two + units, it might be a monster with a

>>>dedicated 4 x port FW PCIe card, especially if you can further

>>>merge/interpatch within the software control panel. I'd probably look

>>>pretty

>>

>>>hard at this if the price was right. I'm currently doing pretty much what

>>

>>>this will do using 4 x Behringer SRC 2496 units along with an RME ADI4-DD

>>

>>>for real time SRC for two of my outboard reverbs and interpatching

>>>various

>>

>>>other I/O through a Frontier Apache and M-Audio C03 units to connect the

>>

>>>other digital processors, SMUX I/O of my converters and the I/O of my

>>>slave

>>

>>>computer with the free I/O of the master computer. It's a daunting

>>>scenario.

>>

>>>I have written an I/O sheet (small manual) for this that I have memorized  
>>  
>>>and the faceplates of the gear are all labelled as well. Same thing with  
>> all  
>>>of the midi I/O I have here. There's a lot of it and it is interpatched  
>>  
>>>through an Ensoniq KMX-16. This is only about half as insane as things  
>> were  
>>>when I was integrating Paris with the Cubase DAW. I watched the entire  
>>>video  
>>  
>>>demo and this looks like they were reading my mind.....which may be why  
>> they  
>>>stopped before it got too complex and twisted....but there is no midi I/O  
>> on  
>>>this interface, is there? Didn't see any. That may be a show stopper.  
>>>Does  
>>  
>>>anyone make a decent (large) midi interface now that Steinberg  
>>>discontinued  
>>  
>>>the Midex?  
>>>  
>>>;o)  
>>>  
>>>  
>>>"Dedric Terry" <dterry@keyofd.net> wrote in message  
>>>news:C2BFAA72.B6CD%dterry@keyofd.net...  
>>>> Since you can daisy chain the Konnekt interfaces via TCNear networking,  
>>  
>>>> and  
>>>> this one has it as well, I would guess Konnekt 32 can as well, but the  
>> I  
>>>> would wonder whether the firewire port can handle more than 16 in and  
>> out  
>>>> at  
>>>> the same time.  
>>>>  
>>>> Dedric  
>>>>  
>>>> On 7/15/07 10:16 AM, in article 469a4843\$1@linux, "Gene Lennon"  
>>>> <glennon@NOSPmyrealbox.com> wrote:  
>>>>  
>>>>>  
>>>>> Funny, that's the first question I had. That and price.  
>>>>> Gene  
>>>>>  
>>>>> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:

>>>>> Is it possible to daisy chain two of these?  
>>>>>  
>>>>> ;o)  
>>>>>  
>>>>> "Gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message  
>>>>> news:469a38a4@linux...  
>>>>>  
>>>>>  
>>>>>> TC - Digital Konnekt x32  
>>>>>> Digital router, sample rate converter and Firewire interface with a  
>> few  
>>>>>  
>>>>>> tricks.  
>>>>>>  
>>>>>> http://www.tcelectronic.com/Default.asp?Id=11321  
>>>>>>  
>>>>>> Price?  
>>>>>>  
>>>>>> Gene  
>>>>>>  
>>>>>>  
>>>>>>  
>>>>>  
>>>>  
>>>  
>>>  
>>  
>  
>

---

---

Subject: Re: DJ and people with complex setups  
Posted by [DJ](#) on Mon, 16 Jul 2007 01:08:03 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

"Aaron Allen" <know-spam@not\_here.dude> wrote in message  
news:469ac5dd@linux...  
>I can't remember the name at the moment, but there is a software vendor out  
>there that does build a generic driver that's supposed to unify to one  
>driver set. It takes the latency from the slowest piece of hardware you  
>have in the set. Dang... can't remember the name.  
>  
> AA  
>

Aaron,

I think this is it.

<http://www.asio4all.com/>

---

---

Subject: Re: DJ and people with complex setups  
Posted by [Aaron Allen](#) on Mon, 16 Jul 2007 01:26:57 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

nope,it's not asio4all.....

"DJ" <animix \_ at \_ animas \_ dot \_ net> wrote in message  
news:469ac654@linux...

>

> "Aaron Allen" <know-spam@not\_here.dude> wrote in message

> news:469ac5dd@linux...

>>I can't remember the name at the moment, but there is a software vendor  
>>out there that does build a generic driver that's supposed to unify to one  
>>driver set. It takes the latency from the slowest piece of hardware you  
>>have in the set. Dang... can't remember the name.

>>

>> AA

>>

>

>

> Aaron,

>

> I think this is it.

>

> <http://www.asio4all.com/>

>

---

---

Subject: Re: DJ and people with complex setups  
Posted by [Aaron Allen](#) on Mon, 16 Jul 2007 01:29:55 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

remembered it...

<http://centrance.com/products/ud/>

AA

"Aaron Allen" <know-spam@not\_here.dude> wrote in message  
news:469acaba\$1@linux...

> nope,it's not asio4all.....

>

---

> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote in message  
> news:469ac654@linux...  
>>  
>> "Aaron Allen" <know-spam@not\_here.dude> wrote in message  
>> news:469ac5dd@linux...  
>>>I can't remember the name at the moment, but there is a software vendor  
>>>out there that does build a generic driver that's supposed to unify to  
>>>one driver set. It takes the latency from the slowest piece of hardware  
>>>you have in the set. Dang... can't remember the name.  
>>>  
>>> AA  
>>>  
>>  
>>  
>> Aaron,  
>>  
>> I think this is it.  
>>  
>> <http://www.asio4all.com/>  
>>  
>  
>

---

---

Subject: Re: DJ and people with complex setups  
Posted by [DJ](#) on Mon, 16 Jul 2007 02:01:09 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

This looks really cool. Too bad it doesn't work with RME cards and with the Line6 drivers. That would be a nice integration situation with my particular setup (sigh).

"Aaron Allen" <know-spam@not\_here.dude> wrote in message  
news:469acb6b\$1@linux...  
> remembered it...  
>  
> <http://centrance.com/products/ud/>  
>  
> AA  
>  
> "Aaron Allen" <know-spam@not\_here.dude> wrote in message  
> news:469acaba\$1@linux...  
>> nope,it's not asio4all.....  
>>  
>> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote in message  
>> news:469ac654@linux...  
>>>  
>>> "Aaron Allen" <know-spam@not\_here.dude> wrote in message

>>> news:469ac5dd@linux...  
>>>>I can't remember the name at the moment, but there is a software vendor  
>>>>out there that does build a generic driver that's supposed to unify to  
>>>>one driver set. It takes the latency from the slowest piece of hardware  
>>>>you have in the set. Dang... can't remember the name.  
>>>>  
>>>> AA  
>>>>  
>>>  
>>>  
>>> Aaron,  
>>>  
>>> I think this is it.  
>>>  
>>> <http://www.asio4all.com/>  
>>>  
>>  
>>  
>  
>

---

---

Subject: Re: DJ and people with complex setups  
Posted by [gene lennon](#) on Mon, 16 Jul 2007 02:36:38 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

I have a ProFire Lightbridge. I use it for all kinds of stuff including Pro Tools-M where it does give 34X34 up to 48K, or 18X18 at 96 (PT 7.3.1). It has a headphone out but it only chases SPDIF out. Latency goes down to 256,

it into my main I/O for sends to and from Paris or a V-stack PC. It has no internal direct monitor system or any internal mixing. I have not had any of the clock issues talked about at Gearslutz. It makes PT-M a viable alternative to HD if you are mixing analog and it has been a good purchase for me coming in handy many times. It does work with the Core Audio Aggregation tool along with my MOTU PCIe rig.

Gene

"James McCloskey" <[excelsm@hotmail.com](mailto:excelsm@hotmail.com)> wrote:

>  
>Hey Dedric, I have no experience with the Pro Fire Lightbridge. I was following  
>the user reports on gear slutz awhile back. Most reports were good, but  
>someone didn't like something about the way the monitoring is set up, or  
>some thing. You might want to read up on those threads. Also, early on,  
>some didn't like that there are only 18 I/O available in PT. They may have  
>changed this by now. All other software can utilize all of the I/Os, such

>as Nuendo, Cubase, etc.

>

>"Dedric Terry" <dterry@keyofd.net> wrote:

>>----- Original Message -----

>>From: "James McCloskey" <excelsm@hotmail.com>

>>Newsgroups: IDEA.EMUEnsoniqPARIS

>>Sent: Sunday, July 15, 2007 5:35 PM

>>Subject: Re: DJ and people with complex setups

>>>

>>> I don't think it's FW, the Pro Fire Light bridge will do 34x36.

>>> [http://www.m-audio.com/products/en\\_us/ProFireLightbridge-main.html](http://www.m-audio.com/products/en_us/ProFireLightbridge-main.html)

>>

>>Hi James - Any experiences with this unit to report (drivers, latency,

>>integration with PCI audio cards)? M-Audio never had a great rep for

>>drivers and quality, but I know Lamont gave it a thumbs up, so it seems

>

>>worth considering. I could use an extra 4 lightpipe ports. I've been

>>reluctant to put as much weight on firewire as PCI/PCIe so far, but would

>

>>like to be able to implement something like this.

>>

>>Regards,

>>Dedric

>>

>>>

>>>>

>>>>> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:

>>>>>> If the driver will support two + units, it might be a monster with

a

>>>>>> dedicated 4 x port FW PCIe card, especially if you can further

>>>>>> merge/interpatch within the software control panel. I'd probably look

>>> pretty

>>>>>

>>>>>> hard at this if the price was right. I'm currently doing pretty much

>>> what

>>>>>

>>>>>> this will do using 4 x Behringer SRC 2496 units along with an RME

>>>>>> ADI4-DD

>>>>>>

>>>>>> for real time SRC for two of my outboard reverbs and interpatching

>

>>>>>> various

>>>>>>

>>>>>>> other I/O through a Frontier Apache and M-Audio C03 units to connect

>>> the



>>>>>  
>>>>> other digital processors, SMUX I/O of my converters and the I/O of  
>my  
>>> slave  
>>>>>  
>>>>> computer with the free I/O of the master computer. It's a daunting  
>  
>>>>> scenario.  
>>>>>  
>>>>> I have written an I/O sheet (small manual) for this that I have  
>>>>> memorized  
>>>>>  
>>>>> and the faceplates of the gear are all labelled as well. Same thing  
>  
>>>>> with  
>>>>> all  
>>>>> of the midi I/O I have here. There's a lot of it and it is interpatched  
>>>>>  
>>>>> through an Ensoniq KMX-16. This is only about half as insane as things  
>>>>> were  
>>>>> when I was integrating Paris with the Cubase DAW. I watched the entire  
>>> video  
>>>>>  
>>>>> demo and this looks like they were reading my mind.....which may be  
>why  
>>>>> they  
>>>>> stopped before it got too complex and twisted....but there is no midi  
>>> I/O  
>>>>> on  
>>>>> this interface, is there? Didn't see any. That may be a show stopper.  
>>> Does  
>>>>>  
>>>>> anyone make a decent (large) midi interface now that Steinberg  
>>>>> discontinued  
>>>>>  
>>>>> the Midex?  
>>>>>  
>>>>> ;o)  
>>>>>  
>>>>>  
>>>>> "Dedric Terry" <dterry@keyofd.net> wrote in message  
>>>>> news:C2BFAA72.B6CD%dterry@keyofd.net...  
>>>>>> Since you can daisy chain the Konnekt interfaces via TCNear  
>>>>>> networking,  
>>>>>  
>>>>>> and  
>>>>>> this one has it as well, I would guess Konnekt 32 can as well, but  
>the



>

---

Subject: Re: DJ and people with complex setups  
Posted by [gene lennon](#) on Mon, 16 Jul 2007 02:40:34 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

This is a multi-part message in MIME format.

---=\_linux469adaa2  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Rather simple c- panel

"Gene Lennon" <[glennon@NOSPmyrealbox.com](mailto:glennon@NOSPmyrealbox.com)> wrote:

>

>I have a ProFire Lightbridge. I use it for all kinds of stuff including  
Pro

>Tools-M where it does give 34X34 up to 48K, or 18X18 at 96 (PT 7.3.1). It  
>has a headphone out but it only chases SPDIF out. Latency goes down to 256,

>it into my main I/O for sends to and from Paris or a V-stack PC. It has  
no

>internal direct monitor system or any internal mixing. I have not had any  
>of the clock issues talked about at Gearslutz. It makes PT-M a viable alternative  
>to HD if you are mixing analog and it has been a good purchase for me coming  
>in handy many times. It does work with the Core Audio Aggregation tool along  
>with my MOTU PCIe rig.

>

>Gene

>

>

>"James McCloskey" <[excelsm@hotmail.com](mailto:excelsm@hotmail.com)> wrote:

>>

>>Hey Dedic, I have no experience with the Pro Fire Lightbridge. I was  
following

>>the user reports on gear slutz awhile back. Most reports were good, but  
>>someone didn't like something about the way the monitoring is set up, or  
>>some thing. You might want to read up on those threads. Also, early on,  
>>some didn't like that there are only 18 I/O available in PT. They may  
have

>>changed this by now. All other software can utilize all of the I/Os, such  
>>as Nuendo, Cubase, etc.

>>

>>"Dedric Terry" <dterry@keyofd.net> wrote:  
>>>----- Original Message -----  
>>>From: "James McCloskey" <excelsm@hotmail.com>  
>>>Newsgroups: IDEA.EMUEnsoniqPARIS  
>>>Sent: Sunday, July 15, 2007 5:35 PM  
>>>Subject: Re: DJ and people with complex setups  
>>>>  
>>>> I don't think it's FW, the Pro Fire Light bridge will do 34x36.  
>>>> [http://www.m-audio.com/products/en\\_us/ProFireLightbridge-main.html](http://www.m-audio.com/products/en_us/ProFireLightbridge-main.html)  
>>>>  
>>>>Hi James - Any experiences with this unit to report (drivers, latency,  
>>>>>  
>>>>integration with PCI audio cards)? M-Audio never had a great rep for  
>>>>>  
>>>>drivers and quality, but I know Lamont gave it a thumbs up, so it seems  
>>>>>  
>>>>worth considering. I could use an extra 4 lightpipe ports. I've been  
>>>>>  
>>>>reluctant to put as much weight on firewire as PCI/PCle so far, but would  
>>>>>  
>>>>like to be able to implement something like this.  
>>>>>  
>>>>Regards,  
>>>>Dedric  
>>>>>  
>>>>>>  
>>>>>>> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:  
>>>>>>> If the driver will support two + units, it might be a monster with  
>>>>>>>a  
>>>>>>> dedicated 4 x port FW PCle card, especially if you can further  
>>>>>>> merge/interpatch within the software control panel. I'd probably  
>>>>>>> look  
>>>>>>> pretty  
>>>>>>>>  
>>>>>>>> hard at this if the price was right. I'm currently doing pretty much  
>>>>>>>> what  
>>>>>>>>>  
>>>>>>>>> this will do using 4 x Behringer SRC 2496 units along with an RME  
>>>>>>>>>  
>>>>>>>>> ADI4-DD  
>>>>>>>>>>  
>>>>>>>>>> for real time SRC for two of my outboard reverbs and interpatching  
>>>>>>>>>>>  
>>>>>>>>>>> various  
>>>>>>>>>>>>  
>>>>>>>>>>>>> other I/O through a Frontier Apache and M-Audio C03 units to connect  
>>>>>>>>>>>>>>  
>>>>>>>>>>>>>> the

>>>>>  
>>>>>> other digital processors, SMUX I/O of my converters and the I/O of  
>>my  
>>>> slave  
>>>>>  
>>>>>> computer with the free I/O of the master computer. It's a daunting  
>>  
>>>>>> scenario.  
>>>>>>  
>>>>>>> I have written an I/O sheet (small manual) for this that I have  
>>>>>>> memorized  
>>>>>>>  
>>>>>>> and the faceplates of the gear are all labelled as well. Same thing  
>>  
>>>>>>> with  
>>>>>>> all  
>>>>>>> of the midi I/O I have here. There's a lot of it and it is interpatched  
>>>>>>>  
>>>>>>> through an Ensoniq KMX-16. This is only about half as insane as  
things  
>>>>>>> were  
>>>>>>> when I was integrating Paris with the Cubase DAW. I watched the entire  
>>>> video  
>>>>>>>  
>>>>>>> demo and this looks like they were reading my mind.....which may  
be  
>>why  
>>>>>>> they  
>>>>>>> stopped before it got too complex and twisted....but there is no  
midi  
>>>> I/O  
>>>>>>> on  
>>>>>>>> this interface, is there? Didn't see any. That may be a show stopper.  
>>>> Does  
>>>>>>>  
>>>>>>>> anyone make a decent (large) midi interface now that Steinberg  
>>>>>>>> discontinued  
>>>>>>>>  
>>>>>>>> the Midex?  
>>>>>>>>  
>>>>>>>>> ;o)  
>>>>>>>>>  
>>>>>>>>>  
>>>>>>>>>> "Dedric Terry" <dterry@keyofd.net> wrote in message  
>>>>>>>>>>> news:C2BFAA72.B6CD%dterry@keyofd.net...  
>>>>>>>>>>> Since you can daisy chain the Konnekt interfaces via TCNear  
>>>>>>>>>>> networking,  
>>>>>>>>>>>



>>>>>  
>>>>  
>>>>  
>>>  
>>  
>>  
>

---=\_linux469adaa2

Content-Type: image/jpeg; name="PFLB.jpg"

Content-Transfer-Encoding: base64

Content-Disposition: attachment; filename="PFLB.jpg"

/9j/4AAQSkZJRgABAQAAZABkAAD/7AARRHVja3kAAQAEAAAACgAA/+4ADkFk  
b2JIAGTAAAAAAf/bAIQAFBAQGRIZJxcXJzImHyYyLiYmJiYuPjU1NTU1PkRB  
QUFBQUFERAEVGRkgHCAmGBgm  
NiYgJjZENisrNkREREI1QkRE  
RERERERERERE/8AAEQgB2gLxAWeIAAIRAQMRaf/EAI4AAQACAWEBAAAAAAAAAA  
AAAAAAAAEBgIDBQEHAQEBAQEAAAAAAAAAAAAAAAAAAQIDEAACAEFBQQIAwce  
AgIDAQAAQIDEVESEwQhMWGRBUEyKINxsSJyMxQVBoFzNKHBOUJSIxZigrLS  
8OHx4kNjk2QRAQEBAQACAgMBAAAAAAAAAAAAAAAAABEQIhMUESUWEiYv/aAAwDAQAC  
EQMRAD8A7mq3FHqVJY3te99peNVuKNU78vSyUeZkr3zGZK98yX0rpUuqTI7T  
hSg7G1vbO5/iWm82rzX8AKxmSvfMZkr3zLP/AllpvNq81/Af4lpvNq81/AYK  
xmSvfMZkr3zLP/iWm82rzX8B/iWm82rzX8BgrGZK98xmSvfMs/8AiWm82rzX  
8DidV6RV6dKCpydSFR4Y271K4CHmSvfMZkr3zO7R+14uKdarPE9+Cxl2f4tQ  
82pzX8Bgr2ZK98xmSvfMsP8Ai1DzanNfwH+LUPNqc1/AYK9mSvfMZkr3zLD/  
AltQ82pzX8B/i1DzanNfwGCvZkr3zGZK98zuVvteKi3RqzxLdjsaOf0npFTq  
UpZknThTeGvm9yAh5kr3zGZK98yz/wCJabzavNfwH+JabzavNfwGCsZkr3zG  
ZK98yz/4lpvNq81/Af4lpvNq81/AYKxmSvfMZkr3zLP/AllpvNq81/Af4lpv  
Nq81/AYKxmSvfMZkr3zJfVelT6XOPtOdKbsTe9MhAZZkr3zGZK98zEAZZkr3  
zGZK98zEAZZkr3zGZK98zEAZZkr3zGZK98zEAZZkr3zGZK98zEAZZkr3zGZK  
98zEAZZkr3zGZK98xCOOSje7DsazokNEoutWsxbrlf8AsDj5kr3zGZK98zra  
Lo9LWzcKNe1pW7Yf+yFU6fVjWnQgscoPbhAjZkr3zGZK98yQ+n6iO+m9hhS0  
dassVODavQGrMle+YzJXvmSPp2p8tmek6dU1Gojpp/25O3erlaBEzJXvmMyV  
75nT1fSqOjqOIVr2SV0P/ZEq0KKsVKpjbdlmGz94EfMle+YzJXvmTdZ0yWml  
GCeNy3LDYa303UrfTkBgZJXvmMyV75mxaStKeWoNyXYbPp2p8tgR8yV75jMl  
e+ZsraWtQVtSDineaQMsyV75jMle+Z1NZ0WWI00dS5pqVns2X/ickDLMle+Y  
zJXvmTaXTXU0z1OKyy32cN3Ej0tHWrrxwg3G8DvmSvfMZkr3zJH07U+XlkaD  
pFTV1pUJPLIFYtqA5+ZK98xmSvfMmV+IV6VSUFFySdmKzeaKujrUUnUg0nut  
A1Zkr3zGZK98zow6Fqp0XXSVi7LdpF+RrRIFTi4qTUbXxA0Zkr3zGZK98zq9  
Q6DW0bioPMxJ7IZYQZdP1EU5OnKxcANGZK98xmSvfM20dHWrlFTg5Lgez0Va  
msU4NK8DTmSvfMZkr3zJus6c9LTjUxYsXZhsNS6fqWrcuVj4AR8yV75jMle+  
Z1+n9Aq6zFjeXhs3xtttOZS0IWtblxcrLgNeZK98xmSvfMkft9R5bNdTS1ac  
ICcGpS3IDxmSvfMZkr3zJD6dqVvpyMZ6GvCOKUJLtsA05kr3zGZK98zEbwM  
syV75jMle+ZL1fT5aaEajaduySX8srLbH+DIbi1vVgHuZK98xmSvfMKnJvCk  
7brCVDQScvKbw2zULHF3bwluZK98xmSvfM9hRnNWxi2uCtMWmtjA9zJXvmMy  
V75m6ellGFOa9rGnKxLdZJx/ca3QqJpOMk3u2MDHMle+YzJXvmbtTo6mnrSo  
tNtNpbN5qdKaeFxab7LNoHmZK98xmSvfMk6XQTrt4k4xSxN4W+Rqenm21CMP  
JPfhYGvMle+YzJXvmFTm3hUW3dYJQIF4ZJp3NAMyV75m3Tzk6sNr70fWa50p

w2yi16UZaf4sPej6wLYACiXqtxRqnl6WXnVbijVO/L0sIHe+2KmGhVX/wCx  
+pEzqPWJ6ScYQipWxnPa7O4rbjidH1UNPSqY2ksx+pEqp1LR1HbOUZNJraux  
7+ZRIX3G1Tk5U/bWW0k7V/cVq7L2Hmq6rqpQoShF0nKsoSjK1W/s7rv38CP  
8/obGvYsaUXs3pbl+B79R0Vky2wsi7Yqzc+AE1ddnKtOnGIJwg5RclbscV27  
LLPxt4Gen6vqK9B6hUdmG2KUrXJ/w/bcmc/6jonN1LYY2rHKzbYH1HROGVbD  
B/TZs5AdbpvU/naWY7Fwi27PTsRH61UxfLL/AP0U/wB5Dp9U0IKOGnKMY3JW  
GjVdQpampp4U5KTVamwJdDq1SlqKIOR7UHVnCN8bFby/E8f3HPDKeWrFTzY+  
12Ziht2fidv5Sjix4l4rcduFW4r/AEmHyGm9p5UPa73srbt2/jtAhajqVaj  
COKmozqyw005ble7L2WnP0/XqtLTp1I45KlmuTdlv8AcwWbixVaFOtHBUip  
RukrUa5aDTzjGEqUHGnuFOksVtwHMFxJYnBU1izMqO3Zuttew803W62qICFK  
knKdPM7+xe247eGy2/gdX5Ohl5OXHL34MKs5HtPS0aTUqclxaWFOMUtltno  
t2gQldWnPUuhGIJxjLBKatdJv3WWfjbnfRkMfahf/6Kv7jq/L0szOwRzN2O  
zbxKvpOoUtNOvCpJRbrVGBac44lbr83OVOEbl21aalbtthG22yy/dtNf1nT+  
YjTLX6GU8yWBzf8ANh23eoDZpvuGdLTvOWKcYRmnb3sTs23Ej/IJjLh7WOr  
TI7Wy2mrdnp/AiQ1+hpxclYFGXeSWxh6/QuCpPBgW1Rw7OQEin1XUV9RpnGy  
MKkZSIC3/wBdnYdzOK5HqOii4uLgnHZHZu9Bs+s6fzEB790VMVGI+YvUyvE7  
rHUKWphCMJJ2TTZzc6F5BsBrzoXjOheBsBrzoXjOheBsBrzoXjOheBsBrzoX  
jOheBsBrzoXjOheBsBrzoXjOheBvpNKcW9yaLN1vqWnlCmoKFWzfa7bORUs6  
F4zoXgdnT9ZlpW5UaUltqy1J/wASZ0LqEVqqtUzUXOO97NtqK1nQvGdC8Cd  
q9TOdao4zbi5Ss29lp3tHq6MumugqkYVWmvaeEqedC8Z0LwO5oqc6VeE6leG  
FO1/3V/E6tbqGnl1OIVU44lXkpSt2bn2IOzoXjOheBZesdYa1DyHCULFtsUj  
mvqFSvOCqYVFTjLZFI5mdC8Z0LwLh1PXaepq9POFSLjF+009xA+4ddGtXi6F  
S2Kj/LIr2dC8Z0LwLH9ua2lQq1HXmliSscmZ16sJVJNZbTbaefYVnOheM6F4  
Fh6n1CdbTKi8GGLVmGopPYcl150LxnQvAuGvr0NXoYUYVYKaw75Jbjg/Tv8A  
9tLxo5udC8Z0LwLT09XRh0qpRIOkqNTsjbtM6ero1OlrTwqRhVs3OWH+a0qe  
dC8k0+qTpRUIzSS4AdzolGpHVxcqsZLbsVTF+y06PzNLT9VqyqyUU4RVsnZc  
VeHW60HbGpY+CltbWZ83UqTxSe9sCd1DVSnqakoTbi5Oyx7Dr6zV0qnSqcMy  
LqLDbHEsXb+JVs6F4zoXgWzQ66lPp0qEqqjVakliiYcZQnTnCdSpGUVOO6op  
dvpOZnQvGdC8C29drQ1koPT1oeynb7aR70jUU9HRqLUVoty3LHi7Co50LxnQ  
vAtPttdRpaCvBzUZyzMKtse1bCvZ05NKUm1xZHzoXjOheBa+s62hVo0FCcZY  
ZRcknbsSMut14azA9PWgrN6x4SpZ0LxnQvAuHQdRT0canzFaHtOOH2091pp6  
NrKMNLVpSqRhOTdmJ2FVzoXm+j1GVFYSSXoA6uioVVqKbdaLWOP/wCVO3b6  
TsdXrQodR086jsiltf4IYj1qrF2xqWP0l0ajqEtTLHWnifEC0dS1NKtWx05Q  
mrN+dh/YafqMqVCVKKp4Wn/+ZNIXzoXjOheBsJnTISVXMrtKEFis7ZcFec/O  
hebAOzS1OmrOrTnOf97bbOKUVLsduJ+g1aigtTgnCpBJRjGwKaTTj6f3HKbS  
2swzoXgWCrVpudWFKpFVHGio1LdjUYJNW9m02UK2VGjGtVhJqqm/bTsVnayt  
50LxnQvA7cpSqwp/L1YwjGKUouag1Jb3tstt/Ei9RqQqVFhak1FKclubOdnQ  
vGdC8Du6fVRpUoOMkpKjUW/tdR7PTYR6OsnOIVjVna8KcLxtYlu/A5WdC8Z  
0LwLLLuu/ma0pTjLM20pZiVit3W7cP42CGopRnQU3FONSMsWap2LttklZZ+J  
Ws6F4zoXgdbT66pLOdSo7XB4dtm23sJdLUPJpqnKm3Z7bqVLGnbdarf2lezo  
XjOheBZtXUhUxZNSmqk1B4lJRtSik1b2bb7CNRrRo1KXzNSM2nLd7WG2Oy2S  
t7fTYcLOheM6F4Fgr1oRo1lzwvEvZ/vKo7eCS2fjYcjT/Fh70fWaYyUtzN2  
n+LD3o+sC2AAol6rcUap35ell51W4o1Tvy9LJR1Ptpz9KvmV6qxWTcYp7vSW  
X5Sh5cfCjjfa3wKv5r9SLBFYnYijR8pR8uPhQ+Uo+XHwonZCvGQrwlPylHy4  
+FD5Sj5cfCidkK8ZCvAg/KUfLj4UerTUYu1Qimv9KJuQrxkK8COCRkK8ZCvA  
jgkZCvGQrwl4JGQrxkK8COanpaLdrhFt/wCIE3IV4yFeBB+Uo+XHwofKUfLj  
4UTshXjIV4EH5Sj5cfCh8pR8uPhROyFeMhXgQfIKPlx8KHylHy4+FE7IV4yF  
eBB+Uo+XHwofKUfLj4UTshXjIV4EH5Sj5cfCh8pR8uPhROyFeMhXgQfIKPlx



8KHylHy4+FE7IV4yFeBB+Uo+XHwofKUfLj4UTshXjIV4EH5Sj5cfCh8pR8uP  
hROyFeMhXgQfIKPlx8KHylHy4+FE7IV4yFeBB+Uo+XHwofKUfLj4UTshXjIV  
4EH5Sj5cfCh8pR8uPhROdBdjNDVjsA0fKUfLj4UPIKPlx8KJMIY2bchXgQfI  
KPlx8KHylHy4+FE7IV4yFeBB+Uo+XHwofKUfLj4UTshXjIV4EH5Sj5cfCh8p  
R8uPhROyFeMhXgQfIKPlx8KHylHy4+FE7IV4yFeBB+Uo+XHwofKUfLj4UTsh  
XjIV4EH5Sj5cfCh8pR8uPhROyFeMhXgQfIKPlx8KHylHy4+FE7IV4yFeBB+U  
o+XHwofKUfLj4UTshXjIV4EH5Sj5cfCh8pR8uPhROyFeMhXgQfIKPlx8KHyl  
Hy4+FE7IV4yFeBB+Uo+XHwofKUfLj4UTshXjIV4EH5Sj5cfCh8pR8uPhROyF  
eMhXgQfIKPlx8KHylHy4+FE7IV4yFeBB+Uo+XHwofKUfLj4UTshXjIV4EH5S  
j5cfCh8pR8uPhROyFeMhXgQfIKPlx8KHylHy4+FE7IV4yFeBB+Uo+XHwofKU  
fLj4UTshXmMqNitQEKWioTWF042P/SimdQ00dHqp0Yd3ZJcLS9FM65+vn7sQ  
MOj6aGq1ihVVsYxc7ONthcPIKHlx8KKt9vfrn+U/+SLeBp+Uo+XHwofKUfLj  
4UbgBp+Uo+XHwofKUfLj4Uauo6meloSq0oqUl2Sdhy6nXKuXSITjGcqik9zS  
2dm/fxtA7PylHy4eFD5Sj5cfCjI/MaifUIRtwxIRx5bt2PjxT7biHpdbXVom  
6ksWLU5duKW7ntVyewCwfKUfLj4UPIKPlx8KOHp/uGrKGOpBNunKpFRt/lk4  
7T365Xya1RQhKVNw3OxWSVr7dtgHb+Uo+XHwofKUfLj4UY6HUfM0Y1bU8St2  
Jr1kgDT8pR8uPhQ+Uo+XHwo3ACq/cejpaedOrSSi5txlYczT/Fh70fWdv7p7  
tH3n6jiaf4sPej6yC2AAol6rcUap35ell51W4o1Tvy9LJRYPTb4FX81+pFjo  
95Fc+1vgVfzX6kWOj3kUSQAAAAAAAAAAAAAFAo9H1UateasgqkZYJylinGTu  
lvsl1PoGpsalGKi6mnk44uynGSnzbt/EC3GnU6ulpVGVZ4VKShHY37T3bipy  
6NqtHQnOxJZdZTwwf3fTYbdN0fU1KMJJKMxU09VU7dyhD2pemVwFtBwel9J  
r6bUyrVpNu2W1NWTTv7dnFm6HScevracnSITWLZbGNm1eoDsN2GnS6ql  
q6SrUXihK2x2NbnZ2nA03RNRHVqpWUZw/u45t7Zqa2Wrgal0DUR0VCgrFKEp  
yqxTXtYtz27LUR0BajT9XS1LmqTty5OnPY1ZJb1tIos6fWqdPekpTeZhSxS  
e18G+O4476DqnTIFJRI606mVGSswySs4ez6ALNPV0qdWFCTsqVE3CNj24d/A  
3HDXRpLU6Wq/bjSjTIPvW2ez6bGRNL0LVU4VIko1VIGUcalsnbJu19tvpfa  
BYdVqqWjputXeGEbLXY3v2dhuKzW6JWq6GpQUlxm3BwjitSastdyt27jdcOi  
1amsjUjXopQUUMDSMPYuD4WAdqpq6VOrChJ2VKmLArHtw7Xw5m4rml6PqaW  
vhqKlkoxnVlKpbtanGyKs4FjAAAAAAAAAAAAARaneZKItTvMDZQ7TcaaHagA  
AAAAAAAAAAAAAAAAAKxDomoc9Q5KMYVYywym8c03x32EHSdPr61zsisCqaW21  
+zJU4NSsv3rmBdQVb6LrMunGpZUUMxZbnsVvddvDgdbqmiqarR/Lxtc2oq1T  
s2q+3erex+neB0wVev0XV1KFKFKLYxnGUI+zFSktk/Sj2v0XVutiTU1KWnnK  
blY/7UcMvTbvAs4OBoeiTpUKmN4dRLMUJ4m8KI2q78COujar5R0YpU3bStip  
NqeGKUr5fae3dts22gWcEPpmkekoKIJtva/adtlvZs7CYAAAAAAAAAAAAAAAA  
AwGBCKZ1z9fP3YlZKZ1z9fP3YgbPt79c/wAp/wDJFvKh9vfrn+U/+SLeABw6  
FKpq5VKkqtSNIScEoysVkXYypKEpRnXqxUcO3Mf8wHcnTjUVk0pK5q0xdCn  
KKg4xcVuVisRx5UYRmqb1NTE9yzGY0KKrznGFeq1CzbjfaB3MEcWOxYrLLe0  
8yaasWFbHiWztv8AScXU0qmkUask1RvFFWSk2trO6Bq+XppWRilsa2JbmaNP  
0yhQUko4sTxSc0n+6z9hCqRqanVvYZk4Rp4FFQIZvimeS0qjJQlqKqk9tmYw  
OzGKirErEuw9OFCnTqd3U1Hv/nfZtMo6eM5YI6iq5NYrMx7gO2DianSTo0pV  
l1qtsVarZs62mm6lKE5b3GLf4oDhfdPdo+8/UcTT/Fh70fWdv7p7tH3n6jia  
f4sPej6yC2AAol6rcUap35ell51W4o1Tvy9LJRYPTb4FX81+pFipuyVpXftb  
4FX81+pFjo95FG7M4PkMzg+RmAMMzg+QzOD5GYAwzOD5DM4PkZgDDM4PkMzg  
+RmAMMzg+QzOD5GYAwzOD5DM4PkZgDDM4PkMzg+RmAMMzg+QzOD5GYAwzOD5  
DM4PkZgDDM4PkMzg+RmAMMzg+QzOD5GYAwzOD5DM4PkZgDDM4PkMzg+RmAMM  
zg+QzOD5GYAwzOD5DM4PkZgDDM4PkMzg+RmAMMzg+QzOD5GYAwzOD5EebtbZ  
LItvMDKILDbsb9BtzOD5GFDtNwGGZwflZnB8jMAYZnB8hmcHyMwBhmcHyGZ  
wflzAGGZwflZnB8jMAYZnB8hmcHyMwBhmcHyGZwflzAGGZwflZnB8jMAYZnB

8hmcHyMwBhmcHyGZwflzAGGZwflZnB8jMAYZnB8hmcHyMwBhmcHyGZwflzAG  
GZwflZnB8jMAYZnB8hmcHyMwBhmcHyGZwflzAGGZwflZnB8jMAYZnB8g6nB8  
jMMCEUzrn6+fuxLmUzrn6+fuxA2fb365/IP/AJlt5UPt79c/yn/yRbwOBpNb  
Q0rq0601CWbUdkrnLYY1dVpJVHWjXipbLLValsa4djOhU6rp4zIDDKTi8LcY  
Wq0w+raf+if/APMDmueiVkl10qasti1tdkMG/wBHDeb9LrtLRcpSrxlaopWK  
yxR5kv6tp/6J/wD8x9W0/wDRP/8AmBE1uuoamEadGanNzhsXpO+c2HVtO5JY  
ZRtdicoWI6QHElqqWI1Id1pYMWBxt7fZRqr6vR15SxVooMouDUd7tvfq2fj2  
HYq6mnCWGSbauVpr+bpF0vwgcXP0zbnLUQc5Pfh2WOKi9lvDfb+BnRraCjVz  
FVi0tydux2Ybd9m7/T+J1/m6X9L8l+bpF0vwgc7WdT0tSjOEKicmrEkdfSjx  
o009jUY+o0/OUVvi1/tJiaatW5gV37p7tH3n6jiaf4sPej6zt/dPdo+8/UcT  
T/Fh70fWQWwAFEvVbijVO/L0svOq3FGqd+XpZKLB9rfAq/mv1IsdHvIrn2t8  
Cr+a/Uix0e8iiSAAAAAAAAAAAAAAAAADhfcPU6mkUadF2SltxcCtfVtZ50/EB  
9CB89+razzp+lfVtZ50/ETR9CB89+razzp+lfVtZ50/ENH0IH36trPOn4h9  
W1nnT8Q0fQgfPfq2s86fiH1bWebPxDR9CByOgdRnraUIV2yg0rb7TriaAAAA  
AAAAAAAAAltVMIewp3mBsodpuNNDtNwAAAAAAAAAAAg9V170NFTirZykoQXF  
gTgVmjjjVUJxeocZ05NRdisatO3rtYtLI2tLMqRp7U33vR/8Guubzc6SWX0l  
g5dLrmnrqWVicIGUopxftYd9l5p033BSelp6jUJxlUxWRim+7va4JdplXaBz  
X1vS5ipRblJqLSjG23FusPafW9LUqOniaac1bJWK2n3tvDf6AOiDhar7jpRp  
OenTIJYHZNNLDJ2WndAAAAAAAAAAAAAAAAAAAAAAAAAYDAhFM65+vn7sS5IM65  
+vn7sQNN29+uf5T/AOSLeVD7e/XP8p/8kW8Dk9M7tX86r/yNEtdXhrjVdixv  
sjYorjmk7fSvxN60GqoynkTgoSlKdKlt9raz35XXWWY6dnusDVU11WGLYsU  
YRk6a9ppuy2127LLmrGtqlvsxhWr1pUJNqKcpW9uJYXt2Sa/a9u3gb/lDD/X  
T2/6WPldcv56fhYGPVfgr34es65yZ6DvV711qkMCak8Mduw6wEKLsrVWttmH  
/iaPmZxcmmnbh3bo772vRvRKnP6mZkDOSWky23gY5Oo/qhyA0PUVIN7Nra2X  
eytm9f8AnYZyq1lSnLhD2brfx7Pw/A2ZOo/qjyPcrUf1R5AYznKdBykrHY//  
ADt9ZJofDj7q9RGlp681hco2PgTIRwRUblYBXvunu0fefqOJp/iw96PrO390  
92j7z9RxpNP8AFh70fWQWwAFEvVbijVO/L0svOq3FGqd+XpZKLB9rfAq/mv1l  
sdHvIrn2t8Cr+a/Uix0e8iiSAAAAAAAAAAAAAAAAACp/dfxaXuv1lclH91/Fpe  
6/WVwgHU+juOmnWqTUakFGTpwWtKW619jd1xy9x0Pq9eVKpSqtzzElbJ7rAN  
tLo7lQnVqTUJxg6ip2WtxV9xlR6Lm06dVVFZOM5ysj3VDla+S4s0U+r14wnT  
m3NTg6ftPcZ0OsToU6dJRTjBVIv/AFKe8DKHRnVq0YU52wrJyUpRsaS37LX+  
G3kRtVolRpU69OWKnUxWYo4XbF2PZa/Wbo9XqQqUqIokuAKcYx37Hv2mjU63  
PpwoxioU6duFW2952vaBEABBavtPu1vTD95lq/cUKeYnBY4VsjDj2tf1bv8A  
y8j/AGn3a3ph+8nVOg05qonJ21KufbYtju9BoTqOvoVqroQk8yKxOLjJbLbL  
dqRJIGi6c9LVqVXNzdR2vElbw277FcTwaAAAAAAAAAAAEWp3mSiLU7zA2UO03  
Gmh2m4AAAAAAAAAAQ+paBa6jl24ZJqcJXSRMAFdo9D1FScfmpQy4vFZTttlZ6  
d37Ts6zQ09Zl5jay5xqxw3xv4EkFvV681JJPTI6boWn00oyg52xjOKta3Tdr  
7DyXQdM6VKjbl+ziwS9lv2t9tsXF+HsOqCKiUOnUqFeWohapSjGGHZhSjcrC  
LHoGmU1NuTslVnY2rHmpKS3brFs9Z1QBxV9taaxxc6jTUI747FB2r+U7QAAA  
AAAAAAAAAAAAAAAAAAAAAAAAADAYElpnXP18/diXMpnXP18/diBG0Wrloa6rpYIZh  
kuB3/wDKdN/RV8K/7FaBBZf8p0v9FXwr/sP8p0v9FXwr/sVoDRZf8p0v9FXw  
r/sP8p0v9FXwr/sVoDRZf8p0v9FXwr/sP8p0v9FXwr/sVoDRZf8AKdL/AEVf  
Cv8AsP8AKdL/AEVfCv8AsVoDRZf8p0v9FXwr/sP8p0v9FXwr/sVoDRZf8p0v  
9FXwr/sP8p0v9FXwr/sVoDRN6r1P6IOOCLjThTWLe2R9P8WHvR9ZqNun+LD3  
o+sC2AAol6rcUap35ell51W4o1Tvy9LJRYptb4FX81+pFjo95Fc+1vgVfzX6  
kWOj3kUSQAAAAAAAAAAAAAAAAAV/7k6fV1KhVpLFhVjSKv8lqPLn4WfSAB83+S  
1Hlz8DHyWo8ufgZ9IBMHzf5LUeXPwMfJajy5+Bn0gDB83+S1Hlz8DHyWo8uf  
gZ9IAwfN/ktR5c/Az35LUeXPws+jgYOL9u6CppKUpVvY5tbPQdoAoAAAAAAA

AAAAAABFqd5koi1O8wNIDtNxpodpuAAAAAAAEfW6yGjpurO17kore29yRI  
Od1fS1NRSi6W2dOcaijfZ2ftA00usyxxjqKLpRk7lyxKSt47rDqzqQp2Y2o2  
vCrXZa7iuyp6jXuNLKITipKU5T2brjrdU0MtZCngaUqdSFWNu5uPYwJMdTsn  
Yozi7bWrJLs3iOqoySkpxcW8KeJWYrvTwK9p/tqrGOGrUSshOEXC3+d29pkv  
tuo4pTnH4IGcoq3DhpxcecrdoHa1PUaGmouvKacFb3WnbZ2LbtZnS1dKqoWS  
SIUipxi2sVjVu45XU+hPU4fl3GCjCVPC91ku1cTGj0OpSrKeKLj/AGcWJWtO  
IFx9n0gdHTdUoaikqylgi5OKzGo7V+JKdanGapuSU3ujbtf4Fbf21VyowVSO  
JZsXbbZZPt9KJcehzip11UU4yg8q3GrZLLi4+z6f4gdDRdSo62OKm7G3JKMrF  
J4d+y0zeupRnOE2oYMNspSil7Stvt5pcLTmdl6LU6dVIUIKMIPFbs2rbss/e  
Y6voVTUaipWUo4Z1KFSx3U001+IHdhOM0pRaae5rcekHpWhloaLpTkpPFKWY  
5k4AAAAAAGAwIRTOufr5+7EuZTOufr5+7ECAACAACAAAAA  
AAAAAG3T/Fh70fWajbp/iw96PrKLYACiXqtxRqnl6WXnVbijVO/L0sIFg+  
1vgVfzX6kWKk7Jlrv2t8Cr+a/UjvIE0ETMlee5krwJQluZK8ZkrwJQluZK8Z  
krwJQluZK8ZkrwJQluZK8ZkrwJQluZK8ZkrwJQluZK8ZkrwJQluZK8ZkrwJQ  
luZK8ZkrwJQluZK8ZkrwJQluZK8ZkrwJQluZK8ZkrwJQluZK8ZkrwJQluZK8  
ZkrwJQluZK8ZkrwJQluZK8ZkrwJREm7ZMOcn2mlG+h2m400O0  
3AAAAAADCtWhRg6lRqMVtbYGYIGm6xpdTPLpy9p7lJNW+i3eTwAAAAxq  
VI04uc2lFbW2exkppSi7U1amB6DTHVUZ03WjOLpq22VuzZvNsZKaUou1NWpg  
eg0anV09Ko5j2yeGKStbfBG8AAal62hKWBVluWJwst/mjvXpQG8ER9S0+KEc  
aam3GMI3cS7Ld1vAlGAAAAAAMBgQimdc/Xz92Jcymdc/Xz92IEAA  
EAAEAAAAAANun+LD3o+s1G3T/Fh70fWUWwAFEvVbijVO/L0svOq3  
FGqd+XpZKLB9rfAq/mv1lsCVrsRX/tb4FX81+pFjpd5FGWQ7z3l4m4AacjIM  
jibgBpyOlyOJuAGnl4jl4m4AacjIMjibgBpyOlyOJuAGnl4jl4mdStTpOKnJ  
Rcnhja97uRIKSgnKTsSVrYGrI4jl4mynVhUgqkGnBq1ST2GrT6yhqbVRqRnZ  
vwyTA9yOlyOJqh1LTynKnjSIGSptS2e0+xW7/wADZPW0IScJVlqScU05LY5b  
ufYB7kcRkcTx62gpYHUjixKFmJW4nuXpNIOTq4suSlhbKx22Ndj4gYZHEZ  
HE3ADTkcRkcTNVqbbZSksxLFht22X2GYGnl4jl4m4AacjIMjibgBpyOlyOJu  
AGnl4jl4m4AacjIMjibgBodB3mpqwmEWp3mBsodpuNNDtNwAAAAA5PXq  
cpUYSScoQqRnUiu2K/hsf4HWAfw1FenrXClniqYotNLu2eo7HV6eoqUorT2  
7KkHUUHJ07dqT2bfxWztJ8aUibYxSfBGQFY1Wn6i6VNQzLFCWzM9tT/AJXJ  
rDakvT+O891Gn6k9RByc5LHQ2052QwJPMTVqtlY9z2cizACprTdSwy+L3Kq  
h/c2pt7MTt2v+lqywwqabqWbTbzGk9P3Z2JRSeYpK1Wty4PZ29haQBwNHpNT  
Q6ZVoqLjWeY4JOx7Xs2kSGm6lGqqltZLTLbO1YcFIXZbZv37LbdqLUAOP1C  
nKlRqGrabpRUqcsKtactzsuVWlrlaqvVeY6OCcoylNixUGk17MYysautjb27  
1a7KGrdjaqGih1KtpJzoynZOnDDjnbKUrfaCW7WrVxW3mKPT9bC1QhOMJ1dR  
Jxct8ZQWDFt27b7dpboxUVYIYlcegVeto630yl09qTrzw7GtUna7Wuxfiy0  
AAAAAAMBgQimdc/Xz92Jcymdc/Xz92IEAAEAAEAAAAA  
AANun+LD3o+s1G3T/Fh70fWUWwAFEvVbijVO/L0svOq3FGqd+XpZKLB9rfAq  
/mv1lsdHvlrn2t8Cr+a/UixU2oytZRKBhmxvGbG8DMGGbG8ZsbwMwYZsbxmx  
vAzBhmxvGbG8DMGGbG8ZsbwMyv8AXqOvqVLdM54MuyCpSw2VMStrGrVh3b/  
AEHdzY3jNjeBWK2i11TV051FKSjVjKMsXsxhZdbvt37LeI0+j6hOVSGozGnR  
qxl/ceGVTG7MO3YsNi3JdlhZ82N4zY3gczQ6Fw6bHTVYNycGpQlJ9vZbts/D  
cQdPDWUE506UpYKEYQzVDMUv6YyitsVveLeWHNjeM2N4Fd1PRJPT6bT4XNZq  
nXs2d7vPfs/Ai1eh1qVWtklKcnp6ilJ2ynhTxv02u3sLZmxvGbG8Cs1On6i  
q60ISadetBwk+9Ss/n2Ps7LGdLpunoNLVoyhhq1Fjt21X/AF727ZcX+w6m  
bG8ZsbwKgtJ1WEMcXWzFThJW1W1mY9uxysfs9j2HQyepfOSkpSw45tNy/t5e  
FYFh3Wp7/Zt4s7+bG8ZsbwKjT0PUk6tSKmqzo4McpW2yx2vDtdns93dZ2WFh  
6TSr0qLz5Sk3JuKmtsVdtlJvhbJ7CbmxvGbG8DMGGbG8ZsbwMwYZsbxmxvAz

BhmXvGbG8DMGGbG8ZsbwMwYZsbxmxvAzItTvM35sbyPN2ttAbaHbjTQ7TcA  
AAAAAAAG4HJ69OUaEI2uMJ1IQqSXZF/xdiA6cK1Oo7ISUmrnaZIW1NCnpHT  
qadYamKKjZ/Mdj+sqaoIGdOxYqkISm90lt7ZP1fiB0QUvU9b1NfRrG1FVI1  
baiVlri7FFcSSutamIoirVkvbpoJSXtTjOPtSXoas9lFrBw+huq6+rzJ4kqr  
W7/zkZdLclr9bBycknSsxPdbFsDtAptLrWpp00qeGKw1pv2be4/SW3S1s+jC  
q1ZjjGVnpVoG08IOMe80vSenJcNepUdXbJScbH2LsA6ydoiPTm7JxTtjGVk  
TQ9fVvflsXelHBZtsStT/EDqg4UNbVxTqr2pYFs7l7f3GdXUVK1K3EvZrYE4  
reuxgdoEXWzp06eKs3YnuWzE7jXpHZQm8SI3nYnao/6bQJwOHHqFwnBNWWRh  
Gdlm+2Vh3AAAAAAYDAhFM65+vn7sS5IM65+vn7sQIAAIAIAAAAAAAAAA  
AAAAAbdP8WHvR9ZqNun+LD3o+sotgAKJeq3FGqd+XpZedVuKNU78vSyUWD7W  
+BV/NfqRY6PeRXPtb4FX81+pFjo95FEkAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAItTvMIEWp3mBsodpuNNDtNwAAAAAAAAAwq0oVoOnUSI  
F7GmZgCDpukaTSzzKULJLc227PRbuJwAAAAAAAAA0VtHRrvFONrv3G8AY06  
cacVGCsS7DIAAAAAAAAAAAAAAAAAAGAwIRTOufr5+7EuZTOufr5+7ECAACAA  
CAAAAAAAAAAAAAAAAAAG3T/Fh70fWajbp/iw96PrKLYACiXqtxRqnl6WXnVbijV  
O/L0sIFg+1vgVfzX6kWOj3kVz7W+BV/NfqRY6PeRRJAAAAAAAAAAAAAAAAABw+  
qdTrwrfLaZqLsXsm1bvumuk9SrVar02oslJRxxmlZatztRn1LpM9RUz9PJRq  
WYZKW5oy6X0qelnKvXkpVWsKw7oo6fz9f9M+d/TZres6fRTdOpibSTIhVtlr  
sVp5HrWnlUyo4nJzqUkrP5qatfr2DW9F0+tm6ITEm0ILC99jtVuwR6Lp46ha  
mOJSUpVFG32cUIZJ7u30nNpG0XXIUoZteLj1HShGK7z4bd95Np9X0s6caqn  
7M1iWx+j17DWui6dUISWJKM82MrfaUuGwmaTS09HSjQpKyEVYgOZq+uRp16d  
CisTIUhTqSa2LF+8zj17T1IUyLZShGU4qzvJbLVwt9Gw2VOi6epXWoeJSxxq  
WJ+y5R3PcZ6bpFDSxnCmmozUIZs9IS32Oy3m2BDo/cNKOMP19QnGdRSeGK7I  
72tu4lvrGmzFTI3K1ReKKtSx9230mEuh6eVOIT9pZKahLZbY9+9NfsNk+k0J  
Vs9Yov2bYwdkZYd1voA16DqU9Vqa9CUMKpNKLs9e3lwOmRtPoqenq1K0LcVV  
qUreFxAJAAAAAAAAAAAAABFqd5koi1O8wNIDtNxpodpuAAAAAAAAAEXXVpUo  
JQ2SIJRTutJRrr0i14YJc7gOfJ1NM1PHKStSkpO0nanUKgk7LXKShFcWalaB  
4IKpNzS3Kyw1KUaqwzVqA5tTqjlStpxsm1J+jCZrqVjjFxtf9uMnu2zVpJe  
ioOKhhVi/eevSUW1JxVqss/DcBq0depVnVjPdGViNdavVpVI+1apTUdyw2XW  
78RNhSjTbcVY5O1+kw+VpYseFW22/iBp1WryKiW1rDKVmzsm9Lq1qMSswuOF  
/hJWo21NPTqu2atdjj+DFOhCk24KxuxP8NwGw5jlU1M5vHKMYycUouzcdMh1  
dDim505uGLvKy0D3RVZzUoTdrG7LzbB9SiqmDC8OKUcVvbFWvYSdPp40I4Y7  
W9rb7Tx6Wk55mFYt9oECPVHilOS/tqCIGPpdhIW6hUcLYRwuNTLitt/cTFoq  
KtsivaVj9B6tJSUcKjstxfjeBjqtQ6EFJK2T2K63jwNGi1FSpTqOpLE4Skk0  
rNyJ5hGjCOJJWYm3Li2Bz49VUYpyi2sKIKVq3N2XHTI/yVCyzArLMP4W2kgA  
AAAAAAAGAwIRTOufr5+7EuZTOufr5+7ECAACAACAAAAAAAAAAAAAAAAAG3T/Fh  
70fWajbp/iw96PrKLYACiXqtxRqnl6WXnVbijVO/L0sIFg+1vgVfzX6kWOj  
3kVz7W+BV/NfqRY6PeRRJAAAAAAAAAAAAAAAAAB5KcYK2TSXERkpK2LTXA4Gvi  
tTrnRrbYRgpQh2O98bDLpiWn1sqFH4Tp45R7lyt2ei1eoDvA4HVOsV9Jqcqn  
FNJQai07amKVjUfR6JGqPwTv8w6GBNqxV4KLxYIRTg/91u+yx9gFkBVf1/W  
/K1NQ4w9nBY7Vsbly4uKk3+Lw+g6Gr1mu09ShS/tOpWIUVntYYpL2du98Xh2  
3doHbBWdZ1LUaKtW9mM6kKMZWpSstcrG7LXsW/8AeRKHVtRp4VHTaqY9RUjm  
vuJJKyy2Sik+z2uYFxBp0ISpVownWiozatlFO1c0bgAAAAAAAAAAAAAAAAABF  
qd5koi1O8wNIDtNxpodpuAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAGAwIRTOufr5+7EuZTOufr5+7ECAACAACAAAAAAAAAAAAAAAAAG3T/Fh70f  
Wajbp/iw96PrKLYACiXqtxRqnl6WXnVbijVO/L0sIFg+1vgVfzX6kWOj3kV  
z7W+BV/NfqRY6XeRRJAAAAAAAAAAAAAAAAABF1fT6GsSVaNRW5rY1+J7pNDR0c  
XGjGy3a3vb9LJIawJ7RYrbe0ADzCrj2wABYjzCt1h6AAAAAAAAAAAAAAAAAAAA

AAEWp3mSiJU7zA20O03Gih2m8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAYD3AQimdc/Xz92Jcymdc/Xz92IEAAEAAEAAAAAAAAAAAAAAAAANun+  
LD3o+s1G3T/Fh70fWUWwAFEvVbijVO/L0svOq3FGqd+XpZKLB9rfAq/mv117  
5wPtb4FX81+pFgSt2FGebIZ0j3llwGRLgB5nSGdl9yJcBkS4AeZ0hnSPciXA  
ZEUAHmdlZ0j3llwGRLgB5nSGdl9yJcBkS4AeZ0hnSPciXAZEUAHmdlZ0j3ll  
wGRLgB5nSGdl9yJcBkS4AeZ0hnSPciXAZEUAHmdlZ0j3llwGRLgB5nSGdl9y  
JcBkS4AeZ0hnSPciXAZEUAHmdlZ0j3llwGRLgB5nSGdl9yJcBkS4AeZ0hnSP  
ciXAZEUAHmdlZ0j3llwGRLgB5nSGdl9yJcBkS4AeOrJ9prNroyRqA9Ta2ozz  
pGEYuTsrsyJcAPM6QzpHuRLgMiXADzOkM6R7kS4DIIwA8zpDOke5EuAyJcAP  
M6QzpHuRLgMiXADzOkM6R7kS4DIIwA8zpDOke5EuAyJcAPM6QzpHuRLgMiXA  
DzOkM6R7kS4DIIwA8zpDOke5EuAyJcAPM6QzpHuRLgMiXADzOkM6R7kS4DII  
wA8zpDOke5EuAyJcAPM6QzpHuRLgMiXADzOkM6R7kS4DIIwA8zpDOke5EuAy  
JcAPM6QzpHuRLgMiXADzOkeSqSIsZIkS4HkqUoq0DWUzrn6+fuxLmUzrn6+f  
uxAgAAgAAgAAAAAAAAAAAAABt0/xYe9H1mo26f4sPej6yi2AAol6rcUap35e  
ll51W4o1Tvy9LJRYPtB4FX81+pFjpd5Fc+1vgVfzX6kWOj3kUSQAAAAAAAAA  
AAAAAACsy1nUfm8FkrMdVYMHsYFBom8Vn8z3+1yAszaW17jxST2Jq3eVhT1  
eq0VeNV1HLLtadNR9vtjF9q/2+iRrktbRjTjp1JyjplTScI2qWLu24exfy+t  
7QLYCrS1vUnTIUipYHUHfSw2SULNtiw7+3BLgjoarU6rT9KdapJZ8Yp44rj  
sdklvs37N/YB2QVenreoSo4vadPNgs3B7eW+81Gy/wD0bjPS1up6mdGnUk6W  
KjinLLT24tnok42ej+kCy4lbZbtBwFQq0up1a2KeFUNk3DFG27YlbZvsTT4m  
3oFfVvoz+bxuUXhxSSjGXGKwxlz/APQHaAAAAAAAAAAAAAAAAAIIvMlkWp3m  
BnQ7TeaaHabgAAAAAAAAAAAAAAAAAcfrmo1VHL+XxKDzMcORxSxKPsKyx7G9+z  
8UB2A3ZtZUvnupxsn7bwwovDI7G5d632beTVh7qdT1CdadKanhI8xFwUPZwK  
n/bsdm+Tt/m37LEBbE01atwKjRr9R09OjSpRkkoUsEcGyTt9rFdZ6YkmGv1i  
6jCjVv4xIVqxy8Kw5cYpwadnbt9r8EBZQcDqmq19PU4dOnhshlpRtjNt+1i  
fZYuMTVT1WverVCbmoutWTagrMvCsv2rLL+N4FkUILc7QU2hU1Gg01KOOdPM  
1Eoy9IW4eCwvf6HwN1bXdVhRhOSkpSo7owt/uY9lqsdjclHtsXC3YBbMStst  
2g4OioVfqcq03Ox0YbWlY3/Tu7N953gAAAAAAAAAAAAAAAAAHuAYElpnXP18/di  
XMpnXP18/diBAABAABAAAAAAAAAAAAAAAAADbp/iw96PrNRt0/xYe9H1IFsABRL  
1W4o1Tvy9LLzqtXRqnl6Wsiwfa3wKv5r9SLFSaUk2V37W+BV/NfqRYqStkr  
SiRmRvGZG89wq5DCrKB5mRvGZG89wq5DCrKB5mRvGZG89wq5DCrKB5mRvGZG  
89wq5DCrKB5mRvGZG89wq5DCrKB5mRvGZG89wq5DCrKB5mRvGZG89wq5DCrK  
B5mRvGZG89wq5DCrKB5mRvMK0aVeDp1EpQe9M2YVchhVYAxjKEUoppJbEe5k  
bz3CrkMKuQHmZG8Zkbz3CrkMKuQHmZG8Zkbz3CrkMKuQHmZG8Zkbz3CrkMKu  
QHmZG8Zkbz3CrkMKuQHmZG8Zkbz3CrkMKuQHmZG8Zkbz3CrkMKuQHmZG8Zkb  
z3CrkMKuQHmZG8jTdsmyVhVyltTZJgbKMkrbTbmRvNVBJ22m7CrkB5mRvGZG  
89wq5DCrKB5mRvGZG89wq5DCrKB5mRvGZG89wq5DCrKB5mRvGZG89wq5DCrK  
B5mRvGZG89wq5DCrKB5mRvGZG89wq5DCrKB5mRvGZG89wq5DCrKB5mRvNKoU  
FVddRjmPzi7f/NhvWq5DCrKB5mRvGZG89wq5DCrKBq06NZxdRKTg8Ubex3m  
zMjee4VchhVyA8zl3jMjee4VchhVyA8zl3jMjee4VchhVyA8zl3jMjee4Vch  
hVyA8zl3jMjee4VchhVyA8zl3jMjee4VchhVyA8zl3jMjee4VchhVyA8zl3h  
zjee4Vcg4q5AQymdc/Xz92Jcymdc/Xz92IEAAEAAEAAAAAAAAAAAAAAAAANun+L  
D3o+s1G3T/Fh70fWUWwAFEvVbijVO/L0svOq3FGqd+XpZKLB9rfAq/mv11sd  
Hvlrn2t8Cr+a/Uix0e8iiSAAAAAAAAAAAAABr1FXJpTqf0xILdbuV2z1oDYDi0  
vuKhZFMVrjCUppNkVj3fzN+s7QAGjWaynoqTrVbcKu3sg/XtN7OyVrdWLjY  
rYypK2Se27dZaB1QcWPW5VdTQpUoN0q0HO1r2v8AI2dv7DtAAAAAAAAAAAAA  
AAAAAAAAAAAAACL7zJRFqd5gbKHabJTQ7TcAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAMBgQimdc/Xz92Jcymdc/Xz92IEAAEAAEAAAAAAAAA

AAAAANun+LD3o+s1G3T/ABYe9H1IFsABRL1W4o1Tvy9LLzqtxRqnfl6WSiwf  
a3wKv5r9SLHR7yK59rfAq/mv1IsdHvlokGAAAAAAAAAAAYVqUa0JU5d2ScX6G  
ZkbqGsWioSrtYsNns7rbWl+8CG/t/SNYbJWWQj3uyG46pXpfcDWMcT0+xbfi  
f/U7unqqvShVSsU4qVnpVpbLPaSy+mOr0IPV03Rqq2LIUuh6WUFCyVqIOeO3  
2m57JbeKOIJ4U3cV6n9yVKkVOGnti939z/6iS30W57dWj0uhRISnG22jFwht  
7GTSH03XfP0c7Dg2uLjbbuJMa1OVqjJPD3rHu9NxFZg1/MUsGZjig/qxKzme  
fNUblccblLe8t24DaCPHWU5OdrwqDScpNWbfx9dhhHqNGVeOmi8UpQdROO2N  
idm8CWCHT16q6mWnpRxKmv7k7bML7FZ2s3LWUGm1UhYt7xIDcCPX1IGhRdec  
lgSbtTW2y69kV9aoRp5rUIFqElutePcrLd/psA6QIUeoWalaarFwc1ipO23F  
Z3lwa/H0k0AAAAAAAAAAAAABFqd5koi1O8wNIDtNxpodpuAAAAAAAAAAAAADI1uv  
6SjOVKUpYovDKyEnt5EnRdSoa7FkNvBZitTW/wBJVZ6inS1FeM5JPNnv9J0/  
tycalbUSi7V/a2+l6XiTmdb5/DM6u4sRhnQzMrEsdmLD22XIZraLXz1EpW1c  
DrS3VZJZdmzYpXmqdDq06TtzMeQo7J2e2qqe/B23dpzaW4HC1Wg1UciNGrV  
dtTFWnj2pWXD2xXYbDV1LR66E4Q0sqkoRppQljdqqY1bKe32lhvxK6KAsQOL  
odHqZV6tTUzqKMZ204KfsvZ6v9Pd4GHRqOrhXqvUZjg3bTnVm7dvZgUnDZek  
uTsQd0HAq0dX9QdRZkqFn808EY2XKL9r/dHb23nN6Wuo6jTSqUZz9qk1iqTt  
xVMctsbbsPZ2dm3mBavnaGLBmRxYsFlu3Fd6TOIXp1rcuSlhbjKx22NdhVdL  
odbTqYoxqRjKvCUrZ7XDDtxe07dt9p1uiaTUaXpypTtjVsnhjKz2W27N3Pbb  
v/ADsGurXp0UnUkoptRWJ2bX2FXjpOqyoVUpTUsMO9Pa5qVssLt2JrZZsXAY  
r6DV6ulJ11G/msclynupP8A3WbOy7sAtR5KSim3sS2sq9F6up1GpGjKeGnW  
hitm3BU8O1WN732bPxR5pNH1BvK1GY4qlVhJ5jslPE3Frbbus2/gBZ6VWFaK  
qU2pRe5rcZnO6Hpp6XR06VRNTS9pN22P/wAu2HRAAAAAAAAAAABgMCEUzrn6+f  
uxLmUzrn6+fuxAgAAgAAgAAAAAAAAAAAAABt0/xYe9H1mo26f4sPej6yi2AA  
ol6rcUap35ell51W4o1Tvy9LJRYptb4FX81+pFjo95Fc+1vgVfzX6kWOj3kU  
SQAAAAAAAAAAAAOd1ylOtoqkKcXKTW2RW/ZJM6lApdVV503BUKtrVnw2WzQwdP  
T0oSVklCCa4plka313e/bM5k9Maiti0rmUvSw1FGlGnKhVtirHZZTdgOe7x5  
hZL7cnoNGpT0jjUi4ScpuySse0h0vt+rGjOhKcVbCUlzSeN2zcrZertLEDDS  
ux6BWULcccebGrg24PZ2Wfj6DQvtquqMKWOFsKcoW7drdTft2d2z9paQBxZd  
ArOUqilG11adVR24XgVlj/8AGbOldDq6GpSqTIFqnTnTdlu+U3L953gByYaG  
rQ1Fdxip09QrW27MMkrLH22O9bTj1ui6jS6TKjZUtrQICEE3hixdltn4FuAF  
aqfbtZ0oxU4uSrzYytwrNjZs93s2GEvtqtKLi5x2qhHt/wDxKx8+wtAA5ctF  
Ura6nWawUtPGShhtc3JWfglx2nUAAAAAAAAAAAAAARaneZKIItvMDZQ7TcaaH  
abgAAAAAAAAAAAA1y09KTtlCLfFlyhThT7iS9CsMgAAAAAAAAAPlxUFZFJK5H  
oAAAAAAPFCMW2kk3vPQAAAAAAAAAAAAABgMCEUzrn6+fuxLmUzrn6+fuxAgAH  
Q0PTHrIOalhsnCnut7xBzwd19Dc1CEXFP+9ilY7bKcrO2Vnoss4muPQnJySq  
RaUqcLUre/8Aj2XAcYE/XdNejhGblixSqQ3WdyWH9pO+3umabWwqSrwUmpWK  
0DhAuT6Doc5Qylhw22HN+4OI6XR0I1KEFGTnFWoDi6XSVdZUyqKTklbtY1Wk  
q6OpIvklJq3Y7Sf9u1VS1bbtfsWbPSe/cVVvdWmk17Fm30gRNF0vU66LnQSc  
U8O12G2r0PXUnY4W+77XqO19sQU9LLF2VWwywqEcxy7WkjH284uRQPpGt8t+G  
X8DW9BqVbbHu79+z9hf1RhIxj2Jqw5Wr31/TL/ghz19iqZF2pM3af4sPej6z  
RT7qN+n+LD3o+s2i2AAol6rcUap35ell51W4o1Tvy9LJRYptb4FX81+pFjo9  
5Fc+1vgVfzX6kWOj3kUSQAAAAAAAAAAAAANWp1NPS03WquyEd7Npy/uH9BU/wBn  
/OIGH+R6H+uX/wDOF8Dq06kakVOLtjJp8GUmVq6LpSSkrbC39O/S0fy4f8A  
FHTvic5l1nm6kt2K1nl/yPQ9k5P0U5fwOrU7j9DKNotVShQhGUkmltQ44nVy  
3Dq4umk1dLWU82i7Y7t1nrN5xftx26NuPbOdzhKVDq1s9tTHITcpew6mZ/K  
rbF7G6xlXWlqhWp1HKMJJuLskk9z4idanCUYSklKfdTe12XFUoaPW01UIGNS  
MZ1acp+1/clCzbY7bd/E20On6ur8jPUKo5wiUzW5u1K14e3/AMWx7CCzVK1O  
k4qclFyeGNrstdyMzk9Y0cq9XS1KcMThWi5Suj2/gdYAAAAAAAAAAAAAAAAAAAA

AABFqd5koi1O8wNIDtNxEjJxdqM898AJANGe7kM93IDeDRnu5DPdyA3g0Z7u  
Qz3cgN4NGe7kM93IDeDRnu5DPdyA3g0Z7uQz3cgN4NGe7kM93IDeDRnu5DPd  
yA3g0Z7uQz3cgN4NGe7kM93IDeDRnu5DPdyA3g0Z7uQz3cgN4NGe7kM93IDe  
DRnu5DPdyA3g0Z7uQz3cgN4NGe7kM93IDeHuNGe7kYyquSsA1IM65+vn7sS5  
IM65+vn7sQIBuoaurprcqTjbvsNIIJMddXjhSm/YxYf92/mKeur0pOcJtOW+  
wiJuW2MZNxqJ7bL+iXhYG/UaqrqWnVk5WbjdoOqV+nqUaKi1J2vEQcUv6ZeF  
i2X9EvCwOu/uHVueZZC1Kw0a/q2o18FTqqKimpezwlFsv6JeFnmJ/wBMvCB2  
Pt2rClq3Ko1FYN79I+4qsKurjKm1JYLLV6TjP2t8JP8A2iKa3Qkv9oFo+3NR  
Tp6ZxnKMXmN+00th3VrqGNvNhZYv50OXPFA6b8J5hj5b8JM+R9EWso4lrMh  
amrfbX8TkaupTqSrSjKLtezbG5f6k/2MqWgK3waXGJllwuXISYPafdRv0/xY  
e9H1mrcbdP8AFh70fWUWwAFEvVbijVO/L0svOq3FGqd+XpZKLB9rfAq/mv1I  
sdHvlnr2t8Cr+a/Uix0e8iiSAAAAAAAAAAB5KKmsMkmn2M9PJSUVbJ2JdrA1  
fKUPLh4UbkkTiNXzVH+uPiRtTt2oAafIKD//ABw8KNxq+ao/1x8SA2QhGCwx  
SSuR6eRnGati01ej0AAAAAAAAAAAAAAAAAAAAAAAAAARaneZKItvMDFJvYjP  
KlcZUO03gRsqVwypXEkARsqVwypXEkARsqVwypXEkARsqVwypXEkARsqVwyp  
XEkARsqVwypXEkARsqVwypXEkARsqVwypXEkARsqVwypXEkARsqVwypXEkAR  
sqVwypXEkARsqVwypXEkARsqVwypXEkARsqVwypXEkARsqVwypXEkARsqVwyp  
pXEkARsqVx46co70Sg9wElpnXP18/diXMpnXP18/diBADAZBbvjtjD8jBt9s/  
+R1JQhZbjf7DkfbCYS0EE97c9v4k3TaSVOM1WmpNv2eBRLhIWYbbWu1o9cqa  
tVu1cDRT09tS2WFRSs2PeePTNzXdUV227wqU8F6/YeNUn2r9hQ9QRHkXJtyn  
a/8AdsPKUluHtWW+1v8ARsCL7hpXr9g/t3r9h88s/t2/zYv2WGckpw9jf7PC  
+0D6FbS3Oxj+1cig0sMZQT73sdnHaXqWmg91j4MDifdKh8qnH+uJVyz/AHRT  
hDSJRW3HErBKBt0/xYe9H1mo26f4sPej6wLYACiXqtxRqnfl6WXnVbijVO/L  
0slFg+1vgVfzX6kWOj3kVz7W+BV/NfqRY6PeRRJAAAAAAAAAAAAA5nX9uhqLjD  
/nE6Zq1Omp6qm6NVWwlvX7QK7qen6eNCUITimo7zvdO26Wj+XD/iiE/t7RvY  
1Oz8yX8TqU6caUVCoyMUopcEAqdx+hIW6ZoNPU01Oc4Jya2tlatVjOSvt7R  
rYIJK5VJfxA86AsGikorYqk7EcqI9xaqTn7MZSVKdTKSeKEo1MOGXoXtPYiy  
6TSUtHTyqKsjbbvt3m+xAU7S9Vr03VmpqSnWpxdV9yCa377LOzebaeu1Otlo  
K0pqlqSsqSitnsV03cntLZYrhYgOP1yvQoRhKtJudtIOkp4FJvZbJ7LEr7bE  
S+kxcNLTi6qrNKzMi7U/x7bN34E1pPeLAAAAAAAAAAAAAAAAAAAAAEWp3mSi  
LU7zA2UO03Gig95vtQAC1C1AALULUAAQtQAC1C1AALULUBxur9Tq6SrCnBx  
hGUZSszJptNr+XZ2+i18DmQ6IX0+uqyTthOrp6UoO3Zjg91u6xrdh28C1uxjZ  
wAqcvuLVYpqqCahVlluPtQcNye39yM117VNzfsY8zTxx4dllaDlut7LL9paf  
Z4DZwAq0vuDVyp0nCMVKWNOcrFFyJ2e04pW+lvgyf0qrUqa7VqpamIQ9i21R  
bhtSO17PAWoCr/5BqransxtjGrLDY7aeDdi97/aS6nUdZR0kdVUwf3HSswp2  
QjJbZS3dvZsS/qZ3dnAWoCm6Xq+q0+nhGnZLHOR/AHKjWG1blbKSSt970JnY  
0+u1up1dTTpQhGmqMp27WsUbZJWbHt7dn4na9ngLUBT4da1NOFIPCv1E3anL  
4e3tl2kiv9w6hVIYVGEZKq1GStclVvsmns7u7cy0ezwl2o0VHUTjOra8FjUc  
Tw2rtw7gJQFqFqAAWoWoABahagAFqFqAAWoWoAGLUeNoCGUzrn6+fuxLmUzr  
n6+fuxAgAAgXUXHZGUkrLYLJf1y8TMgB57f9c/ExbP+ufiZ6ANeSn2vmeZK  
vfM2gDXkq98zzJV75m0Aa1RS7XzNltZj+JgAeSUpd+UpK6UrT0AAbdP8WHv  
R9ZqNun+LD3o+sC2AAol6rcUap35ell51W4o1Tvy9LJRYptb4FX81+pFjo95  
Fc+1vgVfzX6kWOj3kUSQAAAAAAAAAAAAAOf1qrOlo5zpycZewlJb9skgOgCsV9  
PVp0pVFqKtqVvfZ39DN1NPSnJ2ylCdb4tASAYzdkW1cysaGIW1NCFWderikr  
XZNgWkHL6JVnPTN1ZObjOccUtrsRFh9zUpWydOShgIVjK3fFTwbuy1gd4Fc0  
3XqmOoqsbW6sKdKCs/mVu1mX1utqJ6SdCFIOu5qSbVrwuz8LN/7ALCCDr5Vo  
4XSnhX8yjFSm/Qn+0dH1U9ZpKdarY5yW3Du+/b+IE4AAAAAAAAAAAAAAAAAAAA  
CLU7zJRFqd5gZUYqVtpuyo3Guh2m4DhKjcmqNxmAMcqNwyo3GQAxYo3DKjcz





qaswOIY237LeKzfftt3k8AQldG0kGnGntUsdrlJ+0u3azz6JosODL9nDI96X  
dxYrN/8AVtOgAl0NBQp1HVhHDJqX2Sdj7NqtsfpatND6Lo3CFJ0/Yh3Y4pYd  
7e62x7W950ABpraSIXwOpG3Lkpw7LGtxpj0vTRqKqoe2pyq22vvy3vf2kwAR  
NR03T6qaqVo43FppOTw7P9NuH9hthpaVOrOvGNISpYpyvw7jcAAAAAAAAAAAA  
ABgMCEUzrn6+fuxLmUzrn6+fuxAgAAgAAgAAAAAAAAAAAAABt0/xYe9H1mo2  
6f4sPej6yi2AAol6rcUap35ell51W4o1Tvy9LJRYPt4FX81+pFgTsdqKj0L  
qVPROdGu8MZYxxl2Fg+raPzoeJFHUz+Az+By/q2j86HiQ+raPzoeJAdTP4DP  
4HL+raPzoeJD6to/Oh4kB1M/gM/gcv6to/Oh4kPq2j86HiQHuz+Az+By/q2j  
86HiQ+raPzoeJAdTP4DP4HL+raPzoeJD6to/Oh4kB1M/gM/gcv6to/Oh4kPq  
2j86HiQHuz+Az+By/q2j86HiQ+raPzoeJAdTP4DP4HL+raPzoeJD6to/Oh4k  
B1M/gM/gcv6to/Oh4kPq2j86HiQHuz+Az+By/q2j86HiQ+raPzoeJAdTP4DP  
4HL+raPzoeJD6to/Oh4kB1M/gM/gcv6to/Oh4kPq2j86HiQHuz+Az+By/q2j  
86HiQ+raPzoeJAdTP4DP4HL+raPzoeJD6to/Oh4kB1M/gM/gcv6to/Oh4kPq  
2j86HiQHuz+Az+By/q2j86HiQ+raPzoeJAdTP4DP4HL+raPzoeJD6to/Oh4k  
B03XuRqbtIP1bR+dDxlfVtH50PEgJ8JuDtRtz+By/q2j86HiQ+raPzoeJAdT  
P4DP4HL+raPzoeJD6to/Oh4kB1M/gM/gcv6to/Oh4kPq2j86HiQHuz+Az+By  
/q2j86HiQ+raPzoeJAdTP4DP4HL+raPzoeJD6to/Oh4kB1M/gM/gcv6to/Oh  
4kPq2j86HiQHuz+Az+By/q2j86HiQ+raPzoeJAdTP4DP4HL+raPzoeJD6to/  
Oh4kB1M/gM/gcv6to/Oh4kPq2j86HiQHuz+Az+By/q2j86HiQ+raPzoeJAdT  
P4DP4HL+raPzoeJD6to/Oh4kB1M/gM/gcv6to/Oh4kPq2j86HiQHuz+Az+By  
/q2j86HiQ+raPzoeJAdTP4DP4HL+raPzoeJD6to/Oh4kB1M/gM/gcv6to/Oh  
4kPq2j86HiQHuz+Az+By/q2j86HiQ+raPzoeJAdTP4DP4HL+raPzoeJD6to/  
Oh4kB1M/gYrNqXKw5v1bR+dDxlfVtH50PEgJpTOufr5+7EssusaOKtzoP0S  
tKjrdUtZqZ10rluxR9CA0nb6d0Fa2gq7qqFrw2Ybf3o4hY9PWUOkOx2SU7Vz  
IOXLpdSOs+T/AJrbMVnZfyJvUOgLR0JV1VU8LSsw2dvpZ2VrdPKiupOzNUMF  
nH/5/YQlqIT6Zire1bUUpxT2tYkBVzq9O6M9ZSIWnUVKCDlrVtv7UZTlodTZ  
S09KUakmkpSkrEdnW1NDRoR0VSo4qKTeBW2gV3qfTpdPq5cniTVqlZZabOpd  
L+RhTljxZit3WWftO3rvl+paL+zPFOjuctjdh7rNLT6tQoulVjFwVjxAcPQd  
L+dpVKuPDI9lItv7SbT+3oOjCtU1Cgprtj/9idp9PT6VpayqVYyINbFEy1Gi  
XUNFRpxqRi47XiAgL7chUi3Q1EZyStsUf/blk+jSjpPmse23Dgw9ttm+39x2  
emaCPSnOtVqwacbNjMKmoh9MUrf51Kzt79oESX23Ckln6iMJNbsP/tGFX7eS  
ozrUK0auBwtJXfizpdV6dHqk41qVWCWGzazzS6aHSdLXzasZOcdmH0P+IFRN  
un+LD3o+s1G3T/Fh70fWBbAeAomapbCjVO/L0svep3FMrd59zeyUQ2k955lx  
uXI3P/aecgNWXG5chlXuXI28hyA1ZcblyGxG5cjbyHIDVlxuXI28hyA1ZcblyNvlcg  
NWXG5chlXuXI28hyA1ZcblyGxG5cjbyHIDVlxuXI28hyA1ZcblyNvlcgNWXG5chlXu  
XI28hyA1ZcblyGxG5cjbyHIDVlxuXI28hyA1ZcblyNvlcgNWXG5chlXuXI28hyA1Zc  
blyGxG5cjbyHIDVlxuXI28hyA1ZcblyNvlcgNWXG5chlXuXI28hyA1ZcblyGxG5cj  
yHIDVlxuXI28hyA1ZcblyNvlcgNWXG5chlXuXI28hyA1ZcblyGxG5cjbyHIDVlxuXI  
ZcblyNvlcgNWXG5chlXuXI28hyA1ZcblyGxG5cjbyHIDVlxuXI28hyA1ZcblyNvlcg  
NWXG5chlXuXI28hyA1ZcblyGxG5cjbyHIDVlxuXI28hyA1ZcblyNvlcgNWXG5chlXu  
XI28hyA1ZcblyGxG5cjbyHIDVlxuXI28hyA1ZcblyNvlcgNWXG5chlXuXI28hyA1Zc  
blyGxG5cjbyHIDVlxuXI28hyA1ZcblyNvlcgNWXG5chlXuXI28hyA1ZcblyGxG5cj  
yHIDVlxuXI28hyA1ZcblyNvlcgNWXG5chlXuXI28hyA1ZcblyGxG5cjbyHIDVlxuXI  
ZcblyNvlcgNWCNy5GRnyHIDAGfciDAGfclgMAZ8hyAwBnyHlowBnyHIDAGf  
lcgMAZ8hyAwNun+LD3o+sL/aSNN8SPc7y9YFksBmCj//2Q==

---=\_linux469adaa2--

Subject: Re: DJ and people with complex setups  
Posted by [wireline\[34\]](#) on Mon, 16 Jul 2007 13:19:00 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

I know its blasphemy...but...

At some point the intricacies of relying on digital connection, innumerable ADDA, etc., seem to fall into the realm of major risk taking...

Again, just an opinion, but even with the wart infested Samp 9, having a dedicated console eliminates almost ALL routing issues...true zero latency monitoring, effects to cue sends, and no drivers to worry about...

Just food for thought...

"Gene Lennon" <[glennon@NOSPmyrealbox.com](mailto:glennon@NOSPmyrealbox.com)> wrote:

>  
>I have a ProFire Lightbridge. I use it for all kinds of stuff including  
Pro  
>Tools-M where it does give 34X34 up to 48K, or 18X18 at 96 (PT 7.3.1). It  
>has a headphone out but it only chases SPDIF out. Latency goes down to 256,

>it into my main I/O for sends to and from Paris or a V-stack PC. It has  
no  
>internal direct monitor system or any internal mixing. I have not had any  
>of the clock issues talked about at Gearslutz. It makes PT-M a viable alternative  
>to HD if you are mixing analog and it has been a good purchase for me coming  
>in handy many times. It does work with the Core Audio Aggregation tool along  
>with my MOTU PCIe rig.

>  
>Gene

>  
>  
>"James McCloskey" <[excelsm@hotmail.com](mailto:excelsm@hotmail.com)> wrote:

>>  
>>Hey Dedric, I have no experience with the Pro Fire Lightbridge. I was  
following  
>>the user reports on gear slutz awhile back. Most reports were good, but  
>>someone didn't like something about the way the monitoring is set up, or  
>>some thing. You might want to read up on those threads. Also, early on,  
>>some didn't like that there are only 18 I/O available in PT. They may  
have  
>>changed this by now. All other software can utilize all of the I/Os, such  
>>as Nuendo, Cubase, etc.

>>  
>>"Dedric Terry" <[dterry@keyofd.net](mailto:dterry@keyofd.net)> wrote:  
>>>----- Original Message -----  
>>>From: "James McCloskey" <[excelsm@hotmail.com](mailto:excelsm@hotmail.com)>  
>>>Newsgroups: IDEA.EMUEnsoniqPARIS

>>>Sent: Sunday, July 15, 2007 5:35 PM  
>>>Subject: Re: DJ and people with complex setups  
>>>>  
>>>> I don't think it's FW, the Pro Fire Light bridge will do 34x36.  
>>>> [http://www.m-audio.com/products/en\\_us/ProFireLightbridge-main.html](http://www.m-audio.com/products/en_us/ProFireLightbridge-main.html)  
>>>>  
>>>>Hi James - Any experiences with this unit to report (drivers, latency,  
>>>>  
>>>>integration with PCI audio cards)? M-Audio never had a great rep for  
>>>>drivers and quality, but I know Lamont gave it a thumbs up, so it seems  
>>>>  
>>>>worth considering. I could use an extra 4 lightpipe ports. I've been  
>>>>  
>>>>reluctant to put as much weight on firewire as PCI/PCle so far, but would  
>>>>  
>>>>like to be able to implement something like this.  
>>>>  
>>>>Regards,  
>>>>Dedric  
>>>>  
>>>>>>  
>>>>>>> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:  
>>>>>>>> If the driver will suport two + units, it might be a monster with  
>>>>>>>>a  
>>>>>>>> dedicated 4 x port FW PCle card, especially if you can further  
>>>>>>>> merge/interpatch within the software control panel. I'd probably  
>>>>>>>> look  
>>>>>>>> pretty  
>>>>>>>>  
>>>>>>>> hard at this if the price was right. I'm currently doing pretty much  
>>>>>>>> what  
>>>>>>>>  
>>>>>>>> this will do using 4 x Behringer SRC 2496 units along with an RME  
>>>>>>>>  
>>>>>>>> ADI4-DD  
>>>>>>>>  
>>>>>>>> for real time SRC for two of my outboard reverbs and interpatching  
>>>>>>>>  
>>>>>>>> various  
>>>>>>>>  
>>>>>>>> other I/O through a Frontier Apache and M-Audio C03 units to connect  
>>>>>>>> the  
>>>>>>>>  
>>>>>>>> other digital processors, SMUX I/O of my converters and the I/O of  
>>>>>>>> my  
>>>>>>>> slave

>>>>>  
>>>>>> computer with the free I/O of the master computer. It's a daunting  
>>  
>>>>>> scenario.  
>>>>>>  
>>>>>> I have written an I/O sheet (small manual) for this that I have  
>>>>>> memorized  
>>>>>>  
>>>>>> and the faceplates of the gear are all labelled as well. Same thing  
>>  
>>>>>> with  
>>>>>> all  
>>>>>> of the midi I/O I have here. There's a lot of it and it is interpatched  
>>>>>>  
>>>>>> through an Ensoniq KMX-16. This is only about half as insane as  
things  
>>>>>> were  
>>>>>> when I was integrating Paris with the Cubase DAW. I watched the entire  
>>>> video  
>>>>>>  
>>>>>> demo and this looks like they were reading my mind.....which may  
be  
>>why  
>>>>>> they  
>>>>>> stopped before it got too complex and twisted....but there is no  
midi  
>>>> I/O  
>>>>>> on  
>>>>>> this interface, is there? Didn't see any. That may be a show stopper.  
>>>> Does  
>>>>>>  
>>>>>> anyone make a decent (large) midi interface now that Steinberg  
>>>>>> discontinued  
>>>>>>  
>>>>>> the Midex?  
>>>>>>  
>>>>>> ;o)  
>>>>>>  
>>>>>>  
>>>>>> "Dedric Terry" <dterry@keyofd.net> wrote in message  
>>>>>> news:C2BFAA72.B6CD%dterry@keyofd.net...  
>>>>>>> Since you can daisy chain the Konnekt interfaces via TCNear  
>>>>>>> networking,  
>>>>>>>  
>>>>>>> and  
>>>>>>> this one has it as well, I would guess Konnekt 32 can as well, but  
>>the  
>>>>>>> I



>>  
>

---

Subject: Re: DJ and people with complex setups  
Posted by [gene lennon](#) on Mon, 16 Jul 2007 14:26:28 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Its not blasphemy...but...

I have a couple of DAW options including Paris and I can always strip back if I run into trouble.

It is very rare for me to have someone standing over me that pays the bills so I have freedom to experiment and the only risk is lost time. Experimentation tends to be one of the casualties of modern record production as most people look to keep costs low and efficiency high. I like to play.

Most of the time even my most convoluted rigs work fine if I stay within known limitations.

Gene

"wireline" <nospamken@wirelinestudionospam.com> wrote:

>  
>I know its blasphemy...but...  
>  
>At some point the intricacies of relying on digital connection, innumerable  
>ADDA, etc., seem to fall into the realm of major risk taking...  
>  
>Again, just an opinion, but even with the wart infested Samp 9, having a  
>dedicated console eliminates almost ALL routing issues...true zero latency  
>monitoring, effects to cue sends, and no drivers to worry about...  
>  
>Just food for thought...  
>

---

Subject: Re: DJ and people with complex setups  
Posted by [DJ](#) on Mon, 16 Jul 2007 19:31:44 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

"Gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message  
news:469b8014\$1@linux...

>  
> Its not blasphemy...but...  
>

> I have a couple of DAW options including Paris and I can always strip back  
> if I run into trouble.  
>  
> It is very rare for me to have someone standing over me that pays the  
> bills  
> so I have freedom to experiment and the only risk is lost time.  
> Experimentation  
> tends to be one of the casualties of modern record production as most  
> people  
> look to keep costs low and efficiency high. I like to play.  
>  
> Most of the time even my most convoluted rigs work fine if I stay within  
> known limitations.  
>  
> Gene  
>

Limitations???....there are limitations???

;oD

---

Subject: Re: DJ and people with complex setups  
Posted by [Chris Ludwig](#) on Mon, 16 Jul 2007 21:37:05 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

HI DJ,  
With Core Audio method of multi-card use just like ASIO4all functionality the poorest performing card latency wise will be the limitation of what your system can do. Core Audio need to keep the driver buffers all aligned so if one card can only go as low as 256 then that is as low as you can go even if you other card can go lower on its own. The we get into various sound cards method of reporting AD/DA latency if they report it at all. This will mean that when using different brand sound cards you will have the potential to have some tracks being by some samples either coming in or going out to the machine or both.

It is possible to do this with ASIO but the same limitations and issues start to happen. Which is why you see most pro software and hardware companies not supporting this with anything other than their own cards.

Chris

DJ wrote:  
> "Gene Lennon" <[glennon@NOSPmyrealbox.com](mailto:glennon@NOSPmyrealbox.com)> wrote in message

> news:469b8014\$1@linux...  
>> Its not blasphemy...but...  
>>  
>> I have a couple of DAW options including Paris and I can always strip back  
>> if I run into trouble.  
>>  
>> It is very rare for me to have someone standing over me that pays the  
>> bills  
>> so I have freedom to experiment and the only risk is lost time.  
>> Experimentation  
>> tends to be one of the casualties of modern record production as most  
>> people  
>> look to keep costs low and efficiency high. I like to play.  
>>  
>> Most of the time even my most convoluted rigs work fine if I stay within  
>> known limitations.  
>>  
>> Gene  
>>  
>  
> Limitations???....there are limitations???  
>  
> ;oD  
>  
>

--

Chris Ludwig

ADK Pro Audio  
(859) 635-5762  
www.adkproaudio.com  
chrisl@adkproaudio.com

---

Subject: Re: DJ and people with complex setups  
Posted by [Chris Ludwig](#) on Mon, 16 Jul 2007 21:50:33 GMT  
[View Forum Message](#) <> [Reply to Message](#)

Hi Dedic,

Dedic Terry wrote:

> On 7/15/07 11:28 AM, in article 469a5933@linux, "Gene Lennon"  
> <glennon@NOSPmyrealbox.com> wrote:  
>  
>> On a Mac you can aggregate PCI(e) and Firewire interfaces to build one large  
>> I/O system. Is this possible under XP?



With 3rd party software like ASIO4ALL yes.

>>

>> Gene

>

> Mixed manufacturers? What kind of latency are you getting with sample  
> library VSTi's and mixed firewire/PCIe?

It will only be as low as the weakest card in the system.

>

> My Fireface 800 doesn't have the low latency of the PCI HDSP system, so I'm  
> curious if when mixing the two, latency is subject to the limitation of the  
> firewire interface, or if the Mac/Core audio manages it better than XP  
> might.

As long as the PC is using the proper hardware and is configured correctly then there is no difference in performance.

>

> With XP/PC you can add interfaces from one manufacturer, but I doubt  
> Firewire and PCIe would be elegant - the only time I tried it the Firewire  
> interface was only connected for access to its' control panel - only the PCI  
> interface handled direct I/O.

>

> I also agree with James on the Konnekt - 32x32 would be much more attractive  
> if used as an interface and not just a converter/patchbay, but I fear that's  
> a firewire limitation.

I think the biggest limitation on the unit is the firewire portion. It would be better served with more I/O's. The Dice II chip that they use for Firewire is not very reliable on MAC or PC. They are just starting to be able to sort out compatibility and performance issues.

Chris

>

> Detric

>

>> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:

>>> If the driver will support two + units, it might be a monster with a  
>>> dedicated 4 x port FW PCIe card, especially if you can further  
>>> merge/interpatch within the software control panel. I'd probably look pretty  
>>> hard at this if the price was right. I'm currently doing pretty much what  
>>> this will do using 4 x Behringer SRC 2496 units along with an RME ADI4-DD  
>>> for real time SRC for two of my outboard reverbs and interpatching various  
>>> other I/O through a Frontier Apache and M-Audio C03 units to connect the  
>>> other digital processors, SMUX I/O of my converters and the I/O of my slave  
>>> computer with the free I/O of the master computer. It's a daunting scenario.  
>>> I have written an I/O sheet (small manual) for this that I have memorized  
>>> and the faceplates of the gear are all labelled as well. Same thing with  
>> all  
>>> of the midi I/O I have here. There's a lot of it and it is interpatched  
>>> through an Ensoniq KMX-16. This is only about half as insane as things  
>> were  
>>> when I was integrating Paris with the Cubase DAW. I watched the entire video  
>>> demo and this looks like they were reading my mind.....which may be why  
>> they  
>>> stopped before it got too complex and twisted....but there is no midi I/O  
>> on  
>>> this interface, is there? Didn't see any. That may be a show stopper. Does  
>>> anyone make a decent (large) midi interface now that Steinberg discontinued  
>>> the Midex?  
>>>  
>>> ;o)  
>>>  
>>>  
>>> "Dedric Terry" <dterry@keyofd.net> wrote in message  
>>> news:C2BFAA72.B6CD%dterry@keyofd.net...  
>>>> Since you can daisy chain the Konnekt interfaces via TCNear networking,  
>>>> and  
>>>> this one has it as well, I would guess Konnekt 32 can as well, but the  
>> I  
>>>> would wonder whether the firewire port can handle more than 16 in and  
>> out  
>>>> at  
>>>> the same time.  
>>>>  
>>>> Dedric  
>>>>  
>>>> On 7/15/07 10:16 AM, in article 469a4843\$1@linux, "Gene Lennon"  
>>>> <glennon@NOSPmyrealbox.com> wrote:  
>>>>  
>>>>> Funny, that's the first question I had. That and price.  
>>>>> Gene  
>>>>>  
>>>>> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote:  
>>>>>> Is it possible to daisy chain two of these?

>>>>>  
>>>>> ;o)  
>>>>>  
>>>>> "Gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message  
>>>>> news:469a38a4@linux...  
>>>>>  
>>>>>> TC - Digital Konnekt x32  
>>>>>> Digital router, sample rate converter and Firewire interface with a  
>> few  
>>>>>> tricks.  
>>>>>>  
>>>>>> http://www.tcelectronic.com/Default.asp?Id=11321  
>>>>>>  
>>>>>> Price?  
>>>>>>  
>>>>>> Gene  
>>>>>>  
>>>>>>  
>>>  
>

--

Chris Ludwig

ADK Pro Audio  
(859) 635-5762  
www.adkproaudio.com  
chrisl@adkproaudio.com

---

Subject: Re: DJ and people with complex setups  
Posted by [Chris Ludwig](#) on Mon, 16 Jul 2007 22:12:52 GMT  
[View Forum Message](#) <> [Reply to Message](#)

Hi Aaron,  
The Centrance driver only works with these owner end cards because they almost all use the same 2 Firewire chips on board that all use a generic Firewire communication protocol.

The reason you do not see MOTU or RME cards is they they using a totally proprietary FW communication. This one of the reasons you will see way better performance and compatibility with their devices compared to others.

Chris

Aaron Allen wrote:

> nope,it's not asio4all.....

>

> "DJ" <animix \_ at \_ animas \_ dot \_ net> wrote in message

> news:469ac654@linux...

>> "Aaron Allen" <know-spam@not\_here.dude> wrote in message

>> news:469ac5dd@linux...

>>> I can't remember the name at the moment, but there is a software vendor

>>> out there that does build a generic driver that's supposed to unify to one

>>> driver set. It takes the latency from the slowest piece of hardware you

>>> have in the set. Dang... can't remember the name.

>>>

>>> AA

>>>

>>

>> Aaron,

>>

>> I think this is it.

>>

>> <http://www.asio4all.com/>

>>

>

>

--

Chris Ludwig

ADK Pro Audio

(859) 635-5762

[www.adkproaudio.com](http://www.adkproaudio.com)

[chrisl@adkproaudio.com](mailto:chrisl@adkproaudio.com)

---

Subject: Re: DJ and people with complex setups

Posted by [Neil](#) on Mon, 16 Jul 2007 22:27:06 GMT

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

---

Chris Ludwig <[chrisl@adkproaudio.com](mailto:chrisl@adkproaudio.com)> wrote:

>The Dice II chip that they use

>for Firewire is not very reliable on MAC or PC.

Dice II chip? Is that the chip where all the error prompts start with the phrase: "Hickory-Dickory-Dock..." ?

:D

---

---

Subject: Re: DJ and people with complex setups  
Posted by [Aaron Allen](#) on Mon, 16 Jul 2007 23:15:58 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

As expected. I knew there'd have to be a catch, and that they don't offer a trial driver makes me not want to jump on that bandwagon. My inner voice was telling me to be wary, but dang it that'd be so cool if it flew properly.

AA

"Chris Ludwig" <[chrisl@adkproaudio.com](mailto:chrisl@adkproaudio.com)> wrote in message  
news:469bee8d\$1@linux...

> Hi Aaron,

> The Centrance driver only works with these owner end cards because they  
> almost all use the same 2 Firewire chips on board that all use a generic  
> Firewire communication protocol.

>

> The reason you do not see MOTU or RME cards is they they using a totally  
> proprietary FW communication. This one of the reasons you will see way  
> better performance and compatibility with their devices compared to  
> others.

>

> Chris

>

>

>

> Aaron Allen wrote:

>> nope,it's not asio4all.....

>>

>> "DJ" <[animix\\_at\\_animas\\_dot\\_net](mailto:animix_at_animas_dot_net)> wrote in message

>> news:469ac654@linux...

>>> "Aaron Allen" <[know-spam@not\\_here.dude](mailto:know-spam@not_here.dude)> wrote in message

>>> news:469ac5dd@linux...

>>>> I can't remember the name at the moment, but there is a software vendor

>>>> out there that does build a generic driver that's supposed to unify to

>>>> one driver set. It takes the latency from the slowest piece of hardware

>>>> you have in the set. Dang... can't remember the name.

>>>>

>>>> AA

>>>>

>>>

>>> Aaron,

>>>

>>> I think this is it.

>>>

>>> <http://www.asio4all.com/>

>>>

>>  
>>  
>  
> --  
> Chris Ludwig  
>  
> ADK Pro Audio  
> (859) 635-5762  
> www.adkproaudio.com  
> chrisl@adkproaudio.com

---

---

Subject: Re: DJ and people with complex setups  
Posted by [DJ](#) on Tue, 17 Jul 2007 00:08:53 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

"Neil" <OIUOIU@OIU.com> wrote in message news:469bf0ba\$1@linux...  
>  
> Chris Ludwig <chrisl@adkproaudio.com> wrote:  
>>The Dice II chip that they use  
>>for Firewire is not very reliable on MAC or PC.  
>  
> Dice II chip? Is that the chip where all the error prompts start  
> with the phrase: "Hickory-Dickory-Dock..." ?  
>  
> :D

ROTFL!!!!!! .....

Liddul miss muffin.....

---

---

Subject: Re: DJ and people with complex setups  
Posted by [Aaron Allen](#) on Tue, 17 Jul 2007 00:20:56 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Naw. It's the 2nd coming of Andrew Clay. You'll be speaking like him in no time trying to get the latency down to a respectable level :>

AA

"Neil" <OIUOIU@OIU.com> wrote in message news:469bf0ba\$1@linux...  
>  
> Chris Ludwig <chrisl@adkproaudio.com> wrote:  
>>The Dice II chip that they use  
>>for Firewire is not very reliable on MAC or PC.

>  
> Dice II chip? Is that the chip where all the error prompts start  
> with the phrase: "Hickory-Dickory-Dock..." ?  
>  
> :D

---

---

Subject: Re: DJ and people with complex setups  
Posted by [Chris Ludwig](#) on Tue, 17 Jul 2007 03:22:57 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Yo... the Dice Man Cometh

Aaron Allen wrote:

> Naw. It's the 2nd coming of Andrew Clay. You'll be speaking like him in no  
> time trying to get the latency down to a respectable level :>

>

> AA

>

>

> "Neil" <OIUOIU@OIU.com> wrote in message news:469bf0ba\$1@linux...

>

>> Chris Ludwig <chrisl@adkproaudio.com> wrote:

>>

>>> The Dice II chip that they use

>>> for Firewire is not very reliable on MAC or PC.

>>>

>> Dice II chip? Is that the chip where all the error prompts start

>> with the phrase: "Hickory-Dickory-Dock..." ?

>>

>> :D

>>

>

>

>

--

Chris Ludwig

ADK

chrisl@adkproaudio.com <mailto:chrisl@adkproaudio.com>

www.adkproaudio.com <http://www.adkproaudio.com/>

(859) 635-5762

---