
Subject: OK..now I can die happy
Posted by DJ on Tue, 11 Dec 2007 22:24:37 GMT
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This is a multi-part message in MIME format.

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I've been putting the finishing touches on testing my DAW setup this morning. The whole purpose of going to such extremes was to have a system running on a stable motherboard that is extremely compatible with the audio DSP cards that I prefer to use and that could integrate all of my analog and digital outboard hardware at either 44.1/48kHz or 88.2/96kHz with the flip of a switch. I wanted to be able to integrate the outboard digital processors that were only capable of 44.1/48k sample rates at 88.2kHz without going analog or jumping through a bunch of hoops. "Functional and fast" with lots of power was the goal here.

I have achieved the "flip of a switch" scenario as closely as possible. The "flip" actually has to involve resetting the sample rate of the Mytek A/D converter that is feeding the clock signal to a pair of clock distributors and a reboot of the computer so that the RME driver reconfigures the I/O for the proper sample rate. I know that having to reboot the DAW seems a bit of a kludge, but there have been reported issues with Mytek and RME hardware playing nice. The Mytek will not clock to the RME signal any other way than directly off the master clock signal and the MAD1 will not slave to an external clock with all of the crap integrated so I'm having to work within these fixed parameters, but it take about 3 minutes (the time it takes to reboot a computer) to switch all this stuff to work at any available sample rate without having to reconfigure any other hardware settings now and it's working flawlessly.

I have 24 analog inputs and outputs working at any sample rate and either 24 or 48 digital feeds from my slave DAW running VSTi's depending on the sample rate. I am not having any issues with using Systemlink at higher sample rates which is something of an achievement, or so I am told. I also have 6 x third party DSP cards working along with three audio interfaces using two 13 slot Magma chassis' on the Master DAW and a pair of RME HDSP 9652's on the slave DAW (a total of 252 clocked

digital audio streams). I'm having absolutely no PCI bus overload issues = here.

I have been holding off building a new system because what I have is = working so well and I don't think that I will get any kind of = exponential gain from new developments in DAW hardware until the dual = socket quad core issues are resolved by Steinberg and Vista is actually = useful for audio purposes. I am running Windows XP Pro on this system. I = think I may have also 'debunked" a few PCI bus bandwidth limitations = arguments relative to how many streams can be squeezed through the bus = while being processed by third party DSP cards. I've torture tested this = at 88.2 with a 30+ track count project with 90% DSP usage on the 4 x = UAD_1 cards and over 85% DSP usage on both the TC POCO,s with nary a pop = or crackle and I could have gone higher, but my situation here seldom = exceeds 32 track count projects at 44.1.. ..sooo.....FWIW, perhaps the = following will be of some practical use to someone here who is thinking = about "going native" and trying to integrate external hardware and keep = their stable, dependable PCI based DAW viable for the foreseeable future.

Well.....anyway.....you all know I'm nuts so if you are interested in = the latest round of "the madness", print out the attached word.doc.and this time, no chickens were sacrificed in the configuration of = this DAW.

;o)

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Subject: Re: OK..now I can die happy
Posted by [DJ](#) on Tue, 11 Dec 2007 23:26:46 GMT
[View Forum Message](#) <> [Reply to Message](#)

This is a multi-part message in MIME format.

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FWIW, I have resolved the "kludge" with having to reboot the computer. I am attaching a revised copy of the configuration instructions.=20

"DJ" <animix_at_animas_dot_net> wrote in message =
news:475f0f24@linux...

I've been putting the finishing touches on testing my DAW setup this morning. The whole purpose of going to such extremes was to have a system running on a stable motherboard that is extremely compatible with the audio DSP cards that I prefer to use and that could integrate all of my analog and digital outboard hardware at either 44.1/48kHz or 88.2/96kHz with the flip of a switch. I wanted to be able to integrate the outboard digital processors that were only capable of 44.1/48k sample rates at 88.2kHz without going analog or jumping through a bunch of hoops. "Functional and fast" with lots of power was the goal here.

I have achieved the "flip of a switch" scenario as closely as possible. The "flip" actually has to involve resetting the sample rate of the Mytek A/D converter that is feeding the clock signal to a pair of clock distributors and a reboot of the computer so that the RME driver reconfigures the I/O for the proper sample rate. I know that having to reboot the DAW seems a bit of a kludge, but there have been reported issues with Mytek and RME hardware playing nice. The Mytek will not clock to the RME signal any other way than directly off the master clock signal and the MAD1 will not slave to an external clock with all of the crap integrated so I'm having to work within these fixed parameters, but it take about 3 minutes (the time it takes to reboot a computer) to switch all this stuff to work at any available sample rate without having to reconfigure any other hardware settings now and it's working flawlessly.

I have 24 analog inputs and outputs working at any sample rate and either 24 or 48 digital feeds from my slave DAW running VSTi's depending on the sample rate. I am not having any issues with using Systemlink at

higher sample rates which is something of an achievement, or so I am told. I also have 6 x third party DSP cards working along with three audio interfaces using two 13 slot Magma chassis' on the Master DAW and a pair of RME HDSP 9652's on the slave DAW (a total of 252 clocked digital audio streams). I'm having absolutely no PCI bus overload issues here.

I have been holding off building a new system because what I have is working so well and I don't think that I will get any kind of exponential gain from new developments in DAW hardware until the dual socket quad core issues are resolved by Steinberg and Vista is actually useful for audio purposes. I am running Windows XP Pro on this system. I think I may have also 'debunked' a few PCI bus bandwidth limitations arguments relative to how many streams can be squeezed through the bus while being processed by third party DSP cards. I've torture tested this at 88.2 with a 30+ track count project with 90% DSP usage on the 4 x UAD_1 cards and over 85% DSP usage on both the TC POCO,s with nary a pop or crackle and I could have gone higher, but my situation here seldom exceeds 32 track count projects at 44.1.. ..sooo.....FWIW, perhaps the following will be of some practical use to someone here who is thinking about "going native" and trying to integrate external hardware and keep their stable, dependable PCI based DAW viable for the foreseeable future.

Well.....anyway.....you all know I'm nuts so if you are interested in the latest round of "the madness", print out the attached word.doc.and this time, no chickens were sacrificed in the configuration of this DAW.

;o)

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<DIV>"DJ" <animix _ at _ animas _ dot _ net>> wrote in message <A=20 href=3D"news:475f0f24@linux">news:475f0f24@linux...</DIV>

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Subject: Re: OK..now I can die happy
Posted by [DJ](#) on Wed, 12 Dec 2007 05:07:16 GMT
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"DC" <dc@spammersinHell.com> wrote in message news:475f6838\$1@linux...
>
> All I have to say is...
>
> WE ARE NOT WORTHY!!
>
>

I've tweaked it even further sinc my last post and it's even more
streamlined. Despite it's complexity, it's very simple to use and very
stable.

I'd venture to say that there's not a soul here who couldn't do the same if
given the proper dosage of intellectual curiosity, some past history with
psychotropic plantlife and almost daily exposure to this forum for around 8
years. Stuff like this just sorta seems normal to me. Also.....I think a lot
of it is Brian T's fault.

;o)

Subject: Re: OK..now I can die happy

This is a multi-part message in MIME format.

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All I have to say is...

WE ARE NOT WORTHY!!

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Subject: Re: OK..now I can die happy
Posted by [Don Nafe](#) on Wed, 12 Dec 2007 10:39:57 GMT
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"DJ" <animix _ at _ animas _ dot _ net> wrote in message
news:475f6d82@linux...

>
> I've tweaked it even further sinc my last post and it's even more
> streamlined. Despite it's complexity, it's very simple to use and very
> stable.
> I'd venture to say that there's not a soul here who couldn't do the same
> if given the proper dosage of intellectual curiosity, some past history
> with psychotropic plantlife and almost daily exposure to this forum for
> around 8 years. Stuff like this just sorta seems normal to me. Also.....I
> think a lot of it is Brian T's fault.
>
> ;o)

That's it Deej, blame someone who's not here to defend themselves

;-)
