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Subject: HOLY \*\*\*\*\*!!!!!!-what a difference!!!  
Posted by [Deej \[4\]](#) on Mon, 23 Apr 2007 19:41:38 GMT  
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I've been doing some tweaking here this morning aand I just turned off that evil \*\*\*\*\*in SIL SATA raid controller in the BIOS and pulled my Raptors off the mobo.

Something rather shocking has happened.

I am currently playing back a 12 track project with Drumagog and various UAD-1 plugins instantiated (not a huge load, but enough to accomplish some ear candy which is all what I need here during dub sessions before the real mixing begins) while recording 20 live inputs at 64k buffers (1.5ms), punching in and out at will. I can definitely live with 1.5ms latency.

The Cubase 4 CPU meter is bouncing along at approximately 50% usage.

I haven't configured the Control room mode for tracking just yet, but unless creating a few busses is a substantial CPU hit, I may be able to accomplish what I need here with what I've got right now.....of course, this will require me not to spend \$2000.00 on a computer upgrade and that's never good.

;o)

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Subject: Re: HOLY \*\*\*\*\*!!!!!!-what a difference!!!  
Posted by [Tom Bruhl](#) on Mon, 23 Apr 2007 19:55:15 GMT  
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This is a multi-part message in MIME format.

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I have had much better luck with standard ide.

I'm glad you're not bailing so quickly!  
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After all this crap I've gone through, I think may just get myself = another Furman HRM-16 mixer for my desktop so I can monitor the cue mix = that is being sent to the rest of the studio via analog and see if I can = create some kind of macro to switch all all track outputs to the main = monitor bus in the CR when everyone comes trooping in from the tracking = area to listen in the CR.

A bit more mousing around, but it's preferable to hearing latency in the = cans. I won't be able to monitor with FX on pre recorded tracks, but = this is just a fact of life with native systems I guess and isn't a deal = killer. Looks like even the most powerful DAWs will be subject to at = least 0.7 ms + 1.5 ms latency and I can clearly hear this.=20

Maybe my ears are just too friggin' sensitive and this teeny bit of = latency wouldn't bother someone else. It sure bugs me though. I'll get = Amy on the mic later on today and give this a go at 64k buffers (1.5ms). = Her hearing is twice as sensitive as mine. If it doesn't bother her, = then it likely won't bother anyone else....(but me)

;o)

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Posted by [Neil](#) on Mon, 23 Apr 2007 21:29:45 GMT  
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Deej, I just don't get how you're hearing ANY latency at all, unless you have "ZLM" (zero-latency monitoring) unchecked in Totalmix.

I agree, even a little bit of latency bugs the crap out of me if I'm tracking... where exactly is your monitor feed coming from? IMO, you shouldn't hear any latency whatsoever - unless I'm completely misunderstanding your setup (which is, let's face it, quite possible).

Neil

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Subject: Re: HOLY \*\*\*\*\*!!!!!!-what a difference!!!  
Posted by [Neil](#) on Mon, 23 Apr 2007 21:29:46 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Deej, I just don't get how you're hearing ANY latency at all, unless you have "ZLM" (zero-latency monitoring) unchecked in Totalmix.

I agree, even a little bit of latency bugs the crap out of me if I'm tracking... where exactly is your monitor feed coming from? IMO, you shouldn't hear any latency whatsoever - unless I'm completely misunderstanding your setup (which is, let's face it, quite possible).

Neil

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></HTML>  
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Subject: Re: HOLY \*\*\*\*\*!!!!!!-what a difference!!!  
Posted by [EK Sound](#) on Mon, 23 Apr 2007 21:43:30 GMT  
[View Forum Message](#) <> [Reply to Message](#)

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Keep in mind, your .7mSec is the delay for \*each\* direction.... .7 in  
and .7 out = 1.4mSec total. That is well within the delay time  
settings for flanging and phasing.

David.

DJ wrote:

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Subject: Re: HOLY \*\*\*\*\*!!!!!!-what a difference!!!  
Posted by [Deej \[4\]](#) on Mon, 23 Apr 2007 21:48:26 GMT  
[View Forum Message](#) <> [Reply to Message](#)

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Neil,

I have apparently been going at this native thing with some preconceptions about ASIO direct monitoring that aren't at all accurate. I haven't been doing much in the way of tracking (lots of mixing) so I guess that's understandable. I was under the impression that I would not be able to monitor previously recorded tracks with plugins inserted on the channels or sends while tracking unless I disabled ASIO direct monitoring. Obviously this is not the case. I just set my project to 512k buffers. It has 12 tracks already recorded. I enabled ASIO direct monitoring and inserted 9 UAD-1 plugins on various of the pre recorded tracks. I also installed one of my outboard reverbs as a send on a few of them. I have them all (including the outboard reverb) outputting to an analog pair that I'm sending to my Furman HDS-16 system. At the same time, I've got 20 more audio tracks recording. Since I have ADM there is no audible latency but the astounding thing about it is that I'm also hearing all of the prerecorded tracks that are being processed by the UAD-1 plugins during playback. The processing is working and it is very obvious, and there is no latency. I didn't think this was possible to do. My Cubase DSP meter is at about 10%. Hell, man, I could record 20 tracks and play back 50 or 60 with no problem. Is this normal or some kind of happy accident/bug? I shouldn't be able to hear plugins on prerecorded tracks with ADM enabled, should I?

At this point, the only inconvenience with a tracking session is having to mouse all of the tracks to the main monitor bus if I want to hear them through my DAC-1. Well, during tracking, I don't necessarily need to use my DAC-1 so I have an easy workaround bypass this to a pair of the RME outs and split them off to the HDS-16 and my NHT PVC simultaneously.

Hell man.....this is great!

"Neil" <OIUOIU@OIU.com> wrote in message news:462d2549\$1@linux...

>

> Deej, I just don't get how you're hearing ANY latency at all,  
> unless you have "ZLM" (zero-latency monitoring) unchecked in  
> Totalmix.

>

> I agree, even a little bit of latency bugs the crap out of me if  
> I'm tracking... where exactly is your monitor feed coming from?  
> IMO, you shouldn't hear any latency whatsoever - unless I'm  
> completely misunderstanding your setup (which is, let's face it,  
> quite possible).

>  
> Neil  
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Subject: Re: HOLY \*\*\*\*\*!!!!!!-what a difference!!!  
Posted by [EK Sound](#) on Mon, 23 Apr 2007 22:06:17 GMT  
[View Forum Message](#) <> [Reply to Message](#)

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Stuff that is already recorded is no problem... you could set the buffers to 1056 and everything would be cool. It's the "monitor what you are currently recording" thing where latency is an issue. If you have a way to monitor the recording signal using direct monitoring (the input is usually routed to the same # output... 1 to 1, 2 to 2 etc.) then you are good to go. If you are trying to monitor input 1 to output 7 for instance, or a \*mix\* of several inputs to one output, the delay will be noticeable. This is really noticable if you try to monitor a stereo and mono track to one pair of outputs, as a stereo signal has twice the latency of a mono one.

David.

DJ wrote:

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> the outboard reverb) outputting to an analog pair that I'm sending to my  
> Furman HDS-16 system. At the same time, I've got 20 more audio tracks  
> recording. Since I have ADM there is no audible latency but the astounding  
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> working and it is very obvious, and there is no latency. I didn't think this  
> was possible to do. My Cubase DSP meter is at about 10%. Hell, man, I could  
> record 20 tracks and play back 50 or 60 with no problem. Is this normal or  
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>>I'm tracking... where exactly is your monitor feed coming from?  
>>IMO, you shouldn't hear any latency whatsoever - unless I'm  
>>completely misunderstanding your setup (which is, let's face it,  
>>quite possible).  
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>>>;o)  
>>>  
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>>>"Brandon" <a@a.com> wrote in message news:462d1367@linux...  
>>> so what are you using in place of the raptors?  
>>> I am running 2 10k rpm sata drives...1 OS and 1 audio.  
>>> I am running a 2.2gig AMD with 2gig ram. DDR400.  
>>> I am recording at 192k buffer and get clicks and pops when using VST =  
>>>realtime effects while tracking.  
>>> Cubase SX3.  
>>>  
>>>  
>>> --=20  
>>> Thanks,  
>>>

>>> Brandon=20  
>>> "Tom Bruhl" <arpeggio@comcast.net> wrote in message =  
>>>news:462d101f@linux...  
>>> Deej,  
>>> I've got that Silicon SATA on my Paris rig and it blows. Chris L. =  
>>>suggested the same.  
>>> I have had much better luck with standard ide.  
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>>> I'm glad you're not bailing so quickly!  
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>>> Well, from all of my previous posts, it's pretty obvious that I've  
>>  
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>>>been=20  
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>>>lots of live=20  
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>>>with ASIO=20  
>>> direct monitoring turned off.  
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>>> I've been doing some tweaking here this morning aand I just turned  
>>  
>>=  
>>  
>>>off that=20  
>>> evil \*\*\*\*'in SIL SATA raid controller in the BIOS and pulled my =  
>>>Raptors off=20  
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>>> I am currently playing back a 12 track project with Drumagog and =  
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>>>accomplish some=20  
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>>>(1.5ms),=20  
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>>>latency.  
>>>  
>>> The Cubase 4 CPU meter is bouncing along at approximately 50% =  
>>>usage.  
>>>  
>>> I haven't configured the Control room mode for tracking just yet,  
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>>=  
>>  
>>>but unless=20  
>>> creating a few busses is a substantial CPU hit, I may be able to =  
>>>accomplish=20  
>>> what I need here with what I've got right now.....of =  
>>>course, this=20  
>>> will require me not to spend \$2000.00 on a computer upgrade and =  
>>>that's never=20  
>>> good.  
>>>  
>>> ;o)=20  
>>>  
>>>  
>>>  
>>> I choose Polesoft Lockspam to fight spam, and you?  
>>> <http://www.polesoft.com/refer.html>  
>>>  
>>><!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">  
>>><HTML><HEAD>  
>>><META http-equiv=3DContent-Type content=3D"text/html; =  
>>>charset=3Diso-8859-1">  
>>><META content=3D"MSHTML 6.00.6000.16414" name=3DGENERATOR>  
>>><STYLE></STYLE>  
>>></HEAD>  
>>><BODY bgColor=3D#ffffff>  
>>><DIV><FONT face=3DArial size=3D2>I'm just using a standard ATA 133 IDE =  
>>>drive. Plenty=20  
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>>><DIV> </DIV>

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>>><DIV>"Brandon" <<A href=3D"mailto:a@a.com">a@a.com</A>> wrote in =
>>>message <A=20
>>>href=3D"news:462d1367@linux">news:462d1367@linux</A>...</DIV>
>>><BLOCKQUOTE dir=3Dltr=20
>>>style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =
>>>BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">
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>>><BR>good.<BR><BR>;o)=20
>>> <BR><BR></BLOCKQUOTE>
>>> <DIV><FONT size=3D2><BR><BR>I choose Polesoft Lockspam to fight =
>>>spam, and=20
>>> you?<BR><A=20
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>>>href=3D"http://www.polesoft.com/refer.html">http://www.polesoft.com/refer=
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>>></HTML>
>>>
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>
```

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Subject: Re: HOLY \*\*\*\*\*!!!!!!-what a difference!!!  
Posted by [Graham Duncan](#) on Mon, 23 Apr 2007 23:58:34 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

DJ,

Are you somehow listening to the inputs through Cubase AND through Totalmix? That would indeed cause some annoying sounds... You want to listen to one or the other, not both. :) I could be wrong...

Honestly, I'd humbly suggest that you get a cheap but decent analog board that gets a mult from your preamps or D/As that you can use for cue sends. Then it won't matter what the latency is... it's always zero for the talent! You could probably go without a mixer and set this up with a patchbay to go into your Furmans without a mixer at all.

Good luck!

Graham

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Subject: Re: HOLY \*\*\*\*\*!!!!!!-what a difference!!!  
Posted by [Deej \[4\]](#) on Tue, 24 Apr 2007 01:07:37 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

OK then.. I was wondering why I was not having any \*issues\* with this. I have all mono inputs routed 1:1 to outs and the outs are feeding the mono or stereo L/R inputs of the HDS-16 with the prerecorded tracks routed to an

analog pair of RME outs being sent to the main mix bus of the HDS-16. It looks like the Furman HDS-16 is a great thing for this particular situation. I was hoping to make it obsolete (and subsequently sell it off) by using the Cubase 4 CR function, but the latency just isn't acceptable. For tracking sessions I will use one of the HDS-16 mixers in the CR and route one of the headphone outs to one of my PVC's which are outputting to a pair of studio monitors. This will save much of the mousing around during tracking sessions and when I get ready for critical listening during a mix, I can just bus the recorded tracks as needed, monitoring off my mains which are digitally routed to the DAC-1.....QED!!!..errrr.....sorta'.

Thanks,  
;o)

"EK Sound" <askme@nospam.com> wrote in message news:462d2e60@linux...

> Stuff that is already recorded is no problem... you could set the buffers  
> to 1056 and everything would be cool. It's the "monitor what you are  
> currently recording" thing where latency is an issue. If you have a way  
> to monitor the recording signal using direct monitoring (the input is  
> usually routed to the same # output... 1 to 1, 2 to 2 etc.) then you are  
> good to go. If you are trying to monitor input 1 to output 7 for  
> instance, or a \*mix\* of several inputs to one output, the delay will be  
> noticeable. This is really noticable if you try to monitor a stereo and  
> mono track to one pair of outputs, as a stereo signal has twice the  
> latency of a mono one.

>  
> David.

>  
> DJ wrote:

>> Neil,  
>>

>> I have apparently been going at this native thing with some  
>> preconceptions about ASIO direct monitoring that aren't at all accurate.  
>> I haven't been doing much in the way of tracking (lots of mixing) so I  
>> guess that's understandable. I was under the impression that I would not  
>> be able to monitor previously recorded tracks with plugins inserted on  
>> the channels or sends while tracking unless I disabled ASIO direct  
>> monitoring. Obviously this is not the case. I just set my project to 512k  
>> buffers. It has 12 tracks already recorded. I enabled ASIO direct  
>> monitoring and inserted 9 UAD-1 plugins on various of the pre recorded  
>> tracks. I also installed one of my outboard reverbs as a send on a few of  
>> them. I have them all (including the outboard reverb) outputting to an  
>> analog pair that I'm sending to my Furman HDS-16 system. At the same  
>> time, I've got 20 more audio tracks recording. Since I have ADM there is  
>> no audible latency but the astounding thing about it is that I'm also  
>> hearing all of the prerecorded tracks that are being processed by the  
>> UAD-1 plugins during playback. The processing is working and it is very

>> obvious, and there is no latency. I didn't think this was possible to do.  
>> My Cubase DSP meter is at about 10%. Hell, man, I could record 20 tracks  
>> and play back 50 or 60 with no problem. Is this normal or some kind of  
>> happy accident/bug? I shouldn't be able to hear plugins on prerecorded  
>> tracks with ADM enabled, should I?  
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>> At this point, the only inconvenience with a tracking session is having  
>> to mouse all of the tracks to the main monitor bus if I want to hear them  
>> through my DAC-1. Well, during tracking, I don't necessarily need to use  
>> my DAC-1 so I have an easy workaround bypass this to a pair of the RME  
>> outs and split them off to the HDS-16 and my NHT PVC simultaneously.  
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>> Hell man.....this is great!  
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>>>Deej, I just don't get how you're hearing ANY latency at all,  
>>>unless you have "ZLM" (zero-latency monitoring) unchecked in  
>>>Totalmix.  
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>>>I agree, even a little bit of latency bugs the crap out of me if  
>>>I'm tracking... where exactly is your monitor feed coming from?  
>>>IMO, you shouldn't hear any latency whatsoever - unless I'm  
>>>completely misunderstanding your setup (which is, let's face it,  
>>>quite possible).  
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>>>>Maybe my ears are just too friggin' sensitive and this teeny bit of =  
>>>>latency wouldn't bother someone else. It sure bugs me though. I'll get =  
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>>>>Her hearing is twice as sensitive as mine. If it doesn't bother her, =  
>>>>then it likely won't bother anyone else....(but me)  
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>>>>;o)  
>>>>  
>>>>  
>>>>"Brandon" <a@a.com> wrote in message news:462d1367@linux...  
>>>> so what are you using in place of the raptors?  
>>>> I am running 2 10k rpm sata drives...1 OS and 1 audio.  
>>>> I am running a 2.2gig AMD with 2gig ram. DDR400.  
>>>> I am recording at 192k buffer and get clicks and pops when using VST =  
>>>>realtime effects while tracking.  
>>>> Cubase SX3.  
>>>>  
>>>>  
>>>> --=20  
>>>> Thanks,  
>>>>

>>>> Brandon=20  
>>>> "Tom Bruhl" <arpeggio@comcast.net> wrote in message =  
>>>>news:462d101f@linux...  
>>>> DeeJ,  
>>>> I've got that Silicon SATA on my Paris rig and it blows. Chris L. =  
>>>>suggested the same.  
>>>> I have had much better luck with standard ide.  
>>>>  
>>>> I'm glad you're not bailing so quickly!  
>>>> Tom  
>>>>  
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>>>> "DJ" <www.aarrrrggghh!!!.com> wrote in message =  
>>>>news:462d0cdc\$1@linux...  
>>>> Well, from all of my previous posts, it's pretty obvious that I've  
>>>>  
>>>>=  
>>>>  
>>>>been=20  
>>>> struggling with some issues with my system being able to track =  
>>>>lots of live=20  
>>>> inputs while monitoring previously recorded ones at low latency =  
>>>>with ASIO=20  
>>>> direct monitoring turned off.  
>>>>  
>>>> I've been doing some tweaking here this morning aand I just turned  
>>>>  
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>>>>off that=20  
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>>>>Raptors off=20  
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>>>> Something rather shocking has happened.  
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>>>> ear candy which is all what I need here during dub sessions before  
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>>>> mixing begins) while recording 20 live inputs at 64k buffers =  
>>>>(1.5ms),=20  
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>>>> I haven't configured the Control room mode for tracking just yet,  
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>>>=  
>>>  
>>>>but unless=20  
>>>> creating a few busses is a substantial CPU hit, I may be able to =  
>>>>accomplish=20  
>>>> what I need here with what I've got right now.....of =  
>>>>course, this=20  
>>>> will require me not to spend \$2000.00 on a computer upgrade and =  
>>>>that's never=20  
>>>> good.  
>>>>  
>>>> ;o)=20  
>>>>  
>>>>  
>>>>  
>>>> I choose Polesoft Lockspam to fight spam, and you?  
>>>> <http://www.polesoft.com/refer.html>  
>>>>  
>>>><!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">  
>>>><HTML><HEAD>  
>>>><META http-equiv=3DContent-Type content=3D"text/html; =  
>>>>charset=3Diso-8859-1">  
>>>><META content=3D"MSHTML 6.00.6000.16414" name=3DGENERATOR>  
>>>><STYLE></STYLE>  
>>>></HEAD>  
>>>><BODY bgColor=3D#ffffff>  
>>>><DIV><FONT face=3DArial size=3D2>I'm just using a standard ATA 133 IDE =  
>>>>drive. Plenty=20  
>>>>of mojo for moderate track counts. </FONT></DIV>  
>>>><DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
>>>><DIV><FONT face=3DArial size=3D2>I've testing the \*usability\* of working  
>>>  
>>>=  
>>>  
>>>>at 32k=20  
>>>>buffers, 64k buffers and 128k buffers here this morning. I don't have =  
>>>>the=20  
>>>>horsepower to record and play back tracks simultaneously at 32k buffers  
>>>  
>>>=

>>>  
>>>>(0.7=20  
>>>>ms). I did test recording a single track at 0.7 ms without =  
>>>>any tracks=20  
>>>>playing back and I can do it, but it sounds a teeny bit phasey to me. =  
>>>>Not a show=20  
>>>>stopper but definitely a difference when compared to using ASIO  
>>>>direct=20  
>>>>monitoring. I can play back 12 tracks and record 20 tracks =  
>>>>with up to=20  
>>>>around 25% of the DSP usage of my UAD-1's on the recorded tracks without  
>>>  
>>>=  
>>>  
>>>>problems and the Cubase DSP meter is around 70% (this is sorta'  
>>>>nervous=20  
>>>>territory where you don't want to be mousing around too much). Disable =  
>>>>the UAD-1=20  
>>>>and it drops down to between 50-60%. The audible phasing at 64k (1.5ms =  
>>>>latency)=20  
>>>>is about as noticable as it is at 32k buffers (0.7ms latency). What  
>>>>is=20  
>>>>disturbing to me is that I'm hearing audible phasing at all at 32k =  
>>>>buffers. Even=20  
>>>>if I had a monster system that was able to stand up on it's hind legs =  
>>>>and bark=20  
>>>>at 0.7ms latency, I would be hearing audible phasing. I'm sure this is =  
>>>>because=20  
>>>>I'm not just hearing the latency that the buffer creates, I'm also =  
>>>>hearing=20  
>>>>another 1.5 ms latency that is created by the AD/DA conversion. =  
>>>></FONT><FONT=20  
>>>>face=3DArial size=3D2>ASIO direct monitoring is much more equivalent to  
>>>  
>>>=  
>>>  
>>>>Paris=20  
>>>>latency (zero audible) because all you're getting is the appx 1.5 ms of  
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>>>=  
>>>  
>>>>the=20  
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>>>><DIV><FONT face=3DArial size=3D2></FONT> </DIV>

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>>>><DIV> </DIV>
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>>>>href=3D"news:462d1367@linux">news:462d1367@linux</A>...</DIV>
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>>>>style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =
>>>>BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">
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>>>>href=3D"http://www.aarrrrgggghh!!!.com">www.aarrrrgggghh!!!.com</A>=20
>>>> wrote in message <A=20
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>>>>href=3D"news:462d0cdc$1 @linux">news:462d0cdc$1 @linux</A>...</DIV>Well, =
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>>>>CPU hit, I=20
>>>> may be able to accomplish <BR>what I need here with what I've got
>>>
>>>=
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>>>
>>>>right=20
>>>> now.....of course, this <BR>will require me not to spend
>>>
>>>=
>>>
>>>> $2000.00 on a computer upgrade and that's never =
>>>><BR>good.<BR><BR>;o)=20
>>>> <BR><BR></BLOCKQUOTE>
>>>> <DIV><FONT size=3D2><BR><BR>I choose Polesoft Lockspam to fight =
>>>>spam, and=20
>>>> you?<BR><A=20
>>>> =
>>>>href=3D"http://www.polesoft.com/refer.html">http://www.polesoft.com/refer=
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>>>></HTML>
>>>>
>>>>
>>
```

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Subject: Re: HOLY \*\*\*\*\*!!!!!!-what a difference!!!  
Posted by [brandon\[2\]](#) on Tue, 24 Apr 2007 02:21:23 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

I am getting 5.7ms latency with 192k buffer.  
I can definately hear it, but it isn't a show stopper for me.  
I could use the zero latency from CueMix, but then I wouldnt get  
to use plugs in live monitoring mode.  
I was thinking I could route the zero latency send from quemix out to another  
PC with Cubase running as a live monitoring/plug and back out mixed into  
an external mixer table and sent to the cans. This should be under 5.7ms  
latency...you think?

b

Graham Duncan <[graham@grahamduncan.com](mailto:graham@grahamduncan.com)> wrote:

>DJ,

>

>Are you somehow listening to the inputs through Cubase AND through  
>Totalmix? That would indeed cause some annoying sounds... You want to

>listen to one or the other, not both. :) I could be wrong...  
>  
>Honestly, I'd humbly suggest that you get a cheap but decent analog  
>board that gets a mult from your preamps or D/As that you can use for  
>cue sends. Then it won't matter what the latency is... it's always zero  
  
>for the talent! You could probably go without a mixer and set this up  
>with a patchbay to go into your Furmans without a mixer at all.  
>  
>Good luck!  
>  
>Graham

---

---

Subject: Re: HOLY \*\*\*\*\*!!!!!!-what a difference!!!  
Posted by [audioguy\\_editout\\_](#) on Tue, 24 Apr 2007 02:22:17 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

The latency of the two systems would be additive.. unless  
you could run at 1.5mSec on each system, you would be in  
worse shape....

David.

brandon wrote:

> I am getting 5.7ms latency with 192k buffer.  
> I can definately hear it, but it isn't a show stopper for me.  
> I could use the zero latency from CueMix, but then I wouldnt get  
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>

> b

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>

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>

> Graham Duncan <[graham@grahamduncan.com](mailto:graham@grahamduncan.com)> wrote:

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>>  
>>Good luck!  
>>  
>>Graham  
>  
>

---

Subject: Re: HOLY \*\*\*\*\*!!!!!!-what a difference!!!  
Posted by [Deej \[4\]](#) on Tue, 24 Apr 2007 02:53:57 GMT  
[View Forum Message](#) <> [Reply to Message](#)

<http://www.markertek.com/Product.asp?baseItem=COL%2DLS3&cat=AUDIOEQUIP&subcat=AUDINT&prodClass=AUDCONV&mf=Coleman+Audio&search=0&off=>

Looks like this, and an insert cable from one of the headphone output of the HRM-16 mixer to a pair of the inputs on the back of this thing would allow me to switch to monitoring what is being played back from the tracking busses through my control room monitors with the push of a button. I'm not sure about the levels that would be output from the headphone amp though. I have tried it and it's got enough gain to drive the PVC cleanly. I guess I'd better look into this a bit further when I'm not so tired. It's been a long day. I don't want to fry something by mismatching voltage/ impedance between the headphone output and an input to a power amp driving my monitors..

L/R input of the PVC. Furthermore, it's gonna have to boost the voltage to "DJ" <[www.aarrrrggghhh!!!.com](http://www.aarrrrggghhh!!!.com)> wrote in message [news:462d5945@linux...](mailto:news:462d5945@linux...)  
> OK then.. I was wondering why I was not having any \*issues\* with this. I  
> have all mono inputs routed 1:1 to outs and the outs are feeding the mono  
> or stereo L/R inputs of the HDS-16 with the prerecorded tracks routed to  
> an analog pair of RME outs being sent to the main mix bus of the HDS-16.  
> It looks like the Furman HDS-16 is a great thing for this particular  
> situation. I was hoping to make it obsolete (and subsequently sell it off)  
> by using the Cubase 4 CR function, but the latency just isn't acceptable.

> For tracking sessions I will use one of the HDS-16 mixers in the CR and  
> route one of the headphone outs to one of my PVC's which are outputting to  
> a pair of studio monitors. This will save much of the mousing around  
> during tracking sessions and when I get ready for critical listening  
> during a mix, I can just bus the recorded tracks as needed, monitoring off  
> my mains which are digitally routed to the  
> DAC-1.....QED!!!...errrr.....sorta'.  
>  
> Thanks,  
> ;o)  
>  
>  
> "EK Sound" <askme@nospam.com> wrote in message news:462d2e60@linux...  
>> Stuff that is already recorded is no problem... you could set the buffers  
>> to 1056 and everything would be cool. It's the "monitor what you are  
>> currently recording" thing where latency is an issue. If you have a way  
>> to monitor the recording signal using direct monitoring (the input is  
>> usually routed to the same # output... 1 to 1, 2 to 2 etc.) then you are  
>> good to go. If you are trying to monitor input 1 to output 7 for  
>> instance, or a \*mix\* of several inputs to one output, the delay will be  
>> noticeable. This is really noticable if you try to monitor a stereo and  
>> mono track to one pair of outputs, as a stereo signal has twice the  
>> latency of a mono one.  
>>  
>> David.  
>>  
>> DJ wrote:  
>>> Neil,  
>>>  
>>> I have apparently been going at this native thing with some  
>>> preconceptions about ASIO direct monitoring that aren't at all accurate.  
>>> I haven't been doing much in the way of tracking (lots of mixing) so I  
>>> guess that's understandable. I was under the impression that I would not  
>>> be able to monitor previously recorded tracks with plugins inserted on  
>>> the channels or sends while tracking unless I disabled ASIO direct  
>>> monitoring. Obviously this is not the case. I just set my project to  
>>> 512k buffers. It has 12 tracks already recorded. I enabled ASIO direct  
>>> monitoring and inserted 9 UAD-1 plugins on various of the pre recorded  
>>> tracks. I also installed one of my outboard reverbs as a send on a few  
>>> of them. I have them all (including the outboard reverb) outputting to an  
>>> analog pair that I'm sending to my Furman HDS-16 system. At the same  
>>> time, I've got 20 more audio tracks recording. Since I have ADM there is  
>>> no audible latency but the astounding thing about it is that I'm also  
>>> hearing all of the prerecorded tracks that are being processed by the  
>>> UAD-1 plugins during playback. The processing is working and it is very  
>>> obvious, and there is no latency. I didn't think this was possible to  
>>> do. My Cubase DSP meter is at about 10%. Hell, man, I could record 20  
>>> tracks and play back 50 or 60 with no problem. Is this normal or some

>>> kind of happy accident/bug? I shouldn't be able to hear plugins on  
>>> prerecorded tracks with ADM enabled, should I?  
>>>  
>>> At this point, the only inconvenience with a tracking session is having  
>>> to mouse all of the tracks to the main monitor bus if I want to hear  
>>> them through my DAC-1. Well, during tracking, I don't necessarily need  
>>> to use my DAC-1 so I have an easy workaround bypass this to a pair of  
>>> the RME outs and split them off to the HDS-16 and my NHT PVC  
>>> simultaneously.  
>>>  
>>> Hell man.....this is great!  
>>>  
>>>  
>>>  
>>>  
>>> "Neil" <OIUOIU@OIU.com> wrote in message news:462d2549\$1@linux...  
>>>  
>>>>Deej, I just don't get how you're hearing ANY latency at all,  
>>>>unless you have "ZLM" (zero-latency monitoring) unchecked in  
>>>>Totalmix.  
>>>>  
>>>>I agree, even a little bit of latency bugs the crap out of me if  
>>>>I'm tracking... where exactly is your monitor feed coming from?  
>>>>IMO, you shouldn't hear any latency whatsoever - unless I'm  
>>>>completely misunderstanding your setup (which is, let's face it,  
>>>>quite possible).  
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>>>>Neil  
>>>>  
>>>>"DJ" <www.aarrrrggghhh!!!.com> wrote:  
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>>>>this is just a fact of life with native systems I guess and isn't a  
>>>>deal  
>>>>  
>>>>=  
>>>>  
>>>>killer. Looks like even the most powerful DAWs will be subject to at =  
>>>>least 0.7 ms + 1.5 ms latency and I can clearly hear this.=20  
>>>>  
>>>>Maybe my ears are just too friggin' sensitive and this teeny bit of =  
>>>>latency wouldn't bother someone else. It sure bugs me though. I'll get  
>>>>=  
>>>>Amy on the mic later on today and give this a go at 64k buffers  
>>>>(1.5ms).  
>>>>  
>>>>=  
>>>>  
>>>>Her hearing is twice as sensitive as mine. If it doesn't bother her, =  
>>>>then it likely won't bother anyone else....(but me)  
>>>>  
>>>>;o)  
>>>>  
>>>>

>>>>"Brandon" <a@a.com> wrote in message news:462d1367@linux...  
>>>> so what are you using in place of the raptors?  
>>>> I am running 2 10k rpm sata drives...1 OS and 1 audio.  
>>>> I am running a 2.2gig AMD with 2gig ram. DDR400.  
>>>> I am recording at 192k buffer and get clicks and pops when using VST =  
>>>>realtime effects while tracking.  
>>>> Cubase SX3.  
>>>>  
>>>>  
>>>> --=20  
>>>> Thanks,  
>>>>  
>>>> Brandon=20  
>>>> "Tom Bruhl" <arpeggio@comcast.net> wrote in message =  
>>>>news:462d101f@linux...  
>>>> Deej,  
>>>> I've got that Silicon SATA on my Paris rig and it blows. Chris L. =  
>>>>suggested the same.  
>>>> I have had much better luck with standard ide.  
>>>>  
>>>> I'm glad you're not bailing so quickly!  
>>>> Tom  
>>>>  
>>>>  
>>>> "DJ" <www.aarrrrggghh!!!.com> wrote in message =  
>>>>news:462d0cdc\$1@linux...  
>>>> Well, from all of my previous posts, it's pretty obvious that I've  
>>>>  
>>>>=  
>>>>  
>>>>been=20  
>>>> struggling with some issues with my system being able to track =  
>>>>lots of live=20  
>>>> inputs while monitoring previously recorded ones at low latency =  
>>>>with ASIO=20  
>>>> direct monitoring turned off.  
>>>>  
>>>> I've been doing some tweaking here this morning aand I just turned  
>>>>  
>>>>=  
>>>>  
>>>>off that=20  
>>>> evil \*\*\*\*'in SIL SATA raid controller in the BIOS and pulled my =  
>>>>Raptors off=20  
>>>> the mobo.  
>>>>  
>>>> Something rather shocking has happened.  
>>>>

>>>> I am currently playing back a 12 track project with Drumagog and =  
>>>>various=20  
>>>> UAD-1 plugins instantiated (not a huge load, but enough to =  
>>>>accomplish some=20  
>>>> ear candy which is all what I need here during dub sessions before  
>>>>  
>>>>=  
>>>>  
>>>>the real=20  
>>>> mixing begins) while recording 20 live inputs at 64k buffers =  
>>>>(1.5ms),=20  
>>>> punching in and out at will. I can definitely live with 1.5ms =  
>>>>latency.  
>>>>  
>>>> The Cubase 4 CPU meter is bouncing along at approximately 50% =  
>>>>usage.  
>>>>  
>>>> I haven't configured the Control room mode for tracking just yet,  
>>>>  
>>>>=  
>>>>  
>>>>but unless=20  
>>>> creating a few busses is a substantial CPU hit, I may be able to =  
>>>>accomplish=20  
>>>> what I need here with what I've got right now.....of =  
>>>>course, this=20  
>>>> will require me not to spend \$2000.00 on a computer upgrade and =  
>>>>that's never=20  
>>>> good.  
>>>>  
>>>> ;o)=20  
>>>>  
>>>>  
>>>>  
>>>>  
>>>> I choose Polesoft Lockspam to fight spam, and you?  
>>>> <http://www.polesoft.com/refer.html>  
>>>>  
>>>><!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">  
>>>><HTML><HEAD>  
>>>><META http-equiv=3DContent-Type content=3D"text/html"; =  
>>>>charset=3Diso-8859-1">  
>>>><META content=3D"MSHTML 6.00.6000.16414" name=3DGENERATOR>  
>>>><STYLE></STYLE>  
>>>></HEAD>  
>>>><BODY bgColor=3D#ffffff>  
>>>><DIV><FONT face=3DArial size=3D2>I'm just using a standard ATA 133 IDE  
>>>>=

>>>>drive. Plenty=20  
>>>>of mojo for moderate track counts. </FONT></DIV>  
>>>><DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
>>>><DIV><FONT face=3DArial size=3D2>I've testing the \*usability\* of  
>>>>working  
>>>>  
>>>>=  
>>>>  
>>>>at 32k=20  
>>>>buffers, 64k buffers and 128k buffers here this morning. I don't have =  
>>>>the=20  
>>>>horsepower to record and play back tracks simultaneously at 32k buffers  
>>>>  
>>>>=  
>>>>  
>>>>(0.7=20  
>>>>ms). I did test recording a single track at 0.7 ms without =  
>>>>any tracks=20  
>>>>playing back and I can do it, but it sounds a teeny bit phasey to me. =  
>>>>Not a show=20  
>>>>stopper but definitely a difference when compared to using ASIO  
>>>>direct=20  
>>>>monitoring. I can play back 12 tracks and record 20 tracks =  
>>>>with up to=20  
>>>>around 25% of the DSP usage of my UAD-1's on the recorded tracks  
>>>>without  
>>>>  
>>>>=  
>>>>  
>>>>problems and the Cubase DSP meter is around 70% (this is sorta'  
>>>>nervous=20  
>>>>territory where you don't want to be mousing around too much). Disable  
>>>>=  
>>>>the UAD-1=20  
>>>>and it drops down to between 50-60%. The audible phasing at 64k (1.5ms  
>>>>=  
>>>>latency)=20  
>>>>is about as noticable as it is at 32k buffers (0.7ms latency). What  
>>>>is=20  
>>>>disturbing to me is that I'm hearing audible phasing at all at 32k =  
>>>>buffers. Even=20  
>>>>if I had a monster system that was able to stand up on it's hind legs =  
>>>>and bark=20  
>>>>at 0.7ms latency, I would be hearing audible phasing. I'm sure this is  
>>>>=  
>>>>because=20  
>>>>I'm not just hearing the latency that the buffer creates, I'm also =  
>>>>hearing=20

>>>>another 1.5 ms latency that is created by the AD/DA conversion. =  
>>>></FONT><FONT=20  
>>>>face=3DArial size=3D2>ASIO direct monitoring is much more equivalent to  
>>>>  
>>>>=  
>>>>  
>>>>Paris=20  
>>>>latency (zero audible) because all you're getting is the appx 1.5 ms of  
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>>>>the=20  
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>>>><DIV><FONT face=3DArial size=3D2>After all this crap I've gone through,  
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>>>>I think may=20  
>>>>just get myself another Furman HRM-16 mixer for my desktop so I can =  
>>>>monitor the=20  
>>>>cue mix that is being sent to the rest of the studio via analog and see  
>>>>  
>>>>=  
>>>>  
>>>>if I can=20  
>>>>create some kind of macro to switch all all track outputs to the =  
>>>>main=20  
>>>>monitor bus in the CR when everyone comes trooping in from the tracking  
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>>>>  
>>>>area to=20  
>>>>listen in the CR.</FONT></DIV>  
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>>>><DIV><FONT face=3DArial size=3D2>A bit more mousing around, but it's =  
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>>>>hearing latency in the cans. I won't be able to monitor with FX on pre  
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>>>><DIV><FONT face=3DArial size=3D2>;o)</FONT></DIV>
>>>><DIV><FONT face=3DArial size=3D2></FONT> </DIV>
>>>><DIV> </DIV>
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>>>>message <A=20
>>>>href=3D"news:462d1367@linux">news:462d1367@linux</A>...</DIV>
>>>><BLOCKQUOTE dir=3Dltr=20
>>>>style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =
>>>>BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">
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>>>> <DIV><FONT face=3DArial></FONT> </DIV>
>>>> <DIV><BR>-- <BR>Thanks,</DIV>
>>>> <DIV> </DIV>

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>>>>> style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =
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>>>>> style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =
>>>>>BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">
>>>>> <DIV>"DJ" <<A=20
>>>>> =
>>>>>href=3D"http://www.aarrrrggghhh!!!.com">www.aarrrrggghhh!!!.com</A>>=20
>>>>> wrote in message <A=20
>>>>> =
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>>>> may be able to accomplish <BR>what I need here with what I've got  
>>>>  
>>>>=  
>>>>  
>>>>right=20  
>>>> now.....of course, this <BR>will require me not to spend  
>>>>  
>>>>=  
>>>>  
>>>> \$2000.00 on a computer upgrade and that's never =  
>>>><BR>good.<BR><BR>:o)=20  
>>>> <BR><BR></BLOCKQUOTE>  
>>>> <DIV><FONT size=3D2><BR><BR>I choose Polesoft Lockspam to fight =  
>>>>spam, and=20  
>>>> you?<BR><A=20  
>>>> =  
>>>>href=3D"http://www.polesoft.com/refer.html">http://www.polesoft.com/refer=  
>>>>.html</A> </FONT></DIV></BLOCKQUOTE></BLOCKQUOTE></BODY>=  
>>>></HTML>  
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Subject: Re: HOLY \*\*\*\*\*!!!!!!-what a difference!!!  
Posted by [Deej \[4\]](#) on Tue, 24 Apr 2007 02:57:30 GMT

heheheh!!!!!! go for it Brandon!!!! LOL!!!!.....The more computers you get involved in your studio, the easier things get.....(uhhhhhh.....but then again.....I've been known to lie ;o)

"Dave(EK Sound)" <audioguy\_editout\_@shaw.ca> wrote in message news:462d6a63\$1@linux...

> The latency of the two systems would be additive.. unless you could run at > 1.5mSec on each system, you would be in worse shape....

>

> David.

>

> brandon wrote:

>> I am getting 5.7ms latency with 192k buffer.

>> I can definately hear it, but it isn't a show stopper for me.

>> I could use the zero latency from CueMix, but then I wouldnt get to use

>> plugs in live monitoring mode.

>> I was thinking I could route the zero latency send from quemix out to

>> another

>> PC with Cubase running as a live monitoring/plugin and back out mixed into

>> an external mixer table and sent to the cans. This should be under 5.7ms

>> latency...you think?

>>

>> b

>>

>>

>>

>>

>>

>>

>>

>> Graham Duncan <graham@grahamduncan.com> wrote:

>>

>>>DJ,

>>>

>>>Are you somehow listening to the inputs through Cubase AND through

>>>Totalmix? That would indeed cause some annoying sounds... You want to

>>

>>

>>>listen to one or the other, not both. :) I could be wrong...

>>>

>>>Honestly, I'd humbly suggest that you get a cheap but decent analog board

>>>that gets a mult from your preamps or D/As that you can use for cue

>>>sends. Then it won't matter what the latency is... it's always zero

>>

>>

>>>for the talent! You could probably go without a mixer and set this up

>>>with a patchbay to go into your Furmans without a mixer at all.

>>>

>>>Good luck!

>>>

>>>Graham

>>

---

Subject: Re: HOLY \*\*\*\*\*!!!!!!-what a difference!!!

Posted by [audioguy\\_editout\\_](#) on Tue, 24 Apr 2007 03:03:06 GMT

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

---

Oh come on now!!! You could build that thing for \$20! Get a single space blank panel and build one using 4PDT switches... You can rack it that way and it would look better than a "desk wart".

David.

DJ wrote:

> <http://www.markertek.com/Product.asp?baseItem=COL%2DLS3&cat=AUDIOEQUIP&subcat=AUDINT&prodClass=AUDCONV&mf=Coleman+Audio&search=0&off=>

>

> Looks like this, and an insert cable from one of the headphone output of the  
> HRM-16 mixer to a pair of the inputs on the back of this thing would allow  
> me to switch to monitoring what is being played back from the tracking  
> busses through my control room monitors with the push of a button. I'm not  
> sure about the levels that would be output from the headphone amp though. I  
> have tried it and it's got enough gain to drive the PVC cleanly. I guess  
> I'd better look into this a bit further when I'm not so tired. It's been a  
> long day. I don't want to fry something by mismatching voltage/ impedance  
> between the headphone output and an input to a power amp driving my  
> monitors..

>

>

> L/R input of the PVC. Furthermore, it's gonna have to boost the voltage to  
> "DJ" <[www.aarrrrggghh!!!.com](http://www.aarrrrggghh!!!.com)> wrote in message news:462d5945@linux...

>

>>OK then.. I was wondering why I was not having any \*issues\* with this. I  
>>have all mono inputs routed 1:1 to outs and the outs are feeding the mono  
>>or stereo L/R inputs of the HDS-16 with the prerecorded tracks routed to  
>>an analog pair of RME outs being sent to the main mix bus of the HDS-16.  
>>It looks like the Furman HDS-16 is a great thing for this particular  
>>situation. I was hoping to make it obsolete (and subsequently sell it off)  
>>by using the Cubase 4 CR function, but the latency just isn't acceptable.  
>>For tracking sessions I will use one of the HDS-16 mixers in the CR and

>>route one of the headphone outs to one of my PVC's which are outputting to  
>>a pair of studio monitors. This will save much of the mousing around  
>>during tracking sessions and when I get ready for critical listening  
>>during a mix, I can just bus the recorded tracks as needed, monitoring off  
>>my mains which are digitally routed to the  
>>DAC-1.....QED!!!..errrr.....sorta'.  
>>  
>>Thanks,  
>>;o)  
>>  
>>  
>>"EK Sound" <askme@nospam.com> wrote in message news:462d2e60@linux...  
>>  
>>>Stuff that is already recorded is no problem... you could set the buffers  
>>>to 1056 and everything would be cool. It's the "monitor what you are  
>>>currently recording" thing where latency is an issue. If you have a way  
>>>to monitor the recording signal using direct monitoring (the input is  
>>>usually routed to the same # output... 1 to 1, 2 to 2 etc.) then you are  
>>>good to go. If you are trying to monitor input 1 to output 7 for  
>>>instance, or a \*mix\* of several inputs to one output, the delay will be  
>>>noticeable. This is really noticable if you try to monitor a stereo and  
>>>mono track to one pair of outputs, as a stereo signal has twice the  
>>>latency of a mono one.  
>>>  
>>>David.  
>>>  
>>>DJ wrote:  
>>>  
>>>>Neil,  
>>>>  
>>>>I have apparently been going at this native thing with some  
>>>>preconceptions about ASIO direct monitoring that aren't at all accurate.  
>>>>I haven't been doing much in the way of tracking (lots of mixing) so I  
>>>>guess that's understandable. I was under the impression that I would not  
>>>>be able to monitor previously recorded tracks with plugins inserted on  
>>>>the channels or sends while tracking unless I disabled ASIO direct  
>>>>monitoring. Obviously this is not the case. I just set my project to  
>>>>512k buffers. It has 12 tracks already recorded. I enabled ASIO direct  
>>>>monitoring and inserted 9 UAD-1 plugins on various of the pre recorded  
>>>>tracks. I also installed one of my outboard reverbs as a send on a few  
>>>>of them. I have them all (including the outboard reverb) outputting to an  
>>>>analog pair that I'm sending to my Furman HDS-16 system. At the same  
>>>>time, I've got 20 more audio tracks recording. Since I have ADM there is  
>>>>no audible latency but the astounding thing about it is that I'm also  
>>>>hearing all of the prerecorded tracks that are being processed by the  
>>>>UAD-1 plugins during playback. The processing is working and it is very  
>>>>obvious, and there is no latency. I didn't think this was possible to  
>>>>do. My Cubase DSP meter is at about 10%. Hell, man, I could record 20

>>>>tracks and play back 50 or 60 with no problem. Is this normal or some  
>>>>kind of happy accident/bug? I shouldn't be able to hear plugins on  
>>>>prerecorded tracks with ADM enabled, should I?  
>>>>  
>>>>At this point, the only inconvenience with a tracking session is having  
>>>>to mouse all of the tracks to the main monitor bus if I want to hear  
>>>>them through my DAC-1. Well, during tracking, I don't necessarily need  
>>>>to use my DAC-1 so I have an easy workaround bypass this to a pair of  
>>>>the RME outs and split them off to the HDS-16 and my NHT PVC  
>>>>simultaneously.  
>>>>  
>>>>Hell man.....this is great!  
>>>>  
>>>>  
>>>>  
>>>>  
>>>>  
>>>>"Neil" <OIUOIU@OIU.com> wrote in message news:462d2549\$1@linux...  
>>>>  
>>>>  
>>>>>Deej, I just don't get how you're hearing ANY latency at all,  
>>>>>unless you have "ZLM" (zero-latency monitoring) unchecked in  
>>>>>Totalmix.  
>>>>>  
>>>>>I agree, even a little bit of latency bugs the crap out of me if  
>>>>>I'm tracking... where exactly is your monitor feed coming from?  
>>>>>IMO, you shouldn't hear any latency whatsoever - unless I'm  
>>>>>completely misunderstanding your setup (which is, let's face it,  
>>>>>quite possible).  
>>>>>  
>>>>>Neil  
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>>>>>=  
>>>>>Amy on the mic later on today and give this a go at 64k buffers  
>>>>>(1.5ms).  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>Her hearing is twice as sensitive as mine. If it doesn't bother her, =  
>>>>>then it likely won't bother anyone else....(but me)  
>>>>>  
>>>>>;o)  
>>>>>  
>>>>>  
>>>>>"Brandon" <a@a.com> wrote in message news:462d1367@linux...  
>>>>>so what are you using in place of the raptors?  
>>>>>I am running 2 10k rpm sata drives...1 OS and 1 audio.  
>>>>>I am running a 2.2gig AMD with 2gig ram. DDR400.  
>>>>>I am recording at 192k buffer and get clicks and pops when using VST =  
>>>>>realtime effects while tracking.  
>>>>>Cubase SX3.  
>>>>>  
>>>>>  
>>>>>--=20  
>>>>>Thanks,  
>>>>>  
>>>>>Brandon=20  
>>>>> "Tom Bruhl" <arpeggio@comcast.net> wrote in message =  
>>>>>news:462d101f@linux...  
>>>>> DeeJ,  
>>>>> I've got that Silicon SATA on my Paris rig and it blows. Chris L. =  
>>>>>suggested the same.  
>>>>> I have had much better luck with standard ide.  
>>>>>  
>>>>> I'm glad you're not bailing so quickly!  
>>>>> Tom  
>>>>>  
>>>>>  
>>>>> "DJ" <www.aarrrrggghh!!!.com> wrote in message =  
>>>>>news:462d0cdc\$1@linux...  
>>>>> Well, from all of my previous posts, it's pretty obvious that I've  
>>>>>  
>>>>>=

>>>>  
>>>>  
>>>>>been=20  
>>>>> struggling with some issues with my system being able to track =  
>>>>>lots of live=20  
>>>>> inputs while monitoring previously recorded ones at low latency =  
>>>>>with ASIO=20  
>>>>> direct monitoring turned off.  
>>>>>  
>>>>> I've been doing some tweaking here this morning aand I just turned  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>off that=20  
>>>>> evil \*\*\*\*'in SIL SATA raid controller in the BIOS and pulled my =  
>>>>>Raptors off=20  
>>>>> the mobo.  
>>>>>  
>>>>> Something rather shocking has happened.  
>>>>>  
>>>>> I am currently playing back a 12 track project with Drumagog and =  
>>>>>various=20  
>>>>> UAD-1 plugins instantiated (not a huge load, but enough to =  
>>>>>accomplish some=20  
>>>>> ear candy which is all what I need here during dub sessions before  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>the real=20  
>>>>> mixing begins) while recording 20 live inputs at 64k buffers =  
>>>>>(1.5ms),=20  
>>>>> punching in and out at will. I can definitely live with 1.5ms =  
>>>>>latency.  
>>>>>  
>>>>> The Cubase 4 CPU meter is bouncing along at approximately 50% =  
>>>>>usage.  
>>>>>  
>>>>> I haven't configured the Control room mode for tracking just yet,  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>but unless=20  
>>>>> creating a few busses is a substantial CPU hit, I may be able to =  
>>>>>accomplish=20  
>>>>> what I need here with what I've got right now.....of =

>>>>>course, this=20  
>>>>> will require me not to spend \$2000.00 on a computer upgrade and =  
>>>>>that's never=20  
>>>>> good.  
>>>>>  
>>>>> ;o)=20  
>>>>>  
>>>>>  
>>>>>  
>>>>> I choose Polesoft Lockspam to fight spam, and you?  
>>>>> <http://www.polesoft.com/refer.html>  
>>>>>  
>>>>><!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">  
>>>>><HTML><HEAD>  
>>>>><META http-equiv=3DContent-Type content=3D"text/html; =  
>>>>> charset=3Diso-8859-1">  
>>>>><META content=3D"MSHTML 6.00.6000.16414" name=3DGENERATOR>  
>>>>><STYLE></STYLE>  
>>>>></HEAD>  
>>>>><BODY bgColor=3D#ffffff>  
>>>>><DIV><FONT face=3DArial size=3D2>I'm just using a standard ATA 133 IDE  
>>>>>=  
>>>>>drive. Plenty=20  
>>>>>of mojo for moderate track counts. </FONT></DIV>  
>>>>><DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
>>>>><DIV><FONT face=3DArial size=3D2>I've testing the \*usability\* of  
>>>>>working  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>at 32k=20  
>>>>>buffers, 64k buffers and 128k buffers here this morning. I don't have =  
>>>>>the=20  
>>>>>horsepower to record and play back tracks simultaneously at 32k buffers  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>(0.7=20  
>>>>>ms). I did test recording a single track at 0.7 ms without =  
>>>>>any tracks=20  
>>>>>playing back and I can do it, but it sounds a teeny bit phasey to me. =  
>>>>>Not a show=20  
>>>>>stopper but definitely a difference when compared to using ASIO  
>>>>>direct=20  
>>>>>monitoring. I can play back 12 tracks and record 20 tracks =

>>>>>with up to=20  
>>>>>around 25% of the DSP usage of my UAD-1's on the recorded tracks  
>>>>>without  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>problems and the Cubase DSP meter is around 70% (this is sorta'  
>>>>>nervous=20  
>>>>>territory where you don't want to be mousing around too much). Disable  
>>>>>=  
>>>>>the UAD-1=20  
>>>>>and it drops down to between 50-60%. The audible phasing at 64k (1.5ms  
>>>>>=  
>>>>>latency)=20  
>>>>>is about as noticable as it is at 32k buffers (0.7ms latency). What  
>>>>>is=20  
>>>>>disturbing to me is that I'm hearing audible phasing at all at 32k =  
>>>>>buffers. Even=20  
>>>>>if I had a monster system that was able to stand up on it's hind legs =  
>>>>>and bark=20  
>>>>>at 0.7ms latency, I would be hearing audible phasing. I'm sure this is  
>>>>>=  
>>>>>because=20  
>>>>>I'm not just hearing the latency that the buffer creates, I'm also =  
>>>>>hearing=20  
>>>>>another 1.5 ms latency that is created by the AD/DA conversion. =  
>>>>></FONT><FONT=20  
>>>>>face=3DArial size=3D2>ASIO direct monitoring is much more equivalent to  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>Paris=20  
>>>>>latency (zero audible) because all you're getting is the appx 1.5 ms of  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>the=20  
>>>>>AD/DA conversion. Once it exceeds that, I can hear it.</FONT></DIV>  
>>>>><DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
>>>>><DIV><FONT face=3DArial size=3D2>After all this crap I've gone through,  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>I think may=20

>>>>>just get myself another Furman HRM-16 mixer for my desktop so I can =  
>>>>>monitor the=20  
>>>>>cue mix that is being sent to the rest of the studio via analog and see  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>if I can=20  
>>>>>create some kind of macro to switch all all track outputs to the =  
>>>>>main=20  
>>>>>monitor bus in the CR when everyone comes trooping in from the tracking  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>area to=20  
>>>>>listen in the CR.</FONT></DIV>  
>>>>><DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
>>>>><DIV><FONT face=3DArial size=3D2>A bit more mousing around, but it's =  
>>>>>preferable to=20  
>>>>>hearing latency in the cans. I won't be able to monitor with FX on pre  
>>>>>=  
>>>>>recorded=20  
>>>>>tracks, but this is just a fact of life with native systems I guess and  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>isn't a=20  
>>>>>deal killer. Looks like even the most powerful DAWs will be subject =  
>>>>>to at=20  
>>>>>least 0.7 ms + 1.5 ms latency and I can clearly hear this.  
>>>>></FONT></DIV>  
>>>>><DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
>>>>><DIV><FONT face=3DArial size=3D2>Maybe my ears are just too friggin' =  
>>>>>sensitive and=20  
>>>>>this teeny bit of latency wouldn't bother someone else. It sure bugs me  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>though.=20  
>>>>>I'll get Amy on the mic later on today and give this a go at 64k  
>>>>>buffers  
>>>>>  
>>>>>=  
>>>>>  
>>>>>

>>>>>(1.5ms). Her hearing is twice as sensitive as mine. If it doesn't  
>>>>>bother  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>her,=20  
>>>>>then it likely won't bother anyone else....(but me)</FONT></DIV>  
>>>>><DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
>>>>><DIV><FONT face=3DArial size=3D2>;o</FONT></DIV>  
>>>>><DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
>>>>><DIV> </DIV>  
>>>>><DIV>"Brandon" <<A href=3D"mailto:a@a.com">a@a.com</A>> wrote in =  
>>>>>message <A=20  
>>>>>href=3D"news:462d1367@linux">news:462d1367@linux</A>...</DIV>  
>>>>><BLOCKQUOTE dir=3Dltr=20  
>>>>>style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =  
>>>>>BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">  
>>>>><DIV><FONT face=3DArial>so what are you using in place of the=20  
>>>>>raptors?</FONT></DIV>  
>>>>><DIV><FONT face=3DArial>I am running 2 10k rpm sata drives...1 OS and  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>1=20  
>>>>>audio.</FONT></DIV>  
>>>>><DIV><FONT face=3DArial>I am running a 2.2gig AMD with 2gig ram.=20  
>>>>>DDR400.</FONT></DIV>  
>>>>><DIV><FONT face=3DArial>I am recording at 192k buffer and get clicks =  
>>>>>and pops=20  
>>>>>when using VST realtime effects while tracking.</FONT></DIV>  
>>>>><DIV><FONT face=3DArial>Cubase SX3.</FONT></DIV>  
>>>>><DIV><FONT face=3DArial></FONT> </DIV>  
>>>>><DIV><BR>-- <BR>Thanks,</DIV>  
>>>>><DIV> </DIV>  
>>>>><DIV>Brandon </DIV>  
>>>>><BLOCKQUOTE dir=3Dltr=20  
>>>>>style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =  
>>>>>BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">  
>>>>> <DIV>"Tom Bruhl" <<A=20  
>>>>> href=3D"mailto:arpeggio@comcast.net">arpeggio@comcast.net</A>> =  
>>>>>wrote in=20  
>>>>> message <A =  
>>>>>href=3D"news:462d101f@linux">news:462d101f@linux</A>...</DIV>  
>>>>> <DIV><FONT face=3DArial size=3D2>Deej,</FONT></DIV>  
>>>>> <DIV><FONT face=3DArial size=3D2>I've got that Silicon SATA on my =  
>>>>>Paris rig and=20

>>>>> it blows. Chris L. suggested the same.</FONT></DIV>  
>>>>> <DIV><FONT face=3DArial size=3D2>I have had much better luck with =  
>>>>></FONT><FONT=20  
>>>>> face=3DArial size=3D2>standard ide.</FONT></DIV>  
>>>>> <DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
>>>>> <DIV><FONT face=3DArial size=3D2>I'm glad you're not bailing so=20  
>>>>> quickly!</FONT></DIV>  
>>>>> <DIV><FONT face=3DArial size=3D2>Tom</FONT></DIV>  
>>>>> <DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
>>>>> <DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
>>>>> <BLOCKQUOTE=20  
>>>>> style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =  
>>>>>BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">  
>>>>> <DIV>"DJ" <<A=20  
>>>>> =  
>>>>>href=3D"http://www.aarrrrggghhh!!!.com">www.aarrrrggghhh!!!.com</A>=>20  
>>>>> wrote in message <A=20  
>>>>> =  
>>>>>href=3D"news:462d0cdc\$1 @linux">news:462d0cdc\$1 @linux</A>...</DIV>Well,  
>>>>>=  
>>>>>from=20  
>>>>> all of my previous posts, it's pretty obvious that I've been=20  
>>>>> <BR>struggling with some issues with my system being able to track  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>lots of=20  
>>>>> live <BR>inputs while monitoring previously recorded ones at low =  
>>>>>latency=20  
>>>>> with ASIO <BR>direct monitoring turned off.<BR><BR>I've been doing  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>some=20  
>>>>> tweaking here this morning aand I just turned off that <BR>evil =  
>>>>>\*\*\*\*in=20  
>>>>> SIL SATA raid controller in the BIOS and pulled my Raptors off =  
>>>>><BR>the=20  
>>>>> mobo.<BR><BR>Something rather shocking has happened.<BR><BR>I am =  
>>>>>currently=20  
>>>>> playing back a 12 track project with Drumagog and various =  
>>>>><BR>UAD-1=20  
>>>>> plugins instantiated (not a huge load, but enough to accomplish =  
>>>>>some=20  
>>>>> <BR>ear candy which is all what I need here during dub sessions =  
>>>>>before the=20

>>>>> real <BR>mixing begins) while recording 20 live inputs at 64k =  
>>>>> buffers=20  
>>>>> (1.5ms), <BR>punching in and out at will. I can definitely live =  
>>>>> with 1.5ms=20  
>>>>> latency.<BR><BR>The Cubase 4 CPU meter is bouncing along at =  
>>>>> approximately=20  
>>>>> 50% usage.<BR><BR>I haven't configured the Control room mode for =  
>>>>> tracking=20  
>>>>> just yet, but unless <BR>creating a few busses is a substantial =  
>>>>> CPU hit, I=20  
>>>>> may be able to accomplish <BR>what I need here with what I've got  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>> right=20  
>>>>> now.....of course, this <BR>will require me not to spend  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>> \$2000.00 on a computer upgrade and that's never =  
>>>>> <BR>good.<BR><BR>;o)=20  
>>>>> <BR><BR></BLOCKQUOTE>  
>>>>> <DIV><FONT size=3D2><BR><BR>I choose Polesoft Lockspam to fight =  
>>>>> spam, and=20  
>>>>> you?<BR><A=20  
>>>>> =  
>>>>> href=3D"http://www.polesoft.com/refer.html">http://www.polesoft.com/refer=  
>>>>> .html</A> </FONT></DIV></BLOCKQUOTE></BLOCKQUOTE></BODY>=  
>>>>> </HTML>  
>>>>>  
>>>>>  
>  
>

---

Subject: Re: HOLY \*\*\*\*\*!!!!!!-what a difference!!!  
Posted by [Deej \[4\]](#) on Tue, 24 Apr 2007 03:07:58 GMT  
[View Forum Message](#) <> [Reply to Message](#)

I think it's cute!!!.....in a warty sorta' way.  
;o)

"Dave(EK Sound)" <audioguy\_editout\_@shaw.ca> wrote in message  
news:462d73f6@linux...  
> Oh come on now!!! You could build that thing for \$20! Get a single space  
> blank panel and build one using 4PDT switches... You can rack it that way

> and it would look better than a "desk wart".  
>  
> David.  
>  
> DJ wrote:  
>  
>> <http://www.markertek.com/Product.asp?baseItem=COL%2DLS3&cat=AUDIOEQUIP&subcat=AUDINT&prodClass=AUDCONV&mf=Coleman+Audio&search=0&off=>  
>>  
>> Looks like this, and an insert cable from one of the headphone output of  
>> the HRM-16 mixer to a pair of the inputs on the back of this thing would  
>> allow me to switch to monitoring what is being played back from the  
>> tracking busses through my control room monitors with the push of a  
>> button. I'm not sure about the levels that would be output from the  
>> headphone amp though. I have tried it and it's got enough gain to drive  
>> the PVC cleanly. I guess I'd better look into this a bit further when  
>> I'm not so tired. It's been a long day. I don't want to fry something by  
>> mismatching voltage/ impedance between the headphone output and an input  
>> to a power amp driving my monitors..  
>>  
>>  
>> L/R input of the PVC. Furthermore, it's gonna have to boost the voltage  
>> to  
>> "DJ" <[www.aarrrrggghh!!!.com](mailto:www.aarrrrggghh!!!.com)> wrote in message news:462d5945@linux...  
>>  
>>>OK then.. I was wondering why I was not having any \*issues\* with this. I  
>>>have all mono inputs routed 1:1 to outs and the outs are feeding the mono  
>>>or stereo L/R inputs of the HDS-16 with the prerecorded tracks routed to  
>>>an analog pair of RME outs being sent to the main mix bus of the HDS-16.  
>>>It looks like the Furman HDS-16 is a great thing for this particular  
>>>situation. I was hoping to make it obsolete (and subsequently sell it  
>>>off) by using the Cubase 4 CR function, but the latency just isn't  
>>>acceptable. For tracking sessions I will use one of the HDS-16 mixers in  
>>>the CR and route one of the headphone outs to one of my PVC's which are  
>>>outputting to a pair of studio monitors. This will save much of the  
>>>mousing around during tracking sessions and when I get ready for critical  
>>>listening during a mix, I can just bus the recorded tracks as needed,  
>>>monitoring off my mains which are digitally routed to the  
>>>DAC-1.....QED!!!..errrr.....sorta'.  
>>>  
>>>Thanks,  
>>>;o)  
>>>  
>>>  
>>>"EK Sound" <[askme@nospam.com](mailto:askme@nospam.com)> wrote in message news:462d2e60@linux...  
>>>  
>>>>Stuff that is already recorded is no problem... you could set the

>>>>buffers to 1056 and everything would be cool. It's the "monitor what you  
>>>>are currently recording" thing where latency is an issue. If you have a  
>>>>way to monitor the recording signal using direct monitoring (the input  
>>>>is usually routed to the same # output... 1 to 1, 2 to 2 etc.) then you  
>>>>are good to go. If you are trying to monitor input 1 to output 7 for  
>>>>instance, or a \*mix\* of several inputs to one output, the delay will be  
>>>>noticeable. This is really noticable if you try to monitor a stereo and  
>>>>mono track to one pair of outputs, as a stereo signal has twice the  
>>>>latency of a mono one.

>>>>

>>>>David.

>>>>

>>>>DJ wrote:

>>>>

>>>>>Neil,

>>>>>

>>>>>I have apparently been going at this native thing with some  
>>>>>preconceptions about ASIO direct monitoring that aren't at all  
>>>>>accurate. I haven't been doing much in the way of tracking (lots of  
>>>>>mixing) so I guess that's understandable. I was under the impression  
>>>>>that I would not be able to monitor previously recorded tracks with  
>>>>>plugins inserted on the channels or sends while tracking unless I  
>>>>>disabled ASIO direct monitoring. Obviously this is not the case. I just  
>>>>>set my project to 512k buffers. It has 12 tracks already recorded. I  
>>>>>enabled ASIO direct monitoring and inserted 9 UAD-1 plugins on various  
>>>>>of the pre recorded tracks. I also installed one of my outboard reverbs  
>>>>>as a send on a few of them. I have them all (including the outboard  
>>>>>reverb) outputting to an analog pair that I'm sending to my Furman  
>>>>>HDS-16 system. At the same time, I've got 20 more audio tracks  
>>>>>recording. Since I have ADM there is no audible latency but the  
>>>>>astounding thing about it is that I'm also hearing all of the  
>>>>>prerecorded tracks that are being processed by the UAD-1 plugins during  
>>>>>playback. The processing is working and it is very obvious, and there  
>>>>>is no latency. I didn't think this was possible to do. My Cubase DSP  
>>>>>meter is at about 10%. Hell, man, I could record 20 tracks and play  
>>>>>back 50 or 60 with no problem. Is this normal or some kind of happy  
>>>>>accident/bug? I shouldn't be able to hear plugins on prerecorded tracks  
>>>>>with ADM enabled, should I?

>>>>>

>>>>>At this point, the only inconvenience with a tracking session is having  
>>>>>to mouse all of the tracks to the main monitor bus if I want to hear  
>>>>>them through my DAC-1. Well, during tracking, I don't necessarily need  
>>>>>to use my DAC-1 so I have an easy workaround bypass this to a pair of  
>>>>>the RME outs and split them off to the HDS-16 and my NHT PVC  
>>>>>simultaneously.

>>>>>

>>>>>Hell man.....this is great!

>>>>>

>>>>  
>>>>  
>>>>  
>>>>"Neil" <OIUOIU@OIU.com> wrote in message news:462d2549\$1@linux...  
>>>>  
>>>>  
>>>>>Deej, I just don't get how you're hearing ANY latency at all,  
>>>>>unless you have "ZLM" (zero-latency monitoring) unchecked in  
>>>>>Totalmix.  
>>>>>  
>>>>>I agree, even a little bit of latency bugs the crap out of me if  
>>>>>I'm tracking... where exactly is your monitor feed coming from?  
>>>>>IMO, you shouldn't hear any latency whatsoever - unless I'm  
>>>>>completely misunderstanding your setup (which is, let's face it,  
>>>>>quite possible).  
>>>>>  
>>>>>Neil  
>>>>>  
>>>>>"DJ" <www.aarrrrggghh!!!.com> wrote:  
>>>>>  
>>>>>  
>>>>>>I'm just using a standard ATA 133 IDE drive. Plenty of mojo for  
>>>>>>moderate  
>>>>>  
>>>>>=  
>>>>>  
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>>>>>>track counts.=20  
>>>>>  
>>>>>>I've testing the \*usability\* of working at 32k buffers, 64k buffers  
>>>>>>and  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>>128k buffers here this morning. I don't have the horsepower to record  
>>>>>>=  
>>>>>>and play back tracks simultaneously at 32k buffers (0.7 ms). I did  
>>>>>>test  
>>>>>  
>>>>>=  
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>>>>>  
>>>>>>recording a single track at 0.7 ms without any tracks playing back  
>>>>>>and  
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>>>>>

>>>>>  
>>>>>>I can do it, but it sounds a teeny bit phasey to me. Not a show  
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>>>>>  
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>>>>>  
>>>>>  
>>>>>>but definitely a difference when compared to using ASIO direct =  
>>>>>>monitoring. I can play back 12 tracks and record 20 tracks with up  
>>>>>>to =  
>>>>>>around 25% of the DSP usage of my UAD-1's on the recorded tracks  
>>>>>>without  
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>>>>>=  
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>>>>>  
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>>>>>>Disable =  
>>>>>>the UAD-1 and it drops down to between 50-60%. The audible phasing at  
>>>>>>=  
>>>>>>64k (1.5ms latency) is about as noticable as it is at 32k buffers  
>>>>>>(0.7ms  
>>>>>  
>>>>>=  
>>>>>  
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>>>>>>phasing =  
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>>>>>>to =  
>>>>>>stand up on it's hind legs and bark at 0.7ms latency, I would be  
>>>>>>hearing  
>>>>>  
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>>>>>  
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>>>>>  
>>>>>=  
>>>>>

>>>>>  
>>>>>>that is created by the AD/DA conversion. ASIO direct monitoring is  
>>>>>>much  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>>more equivalent to Paris latency (zero audible) because all you're =  
>>>>>>getting is the appx 1.5 ms of the AD/DA conversion. Once it exceeds =  
>>>>>>that, I can hear it.  
>>>>>>  
>>>>>>After all this crap I've gone through, I think may just get myself =  
>>>>>>another Furman HRM-16 mixer for my desktop so I can monitor the cue  
>>>>>>mix  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>>that is being sent to the rest of the studio via analog and see if I  
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>>>>>>create some kind of macro to switch all all track outputs to the main  
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>>>>>=  
>>>>>  
>>>>>  
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>>>>>>=  
>>>>>>this is just a fact of life with native systems I guess and isn't a  
>>>>>>deal  
>>>>>  
>>>>>=  
>>>>>  
>>>>>

>>>>>>killer. Looks like even the most powerful DAWs will be subject to at  
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>>>>>>then it likely won't bother anyone else....(but me)  
>>>>>>  
>>>>>>;o)  
>>>>>>  
>>>>>>  
>>>>>>"Brandon" <a@a.com> wrote in message news:462d1367@linux...  
>>>>>>so what are you using in place of the raptors?  
>>>>>>I am running 2 10k rpm sata drives...1 OS and 1 audio.  
>>>>>>I am running a 2.2gig AMD with 2gig ram. DDR400.  
>>>>>>I am recording at 192k buffer and get clicks and pops when using VST  
>>>>>>=  
>>>>>>realtime effects while tracking.  
>>>>>>Cubase SX3.  
>>>>>>  
>>>>>>  
>>>>>>--=20  
>>>>>>Thanks,  
>>>>>>  
>>>>>>Brandon=20  
>>>>>> "Tom Bruhl" <arpeggio@comcast.net> wrote in message =  
>>>>>>news:462d101f@linux...  
>>>>>> DeeJ,  
>>>>>> I've got that Silicon SATA on my Paris rig and it blows. Chris L. =  
>>>>>>suggested the same.  
>>>>>> I have had much better luck with standard ide.  
>>>>>>  
>>>>>> I'm glad you're not bailing so quickly!  
>>>>>> Tom  
>>>>>>  
>>>>>>  
>>>>>> "DJ" <www.aarrrrggghhh!!!.com> wrote in message =  
>>>>>>news:462d0cdc\$1@linux...  
>>>>>> Well, from all of my previous posts, it's pretty obvious that

>>>>>> I've  
>>>>>>  
>>>>>>=  
>>>>>>  
>>>>>>  
>>>>>>been=20  
>>>>>> struggling with some issues with my system being able to track =  
>>>>>>lots of live=20  
>>>>>> inputs while monitoring previously recorded ones at low latency =  
>>>>>>with ASIO=20  
>>>>>> direct monitoring turned off.  
>>>>>>  
>>>>>> I've been doing some tweaking here this morning aand I just  
>>>>>> turned  
>>>>>>  
>>>>>>=  
>>>>>>  
>>>>>>  
>>>>>>off that=20  
>>>>>> evil \*\*\*\*in SIL SATA raid controller in the BIOS and pulled my =  
>>>>>>Raptors off=20  
>>>>>> the mobo.  
>>>>>>  
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>>>>>>  
>>>>>> I am currently playing back a 12 track project with Drumagog and  
>>>>>> =  
>>>>>>various=20  
>>>>>> UAD-1 plugins instantiated (not a huge load, but enough to =  
>>>>>>accomplish some=20  
>>>>>> ear candy which is all what I need here during dub sessions  
>>>>>> before  
>>>>>>  
>>>>>>=  
>>>>>>  
>>>>>>  
>>>>>>the real=20  
>>>>>> mixing begins) while recording 20 live inputs at 64k buffers =  
>>>>>>(1.5ms),=20  
>>>>>> punching in and out at will. I can definitely live with 1.5ms =  
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>>>>>>  
>>>>>> The Cubase 4 CPU meter is bouncing along at approximately 50% =  
>>>>>>usage.  
>>>>>>  
>>>>>> I haven't configured the Control room mode for tracking just yet,  
>>>>>>  
>>>>>>=  
>>>>>>

>>>>>  
>>>>>  
>>>>>>but unless=20  
>>>>>> creating a few busses is a substantial CPU hit, I may be able to  
>>>>>> =  
>>>>>>accomplish=20  
>>>>>> what I need here with what I've got right now.....of =  
>>>>>>course, this=20  
>>>>>> will require me not to spend \$2000.00 on a computer upgrade and =  
>>>>>>that's never=20  
>>>>>> good.  
>>>>>>  
>>>>>> ;o)=20  
>>>>>>  
>>>>>>  
>>>>>>  
>>>>>> I choose Polesoft Lockspam to fight spam, and you?  
>>>>>> <http://www.polesoft.com/refer.html>  
>>>>>>  
>>>>>><!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">  
>>>>>><HTML><HEAD>  
>>>>>><META http-equiv=3DContent-Type content=3D"text/html; =  
>>>>>>charset=3Diso-8859-1">  
>>>>>><META content=3D"MSHTML 6.00.6000.16414" name=3DGENERATOR>  
>>>>>><STYLE></STYLE>  
>>>>>></HEAD>  
>>>>>><BODY bgColor=3D#ffffff>  
>>>>>><DIV><FONT face=3DArial size=3D2>I'm just using a standard ATA 133  
>>>>>>IDE =  
>>>>>>drive. Plenty=20  
>>>>>>of mojo for moderate track counts. </FONT></DIV>  
>>>>>><DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
>>>>>><DIV><FONT face=3DArial size=3D2>I've testing the \*usability\* of  
>>>>>>working  
>>>>>>  
>>>>>>=  
>>>>>>  
>>>>>>  
>>>>>>>at 32k=20  
>>>>>>>buffers, 64k buffers and 128k buffers here this morning. I don't have  
>>>>>>=  
>>>>>>>the=20  
>>>>>>>horsepower to record and play back tracks simultaneously at 32k  
>>>>>>>buffers  
>>>>>>  
>>>>>>=  
>>>>>>

>>>>>  
>>>>>>(0.7=20  
>>>>>>ms). I did test recording a single track at 0.7 ms without =  
>>>>>>any tracks=20  
>>>>>>playing back and I can do it, but it sounds a teeny bit phasey to me.  
>>>>>>=  
>>>>>>Not a show=20  
>>>>>>stopper but definitely a difference when compared to using ASIO  
>>>>>>direct=20  
>>>>>>monitoring. I can play back 12 tracks and record 20 tracks =  
>>>>>>with up to=20  
>>>>>>around 25% of the DSP usage of my UAD-1's on the recorded tracks  
>>>>>>without  
>>>>>>  
>>>>>>=  
>>>>>>  
>>>>>>  
>>>>>>problems and the Cubase DSP meter is around 70% (this is sorta'  
>>>>>>nervous=20  
>>>>>>territory where you don't want to be mousing around too much).  
>>>>>>Disable =  
>>>>>>the UAD-1=20  
>>>>>>and it drops down to between 50-60%. The audible phasing at 64k  
>>>>>>(1.5ms =  
>>>>>>latency)=20  
>>>>>>is about as noticable as it is at 32k buffers (0.7ms latency). What  
>>>>>>is=20  
>>>>>>disturbing to me is that I'm hearing audible phasing at all at 32k =  
>>>>>>buffers. Even=20  
>>>>>>if I had a monster system that was able to stand up on it's hind legs  
>>>>>>=  
>>>>>>and bark=20  
>>>>>>at 0.7ms latency, I would be hearing audible phasing. I'm sure this  
>>>>>>is =  
>>>>>>because=20  
>>>>>>I'm not just hearing the latency that the buffer creates, I'm also =  
>>>>>>hearing=20  
>>>>>>another 1.5 ms latency that is created by the AD/DA conversion. =  
>>>>>></FONT><FONT=20  
>>>>>>face=3DArial size=3D2>ASIO direct monitoring is much more equivalent  
>>>>>>to  
>>>>>>  
>>>>>>=  
>>>>>>  
>>>>>>  
>>>>>>Paris=20  
>>>>>>latency (zero audible) because all you're getting is the appx 1.5 ms  
>>>>>>of

>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>>the=20  
>>>>>>AD/DA conversion. Once it exceeds that, I can hear it.</FONT></DIV>  
>>>>>><DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
>>>>>><DIV><FONT face=3DArial size=3D2>After all this crap I've gone  
>>>>>>through,  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>>I think may=20  
>>>>>>just get myself another Furman HRM-16 mixer for my desktop so I can =  
>>>>>>monitor the=20  
>>>>>>cue mix that is being sent to the rest of the studio via analog and  
>>>>>>see  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>>if I can=20  
>>>>>>create some kind of macro to switch all all track outputs to the =  
>>>>>>main=20  
>>>>>>monitor bus in the CR when everyone comes trooping in from the  
>>>>>>tracking  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>>area to=20  
>>>>>>listen in the CR.</FONT></DIV>  
>>>>>><DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
>>>>>><DIV><FONT face=3DArial size=3D2>A bit more mousing around, but it's  
>>>>>>=  
>>>>>>preferable to=20  
>>>>>>hearing latency in the cans. I won't be able to monitor with FX on  
>>>>>>pre =  
>>>>>>recorded=20  
>>>>>>tracks, but this is just a fact of life with native systems I guess  
>>>>>>and  
>>>>>  
>>>>>=  
>>>>>  
>>>>>  
>>>>>>isn't a=20  
>>>>>>deal killer. Looks like even the most powerful DAWs will be subject =

>>>>>>to at=20  
>>>>>>least 0.7 ms + 1.5 ms latency and I can clearly hear this.  
>>>>>></FONT></DIV>  
>>>>>><DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
>>>>>><DIV><FONT face=3DArial size=3D2>Maybe my ears are just too friggin'  
>>>>>>=  
>>>>>>sensitive and=20  
>>>>>>this teeny bit of latency wouldn't bother someone else. It sure bugs  
>>>>>>me  
>>>>>>  
>>>>>>=  
>>>>>>  
>>>>>>  
>>>>>>though.=20  
>>>>>>I'll get Amy on the mic later on today and give this a go at 64k  
>>>>>>buffers  
>>>>>>  
>>>>>>=  
>>>>>>  
>>>>>>  
>>>>>>(1.5ms). Her hearing is twice as sensitive as mine. If it doesn't  
>>>>>>bother  
>>>>>>  
>>>>>>=  
>>>>>>  
>>>>>>  
>>>>>>her.=20  
>>>>>>then it likely won't bother anyone else....(but me)</FONT></DIV>  
>>>>>><DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
>>>>>><DIV><FONT face=3DArial size=3D2>;o</FONT></DIV>  
>>>>>><DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
>>>>>><DIV> </DIV>  
>>>>>><DIV>"Brandon" <<A href=3D"mailto:a@a.com">a@a.com</A>> wrote in =  
>>>>>>message <A=20  
>>>>>>href=3D"news:462d1367@linux">news:462d1367@linux</A>...</DIV>  
>>>>>><BLOCKQUOTE dir=3Dltr=20  
>>>>>>style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =  
>>>>>>BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">  
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>>>>>>DDR400.</FONT></DIV>  
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>>>>>>and pops=20  
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>>>>>><DIV><FONT face=3DArial>Cubase SX3.</FONT></DIV>  
>>>>>><DIV><FONT face=3DArial></FONT> </DIV>  
>>>>>><DIV><BR>-- <BR>Thanks,</DIV>  
>>>>>><DIV> </DIV>  
>>>>>><DIV>Brandon </DIV>  
>>>>>><BLOCKQUOTE dir=3Dltr=20  
>>>>>>style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =  
>>>>>>BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">  
>>>>>> <DIV>"Tom Bruhl" <<A=20  
>>>>>> href=3D"mailto:arpeggio@comcast.net">arpeggio@comcast.net</A>> =  
>>>>>>wrote in=20  
>>>>>> message <A =  
>>>>>>href=3D"news:462d101f@linux">news:462d101f@linux</A>...</DIV>  
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>>>>>> <DIV><FONT face=3DArial size=3D2>I've got that Silicon SATA on my =  
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>>>>>> style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =  
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>>>>>> =  
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>>>>>>=  
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>>>>>>=  
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>>>>>> tweaking here this morning aand I just turned off that <BR>evil =  
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>>>>>> latency.<BR><BR>The Cubase 4 CPU meter is bouncing along at =  
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>>>>>> =  
>>>>>>tracking=20  
>>>>>> just yet, but unless <BR>creating a few busses is a substantial =  
>>>>>>CPU hit, I=20  
>>>>>> may be able to accomplish <BR>what I need here with what I've got  
>>>>>>  
>>>>>>=  
>>>>>>  
>>>>>>  
>>>>>>right=20  
>>>>>> now.....of course, this <BR>will require me not to  
>>>>>> spend  
>>>>>>  
>>>>>>=  
>>>>>>  
>>>>>>

```
>>>>>> $2000.00 on a computer upgrade and that's never =
>>>>>><BR>good.<BR><BR>;o)=20
>>>>>> <BR><BR></BLOCKQUOTE>
>>>>>> <DIV><FONT size=3D2><BR><BR>I choose Polesoft Lockspam to fight =
>>>>>>>spam, and=20
>>>>>> you?<BR><A=20
>>>>>> =
>>>>>>>href=3D"http://www.polesoft.com/refer.html">http://www.polesoft.com/refer=
>>>>>>>.html</A> </FONT></DIV></BLOCKQUOTE></BLOCKQUOTE></BODY>=
>>>>>>></HTML>
>>>>>>>
>>>>>>>
>>
```

---

---

Subject: Re: HOLY \*\*\*\*\*!!!!!!-what a difference!!!  
Posted by [LaMont](#) on Tue, 24 Apr 2007 03:35:48 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Told you ..he he.. Just straight 1 drive should be more than sufficient these days.. :)

"DJ" <[www.aarrrrggghh!!!.com](http://www.aarrrrggghh!!!.com)> wrote:

>Well, from all of my previous posts, it's pretty obvious that I've been

>struggling with some issues with my system being able to track lots of live

>inputs while monitoring previously recorded ones at low latency with ASIO

>direct monitoring turned off.

>

>I've been doing some tweaking here this morning aand I just turned off that

>evil \*\*\*\*\*in SIL SATA raid controller in the BIOS and pulled my Raptors  
off

>the mobo.

>

>Something rather shocking has happened.

>

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>UAD-1 plugins instantiated (not a huge load, but enough to accomplish some

>ear candy which is all what I need here during dub sessions before the real

>mixing begins) while recording 20 live inputs at 64k buffers (1.5ms),

>punching in and out at will. I can definitely live with 1.5ms latency.

>

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>will require me not to spend \$2000.00 on a computer upgrade and that's never  
>good.  
>  
>;o)  
>  
>

---

---

Subject: Re: HOLY \*\*\*\*#!!!!!-what a difference!!!  
Posted by [rick](#) on Tue, 24 Apr 2007 09:03:21 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

what are your 20 dubs and what are the 12 original trks? seems like kind of an unusual way of tracking. just curious.

On Mon, 23 Apr 2007 13:41:38 -0600, "DJ" <[www.aarrrrggghh!!!.com](http://www.aarrrrggghh!!!.com)> wrote:

>Well, from all of my previous posts, it's pretty obvious that I've been  
>struggling with some issues with my system being able to track lots of live  
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>  
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>mixing begins) while recording 20 live inputs at 64k buffers (1.5ms),  
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>  
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>  
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>good.  
>  
>;o)  
>

---

---

Subject: Re: HOLY \*\*\*\*\*!!!!!!-what a difference!!!  
Posted by [neil\[1\]](#) on Tue, 24 Apr 2007 13:36:09 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

rick <parnell68@hotmail.com> wrote:  
>what are your 20 dubs and what are the 12 original trks? seems like  
>kind of an unusual way of tracking. just curious.

Well, lessee... it's Bluegrass, and it's Deej, so I'm thinking  
the 12 original tracks are probably something like:

- 1.) Kick
- 2.) Snare Top
- 3.) Snare Bottom
- 4.) Snare Side
- 5.) Snare Oblique
- 6.) HiHat L
- 7.) HiHat R
- 8.) Tom
- 9.) OH L
- 10.) OH R
- 11.) Scratch vocal
- 12.) Scratch everything else

And the overdubs are probably:

- 1.) Banjo neck
- 2.) Banjo body
- 3.) Banjo floor reflections
- 4.) Banjo chair (contact pickup - gotta get all the creaks)
- 5.) Banjo room L
- 6.) Banjo room R
- 7.) Acoustic Guitar neck
- 8.) Acoustic Guitar body
- 9.) Acoustic Guitar direct (piezo)
- 10.) Acoustic Guitar Overhead behind left shoulder
- 11.) Acoustic Guitar Overhead behind right shoulder
- 12.) Acoustic Guitar ambience out by the barn
- 13.) Fiddle close
- 14.) Fiddle distant
- 15.) Contact pickup stuck up the fiddle players' ass

- 16.) Bass amped
- 17.) Bass direct
- 18.) Both bass signals above combined & phase-aligned
- 19.) Original drum OH tracks re-amped & shot into the barn L
- 20.) Original drum OH tracks re-amped & shot into the barn R

....which means, of course, that any cowbell would have to come on the next overdub pass.

:D

---

Subject: Re: HOLY \*\*\*\*\*!!!!!!-what a difference!!!  
Posted by [Deej \[4\]](#) on Tue, 24 Apr 2007 15:25:57 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

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

"Neil" <IOUOIU@OIU.com> wrote in message news:462e07c9\$1@linux...

>

> rick <parnell68@hotmail.com> wrote:

>>what are your 20 dubs and what are the 12 original trks? seems like

>>kind of an unusual way of tracking. just curious.

>

> Well, lessee... it's Bluegrass, and it's DeeJ, so I'm thinking

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  - >
  - > ...which means, of course, that any cowbell would have to come
  - > on the next overdub pass.
  - >
  - > :D
- 

---

Subject: Re: HOLY \*\*\*\*\*!!!!!!-what a difference!!!  
Posted by [rick](#) on Tue, 24 Apr 2007 19:02:33 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

plus the l+r lavalier ear mics...thanks i should have known it was a simple answer.

On 24 Apr 2007 23:36:09 +1000, "Neil" <IOUOIU@OIU.com> wrote:

- >
- >rick <parnell68@hotmail.com> wrote:
- >>what are your 20 dubs and what are the 12 original trks? seems like
- >>kind of an unusual way of tracking. just curious.
- >
- >Well, lessee... it's Bluegrass, and it's Deej, so I'm thinking
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---

Subject: Re: HOLY \*\*\*\*\*!!!!!!-what a difference!!!  
Posted by [Martin Harrington](#) on Wed, 25 Apr 2007 00:34:43 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

But....did you notice that he didn't deny it...

--

Martin Harrington

[www.lendaneer-sound.com](http://www.lendaneer-sound.com)

"DJ" <[www.aarrrrggghhh!!!.com](mailto:www.aarrrrggghhh!!!.com)> wrote in message news:462e226e@linux...

> ROTFL!!!!!!.....

>

>

> "Neil" <[IOUOIU@OIU.com](mailto:IOUOIU@OIU.com)> wrote in message news:462e07c9\$1@linux...

>>

>> rick <[parnell68@hotmail.com](mailto:parnell68@hotmail.com)> wrote:

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>> 12.) Scratch everything else  
>>  
>> And the overdubs are probably:  
>> 1.) Banjo neck  
>> 2.) Banjo body  
>> 3.) Banjo floor reflections  
>> 4.) Banjo chair (contact pickup - gotta get all the creaks)  
>> 5.) Banjo room L  
>> 6.) Banjo room R  
>> 7.) Acoustic Guitar neck  
>> 8.) Acoustic Guitar body  
>> 9.) Acoustic Guitar direct (piezo)  
>> 10.) Acoustic Guitar Overhead behind left shoulder  
>> 11.) Acoustic Guitar Overhead behind right shoulder  
>> 12.) Acoustic Guitar ambience out by the barn  
>> 13.) Fiddle close  
>> 14.) Fiddle distant  
>> 15.) Contact pickup stuck up the fiddle players' ass  
>> 16.) Bass amped  
>> 17.) Bass direct  
>> 18.) Both bass signals above combined & phase-aligned  
>> 19.) Original drum OH tracks re-amped & shot into the barn L  
>> 20.) Original drum OH tracks re-amped & shot into the barn R  
>>  
>> ...which means, of course, that any cowbell would have to come  
>> on the next overdub pass.  
>>  
>> :D  
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