
Subject: latest PSCL

Posted by [Mike Audet](#) on Sun, 21 Sep 2008 14:43:47 GMT

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Hi All,

I think I finally found the playback locking issue on multi-core machines with the PSCL, but it's not in the PCL. When it happens, the IRQ is becoming masked (turned off), and it's definitely not happening in the PSCL. I've put into place the mother of all hacks - if the helper thread times out because the IRQs are masked, it unmaskes them. Since this only seems to happen when projects are loading, it works.

The Scherzo masks the IRQs during the interrupt service routine and the delayed procedure call. I think they are stepping on each other if the DPC is delayed enough than a new interrupt fires before it finishes.

I'm going to figure out how to compile the scherzo and put some locking around the IRQ masks. I'm pretty sure that's where the true fix lies. The delays I was putting in probably just gave more CPU time to the scherzo by putting the app to sleep for short times, reducing delays in the driver and improving the problem without solving it.

We're very, very close to putting this thing to bed.

After that, I'm going to work on the ASIO driver. After that, migrating parts of the PSCL into the scherzo so we can get some wav drivers going.

Cheers!

Mike

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Posted by [kerryg](#) on Sun, 21 Sep 2008 15:28:22 GMT

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All I can say is that whether the last fix was a "true" fix or not, I just had to close REAPER for the first time in about 36 hours straight, and that was only so I could add the new PSCL and restart. PARIS ASIO is usably stable for me now, after 36 hours of being open without crashing or rebooting, with a moderate test mix in progress

So if that kind of "not fixed" was as good as it ever got, it would have been fixed enough for me - I wish I could say I'd solved my own (unrelated to audio) software headaches so solidly.

But I understand wanting to be sure you've treated the disease and not the symptom, and I suspect that if this nails it you'll be able to start shortening those lengthened internal timings again and speeding everything up. I'll let you know how this works over here - keep up the superb work!

- K

On 2008-09-21 07:43:47 -0700, "Mike Audet" <mike@...> said:

>
>
>
> Hi All,
>
> I think I finally found the playback locking issue on multi-core machines
> with the PSCL, but it's not in the PCL. When it happens, the IRQ is becoming
> masked (turned off), and it's definitely not happening in the PSCL. I've
> put into place the mother of all hacks - if the helper thread times out because
> the IRQs are masked, it unmaskes them. Since this only seems to happen when
> projects are loading, it works.
>
> The Scherzo masks the IRQs during the interrupt service routine and the delayed
> procedure call. I think they are stepping on each other if the DPC is delayed
> enough than a new interrupt fires before it finishes.
>
> I'm going to figure out how to compile the scherzo and put some locking around
> the IRQ masks. I'm pretty sure that's where the true fix lies. The delays
> I was putting in probably just gave more CPU time to the scherzo by putting
> the app to sleep for short times, reducing delays in the driver and improving
> the problem without solving it.
>
> We're very, very close to putting this thing to bed.
>
> After that, I'm going to work on the ASIO driver. After that, migrating
> parts of the PSCL into the scherzo so we can get some wav drivers going.

>
> Cheers!
>
> Mike
>
> This message has one or more attachments. Select "Save Attachments"
> from the File menu to save.

Subject: Re: latest PSCL
Posted by [Mike Audet](#) on Sun, 21 Sep 2008 17:03:35 GMT
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Thanks, Kerry!

In the latest build, I reset the delays to zero. So, it should be faster.

Cheers!

Mike

KerryGalloway <kg@kerrygalloway.com> wrote:

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>> Cheers!
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>> Mike
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>> This message has one or more attachments. Select "Save Attachments"
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>
>

Subject: Re: latest PSCL
Posted by [kerryg](#) on Sun, 21 Sep 2008 17:13:02 GMT
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Well, an hour of testing and it seems solid here, both with PARIS and through ASIO. I can't tell the difference from the last build, but I guess that's the point.

If you're tackling the IRQ assignment glitches in the PSCL, and

everything depends upon the PSCL - do you think this could also have a global positive effect on PARIS' IRQ twitchiness overall?

- K

On 2008-09-21 10:03:35 -0700, "Mike Audet" <mike@...> said:

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> Thanks, Kerry!
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> In the latest build, I reset the delays to zero. So, it should be faster.
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> Cheers!
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> Mike

Subject: Re: latest PSCL

Posted by [Mike Audet](#) on Sun, 21 Sep 2008 17:54:24 GMT

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Hi Kerry,

I've just been looking at the Scherzo and I'm certain I know what has been happening. There is function that is called when the hardware interrupts called an ISR. It does the following:

- 1) read what the interrupt state is.
- 2) set the interrupt state to masked (ignore).
- 3) Calls a delayer procedure call that runs later and actually does the work and resets the mask to how the ISR found it.
- 4) returns

This is a really clean, quick, efficient ISR. I don't think there is anything wrong with it. I suspect that PARIS is just sensitive to other badly written ISRs because it needs to work in real time.

The problem on a Multi-processor machine is that two interrupts can be called on two CPUs at the same time, or slightly different times.

A second call can come in a little after a first call and, to make a long story short, when it checks to see what the IRQ state is, it records that it is masked (off) because the other ISR just masked it. The 1st one finishes and restores the IRQs to unmasked (good). When the second one finishes, it restores the IRQ mask to how it found it, which is masked. From then on, there are no more samples requested by the card.

The version of the PSCL I just posted works around this because when this happens (which is rare), it just un masks the Interrupt.

It should work fine until I can fix the Scherzo.

So cool!

:)

KerryGalloway <kg@kerrygalloway.com> wrote:

>Well, an hour of testing and it seems solid here, both with PARIS and
>through ASIO. I can't tell the difference from the last build, but I
>guess that's the point.

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>> Mike

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Subject: Re: latest PSCL

Posted by [Deej \[5\]](#) on Sun, 21 Sep 2008 19:03:04 GMT

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You're amazing dude.

;)

Subject: Re: latest PSCL

Posted by [JeffH](#) on Sun, 21 Sep 2008 20:58:26 GMT

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Mike,

Hopefully I'll be able to do more testing next week. Been working to

expand the system into a different magma case and so far cannot seem to get beyond 4 eds cards before it crashes and the system restarts on its own. Once I get to stable, I should be of some use in the testing process. Makes me want to take it back to where it was. In the old case I had six cards rock solid and was seeing all the ADAT cards. I just got greedy :-)

Jeff

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Subject: Re: latest PSCL

Posted by [Gantt Kushner](#) on Sun, 21 Sep 2008 21:15:11 GMT

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Hey Kerry,

Speaking of Reaper - I just tried turning on a couple of UAD-1 plugins in Reaper and there are no cool pictures of the boxes they emulate! Only a generic parameter list. Is that different on PC?

By the way - as soon as I get time I'm going to call to tell you about the Alberta seminar we went to. I'm in the midst of a massive work weekend. Be careful what you pray for!

Gantt

KerryGalloway <kg@kerrygalloway.com> wrote:

>All I can say is that whether the last fix was a "true" fix or not, I
>just had to close REAPER for the first time in about 36 hours straight,

>and that was only so I could add the new PSCL and restart. PARIS ASIO
>is usably stable for me now, after 36 hours of being open without
>crashing or rebooting, with a moderate test mix in progress

>
>So if that kind of "not fixed" was as good as it ever got, it would
>have been fixed enough for me - I wish I could say I'd solved my own
>(unrelated to audio) software headaches so solidly.

>
>But I understand wanting to be sure you've treated the disease and not
>the symptom, and I suspect that if this nails it you'll be able to
>start shortening those lengthened internal timings again and speeding
>everything up. I'll let you know how this works over here - keep up the

>superb work!

>

>- K

>

>On 2008-09-21 07:43:47 -0700, "Mike Audet" <mike@...> said:

>

>>

>>

>>

>> Hi All,

>>

>> I think I finally found the playback locking issue on multi-core machines
>> with the PSCL, but it's not in the PCL. When it happens, the IRQ is becoming
>> masked (turned off), and it's definitely not happening in the PSCL. I've
>> put into place the mother of all hacks - if the helper thread times out
because

>> the IRQs are masked, it unmaskes them. Since this only seems to happen
when

>> projects are loading, it works.

>>

>> The Scherzo masks the IRQs during the interrupt service routine and the
delayed

>> procedure call. I think they are stepping on each other if the DPC is
delayed

>> enough than a new interrupt fires before it finishes.

>>
>> I'm going to figure out how to compile the scherzo and put some locking around
>> the IRQ masks. I'm pretty sure that's where the true fix lies. The delays
>> I was putting in probably just gave more CPU time to the scherzo by putting
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Subject: Re: latest PSCL
Posted by [JeffH](#) on Sun, 21 Sep 2008 21:26:37 GMT
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Mike,

I am actually suspecting interconnect cables. Paris starts, gives me the "eds card is not configured properly" message, Click ok and poof, it reboots. If I for the end of the program from the task manager before clicking ok, the machine is fine. No default project, nothing funky that I know of in the config.

It's been the same thing as I have been adding cards. Keep switching interconnect cables and it finally comes back up. I need to test them all but don't have a continuity tester here at home.

JH

> Hi Jeff,

>

> I'm sorry to hear that. If you want to use to use the latest PSCL I posted
> along with DebugView (attached), I could look at the output to see if it
> is a driver issue.

>

> Good luck!

>

> Mike
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>
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Subject: Re: latest PSCL
Posted by [Mike Audet](#) on Sun, 21 Sep 2008 21:28:03 GMT
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This is a multi-part message in MIME format.

---=_linux48d6bc62
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Hi Jeff,

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Good luck!

Mike

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---=_linux48d6bc62

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Content-Transfer-Encoding: base64

Content-Disposition: attachment; filename="DebugView.zip"

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Subject: Re: latest PSCL
Posted by [Paul Artola](#) on Sun, 21 Sep 2008 23:06:27 GMT
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Gantt -

I don't recall what the button is labeled, but in the windows version of Reaper, my plugins come up with a parameter list too, but clicking the button toggles to graphic mode.

- Paul Artola
Ellicott City, Maryland

On 22 Sep 2008 07:15:11 +1000, "Gantt Kushner" <ganttmann@comcast.net> wrote:

>
>Hey Kerry,
>
>Speaking of Reaper - I just tried turning on a couple of UAD-1 plugins in
>Reaper and there are no cool pictures of the boxes they emulate! Only a
>generic parameter list. Is that different on PC?
>
>By the way - as soon as I get time I'm going to call to tell you about the
>Alberta seminar we went to. I'm in the midst of a massive work weekend.

> Be careful what you pray for!
>
>Gantt
>
>KerryGalloway <kg@kerrygalloway.com> wrote:
>>All I can say is that whether the last fix was a "true" fix or not, I
>>just had to close REAPER for the first time in about 36 hours straight,
>
>>and that was only so I could add the new PSCL and restart. PARIS ASIO
>>is usably stable for me now, after 36 hours of being open without
>>crashing or rebooting, with a moderate test mix in progress
>>
>>So if that kind of "not fixed" was as good as it ever got, it would
>>have been fixed enough for me - I wish I could say I'd solved my own
>>(unrelated to audio) software headaches so solidly.
>>
>>But I understand wanting to be sure you've treated the disease and not
>>the symptom, and I suspect that if this nails it you'll be able to
>>start shortening those lengthened internal timings again and speeding
>>everything up. I'll let you know how this works over here - keep up the
>
>>superb work!
>>
>>- K
>>
>>On 2008-09-21 07:43:47 -0700, "Mike Audet" <mike@...> said:
>>
>>>
>>>
>>>
>>> Hi All,
>>>
>>> I think I finally found the playback locking issue on multi-core machines
>>> with the PSCL, but it's not in the PCL. When it happens, the IRQ is becoming
>>> masked (turned off), and it's definitely not happening in the PSCL. I've
>>> put into place the mother of all hacks - if the helper thread times out
>>>because
>>> the IRQs are masked, it unmaskes them. Since this only seems to happen
>>>when
>>> projects are loading, it works.
>>>
>>> The Scherzo masks the IRQs during the interrupt service routine and the
>>>delayed
>>> procedure call. I think they are stepping on each other if the DPC is
>>>delayed
>>> enough than a new interrupt fires before it finishes.
>>>
>>> I'm going to figure out how to compile the scherzo and put some locking

>around
>>> the IRQ masks. I'm pretty sure that's where the true fix lies. The delays
>>> I was putting in probably just gave more CPU time to the scherzo by putting
>>> the app to sleep for short times, reducing delays in the driver and improving
>>> the problem without solving it.
>>>
>>> We're very, very close to putting this thing to bed.
>>>
>>> After that, I'm going to work on the ASIO driver. After that, migrating
>>> parts of the PSCL into the scherzo so we can get some wav drivers going.
>>>
>>> Cheers!
>>>
>>> Mike
>>>
>>> This message has one or more attachments. Select "Save Attachments"
>>> from the File menu to save.
>>
>>

Subject: Re: latest PSCL
Posted by [kerryg](#) on Sun, 21 Sep 2008 23:38:13 GMT
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The button is in the upper RH corner of the window that comes up when you click the track's FX button, it's labelled "UI". Give that a try. The GUI stuff for Mac OSX plugins is amongst the most recent stuff he's been working on in the beta; I can pretty much guarantee that if there's a UI issue with them he'll be on it fast, REAPER's one of the most UAD-friendly apps out there.

- K

On 2008-09-21 16:06:27 -0700, Paul Artola <artola@comcast.net> said:

> Gantt -
>
> I don't recall what the button is labeled, but in the windows version
> of Reaper, my plugins come up with a parameter list too, but clicking
> the button toggles to graphic mode.
>
> - Paul Artola
> Ellicott City, Maryland

Subject: Re: latest PSCL

Posted by [mike audet\[3\]](#) on Mon, 22 Sep 2008 14:41:42 GMT

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Thanks, Deej.

I think you need a PARIS rig again just for the reverbs. :)

Cheers!

Mike

"Deej" <noway@jose.net> wrote:

>

>You're amazing dude.

>:)

Subject: Re: latest PSCL

Posted by [Dimitrios](#) on Wed, 24 Sep 2008 14:28:41 GMT

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Hi Mike,

Your last dll has other problem with my setup.

The fifth EDS card named (E) submix behaves wrongly.

It plays first and then after pressing stop it does not play anymore until

I hit the solo inside editor and it plays until I hit stop again.

Spdif out now works !

Cheers,

Dimitrios

"Mike Audet" <mike@...> wrote:

>

>

>

>Hi All,

>

>I think I finally found the playback locking issue on multi-core machines

>with the PSCL, but it's not in the PCL. When it happens, the IRQ is becoming

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>the IRQs are masked, it unmaskes them. Since this only seems to happen when

>projects are loading, it works.

>

>The Scherzo masks the IRQs during the interrupt service routine and the

delayed

>procedure call. I think they are stepping on each other if the DPC is delayed

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>After that, I'm going to work on the ASIO driver. After that, migrating
>parts of the PSCL into the scherzo so we can get some wav drivers going.
>
>Cheers!
>
>Mike

Subject: Re: latest PSCL
Posted by [Mike Audet](#) on Wed, 24 Sep 2008 14:51:29 GMT
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Thanks for the report, Dimitrios! I'm going to fix up the Scherzo and see if that clears up what's left. I only have a two card system, so your testing is really helpful.

Thanks again!

Mike

"Dimitrios" <musurgio@otenet.gr> wrote:

>
>Hi Mike,
>Your last dll has other problem with my setup.
>The fifth EDS card named (E) submix behaves wrongly.
>It plays first and then after pressing stop it does not play anymore until
>I hit the solo inside editor and it plays until I hit stop again.
>Spdif out now works !
>Cheers,
>Dimitrios

>
>"Mike Audet" <mike@...> wrote:

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