
Subject: SPDIF - am I nuts?

Posted by [Rohde](#) on Tue, 21 Oct 2008 20:05:50 GMT

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

For some reason, I'm not able to get the SPDIF working as I thought it should. This is both with the stock studio control library and Mike's newer test versions.

Anyway, I have a video component cable - high quality 75 ohm cable. I've basically created a loop by hooking it from SPDIF out to SPDIF in. Cable is 3 ft. long.

In the pathbay, I've set an external native insert on a pair of channels, then in the patch bay hooked the inserts up to dL and dR pairs. No audio gets passed through.

If I do the same thing with normal analog I/O, it works fine.

Ultimately, I'm trying to slave a FW410 interface to work with Reaper and would like to use the PARIS A/D for capture, passing it back to Reaper digitally.

I'm all ears for ideas here. Thanks!

Oh yeah, this is on XP dual core Athlon64 system.

-Rohde

Subject: Re: SPDIF - am I nuts?

Posted by [Rohde](#) on Tue, 21 Oct 2008 22:19:25 GMT

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

Just to add to the mystery, I can hook up a Motif Rack to the SPDIF input on the MEC and clock sync to it, but hooking this digital input up to channels gives me silence as well.

With sync source set up to digital, I can play back pre-recorded material just fine, and as soon as I disconnect the SPDIF it stops playing (as expected) so I know electrically this input has to be working... And I did verify that it was a good signal since the FW410 hears it good and clean.

BTW, Mike, I noticed that my ADAT card does not show up with the newest control library, but does show up with the original. There's quite a bit on the debug console - would that help to see what's going on?

-Rohde

"Rohde" <rohdeww@gmail.com> wrote:

>
>For some reason, I'm not able to get the SPDIF working as I thought it should.
>This is both with the stock studio control library and Mike's newer test
>versions.
>
>Anyway, I have a video component cable - high quality 75 ohm cable. I've
>basically created a loop by hooking it from SPDIF out to SPDIF in. Cable
>is 3 ft. long.
>
>In the pathbay, I've set an external native insert on a pair of channels,
>then in the patch bay hooked the inserts up to dL and dR pairs. No audio
>gets passed through.
>
>If I do the same thing with normal analog I/O, it works fine.
>
>Ultimately, I'm trying to slave a FW410 interface to work with Reaper and
>would like to use the PARIS A/D for capture, passing it back to Reaper digitally.
>
>I'm all ears for ideas here. Thanks!
>
>Oh yeah, this is on XP dual core Athlon64 system.
>
>-Rohde

Subject: Re: SPDIF - am I nuts?
Posted by [Aaron Allen](#) on Wed, 22 Oct 2008 00:07:14 GMT
[View Forum Message](#) <> [Reply to Message](#)

search the newsgroup archives at SVN's webpage for the BT or Tankersley method, though I think it refers (IIRC) more specifically to the adat ports. As I recall you have to complete the loop into something more than just itself.... think it was covered in the Paris Instructional Video at some point as well if you have that, in the autotune section.....

AA

Nice to see your name come across here R dub.

"Rohde" <rohdeww@gmail.com> wrote in message news:48fe556d\$1@linux...

>
> Just to add to the mystery, I can hook up a Motif Rack to the SPDIF input
> on the MEC and clock sync to it, but hooking this digital input up to
> channels
> gives me silence as well.
>
> With sync source set up to digital, I can play back pre-recorded material
> just fine, and as soon as I disconnect the SPDIF it stops playing (as

> expected)
> so I know electrically this input has to be working... And I did verify
> that
> it was a good signal since the FW410 hears it good and clean.
>
> BTW, Mike, I noticed that my ADAT card does not show up with the newest
> control
> library, but does show up with the original. There's quite a bit on the
> debug
> console - would that help to see what's going on?
>
> -Rohde
>
> "Rohde" <rohdeww@gmail.com> wrote:
>>
>>For some reason, I'm not able to get the SPDIF working as I thought it
>>should.
>>This is both with the stock studio control library and Mike's newer test
>>versions.
>>
>>Anyway, I have a video component cable - high quality 75 ohm cable. I've
>>basically created a loop by hooking it from SPDIF out to SPDIF in. Cable
>>is 3 ft. long.
>>
>>In the pathbay, I've set an external native insert on a pair of channels,
>>then in the patch bay hooked the inserts up to dL and dR pairs. No audio
>>gets passed through.
>>
>>If I do the same thing with normal analog I/O, it works fine.
>>
>>Ultimately, I'm trying to slave a FW410 interface to work with Reaper and
>>would like to use the PARIS A/D for capture, passing it back to Reaper
>>digitally.
>>
>>I'm all ears for ideas here. Thanks!
>>
>>Oh yeah, this is on XP dual core Athlon64 system.
>>
>>-Rohde
>

Subject: Re: SPDIF - am I nuts?
Posted by [kerryg](#) on Wed, 22 Oct 2008 00:14:50 GMT
[View Forum Message](#) <> [Reply to Message](#)

Ahh-HAH, that's why that sounded so familiar - I was scratching my head. I bet you just nailed it.

- K

On 2008-10-21 17:07:14 -0700, "Aaron Allen" <know-spam@not_here.dude> said:

> search the newsgroup archives at SVN's webpage for the BT or Tankersley
> method, though I think it refers (IIRC) more specifically to the adat ports.
> As I recall you have to complete the loop into something more than just
> itself.... think it was covered in the Paris Instructional Video at some
> point as well if you have that, in the autotune section.....
>
> AA
>
> Nice to see your name come across here R dub.
>
> "Rohde" <rohdeww@gmail.com> wrote in message news:48fe556d\$1@linux...
>>
>> Just to add to the mystery, I can hook up a Motif Rack to the SPDIF input
>> on the MEC and clock sync to it, but hooking this digital input up to
>> channels
>> gives me silence as well.
>>
>> With sync source set up to digital, I can play back pre-recorded material
>> just fine, and as soon as I disconnect the SPDIF it stops playing (as
>> expected)
>> so I know electrically this input has to be working... And I did verify
>> that
>> it was a good signal since the FW410 hears it good and clean.
>>
>> BTW, Mike, I noticed that my ADAT card does not show up with the newest
>> control
>> library, but does show up with the original. There's quite a bit on the
>> debug
>> console - would that help to see what's going on?
>>
>> -Rohde
>>
>> "Rohde" <rohdeww@gmail.com> wrote:
>>>
>>> For some reason, I'm not able to get the SPDIF working as I thought it
>>> should.
>>> This is both with the stock studio control library and Mike's newer test
>>> versions.
>>>
>>> Anyway, I have a video component cable - high quality 75 ohm cable. I've
>>> basically created a loop by hooking it from SPDIF out to SPDIF in. Cable
>>> is 3 ft. long.
>>>

>>> In the pathbay, I've set an external native insert on a pair of channels,
>>> then in the patch bay hooked the inserts up to dL and dR pairs. No audio
>>> gets passed through.
>>>
>>> If I do the same thing with normal analog I/O, it works fine.
>>>
>>> Ultimately, I'm trying to slave a FW410 interface to work with Reaper and
>>> would like to use the PARIS A/D for capture, passing it back to Reaper
>>> digitally.
>>>
>>> I'm all ears for ideas here. Thanks!
>>>
>>> Oh yeah, this is on XP dual core Athlon64 system.
>>>
>>> -Rohde

Subject: Re: SPDIF - am I nuts?
Posted by [Rohde](#) on Wed, 22 Oct 2008 13:07:26 GMT
[View Forum Message](#) <> [Reply to Message](#)

Good thoughts. I'll go back and review the bounce down to see if it provides any clues.

I would think, though, that coming straight from the digital inputs to a pair of channels for strictly recording (like an external A/D or MIDI sound module) would be pretty simple wiring - straight from the MEC's digital inputs to the mixer's channel inputs.

More investigation...

-Rohde

"KerryGalloway" <kg@kerrygalloway.com> wrote in message news:48fe74ba@linux...
> Ahh-HAH, that's why that sounded so familiar - I was scratching my head. I
> bet you just nailed it.
>
> - K
>
> On 2008-10-21 17:07:14 -0700, "Aaron Allen" <know-spam@not_here.dude>
> said:
>
>> search the newsgroup archives at SVN's webpage for the BT or Tankersley
>> method, though I think it refers (IIRC) more specifically to the adat
>> ports.
>> As I recall you have to complete the loop into something more than just
>> itself.... think it was covered in the Paris Instructional Video at some

>> point as well if you have that, in the autotune section.....
>>
>> AA
>>
>> Nice to see your name come across here R dub.
>>
>> "Rohde" <rohdeww@gmail.com> wrote in message news:48fe556d\$1@linux...
>>>
>>> Just to add to the mystery, I can hook up a Motif Rack to the SPDIF
>>> input
>>> on the MEC and clock sync to it, but hooking this digital input up to
>>> channels
>>> gives me silence as well.
>>>
>>> With sync source set up to digital, I can play back pre-recorded
>>> material
>>> just fine, and as soon as I disconnect the SPDIF it stops playing (as
>>> expected)
>>> so I know electrically this input has to be working... And I did verify
>>> that
>>> it was a good signal since the FW410 hears it good and clean.
>>>
>>> BTW, Mike, I noticed that my ADAT card does not show up with the newest
>>> control
>>> library, but does show up with the original. There's quite a bit on the
>>> debug
>>> console - would that help to see what's going on?
>>>
>>> -Rohde
>>>
>>> "Rohde" <rohdeww@gmail.com> wrote:
>>>>
>>>> For some reason, I'm not able to get the SPDIF working as I thought it
>>>> should.
>>>> This is both with the stock studio control library and Mike's newer
>>>> test
>>>> versions.
>>>>
>>>> Anyway, I have a video component cable - high quality 75 ohm cable.
>>>> I've
>>>> basically created a loop by hooking it from SPDIF out to SPDIF in.
>>>> Cable
>>>> is 3 ft. long.
>>>>
>>>> In the pathbay, I've set an external native insert on a pair of
>>>> channels,
>>>> then in the patch bay hooked the inserts up to dL and dR pairs. No
>>>> audio

>>>> gets passed through.
>>>>
>>>> If I do the same thing with normal analog I/O, it works fine.
>>>>
>>>> Ultimately, I'm trying to slave a FW410 interface to work with Reaper
>>>> and
>>>> would like to use the PARIS A/D for capture, passing it back to Reaper
>>>> digitally.
>>>>
>>>> I'm all ears for ideas here. Thanks!
>>>>
>>>> Oh yeah, this is on XP dual core Athlon64 system.
>>>>
>>>> -Rohde
>
>

Subject: Re: SPDIF - am I nuts? - Try this...

Posted by [Sandy Tipping](#) on Wed, 22 Oct 2008 13:31:21 GMT

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

I can't explain why the input won't work in channel mode, but when using any external insert, the loop must be completed.

That is, you need to patch both the insert send AND return before the insert will "open". (In fact, this is quite common in the "patched but not tracked talkback" situation - create a send and return loop for your talkback mic, and then delete the send patch... the return will remain patched and open, giving you a talkback on / off from the insert strip on your channel. But I digress...)

SPDIF inputs in Paris are weird, and it sometimes has to do with clock and the sequence in which your gear is powered.

Can you verify that Paris can pass its own audio through the loop? Try this:

Loop the SPDIF output to SPDIF input with a short RCA cable, as you say you've already done.

Put a piece of audio on Channel 1, MEC / 442 A

Turn on the external insert send on Mixer A Channel 1

In the patchbay, patch Mixer A Insert Send 1 (bottom row) to MEC Master dL Output (top row)

Patch MEC Master dL Input (bottom row) to Mixer A Insert Return 1 (top row) --- now the insert should be active / "open".

Patch ANOTHER cable from MEC Master dL Input (bottom row - same place as the previous patch) to Mixer A Channel 2.

This should route the audio from Channel 1 to Channel 2 via SPDIF. If you rec-enable Channel 2, and hit record, your audio from Channel 1 should be showing up on Channel 2.

This takes external clocking problems out of the picture, because the only clock source involved is Paris' internal clock (which should be a component of the SPDIF signal).

Let us know what this does.

Sandy

"Rohde Wakefield" <rohdeww@gmail.com> wrote in message
news:48ff29ab@linux...

> Good thoughts. I'll go back and review the bounce down to see if it
> provides any clues.

>

> I would think, though, that coming straight from the digital inputs to a
> pair of channels for strictly recording (like an external A/D or MIDI
> sound module) would be pretty simple wiring - straight from the MEC's
> digital inputs to the mixer's channel inputs.

>

> More investigation...

>

> -Rohde

>

> "KerryGalloway" <kg@kerrygalloway.com> wrote in message
> news:48fe74ba@linux...

>> Ahh-HAH, that's why that sounded so familiar - I was scratching my head.

>> I bet you just nailed it.

>>

>> - K

>>

>> On 2008-10-21 17:07:14 -0700, "Aaron Allen" <know-spam@not_here.dude>
>> said:

>>

>>> search the newsgroup archives at SVN's webpage for the BT or Tankersley
>>> method, though I think it refers (IIRC) more specifically to the adat
>>> ports.

>>> As I recall you have to complete the loop into something more than just
>>> itself.... think it was covered in the Paris Instructional Video at some
>>> point as well if you have that, in the autotune section.....

>>>

>>> AA

>>>

>>> Nice to see your name come across here R dub.

>>>

>>> "Rohde" <rohdeww@gmail.com> wrote in message news:48fe556d\$1@linux...
>>>>
>>>> Just to add to the mystery, I can hook up a Motif Rack to the SPDIF
>>>> input
>>>> on the MEC and clock sync to it, but hooking this digital input up to
>>>> channels
>>>> gives me silence as well.
>>>>
>>>> With sync source set up to digital, I can play back pre-recorded
>>>> material
>>>> just fine, and as soon as I disconnect the SPDIF it stops playing (as
>>>> expected)
>>>> so I know electrically this input has to be working... And I did verify
>>>> that
>>>> it was a good signal since the FW410 hears it good and clean.
>>>>
>>>> BTW, Mike, I noticed that my ADAT card does not show up with the newest
>>>> control
>>>> library, but does show up with the original. There's quite a bit on the
>>>> debug
>>>> console - would that help to see what's going on?
>>>>
>>>> -Rohde
>>>>
>>>> "Rohde" <rohdeww@gmail.com> wrote:
>>>>>
>>>>> For some reason, I'm not able to get the SPDIF working as I thought it
>>>>> should.
>>>>> This is both with the stock studio control library and Mike's newer
>>>>> test
>>>>> versions.
>>>>>
>>>>> Anyway, I have a video component cable - high quality 75 ohm cable.
>>>>> I've
>>>>> basically created a loop by hooking it from SPDIF out to SPDIF in.
>>>>> Cable
>>>>> is 3 ft. long.
>>>>>
>>>>> In the pathbay, I've set an external native insert on a pair of
>>>>> channels,
>>>>> then in the patch bay hooked the inserts up to dL and dR pairs. No
>>>>> audio
>>>>> gets passed through.
>>>>>
>>>>> If I do the same thing with normal analog I/O, it works fine.
>>>>>
>>>>> Ultimately, I'm trying to slave a FW410 interface to work with Reaper
>>>>> and

>>>>> would like to use the PARIS A/D for capture, passing it back to Reaper
>>>>> digitally.
>>>>>
>>>>> I'm all ears for ideas here. Thanks!
>>>>>
>>>>> Oh yeah, this is on XP dual core Athlon64 system.
>>>>>
>>>>> -Rohde
>>
>>
>
>
