
Subject: HOLY *****!!!!!!-what a difference!!!
Posted by [Deej \[4\]](#) on Mon, 23 Apr 2007 19:41:38 GMT
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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.

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)

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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Content-Transfer-Encoding: quoted-printable

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Subject: Re: HOLY *****!!!!!!-what a difference!!!
Posted by [Neil](#) on Mon, 23 Apr 2007 21:29:45 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).

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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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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](#)

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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> I've been doing some tweaking here this morning and I just
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> I haven't configured the Control room mode for tracking just
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> able to accomplish
> what I need here with what I've got right
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> I choose Polesoft Lockspam to fight spam, and you?
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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](#)

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...

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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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> "DJ" <www.aarrrrggghh!!!.com> wrote:
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>>I'm just using a standard ATA 133 IDE drive. Plenty of mojo for moderate
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>> http://www.polesoft.com/refer.html
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>><!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 =
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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](#)

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,

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> about ASIO direct monitoring that aren't at all accurate. I haven't been
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>>><META http-equiv=3DContent-Type content=3D"text/html; =
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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

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?
>>
>> 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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>>>><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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>>>> now.....of course, this <BR>will require me not to spend
>>>
>>>=
>>>
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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.
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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> 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:

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

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> 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
>>>>
>>>>"DJ" <www.aarrrrggghhh!!!.com> wrote:
>>>>
>>>>>
>>>>>I'm just using a standard ATA 133 IDE drive. Plenty of mojo for
>>>>>moderate
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>>>>>=
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>>>>>track counts.=20
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>>>>>I've testing the *usability* of working at 32k buffers, 64k buffers and
>>>>>
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>>>>>128k buffers here this morning. I don't have the horsepower to record =
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>>>> <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>
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>>>>> 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:arpegio@comcast.net">arpegio@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>
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</BLOCKQUOTE>
>>>> <DIV>

I choose Polesoft Lockspam to fight =
>>>>spam, and=20
>>>> you?
<A=20
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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?

>>

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>>

>>

>>>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&mfg=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> 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
>>>>>
>>>>>"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
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>>>>>>>=
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>>>>>>>>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 stopper
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>>>>>but definitely a difference when compared to using ASIO direct =
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>>>>>

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>>>>>that is created by the AD/DA conversion. ASIO direct monitoring is much
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>>>>>=
>>>>>
>>>>>
>>>>>>more equivalent to Paris latency (zero audible) because all you're =
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>>>>>>that, I can hear it.
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>>>>>
>>>>>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
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>>>>>Maybe my ears are just too friggin' sensitive and this teeny bit of =
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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,
>>>>>
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>>>>> 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>
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Something rather shocking has happened.

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>>>>>
>>>>> \$2000.00 on a computer upgrade and that's never =
>>>>>
good.

;o)=20
>>>>>

</BLOCKQUOTE>
>>>>> <DIV>

I choose Polesoft Lockspam to fight =
>>>>> spam, and=20
>>>>> you?
<A=20
>>>>> =
>>>>> href=3D"http://www.polesoft.com/refer.html">http://www.polesoft.com/refer=
>>>>> .html </DIV></BLOCKQUOTE></BLOCKQUOTE></BODY>=
>>>>> </HTML>
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>>>>>
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>

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> 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
>>>>>
>>>>>"DJ" <www.aarrrrggghh!!!.com> wrote:
>>>>>
>>>>>
>>>>>>I'm just using a standard ATA 133 IDE drive. Plenty of mojo for
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>>>>>
>>>>>=
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>>>>>>track counts.=20
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>>>>>>I've testing the *usability* of working at 32k buffers, 64k buffers
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>>>>>>128k buffers here this morning. I don't have the horsepower to record
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>>>>>>and play back tracks simultaneously at 32k buffers (0.7 ms). I did
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>>>>>=
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>>>>>>After all this crap I've gone through, I think may just get myself =
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>>>>>>so what are you using in place of the raptors?
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>>>>>>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
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>>>>>>Cubase SX3.
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>>>>>> I've got that Silicon SATA on my Paris rig and it blows. Chris L. =
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>>>>>> 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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>>>>>><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>I'm just using a standard ATA 133
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Subject: Re: HOLY *****!!!!!!-what a difference!!!
Posted by [LaMont](#) on Tue, 24 Apr 2007 03:35:48 GMT
[View Forum Message](#) <> [Reply to Message](#)

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>will require me not to spend \$2000.00 on a computer upgrade and that's never
>good.
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>;o)
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Subject: Re: HOLY ****#!!!!!-what a difference!!!
Posted by [rick](#) on Tue, 24 Apr 2007 09:03:21 GMT
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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>
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.
>
>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.
>
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Subject: Re: HOLY *****!!!!!!-what a difference!!!
Posted by [neil\[1\]](#) on Tue, 24 Apr 2007 13:36:09 GMT
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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
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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.

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 - > on the next overdub pass.
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 - > :D
-

Subject: Re: HOLY *****!!!!!!-what a difference!!!
Posted by [rick](#) on Tue, 24 Apr 2007 19:02:33 GMT
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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.
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>
>:D

Subject: Re: HOLY *****!!!!!!-what a difference!!!
Posted by [Martin Harrington](#) on Wed, 25 Apr 2007 00:34:43 GMT
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But....did you notice that he didn't deny it...

--

Martin Harrington

www.lendaneer-sound.com

"DJ" <www.aarrrrggghhh!!!.com> wrote in message news:462e226e@linux...

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

>

>

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

>>

>> rick <parnell68@hotmail.com> wrote:

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