
Subject: Would a Paris metronome be useful?

Posted by [Mike Audet](#) on Thu, 17 Jul 2008 20:30:17 GMT

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gt;>>> so I

Subject: Re: Would a Paris metronome be useful?

Posted by [Tom Bruhl](#) on Thu, 17 Jul 2008 21:08:53 GMT

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could do remote stuff w/ my wife's PC laptop but that seems to be

>>>> a

>>>>> whole 'nother can of worms.

>>>>>

>>>>> Does anyone have experience with sending 24 bit ADAT lightpipe signal

>>> into

>>>>> Paris' 20 bit ADAT cards' inputs? Does it sound good, bad, indifferent?

>>>>>

>>>>> I'm also interested in the Mackie Onyx 1200F. 12 Onyx preamps, about

>>> a

>>>>> gazillion

>>>>> other ins and outs, ADAT lightpipe, firewire,

Subject: Re: Would a Paris metronome be useful?

Posted by [Don Nafe](#) on Thu, 17 Jul 2008 22:28:53 GMT

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control room monitor,

>>>>> headphone

>>>>> outs. All for around \$1700.

>>>>>

>>>>> Anyone want to buy my 1975 Martin D28?

>>>>>

>>>>> Gantt

>>>>

>> Hey Aaron, or anybody for that matter...any thoughts on what a good multicore mobo to get would be? I just might have to do this.

Rod

"Aaron Allen" <know-spam@not_here.dude> wrote:

>I've said it before, but it's worth another round. You absolutely fail to

>suck bro. Awesome work, I can't wait to get a multi core rig going with some

>EDS's in it to bust a trial off.
>AA
>
>
>"Mike Audet" <mike@....> wrote in message news:48ce6d22\$

Subject: Re: Would a Paris metronome be useful?
Posted by [Aaron Allen](#) on Thu, 17 Jul 2008 22:46:48 GMT
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ailto:1@linux..." target="_blank">1@linux...
>>
>> Thanks, Chuck! I've been reading up on volatile variables. I'm thinking
>> that some of the delays I'm having to put in might be better handled by

>> declaring
>> the user mode pointers as volatile given that we're really multitasking

>> now.
>>
>> This is a great learning experience for me. :)

Subject: Re: Would a Paris metronome be useful?
Posted by [Rod Lincoln](#) on Thu, 17 Jul 2008 23:36:41 GMT
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/>
>>
>> Thanks again!
>>
>> Mike
>>
>>
>>
>> "chuck duffy" <c@c.com> wrote:
>>>
>>>Lookin good dude. I'm trying to dig up the C16 code for you, I'll bet
you
>>>could have fun with that :-)
>>>
>>>Chuck
>>>
>>>"Mike Audet" <mike@...> wrote:
>>>>
>>>>

>>>>
>>>>Looks like I trimmed the timings down too far in one place.
>>>>
>>>>Here's a newer one.
>>>>
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>>>>
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>>>>"Mike Audet" <mike@...> wrote:
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>>>>
>>>>
>>>>Hi All,
>>>>
>>>>Here's my latest build of the PSCL.

Subject: Re: Would a Paris metronome be useful?
Posted by [Rod Lincoln](#) on Thu, 17 Jul 2008 23:40:14 GMT
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>>>>>
>>>>>I thought I should write a bit about what the PSCL is and what it does.
>>>>>
>>>>>
>>>>>
>>>>>There is a set chain of communication that goes on in PARIS while the
>> app
>>>>>is running. It looks like this:
>>>>>
>>>>>PARIS App <--> PSCL <--> scherzo driver <---> hardware.
>>>>>
>>>>>Basically, the App calls functions in the PSCL in order to tell the

>>>>>hardware
>>>>>to stop playing, or start, or load the driver for the 8 out cards,

Subject: Re: Would a Paris metronome be useful?
Posted by [Mike Audet](#) on Fri, 18 Jul 2008 01:00:14 GMT
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or
>> whatever.
>>>>> The PSCL translates these requests to commands that the cards can
>>>>> understand

>>>>>and sends the commands to the scherzo driver to pass them down to the
>> cards.
>>>

Subject: Re: Would a Paris metronome be useful?
Posted by [Mike Audet](#) on Fri, 18 Jul 2008 01:02:50 GMT
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;>>
>>>>>
>>>>>When the PSCL was first written - which was a long time ago now - there
>>>>>was
>>>>>no way to run PARIS on a multi-CPU machine. Not only was there no need
>>>>>to
>>>>>protect the code from the hazards of a multi-cpu machine, there was
no
>>>way
>>>>>to test if what you had done worked even if you tried.
>>>>>
>>>>>I've been trying to make the PSCL multi-cpu safe. This has been a huge
>>>>>challenge
>>>>>for me because the PSCL was written in a c-like style. It's all
>>>>>structures
>>>>>and functions. It's not object oriented at all, which is what is more
>>>common
>>>>>today and what I'm used to. I'm also still a new programmer. So, more
>>>>>than
>>>>>once I've thought something was broken or messed up when it probably

>>>>>wasn't.
>>>>> I just didn't understand it correctly.
>>>>>
>>>>>Anyway, what I have done is put locks on all the resources I can find
>> that
>>>>>could be affected by two CPUs trying to change them at the exact same
>> time.
>>>>> I've also discovered that there are certain card resources that the

>>>>> PSCL
>>>>>tries to change directly without going through the scherzo driver.
>>>>>These
>>>>>&g

Subject: Re: Would a Paris metronome be useful?
Posted by [Mike Audet](#) on Fri, 18 Jul 2008 01:05:00 GMT

t;variables seem to need around 3 milliseconds to "take". I think that

>>>>>under

>>>>>windows 95, the PSCL was directly altering the memory on the cards,
but

>>>>>Windows

>>>>>XP doesn't allow that. What I think is happening is that Windows is

>>>>>intercepting

>>>>>the attempt to alter the variable and passing it down through the

>>>>>regular

>>>>>mechanisms, and that imposes a delay. If the app moves on and tries
to

>>>>>do

>>>>>something that requires the value being set properly, things go wrong.

>>>

>>>>>I'm

>>>>>guess that on a single CPU system, Windows is regularly interrupting
to

>>>>>manage

>>>>>memory, read files from

Subject: Re: Would a Paris metronome be useful?

Posted by [Rod Lincoln](#) on Fri, 18 Jul 2008 02:51:43 GMT

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r />

>>>>> allegedly

>>>>> have the super groovy mic pres and firewire. Both seek to have line
>>>>> outs.

>>>>> The Firestudio seems to have better S/N in the digi output.

>>>>>

>>>>> I dunno. I need to do this on the cheap!

>>>>>

>>>>> Gantt

>>>>>

>>>>> KerryGalloway <kg@kerrygalloway.com> wrote:

>>>>>> Heya Gantt - REAPER is definitely ready for prime time. For the cost

>>>

>>>>>> involved (zero, and a painless install that does absolutely zero

>>>>>> invasive stuff on your HD) you can't go wrong trying it out.

>>>>>>

>>>>>> <http://www.reaper.fm/>

>>>>>>

>>>>>> We use it for live recording all the time, and it's been solid as

a
>>>>> rock. It also contains a number of features that make it excellent
for
>>>>>
>>>>> live recording - for example, you can set it to save audio files on
the
>>>>>
>>>>> fly when they reach a certain size, so you never wind up with "poof,
>>>
>>>>> it's all gone!" even when recording a full evening at a go. Even a
>>>>> disaster like a kicked-out power bar can be fully recoverable, unlike
>>>
>>>>> some apps that shrug and leave you nothing but a "whaddya?" (in fact,
>>>
>>>>> that feature right there is part of what prompted my partner's shift
>>> to
>>>>>
>>>>> REAPER for live work).
>>>>>
>>>>> Great sound quality, a ton of plugins and features, and all this for
>>>

Subject: Re: Would a Paris metronome be useful?
Posted by [JeffH](#) on Fri, 18 Jul 2008 03:39:18 GMT
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ctionality of "trial", "paid" and "paid
>>>>>

Subject: Re: Would a Paris metronome be useful?
Posted by [Tom Bruhl](#) on Fri, 18 Jul 2008 03:42:16 GMT
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;> commercial" though, it's honor system and it's upgradeable so you
can
>>>
>>>>> use it for free for as long as you like to see if you like it, pay
\$50
>>>
>>>>> for the initial license if you do, and then pay the \$175 upgrade fee
>>>
>>>>> when commercial remote recordings come in.
>>>>>
>>>>> Although it's PC native, it also runs on Mac OSX (it's in late beta);
>>>

>>>>> Justin's goal (he's nearly there) is to have the two development
>>>>> branches merged so PC and OSX upgrades stay neck-and-neck. But the
beta
>>>>>
>>>>> has been running like a champ for me here, and this opens the
>>>>> possibility of bringing your HD home and plugging it into your OSX
rig
>>>
>>>>> and being up and running.
>>>>>
>>>>> And there'll be more news soon re: REAPER and PARIS.
>>>>>
>>>>> - Kerry
>>>>>
>>>>> On 2008-09-14 08:41:28 -0700, "Gantt Kushner" <ganttmann@comcast.net>
>>> said:
>>>>>
>>>>>> Any Sonar users around? I'm looking for something to install on
my
>>> wife's
>>>>>> HP laptop for rempoe gigs w/ a firewire interface. I am, as the
>>>>>> saying
>>>>> goes,
>>>>>> wide open to suggestion!
>>>>>>
>>>>>> Gantt
>
>You have laaaarge brain. My brain smallllll and scrawwwwwwny.

- Kerry

On 2008-09-15 07:11:46 -0700, "Mike Audet" <

Subject: Re: Would a Paris metronome be useful?
Posted by [Rod Lincoln](#) on Fri, 18 Jul 2008 05:06:46 GMT
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4;...." target="_blank">mike@....> said:

>
> Thanks, Chuck! I've been reading up on volatile variables. I'm thinking
> that some of the delays I'm having to put in might be better handled by
> declaring
> the user mode pointers as volatile given that we're really multitasking now.
>
> This is a great learning experience for me. :)
>

> Thanks again!

>

> MikeWe can probably begin getting answers to that question now; now that it's stable on Mike's own system, it looks like testing with a range of different systems can begin in earnest.

I think if we're going to do this, it would be good to have a systematic way of documenting it this time. The time-honored system of posting them here in the NG is great and folks will undoubtedly be doing that, but a narrative-based system is painful to sift for concrete info (I know, having recently done it to find a stable configuration for myself).

So to that end, I'm working hard to figure out enough php, MySQL, and other frontend/backend stuff (that hurts my brain to think about) to create a database of PARIS system configurations where we can document stable systems - both past systems and the many potential new systems that this has suddenly enabled. The idea would be that you could go to the Wiki and write your system info in and it would turn up in a database for everyone else to search.

We'll see how far I get. Unfortunately my three qualifications for the stuff I've taken on are 1) a lifelong inability to accept the statement "it's just that way" at face value, 2) a willingness to learn new things and 3) a bit of free time; any technical qualifications I'm having to pick up as we go.

We're off into the future here, folks - and it feels pretty good!

- Kerry

On 2008-09-15 11:21:46 -0700, "Rod Lincoln" <rlincoln@nospam.kc.rr.com> said:

>

> Hey Aaron, or anybody for that matter...any thoughts on what a good multicore mobo to get would be? I just might have to do this.

> Rod

> "Aaron Allen" <know-spam@not_here.dude> wrote:

>> I've said it before, but it's worth another round. You absolutely fail to

>

>> suck bro. Awesome work, I can't wait to get a multi core rig going with

> some

>> EDS's in it to bust a trial off.

>> AA

>>

>>

>> "Mike Audet" <mike@....> wrote in message news:48ce6d22\$1@linux...

>>>

>>> Than

Subject: Re: Would a Paris metronome be useful?
Posted by [Rod Lincoln](#) on Fri, 18 Jul 2008 05:09:00 GMT
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Subject: Re: Would a Paris metronome be useful?
Posted by [excelav](#) on Fri, 18 Jul 2008 07:14:38 GMT
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> but
>&g

Subject: Re: Would a Paris metronome be useful?
Posted by [Sarah](#) on Fri, 18 Jul 2008 12:20:54 GMT
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>
>>>>> intercepting
>>>>> the attempt to alter the variable and passing it down through the
>>>>> regular
>>>>> mechanisms, and that imposes a delay. If the app moves on and tries
> to
>>>>> do
>>>>> something that requires the value being set properly, things go wrong.
>>>>
>>>>> I'm
>>>>> guess that on a single CPU system, Windows is regularly interrupting
> to
>>>>> manage
>>>>> memory, read files from the disk, update the clock, etc, etc., so these
>>>>> delays
>>>>> were "filled in" by windows. I'm just making them explicit.
>>>>>
>>>>> Anyway, it seems to be working well for me. I also tightened up the
>
>>>>> start
>>>>> up hardware detection timings because some of them seem to work fine
> at
>>>>> one
>>>>> fifth what they were now that the direct writes are being managed.
>>>>>
>>>>> There are other small changes, too. Let me know if you have a chance
>>> to
>>>>> try this and how it goes. There may be hardware configurations that
>
>>>>> don't
>>>>> like what I've done. But, my IF2 now work, and it wasn't working well

Subject: Re: Would a Paris metronome be useful?
Posted by [Robert](#) on Fri, 18 Jul 2008 15:02:48 GMT
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etting aside radical reframings like Melodyne or Ableton).
Definitely a "must check out" - after all, the download's free, it does
nothing to mess with your computer and the trial period's effectively
limitless.

- Kerry

> Out of interest, I was kinda following this thread to see

Subject: Re: Would a Paris metronome be useful?
Posted by [Paul Braun](#) on Fri, 18 Jul 2008 23:22:52 GMT
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removable key which reeeally peaked my interest
> in
>>> it as a live tool. That's a pretty small footprint for install and a GREAT
>>> failsafe if the PC blows up in the middle of a gig.
>>>
>>>>
>>>> Anyw

Subject: Re: Would a Paris metronome be useful?
Posted by [damien.gelee](#) on Sun, 20 Jul 2008 12:34:08 GMT
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>> it's all gone!" even when recording a full evening at a go. Even a
>>>> disaster like a kicked-out power bar can be fully recoverable, unlike
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>>>> some apps that shrug and leave you nothing but a "whaddya?" (in fact,
&g
