Subject: Crackling on disk Bounce Posted by Rod Lincoln on Fri, 19 Oct 2007 14:40:37 GMT

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I've come up against a problem that I havn't had until know. When I mix using bounce to disk I get a crackling on the bounced file. It doesn't crackle during the bounce, but when I play back the bounced file, it crackles on the left channel.

So far I've tried removing all plugs on the master buss, and I've tried bouncing individual sub groups. Crackling is present in all instances.

I will be trying to figure this out today, but if anyone has had this before, I would welcome the advice.

I'm not pushing the levels so it's not "over" induced and I run my master fader at -0.03

Crackling is present even when bouncing a sub mix with one track on it. No overload light on submix.

Rod

Subject: Re: Crackling on disk Bounce

Posted by LaMontt on Fri, 19 Oct 2007 14:47:27 GMT

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Hi Rod.. Try bouncing onto another drive on you system to take the load off of your recording drive.

"Rod Lincoln" <rlincoln@nospam.kc.rr.com> wrote:

>

- >I've come up against a problem that I havn't had until know. When I mix using
- >bounce to disk I get a crackling on the bounced file. It doesn't crackle >during the bounce, but when I play back the bounced file, it crackles on >the left channel.
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- >I would welcome the advice.

>

- >I'm not pushing the levels so it's not "over" induced and I run my master >fader at -0.03
- >Crackling is present even when bouncing a sub mix with one track on it.
- >overload light on submix.
- >Rod

Subject: Re: Crackling on disk Bounce Posted by John [1] on Fri, 19 Oct 2007 15:31:02 GMT

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And if you're in XP, disable all the services discussed on my tweaks page.

www.kfocus.com/paris

my cubase one is probably more thorough too

www.kfocus.com/cubase

Subject: Re: Crackling on disk Bounce Posted by Rod Lincoln on Fri, 19 Oct 2007 16:18:43 GMT View Forum Message <> Reply to Message

Lamont...Tried it...no worky. Keep those ideas coming though. thanks rod

"LaMont" <jjdpro@gmail.com> wrote:

>

>Hi Rod.. Try bouncing onto another drive on you system to take the load off

>of your recording drive.

>

>"Rod Lincoln" <rlincoln@nospam.kc.rr.com> wrote:

>>

- >>I've come up against a problem that I havn't had until know. When I mix >using
- >>bounce to disk I get a crackling on the bounced file. It doesn't crackle
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- >>I'm not pushing the levels so it's not "over" induced and I run my master >>fader at -0.03
- >>Crackling is present even when bouncing a sub mix with one track on it.

>No

>>overload light on submix.

>>Rod

>

Subject: Re: Crackling on disk Bounce Posted by Neil on Fri, 19 Oct 2007 16:27:25 GMT

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Could it be the EDS card that the bounced channels are playing though? IOW, are you importing the bounced mix into a different submix/EDS card that's not being utilized in the main mix?

Neil

```
"Rod Lincoln" <rlincoln@nospam.kc.rr.com> wrote:
>Lamont...Tried it...no worky. Keep those ideas coming though. thanks
>"LaMont" < jjdpro@gmail.com> wrote:
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>>Hi Rod.. Try bouncing onto another drive on you system to take the load
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>>>Crackling is present even when bouncing a sub mix with one track on it.
>>No
>>>overload light on submix.
>>>Rod
>>
```

Subject: Re: Crackling on disk Bounce Posted by Rod Lincoln on Fri, 19 Oct 2007 16:37:44 GMT

```
No, I've thought of that and ruled that out. I Played the bounced files in
both the ppi that I mixed in, plus I opened them in a fresh ppi and tested
on various submixes. Snap, crackle, and Pop on all.
At this point I'm suspecting a 1. bad eds card 2. word clock issues 3. corrupt
ppj. My gut tells me it's a corrupt. We'll see
rod
"Neil" <IOUOI@IOU.com> wrote:
>Could it be the EDS card that the bounced channels are playing
>though? IOW, are you importing the bounced mix into a different
>submix/EDS card that's not being utilized in the main mix?
>Neil
>
>"Rod Lincoln" <rlincoln@nospam.kc.rr.com> wrote:
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>>Lamont...Tried it...no worky. Keep those ideas coming though. thanks
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>>>Crackling is present even when bouncing a sub mix with one track on it.
>>>No
>>>overload light on submix.
>>>Rod
>>>
```

Subject: Re: Crackling on disk Bounce

Posted by Rod Lincoln on Fri, 19 Oct 2007 16:38:51 GMT

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I've had that stuff turned off since day one. (checked again, to be sure)

Thanks though.

Rod

"John" <no@No.com> wrote:

>

>And if you're in XP, disable all the services discussed on my tweaks page.

>

>www.kfocus.com/paris

>

>my cubase one is probably more thorough too

>

>www.kfocus.com/cubase

Subject: Re: Crackling on disk Bounce

Posted by John [1] on Fri, 19 Oct 2007 16:51:24 GMT

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If you pull the cards, clean the contacts and the daughterboard contacts too with a contact cleaner

Subject: Re: Crackling on disk Bounce

Posted by Aaron Allen on Fri, 19 Oct 2007 18:13:33 GMT

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Have you tried bouncing the bus through an global external insert then using SPDIF to tap/record to a set of tracks, ala BT Autotune trick?

AA

"Rod Lincoln" <rlincoln@nospam.kc.rr.com> wrote in message news:4718dd58\$1@linux...

>

- > No, I've thought of that and ruled that out. I Played the bounced files in
- > both the ppj that I mixed in, plus I opened them in a fresh ppj and tested
- > on various submixes. Snap, crackle, and Pop on all.

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>>>>Crackling is present even when bouncing a sub mix with one track on it.
>>>No
>>>>overload light on submix.
>>>>Rod
>>>>
>>>
```

```
Subject: Re: Crackling on disk Bounce
Posted by EK Sound on Fri, 19 Oct 2007 18:24:32 GMT
```

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Any plugs running? Autotune is bad for this if the input to the plug is hot.

David.

Rod Lincoln wrote:

> No, I've thought of that and ruled that out. I Played the bounced files in > both the ppj that I mixed in, plus I opened them in a fresh ppj and tested > on various submixes. Snap, crackle, and Pop on all.

> At this point I'm suspecting a 1. bad eds card 2. word clock issues 3. corrupt

> ppj. My gut tells me it's a corrupt. We'll see

> rod

> "Neil" <IOUOI@IOU.com> wrote:

>

>>Could it be the EDS card that the bounced channels are playing

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>>

>>Neil

>> >>

>>"Rod Lincoln" <rlincoln@nospam.kc.rr.com> wrote:

>>

>>>Lamont...Tried it...no worky. Keep those ideas coming though. thanks

>>>rod

>>>"LaMont" <jjdpro@gmail.com> wrote:

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>>>>Hi Rod.. Try bouncing onto another drive on you system to take the load

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>>>of your recording drive.

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>>>"Rod Lincoln" <rlincoln@nospam.kc.rr.com> wrote:

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>>>>Rod
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>
```

Subject: Re: Crackling on disk Bounce Posted by Rod Lincoln on Fri, 19 Oct 2007 18:50:58 GMT View Forum Message <> Reply to Message

Yeah...all sorts of plugs. No auto tune though. It's not related anything too hot...happens sometimes in quite parts also
It looks like it may by related to the UAD 4.7 plugs, the one with the Neve 88rs. I re-ghosted my system back to a version with UAD 4.6, did a bounce (of course I was missing the 88rs plugs) and it was clean. At the time I thought it was just because I had a fresh install of the OS, Paris, etc.
I then re-installed the UAD 4.7 to get back the Neve 88rs plug and I started getting the same problem. I'm going to set up a quick mix on a fresh ppj to rule out a corrupted ppj, but that's where I'm at right now.
Rod
EK Sound <ask_me@nospam.net> wrote:
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```
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>Rod Lincoln wrote:
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>> "Neil" <IOUOI@IOU.com> wrote:
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>>>>
>>>>overload light on submix.
>>>>Rod
>>>>
>>
```

Subject: Re: Crackling on disk Bounce Posted by Rod Lincoln on Fri, 19 Oct 2007 18:56:51 GMT View Forum Message <> Reply to Message

I thought of that, but havn't tried it yet. 2 reasons. 1.right now, I'm using the spdif on the A card to connect to the DAC-1, which connects to my monitors. I'd have to change that all around, and right now, I'm hoing not to have to go through that, as it's next to impossible to get to the back of my Mecs. 2. It seems like, while that may prove to be an acceptable work around, I'd like to get to the bottom of whats going on that causes the problem in the first place.

I'll probably end up trying it, if I can't get it sussed out.
check my response to EK's post for what I've found out so far.
Thanks
Rod

"Aaron Allen" <know-spam@not_here.dude> wrote:
>Have you tried bouncing the bus through an global external insert then using

>SPDIF to tap/record to a set of tracks, ala BT Autotune trick?
> >AA
>
> "Rod Lincoln" <rlincoln@nospam.kc.rr.com> wrote in message
> news:4718dd58\$1@linux...
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>>>>>Rod
>>>>
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```

Subject: Re: Crackling on disk Bounce Posted by Aaron Allen on Sat, 20 Oct 2007 00:17:21 GMT View Forum Message <> Reply to Message

drag. Well, I guess you could always pull up a more current box, set up super low latency and native/adat pipe the plugs if Paris won't get along.

AA

"Rod Lincoln" <rlincoln@nospam.kc.rr.com> wrote in message news:4718fc92\$1@linux...

>

- > Yeah...all sorts of plugs. No auto tune though. It's not related anything
- > too hot...happens sometimes in quite parts also
- > It looks like it may by related to the UAD 4.7 plugs, the one with the
- > Neve
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>>>>Rod
>>>>>
>>>
```

Subject: Re: Crackling on disk Bounce Posted by audioguy_editout_ on Wed, 24 Oct 2007 05:01:35 GMT View Forum Message <> Reply to Message

Render the plug, redo the mix without the plug on.

David.

Rod Lincoln wrote:

- > Well...I had to go out of town for a couple days and since I've got back I've
- > been troubble shooting the problem I posted about last week.
- > I've definatly got it narrowed down to the UAD plugs. Now I think it may
- > be a bad UAD card. Not sure yet, still more tests to do tommorrow. It's either
- > a software rev. mismatch with Paris, or a card. I ghosted my system back
- > to the 4.6 UAD version and I still get clicks and pops. I think I have a
- > 4.5 version ghosted. going to try that tommorrow. If it still has the pops,
- > I'll start pulling cards. Got 3 of em.
- > When I get rid of the UAD plugs the pops go away.
- > No, I'm not driving the plugs too hard. :-)
- > No overs anywhere. I set up an incrediably safe mix for testing this.
- > Rod

Subject: Re: Crackling on disk Bounce Posted by Rod Lincoln on Wed, 24 Oct 2007 05:05:46 GMT Well...I had to go out of town for a couple days and since I've got back I've been trouble shooting the problem I posted about last week.

I've definatly got it narrowed down to the UAD plugs. Now I think it may be a bad UAD card. Not sure yet, still more tests to do tommorrow. It's either a software rev. mismatch with Paris, or a card. I ghosted my system back to the 4.6 UAD version and I still get clicks and pops. I think I have a 4.5 version ghosted. going to try that tommorrow. If it still has the pops, I'll start pulling cards. Got 3 of em.

When I get rid of the UAD plugs the pops go away.

No, I'm not driving the plugs too hard. :-)

No overs anywhere. I set up an incrediably safe mix for testing this.

Rod

Subject: Re: Crackling on disk Bounce
Posted by mike audet[1] on Wed, 24 Oct 2007 12:50:37 GMT
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Hi Rod,

I'm pretty sure this happens because there aren't enough CPU resources. If you have hyperthreading turned off, I've been using a dual core fix for a couple of months now with no issues. We could try turning hyperthreading on and using the fix to see if that solves the crackle.

Good luck!

Mike

"Rod Lincoln" <rlincoln@nospam.kc.rr.com> wrote:

>

- >Well...I had to go out of town for a couple days and since I've got back I've
- >been trouble shooting the problem I posted about last week.
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- >No, I'm not driving the plugs too hard. :-)
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- >Rod

Yeah, I'll take you up on that. So you think by turning hyperthreading on, and usuing your dual core fix, which will fix the hyperthreading issue, it will fix the problem? Just to give you a little more info. I just tried a bounce to disk of a mix that only contained 1 track of UAD plugs.. Uad Fairchild and Cambridge. I still got clicks and pops (about 6 total), when I get rid of all the UAD plugs there are no clicks or pops. I have 3 UAD cards. I'd be willing to give it a try. Thanks Rod "Mike Audet" <mike@....> wrote: > >Hi Rod, >I'm pretty sure this happens because there aren't enough CPU resources. >If you have hyperthreading turned off, I've been using a dual core fix for >a couple of months now with no issues. We could try turning hyperthreading >on and using the fix to see if that solves the crackle. >Good luck! >Mike >"Rod Lincoln" <rlincoln@nospam.kc.rr.com> wrote: >>Well...I had to go out of town for a couple days and since I've got back >l've >>been trouble shooting the problem I posted about last week. >>I've definatly got it narrowed down to the UAD plugs. Now I think it may >>be a bad UAD card. Not sure yet, still more tests to do tommorrow. It's

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>>No overs anywhere. I set up an incrediably safe mix for testing this.

>>Rod

>either

Subject: Re: Crackling on disk Bounce

Hi Rod,

I'll post some instructions on my website later today.

I think what is happening is that the PCI bus is tying up the 1 cpu and samples are overflowing a buffer and not making it to disk. With a second CPU. it may be enough to keep things moving smoothly. We'll just have to try it.

All the best.

>>l've

```
Mike
"Rod Lincoln" <rlincoln@nospam.kc.rr.com> wrote:
>Yeah, I'll take you up on that. So you think by turning hyperthreading on,
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>I'd be willing to give it a try. Thanks
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>"Mike Audet" <mike@....> wrote:
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>>>Rod
>>

Subject: Re: Crackling on disk Bounce Posted by Tom Bruhl on Wed, 24 Oct 2007 23:55:01 GMT View Forum Message <> Reply to Message

This is a multi-part message in MIME format.

-----=_NextPart_000_0036_01C81677.C38B1350 Content-Type: text/plain; charset="iso-8859-1" Content-Transfer-Encoding: quoted-printable

Rod,

In my P3 days when it got to the edge I'd get those clicks too.
I understand you don't really get three times the power from three UADs.
Maybe their resources are also on the brink?

Hey Mike, after I get the P4 happening again I'll take you up on the = Hyperthreading fix.

Tom

"Mike Audet" <mike@....> wrote in message news:471f6311\$1@linux...

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I choose Polesoft Lockspam to fight spam, and you?
http://www.polesoft.com/refer.html
-----=_NextPart_000_0036_01C81677.C38B1350
Content-Type: text/html;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
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<META http-equiv=3DContent-Type content=3D"text/html; =
charset=3Diso-8859-1">
<META content=3D"MSHTML 6.00.2800.1400" name=3DGENERATOR>
<STYLE></STYLE>
</HEAD>
<BODY bgColor=3D#ffffff>
<DIV><FONT face=3DArial size=3D2>Rod,</FONT></DIV>
<DIV><FONT face=3DArial size=3D2>In my P3 days when it got to the edge =
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<BLOCKQUOTE=20
style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =
BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">
 <DIV>"Mike Audet" &lt;mike@....&gt; wrote in message <A=20
href=3D"news:471f6311$1@linux">news:471f6311$1@linux</A>...</DIV><BR>Hi=20
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```
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..html</A>&nbsp;&nbsp;&nbsp;</FONT></DIV></BODY ></HTML>
----=_NextPart_000_0036_01C81677.C38B1350--
```

Subject: Re: Crackling on disk Bounce
Posted by mike audet[1] on Thu, 25 Oct 2007 02:01:39 GMT
View Forum Message <> Reply to Message

This is a multi-part message in MIME format.

---=_linux471ff903
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Hi Rod.

Here's the text from a post I did a little while ago. It's not quite complete. It turns out that you also need the intaffinity flag set for it to work. I just had that set for other reasons already, so I didn't know it was part of the fix.

So, to add the intaffinity switch, open c:\boot.ini and add "/INTAFFINITY" so that the line reads something like:

[Operating Systems]

multi(0)disk(0)rdisk(0)partition(2)\WINDOWS="Microsoft Windows XP Professional - int affinity" /fastdetect /NoExecute=OptIn /INTAFFINITY /usepmtimer

I've attached my boot.ini for reference.

The rest of my old post is as follows:

Hi All,

I'm not sure how many people this affects, but I recently picked up a C16 and was finally faced with the dual core/c16 issues first hand.

I've only tested for about an hour, but PARIS has worked perfectly for that long without disabling the second CPU, and it froze up immediately without the fix.

I'm using Windows XP pro with an Athlon X2 3800+ with 2 EDS cards and one C16.

The fix is a utility that you can launch before starting PARIS that assigns the PARIS software to one CPU. I selected CPU 1 for my tests. This leaves the other CPU free to run a MIDI sequencer, do Windows housekeeping, or whatever.

The cpu software is here:

http://images.tomshardware.com/2004/05/28/getting_more_bang_out_of_your_dual_processing_buck/taskassign.zip

If anyone has trouble downloading it, I could post it.

There's a tab called "application profiles" where you can browse for software to assign a cpu affinity for it. As long as the program is running before PARIS starts, everything seems to work fine.

Let me know if any of this is unclear.

All the best.

```
"Mike Audet" <mike@....> wrote:
>Hi Rod,
>I'll post some instructions on my website later today.
>I think what is happening is that the PCI bus is tying up the 1 cpu and
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---= linux471ff903
Content-Type: application/octet-stream; name="BOOT.INI"
Content-Transfer-Encoding: base64
Content-Disposition: attachment; filename="BOOT.INI"
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Subject: Re: Crackling on disk Bounce Posted by Rod Lincoln on Thu, 25 Oct 2007 04:40:44 GMT View Forum Message <> Reply to Message

After more testing, I'm not sure it's the UAD's after all. I ghosted back to a version of the UAD that I could render (4.6) and rendered all plugs. When bouncing the mix with no UAD's I still got a couple of clicks...these happen in different places. Not repeatable. I think your explanation maybe closer than you think. Maybe I'm just pushing the system to the edge. This is a 24 bit mix, tracks and bounce. When I rendered the UAD plugs I created several new tracks as I was doing a bit of parallel compression. That makes sensse. Before, when testing, I just got rid of the UAD plugs...no compessation for the tracks, just for the test...in other words...no new new tracks added=no new overhead-UAD plugs=no pops. Rendering the UAD plugs=more overhead because of higher track count that offsets the UAD plugs that are now gone=pops.

```
"Tom Bruhl" <arpegio@comcast.net> wrote:
>
>
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>
```

Subject: Re: Crackling on disk Bounce Posted by Rod Lincoln on Thu, 25 Oct 2007 04:43:09 GMT View Forum Message <> Reply to Message

Mike...just to make sure I'm understanding you....I have a single core motherboard cpu....are you saying this method will still work, or are you thinking I have a dual core cpu?

```
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>- int affinity" /fastdetect /NoExecute=OptIn /INTAFFINITY /usepmtimer
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>PARIS starts, everything seems to work fine.
>Let me know if any of this is unclear.
>All the best,
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>>I'll post some instructions on my website later today.
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>>I think what is happening is that the PCI bus is tying up the 1 cpu and
>samples
>>are overflowing a buffer and not making it to disk. With a second CPU.
>it
>>may be enough to keep things moving smoothly. We'll just have to try
it.
>>
>>All the best,
>>
>>Mike
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>>"Rod Lincoln" <rlincoln@nospam.kc.rr.com> wrote:
>>>Yeah, I'll take you up on that. So you think by turning hyperthreading
>>>and usuing your dual core fix, which will fix the hyperthreading issue,
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>>>Just to give you a little more info. I just tried a bounce to disk of
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>>>I have 3 UAD cards.
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>>>on and using the fix to see if that solves the crackle.
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>>>>Good luck!
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>>>>Mike
>>>>"Rod Lincoln" <rlincoln@nospam.kc.rr.com> wrote:
>>>>Well...I had to go out of town for a couple days and since I've got
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>>>I've
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>>>>I've definatly got it narrowed down to the UAD plugs. Now I think it
>>>>be a bad UAD card. Not sure yet, still more tests to do tommorrow. It's
>>>either
>>>>a software rev. mismatch with Paris, or a card. I ghosted my system
>>>>to the 4.6 UAD version and I still get clicks and pops. I think I have
>>>>4.5 version ghosted, going to try that tommorrow. If it still has the
>>pops,
>>>>I'll start pulling cards. Got 3 of em.
>>>>When I get rid of the UAD plugs the pops go away.
>>>>No, I'm not driving the plugs too hard. :-)
>>>>No overs anywhere. I set up an incrediably safe mix for testing this.
>>>>Rod
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>>>
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Subject: Re: Crackling on disk Bounce
Posted by Mike Audet on Thu, 25 Oct 2007 10:48:04 GMT
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Hi Rod,

>>>

Hyperthreading is like a simulated dual core, so it should work the same, except it won't be quite as efficient as a real dual core.

Hope it helps!

Mike

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"Rod Lincoln" <rlincoln@nospam.kc.rr.com> wrote:
>Mike...just to make sure I'm understanding you....I have a single core motherboard
>cpu....are you saying this method will still work, or are you thinking I
>have a dual core cpu?
>Rod
>"Mike Audet" <mike@....> wrote:
>>
>>
>>
>>Hi Rod.
>>
>>Here's the text from a post I did a little while ago. It's not quite complete.
>> It turns out that you also need the intaffinity flag set for it to work.
>> I just had that set for other reasons already, so I didn't know it was
>part
>>of the fix.
>>
>>So, to add the intaffinity switch, open c:\boot.ini and add "/INTAFFINITY"
>>so that the line reads something like:
>>
>>[Operating Systems]
>>multi(0)disk(0)rdisk(0)partition(2)\WINDOWS="Microsoft Windows XP Professional
>>- int affinity" /fastdetect /NoExecute=OptIn /INTAFFINITY /usepmtimer
>>
>>I've attached my boot.ini for reference.
>>The rest of my old post is as follows:
>>
>>Hi All.
>>
>>I'm not sure how many people this affects, but I recently picked up a C16
>>and was finally faced with the dual core/c16 issues first hand.
>>
>>I've only tested for about an hour, but PARIS has worked perfectly for
>>long without disabling the second CPU, and it froze up immediately without
>>the fix.
>>
>>I'm using Windows XP pro with an Athlon X2 3800+ with 2 EDS cards and
one
>>C16.
>>
>>The fix is a utility that you can launch before starting PARIS that assigns
>>the PARIS software to one CPU. I selected CPU 1 for my tests. This leaves
>>the other CPU free to run a MIDI sequencer, do Windows housekeeping, or
>whatever.
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>>
>>The cpu software is here:
>>
>> http://images.tomshardware.com/2004/05/28/getting_more_bang_
out_of_your_dual_processing_buck/taskassign.zip
>>
>>If anyone has trouble downloading it, I could post it.
>>
>>There's a tab called "application profiles" where you can browse for software
>>to assign a cpu affinity for it. As long as the program is running before
>>PARIS starts, everything seems to work fine.
>>
>>Let me know if any of this is unclear.
>>
>>All the best,
>>
>>Mike
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