Subject: S/MUX (ADAT doublewire) question
Posted by DJ on Sat, 29 Sep 2007 20:23:39 GMT
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I'm getting ready to wire in a fairly involved hardware configuration.....really???.....moi? . For you guys who use 88.2 a lot, I have a question. I need to be able to switch sample rates between projects while not having to physicaly repatch any gear. I'll be using a MADI PCI/ADI 648 but I'm sure the S/MUX would apply to an HDSP series card of any type.. When changing from a 44.1 KHz projects to a 88.2 KHz projects do the HDSP I/O channels reconfigure as follows??:

ADAT I/O 1
channels 1 & 2 combine to create channel 1
channels 3 & 4 combine to create channel 2
channels 5 & 6 combine to create channel 3
channels 7 & 8 combine to create channel 4
ADAT 1/O 2
channels 9 & 10 combine to create channel 5
channels 11 & 12 combine to create channel 6
channels 13 & 14 combine to create channel 7
channels 15 & 16 combine to create channel 8

or is it.....

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or is it

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ADAT I/O channels 5 & 6 combine with ADAT I/O 13 & 14 to create channel 5 & 6
ADAT I/O channels 7 & 8 combine with ADAT I/O 15 & 16 to create channel 7 & 8

I just need to know ahead of time before I jump into this. I'm going to be having to do this install without any assistance and I don't want to spend a

whole day getting this wired in and then end up with a total cluster**** in
my signal routing.

Subject: Re: S/MUX (ADAT doublewire) question
Posted by Neil on Sat, 29 Sep 2007 20:55:07 GMT
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I think it's simply that 5, 6, 7 & 8 drop off when at 88.2.

IOW, on my Multifascia, when at 88.2 and selecting an input
from lightpipe, channel 2 is still channel 2, 3 is still 3, and
4 is still 4 - there's just no 5-8.

It's just a matter of each channel taking up twice the
bandwidth.

Neil

"DJ" <animix _ at _ animas _ dot _ net> wrote:
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>configuration.....really???.....moi? . For you guys who use 88.2 a
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Subject: Re: S/MUX (ADAT doublewire) question
Posted by DJ on Sat, 29 Sep 2007 20:57:31 GMT
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I understand, but does this mean that 5 is combining signals with 1, 6 with 2, 7 with 3 and 8 with 4? (a scenario that I didn't think of, BTW) That would make sense. In my particular situation, that's what I need to be sure of.

Thanks,

Deej

"Neil" <IOUIOU@OIU.com> wrote in message news:46febbab$1@linux...
>
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>>
>

Subject: Re: S/MUX (ADAT doublewire) question
Posted by Neil on Sat, 29 Sep 2007 21:29:59 GMT
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AFAIK, that's not how it works (combining); the protocol just

assigns a certain amount of bandwidth to each channel,
depending on the samplerate.

You won't need to repatch anything when switching from an 88.2k
project to a 44.1k project, channels 5-8 on each lightpipe just
won't exist at 88.2k

Neil

"DJ" <animix _ at _ animas _ dot _ net> wrote:
>I understand, but does this mean that 5 is combining signals with 1, 6 with

>2, 7 with 3 and 8 with 4? (a scenario that I didn't think of, BTW) That

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Subject: Re: S/MUX (ADAT doublewire) question
Posted by Chris Ludwig on Sat, 29 Sep 2007 22:10:56 GMT
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Hi DJ,
Neil is correct in the way he describes it.
Also it will be more flexible if you have the MADI card be master if you
are going to be switching sample rates allot.
Did you ever find out if the used ADI-648 you got is a recent enough one
to have the MIDI Remote support?
It makes configuring the front panel very easy if the unit is not in
arms/visual reach.
Also don't forget that MADI's I/O is also cut in half at 88.2/96k like
ADAT. So 32 channels instead of 64.

Chris

DJ wrote:
> I understand, but does this mean that 5 is combining signals with 1, 6 with
> 2, 7 with 3 and 8 with 4? (a scenario that I didn't think of, BTW) That
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>

--
Chris Ludwig
ADK
chrisl@adkproaudio.com <mailto:chrisl@adkproaudio.com>
www.adkproaudio.com <http://www.adkproaudio.com/>
(859) 635-5762

Subject: Re: S/MUX (ADAT doublewire) question
Posted by Neil on Sat, 29 Sep 2007 23:14:22 GMT
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"Neil" <OIUOIU@OI.com> wrote:
>You won't need to repatch anything when switching from an 88.2k
>project to a 44.1k project, channels 5-8 on each lightpipe just
>won't exist at 88.2k

Oh, one thing - you won't have to repatch anything, but you
WILL probably have to refresh your insies & outsies in Cubase
in the device menu (Devices/Device Setup/VST Audiobay/VST
Inputs & VST Outputs, then select "reset" off to the bottom
right of that window for ins then outs) each time you switch
back & forth from a 44.1 project to an 88.2 one & vice-versa.

Neil

Subject: Re: S/MUX (ADAT doublewire) question
Posted by DJ on Sat, 29 Sep 2007 23:49:48 GMT
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"Chris Ludwig" <chrisl@adkproaudio.com> wrote in message
news:46fecf15@linux...
> Hi DJ,
> Neil is correct in the way he describes it.
> Also it will be more flexible if you have the MADI card be master if you
> are going to be switching sample rates allot.
> Did you ever find out if the used ADI-648 you got is a recent enough one
> to have the MIDI Remote support?
> It makes configuring the front panel very easy if the unit is not in
> arms/visual reach.

> Also don't forget that MADI's I/O is also cut in half at 88.2/96k like
> ADAT. So 32 channels instead of 64.
>
> Chris

I'm getting ready to wire up a lot of RME hardware. I'm configuring two DAWs Master/Slave, both running Cubase 4. In my Master DAW, I've got an AES 32/BOB, a MADI card, an ADI 648, an ADI4-DD, 2 x ADI 8-DD's and 2 x ADI 8-DS units. In the slave DAW I'm running a Multiface PCI.

4 x stereo channels of the AES 32 will be interfacing with the ADI 8-DD units and the AES I/O of 4 x outboard reverb/multiFX processors which will down/upsampled for use as send/FX in Cubase by using the ADI 8-DD units.

The other 4 x AES 32 channels will be interfacing with converters and processors that are 88.2KHz capable.

As for the MADI/ADI 648, what I would like to accomplish is this:

ADAT 1 I/O patched to the ADI 4-DD
Channel 1 & 2 input of the ADI 4-DD receiving the S/PDIF output from the Multiface slave unit
Channel 1 & 2 output of the ADI 4-Dd unit sending the stereo output of the DAW to a Benchmark DAC-1

ADI 4-DD I/O 3 & 4 not used because they will be combined with Channels 1 & 2 of the ADI 4-DD when used at 88.2 sample rates-correct?

ADI 4-DD I/O 5 & 6 patched into a Mytek Stereo AD/DA units

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ADAT 2 I/O patched to the ADAT I/O of the Multiface Slave, which when running both DAWs at 88.2KHz.

I just want to be sure that, when configured in this manner and using 88.2 sample rates on the master and slave DAWS, the various devices would show up in Totalmix and Cubase VST I/O as follows:

HDSP MADI 1 I/O would be left channel of ADI 4-DD channel 1 & 2 which are interfacing with the Slave DAW output L and the Benchmark DAC-1 input L
HDSP MADI 2 I/O would be right channel of ADI 4-DD channel 1 & 2 which are interfacing with the Slave DAW output R and the Benchmark DAC-1 input R

HDSP MADI 3 I/O would be left channel of ADI 4-DD channel 5 & 6 which are interfacing with the Mytek Stereo 96 AD/DA L
HDSP MADI 4 I/O would be right channel of ADI 4-DD channel 5 & 6 which are

interfacing with the Mytek Stereo 96 AD/DA R

HDSP MADI 5 I/O would be left channel signal from Multiface ADAT I/O 1 & 2 on slave DAW
HDSP MADI 6 I/O would be right channel signal from Multiface ADAT I/O 1 & 2 on slave DAW

HDSP MADI 7 I/O would be left channel signal from Multiface ADAT I/O 3 & 4 on slave DAW
HDSP MADI 8 I/O would be right channel signal from Multiface ADAT I/O 3 & 4 on slave DAW

.....or, does ADAT 2 I/O just disappear when switching to 88.2KHz?

I don't want to spend a whole day getting this wired in and suddenly have signals from the left channel routed to/from one hardware device and signals on the right channel routed to/from another hardware device.

Subject: Re: S/MUX (ADAT doublewire) question
Posted by DJ on Sun, 30 Sep 2007 00:24:43 GMT
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I guess I could ask this another way.....

If I connected three ADI4-DD units to ADAT ports 1, 2, and 3 and I set the clock rate to 88.2, would I get an AES stereo I/O on 1 & 2 and 5 & 6 of the AES input/output of each of the three ADI 4-DD units?

thanks,

Deej

"DJ" <animix _ at _ animas _ dot _ net> wrote in message news:46fee642@linux...
>
> "Chris Ludwig" <chrisl@adkproaudio.com> wrote in message
> news:46fecf15@linux...
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> Multiface slave unit
> Channel 1 & 2 output of the ADI 4-Dd unit sending the stereo output of the
> DAW to a Benchmark DAC-1
>
> ADI 4-DD I/O 3 & 4 not used because they will be combined with Channels 1
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> ADI 4-DD I/O 5 & 6 patched into a Mytek Stereo AD/DA units
>
> ADI 4-DD I/O 7 & 8 not used because they will be combined with Channels 5
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>

Subject: Re: S/MUX (ADAT doublewire) question
Posted by DJ on Sun, 30 Sep 2007 00:25:42 GMT
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That's what's going to happen tonight.

Thanks,

Deej

"Neil" <OIUOI@OIU.com> wrote in message news:46feedef$1@linux...
>
> "DJ" <animix _ at _ animas _ dot _ net> wrote:
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>>ADI 4-DD I/O 5 & 6 patched into a Mytek Stereo AD/DA units
>>
>>ADI 4-DD I/O 7 & 8 not used because they will be combined with Channels
> 5 &
>>6 of the ADI 4-DD when used at 88.2 sample rates-correct?
>
> Unless I'm completely misunderstanding the SMUX protocol, what
> you would want to do for the portion anbove is to use channels
> 1 through 4 and not use 5-8. IOW, in the part where you say:
>
> ***ADI 4-DD I/O 5 & 6 patched into a Mytek Stereo AD/DA units***
>
> Use 3&4 instead of 5&6... follow this pattern all the way
> through the rest of the gear & you should be OK.
>
> Chris, chime in - this is correct, yes?
>
> Deej, if you're not cure, you can always hook up ONE unit using
> 1&2 and 5&6, then flip over to 88.2k & see if 5&6 now show up
> on 3&4... I'm 99.9997% certain that's not the way it works,
> however.
>
> Neil

Subject: Re: S/MUX (ADAT doublewire) question
Posted by Nei on Sun, 30 Sep 2007 00:29:35 GMT
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"DJ" <animix _ at _ animas _ dot _ net> wrote:
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>ADI 4-DD I/O 7 & 8 not used because they will be combined with Channels
5 &

>6 of the ADI 4-DD when used at 88.2 sample rates-correct?

Unless I'm completely misunderstanding the SMUX protocol, what
you would want to do for the portion anbove is to use channels
1 through 4 and not use 5-8. IOW, in the part where you say:

ADI 4-DD I/O 5 & 6 patched into a Mytek Stereo AD/DA units

Use 3&4 instead of 5&6... follow this pattern all the way
through the rest of the gear & you should be OK.

Chris, chime in - this is correct, yes?

Deej, if you're not cure, you can always hook up ONE unit using
1&2 and 5&6, then flip over to 88.2k & see if 5&6 now show up
on 3&4... I'm 99.9997% certain that's not the way it works,
however.

Neil

Subject: Re: S/MUX (ADAT doublewire) question
Posted by JeffH on Sun, 30 Sep 2007 05:13:14 GMT
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DJ wrote:
> "Chris Ludwig" <chrisl@adkproaudio.com> wrote in message
> news:46fecf15@linux...
>
>>Hi DJ,
>>Neil is correct in the way he describes it.
>>Also it will be more flexible if you have the MADI card be master if you
>>are going to be switching sample rates allot.
>>Did you ever find out if the used ADI-648 you got is a recent enough one
>>to have the MIDI Remote support?
>>It makes configuring the front panel very easy if the unit is not in
>>arms/visual reach.
>>Also don't forget that MADI's I/O is also cut in half at 88.2/96k like
>>ADAT. So 32 channels instead of 64.
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> The other 4 x AES 32 channels will be interfacing with converters and
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Deej,

What's the purpose of the second DAW? If you're passing audio back and forth for processing, this might be a great scenario for Wormmhole.
Pass the audio ethernet and use the ADAT sync on the multiface for synching the two.

Just a thought,

Jeff

Subject: Re: S/MUX (ADAT doublewire) question
Posted by JeffH on Sun, 30 Sep 2007 05:20:57 GMT
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Scratch that...appears Wormhole went the way of Paris...ok now you have to have it or you'll.....

;-)

Jeff

Subject: Re: S/MUX (ADAT doublewire) question
Posted by DJ on Sun, 30 Sep 2007 06:16:11 GMT
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Plus.....ADAT sync is only one way on HDSP cards..input. I could use a BRC I suppose. The Steiny Systemline works nicely on two comps anyway.

I've got everything sync'ed up to external WC and I can cycle through everything from 44.1 thru 96k and everything syncs up fine but I'm hearing no stereo output signal in cubase. I'm sure this is due to the ADI 648 routing matrix being scrambled. Time to RTFM to get my head around this. Lots to learn about this beast. I'm pretty stoked about it though. I think that I may have finally found an audio system that will make my bizarre and twisted dreams come true.

We'll know more next week. The RME BOB that I need to interface with the AES 32 card hasn't arrived here yet.

Deej

"Jeff Hoover" <jkhoover@excite.com> wrote in message news:46ff33e3@linux...
>
>> Deej,
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> ;-)
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> Jeff

Subject: Re: S/MUX (ADAT doublewire) question
Posted by DJ on Sun, 30 Sep 2007 06:16:35 GMT
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where are you now BTW?

"Jeff Hoover" <jkhoover@excite.com> wrote in message news:46ff3218@linux...
> DJ wrote:
>> "Chris Ludwig" <chrisl@adkproaudio.com> wrote in message
>> news:46fecf15@linux...
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> Just a thought,
>

> Jeff

Subject: Re: S/MUX (ADAT doublewire) question
Posted by DJ on Sun, 30 Sep 2007 23:52:16 GMT
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OK...I've got this beast singing right along at 88.2 now. I'm waiting for the breakout box for the AES 32 right now so that I can put the final touches on the thing but I'm very encouraged by wha is happening with it right now.

As for the routing stuff I was asking about, Neil was right. !/2 of the I/O just basically disappears.....but under the hood, if you are splitting out an ADAT module to 4 x stereo pair using an ARM ADI 4-DD unit, then when you switch to 88.2KHz, I/O 3 & 4 merge with 1 & 2 and I/O 7 & 8 merge with 5 & 6, so basically the way doublewire reconfigures itself to sample rates above 48KHz is as follows:

ADAT I/O 1
channels 1 & 3 combine to create channel 1
channels 2 & 4 combine to create channel 2
channels 5 & 7 combine to create channel 3
channels 6 & 8 combine to create channel 4
ADAT 1/O 2
channels 9 & 11 combine to create channel 5
channels 10 & 12 combine to create channel 6
channels 13 & 15 combine to create channel 7
channels 14 & 16 combine to create channel 8

For a while I was in clocking hell at 88.2. then I recalled Morgan telling me of some wierdness he was having with a Mytek WC as master on the MADI so I switched things up and slaved the Mytek ADconvert that I was using to clock the system to the MADI clock out. Everthing is happy now. Here's the clocking matrix:

MADI WC out>Mytek Stereo96 A/D WC BNC in>Mytek WC out terminated

Mytek Stereo96 A/D AES out>Lucid GenX-6 AES in

GenX-6 WC out 1>ADI 4-DD WC in. ADI 4-DD WC out terminated

GenX-6 WC out 2>Multiface WC in. Multiface WC out terminated

GenX-6 WC out 3>#1 ADI 8-DS WC in. ADI 8-DS WC out terminated

GenX-6 WC out 4>#2 ADI 8-DS WC in. ADI 8-DS WC out terminated

GenX-6 WC out 5>AES 32 WC in. AES 32 WC out terminated

GenX-6 WC out 6>ADI 648 WC in. ADI 648 WC out > #1 ADI 8-DD WC in
#1 ADI 8-DD WC out>#2 ADI 8-DD WC in>#2>ADI 8-DD WC out terminated

I think this will be the ticket for me and I'll never again need to buy
another piece of gear as long as I live.

;oD

"DJ" <animix _ at _ animas _ dot _ net> wrote in message
news:46feb5f0$1@linux...
> I'm getting ready to wire in a fairly involved hardware
> configuration.....really???.....moi? . For you guys who use 88.2 a
> lot, I have a question. I need to be able to switch sample rates between
> projects while not having to physicaly repatch any gear. I'll be using a
> MADI PCI/ADI 648 but I'm sure the S/MUX would apply to an HDSP series card
> of any type.. When changing from a 44.1 KHz projects to a 88.2 KHz
> projects do the HDSP I/O channels reconfigure as follows??:
>
> ADAT I/O 1
> channels 1 & 2 combine to create channel 1
> channels 3 & 4 combine to create channel 2
> channels 5 & 6 combine to create channel 3
> channels 7 & 8 combine to create channel 4
> ADAT 1/O 2
> channels 9 & 10 combine to create channel 5
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> & 4
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> & 6
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> & 8
>
> I just need to know ahead of time before I jump into this. I'm going to be
> having to do this install without any assistance and I don't want to spend
> a whole day getting this wired in and then end up with a total cluster****
> in my signal routing.
>
>

Subject: Re: S/MUX (ADAT doublewire) question
Posted by JeffH on Mon, 01 Oct 2007 03:30:08 GMT
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DJ wrote:
> where are you now BTW?
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Just arrived in Dallas about an hour ago.

Jeff
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> "Jeff Hoover" <jkhoover@excite.com> wrote in message news:46ff3218@linux...
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Subject: Re: S/MUX (ADAT doublewire) question
Posted by DJ on Mon, 01 Oct 2007 05:18:15 GMT
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Posted by JeffH on Mon, 01 Oct 2007 17:54:45 GMT
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> ....sooo....by now you're in Austin if you didn't stop.
>
Actually the fam is staying over in dallas for about a week. I'm flying
back to PDX for a server install this weekend, then back next week to
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I'll call and see what yours is looking like.

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>>>
>>>>DJ wrote:
>>>>
>>>>
>>>>>"Chris Ludwig" <chrisl@adkproaudio.com> wrote in message
>>>>>news:46fecf15@linux...
>>>>>
>>>>>
>>>>>
>>>>>>Hi DJ,
>>>>>>Neil is correct in the way he describes it.
>>>>>>Also it will be more flexible if you have the MADI card be master if
>>>>>>you are going to be switching sample rates allot.
>>>>>>Did you ever find out if the used ADI-648 you got is a recent enough
>>>>>>one to have the MIDI Remote support?
>>>>>>It makes configuring the front panel very easy if the unit is not in
>>>>>>arms/visual reach.
>>>>>>Also don't forget that MADI's I/O is also cut in half at 88.2/96k like
>>>>>>ADAT. So 32 channels instead of 64.
>>>>>>
>>>>>>Chris
>>>>>
>>>>>
>>>>>I'm getting ready to wire up a lot of RME hardware. I'm configuring two
>>>>>DAWs Master/Slave, both running Cubase 4. In my Master DAW, I've got an
>>>>>AES 32/BOB, a MADI card, an ADI 648, an ADI4-DD, 2 x ADI 8-DD's and 2 x
>>>>>ADI 8-DS units. In the slave DAW I'm running a Multiface PCI.
>>>>>
>>>>>4 x stereo channels of the AES 32 will be interfacing with the ADI 8-DD
>>>>>units and the AES I/O of 4 x outboard reverb/multiFX processors which
>>>>>will down/upsampled for use as send/FX in Cubase by using the ADI 8-DD
>>>>>units.
>>>>>
>>>>>The other 4 x AES 32 channels will be interfacing with converters and
>>>>>processors that are 88.2KHz capable.
>>>>>
>>>>>As for the MADI/ADI 648, what I would like to accomplish is this:
>>>>>
>>>>>ADAT 1 I/O patched to the ADI 4-DD
>>>>>Channel 1 & 2 input of the ADI 4-DD receiving the S/PDIF output from the
>>>>>Multiface slave unit
>>>>>Channel 1 & 2 output of the ADI 4-Dd unit sending the stereo output of
>>>>>the DAW to a Benchmark DAC-1
>>>>>
>>>>>ADI 4-DD I/O 3 & 4 not used because they will be combined with Channels
>>>>>1 & 2 of the ADI 4-DD when used at 88.2 sample rates-correct?

>>>>>
>>>>>ADI 4-DD I/O 5 & 6 patched into a Mytek Stereo AD/DA units
>>>>>
>>>>>ADI 4-DD I/O 7 & 8 not used because they will be combined with Channels
>>>>>5 & 6 of the ADI 4-DD when used at 88.2 sample rates-correct?
>>>>>
>>>>>ADAT 2 I/O patched to the ADAT I/O of the Multiface Slave, which when
>>>>>running both DAWs at 88.2KHz.
>>>>>
>>>>>I just want to be sure that, when configured in this manner and using
>>>>>88.2 sample rates on the master and slave DAWS, the various devices
>>>>>would show up in Totalmix and Cubase VST I/O as follows:
>>>>>
>>>>>HDSP MADI 1 I/O would be left channel of ADI 4-DD channel 1 & 2 which
>>>>>are interfacing with the Slave DAW output L and the Benchmark DAC-1
>>>>>input L
>>>>>HDSP MADI 2 I/O would be right channel of ADI 4-DD channel 1 & 2 which
>>>>>are interfacing with the Slave DAW output R and the Benchmark DAC-1
>>>>>input R
>>>>>
>>>>>HDSP MADI 3 I/O would be left channel of ADI 4-DD channel 5 & 6 which
>>>>>are interfacing with the Mytek Stereo 96 AD/DA L
>>>>>HDSP MADI 4 I/O would be right channel of ADI 4-DD channel 5 & 6 which
>>>>>are interfacing with the Mytek Stereo 96 AD/DA R
>>>>>
>>>>>HDSP MADI 5 I/O would be left channel signal from Multiface ADAT I/O 1 &
>>>>>2 on slave DAW
>>>>>HDSP MADI 6 I/O would be right channel signal from Multiface ADAT I/O 1
>>>>>& 2 on slave DAW
>>>>>
>>>>>HDSP MADI 7 I/O would be left channel signal from Multiface ADAT I/O 3 &
>>>>>4 on slave DAW
>>>>>HDSP MADI 8 I/O would be right channel signal from Multiface ADAT I/O 3
>>>>>& 4 on slave DAW
>>>>>
>>>>>
>>>>>.....or, does ADAT 2 I/O just disappear when switching to 88.2KHz?
>>>>>
>>>>>I don't want to spend a whole day getting this wired in and suddenly
>>>>>have signals from the left channel routed to/from one hardware device
>>>>>and signals on the right channel routed to/from another hardware device.
>>>>>
>>>>>
>>>>>
>>>>Deej,
>>>>
>>>>What's the purpose of the second DAW? If you're passing audio back and
>>>>forth for processing, this might be a great scenario for Wormmhole. Pass

>>>>the audio ethernet and use the ADAT sync on the multiface for synching
>>>>the two.
>>>>
>>>>Just a thought,
>>>>
>>>>Jeff
>>>
>>>
>