
Subject: *****PARIS Heartbeat Released*****
Posted by [Mike Audet](#) on Sun, 27 Jul 2008 14:43:41 GMT
[View Forum Message](#) <> [Reply to Message](#)

Hi All,

The metronome is done!!!

Heartbeat allows for 5 tempo and time signature ranges. It produces a very short, cross-faded sign wave that is so short that it sounds like a click.

The frequency of the tone is selectable via the "Tone" knob. The "Bar" and "Beat" knobs show the current bar and beat of the project. The "Offset" knob allows adjusting the metronome so that it is in synch with a MIDI sequencer that might be slightly delayed due to driver latency.

Available at ensoniq.ca

Cheers!

Mike

Subject: Re: *****PARIS Heartbeat Released*****
Posted by [kerryg](#) on Sun, 27 Jul 2008 20:52:12 GMT
[View Forum Message](#) <> [Reply to Message](#)

Mike, you rock!

I got some more info up on the Wiki about your plugs, but I'm snowed under with three overlapping project deliveries right now. So if anyone wants to take a poke at updating more of the plugin listings for Mike's plugins, listed at <http://www.ensoniq.ca> , they're linked at:

<http://www.kerrygalloway.com/WikiPARIS/wikka.php?wakka=MikeA udet>

The editing/adding process is extremely fast and simple -

- 1) log in the Wiki
- 2) go to <http://www.kerrygalloway.com/WikiPARIS/wikka.php?wakka=MikeA udet>
- 3) click on any entry with a dashed underline - it means there's no page there yet.
- 4) The Wiki does the heavy lifting; it will create a page editor, and once you've added your input and hit "store" it automatically creates a page with your entry.

5) use this as a "cut and paste" template for additional plugin pages to save time -

<http://www.kerrygalloway.com/WikiPARIS/wikka.php?wakka=VkCompressor> - so rather than wasting time creating a new entry from scratch, double click on that page, copy, paste to the new plugin page you're working on and change a) title, b) Mike's comments, c) URL for the image, and d) all references to the Variable Knee Compressor" to appropriate ones.

6) You don't have to worry about the "Controls Explained" or "Bugs/Peculiarities" or "Suggested Applications" entries unless you want to - we can add more info once the basic framework is complete. Having said that, if you have things you've discovered about the plugins, by all means!

Great work, Mike!

- Kerry

On 7/27/08 7:43 AM, in article 488c899d\$1 @linux, "Mike Audet" <mike@...> wrote:

>
> Hi All,
>
> The metronome is done!!!
>
> Heartbeat allows for 5 tempo and time signature ranges. It produces a very
> short, cross-faded sign wave that is so short that it sounds like a click.
> The frequency of the tone is selectable via the "Tone" knob. The "Bar"
> and "Beat" knobs show the current bar and beat of the project. The "Offset"
> knob allows adjusting the metronome so that it is in synch with a MIDI
> sequencer
> that might be slightly delayed due to driver latency.
>
> Available at ensoniq.ca
>
> Cheers!
>
> Mike

Subject: Re: *****PARIS Heartbeat Released*****
Posted by [Mike Audet](#) on Sun, 27 Jul 2008 21:40:49 GMT
[View Forum Message](#) <> [Reply to Message](#)

Thanks, Kerry!

I just managed to compile the Paris Studio Control Library, and I filled the ADAT cpp file with debug code. I make no promises, but I hope to fix

it.

All the best!

Mike

Kerry Galloway <kg@kerrygalloway.com> wrote:

>Mike, you rock!

>

>I got some more info up on the Wiki about your plugs, but I'm snowed under
>with three overlapping project deliveries right now. So if anyone wants
to

>take a poke at updating more of the plugin listings for Mike's plugins,

>listed at <http://www.ensoniq.ca> , they're linked at:

>

> <http://www.kerrygalloway.com/WikiPARIS/wikka.php?wakka=MikeA> udet

>

>The editing/adding process is extremely fast and simple -

>

>1) log in the Wiki

>

>2) go to <http://www.kerrygalloway.com/WikiPARIS/wikka.php?wakka=MikeA> udet

>

>3) click on any entry with a dashed underline - it means there's no page

>there yet.

>

>4) The Wiki does the heavy lifting; it will create a page editor, and once

>you've added your input and hit "store" it automatically creates a page
with

>your entry.

>

>5) use this as a "cut and paste" template for additional plugin pages to
>save time -

> <http://www.kerrygalloway.com/WikiPARIS/wikka.php?wakka=VkCom> pressor - so

>rather than wasting time creating a new entry from scratch, double click
on

>that page, copy, paste to the new plugin page you're working on and change

>a) title, b) Mike's comments, c) URL for the image, and d) all references

to

>the "Variable Knee Compressor" to appropriate ones.

>

>6) You don't have to worry about the "Controls Explained" or

>"Bugs/Peculiarities" or "Suggested Applications" entries unless you want

to

>- we can add more info once the basic framework is complete. Having said

>that, if you have things you've discovered about the plugins, by all means!

>

>Great work, Mike!

>
>- Kerry
>
>On 7/27/08 7:43 AM, in article 488c899d\$1@linux, "Mike Audet" <mike@...>
>wrote:
>
>>
>> Hi All,
>>
>> The metronome is done!!!
>>
>> Heartbeat allows for 5 tempo and time signature ranges. It produces a
very
>> short, cross-faded sign wave that is so short that it sounds like a click.
>> The frequency of the tone is selectable via the "Tone" knob. The "Bar"
>> and "Beat" knobs show the current bar and beat of the project. The "Offset"
>> knob allows adjusting the metronome so that it is in synch with a MIDI
>> sequencer
>> that might be slightly delayed due to driver latency.
>>
>> Available at ensoniq.ca
>>
>> Cheers!
>>
>> Mike
>

Subject: Re: *****PARIS Heartbeat Released*****
Posted by [Tom Bruhl](#) on Mon, 28 Jul 2008 00:27:03 GMT
[View Forum Message](#) <> [Reply to Message](#)

ah hummmmmm...

Mike, did you say you're working on the multi ADAT card bug in XP? Or even the ADAT sync issues? I was excited just to hear the metronome was finished so quickly!

Wow,
Tom

"Mike Audet" <mike@...> wrote in message news:488ceb61\$1@linux...
>
> Thanks, Kerry!
>
> I just managed to compile the Paris Studio Control Library, and I filled

> the ADAT cpp file with debug code. I make no promises, but I hope to fix
> it.
>
> All the best!
>
> Mike
>
> Kerry Galloway <kg@kerrygalloway.com> wrote:
>>Mike, you rock!
>>
>>I got some more info up on the Wiki about your plugs, but I'm snowed under
>>with three overlapping project deliveries right now. So if anyone wants
> to
>>take a poke at updating more of the plugin listings for Mike's plugins,
>>listed at <http://www.ensoniq.ca> , they're linked at:
>>
>> <http://www.kerrygalloway.com/WikiPARIS/wikka.php?wakka=MikeA> udet
>>
>>The editing/adding process is extremely fast and simple -
>>
>>1) log in the Wiki
>>
>>2) go to <http://www.kerrygalloway.com/WikiPARIS/wikka.php?wakka=MikeA> udet
>>
>>3) click on any entry with a dashed underline - it means there's no page
>>there yet.
>>
>>4) The Wiki does the heavy lifting; it will create a page editor, and once
>>you've added your input and hit "store" it automatically creates a page
> with
>>your entry.
>>
>>5) use this as a "cut and paste" template for additional plugin pages to
>>save time -
>> <http://www.kerrygalloway.com/WikiPARIS/wikka.php?wakka=VkCom> pressor - so
>>rather than wasting time creating a new entry from scratch, double click
> on
>>that page, copy, paste to the new plugin page you're working on and change
>>a) title, b) Mike's comments, c) URL for the image, and d) all references
> to
>>the Variable Knee Compressor" to appropriate ones.
>>
>>6) You don't have to worry about the "Controls Explained" or
>>"Bugs/Peculiarities" or "Suggested Applications" entries unless you want
> to
>>- we can add more info once the basic framework is complete. Having said
>>that, if you have things you've discovered about the plugins, by all
>>means!

>>
>>Great work, Mike!
>>
>>- Kerry
>>
>>On 7/27/08 7:43 AM, in article 488c899d\$1@linux, "Mike Audet" <mike@...>
>>wrote:
>>
>>>
>>> Hi All,
>>>
>>> The metronome is done!!!
>>>
>>> Heartbeat allows for 5 tempo and time signature ranges. It produces a
> very
>>> short, cross-faded sign wave that is so short that it sounds like a
>>> click.
>>> The frequency of the tone is selectable via the "Tone" knob. The "Bar"
>>> and "Beat" knobs show the current bar and beat of the project. The
>>> "Offset"
>>> knob allows adjusting the metronome so that it is in synch with a MIDI
>>> sequencer
>>> that might be slightly delayed due to driver latency.
>>>
>>> Available at ensoniq.ca
>>>
>>> Cheers!
>>>
>>> Mike
>>
>

Subject: Re: *****PARIS Heartbeat Released*****
Posted by [Mike Audet](#) on Mon, 28 Jul 2008 12:51:00 GMT
[View Forum Message](#) <> [Reply to Message](#)

That's what I'm after. :)

I did a ton of debugging last night, and I'm almost positive that I tracked it down to a timing problem in adat.dll. adat.dll was never updated as part of the update to the PSCL that was released with the driver. Also, it returns error code 7, which means that something timed out while it was waiting for the module to respond - it probably didn't wait long enough. let's hope that's all it is.

Cheers!

Mike

"Tom Bruhl" <arpeggio@comcast.net> wrote:

>ah hummmmmm...

>

>Mike, did you say you're working on the
>multi ADAT card bug in XP? Or even the
>ADAT sync issues? I was excited just to
>hear the metronome was finished so quickly!

>

>Wow,

>Tom

>

>

>"Mike Audet" <mike@...> wrote in message news:488ceb61\$1@linux...

>>

>> Thanks, Kerry!

>>

>> I just managed to compile the Paris Studio Control Library, and I filled
>> the ADAT cpp file with debug code. I make no promises, but I hope to
fix

>> it.

>>

>> All the best!

>>

>> Mike

>>

>> Kerry Galloway <kg@kerrygalloway.com> wrote:

>>>Mike, you rock!

>>>

>>>I got some more info up on the Wiki about your plugs, but I'm snowed under
>>>with three overlapping project deliveries right now. So if anyone wants

>> to

>>>take a poke at updating more of the plugin listings for Mike's plugins,
>>>listed at <http://www.ensoniq.ca> , they're linked at:

>>>

>>> <http://www.kerrygalloway.com/WikiPARIS/wikka.php?wakka=MikeAudet>

>>>

>>>The editing/adding process is extremely fast and simple -

>>>

>>>1) log in the Wiki

>>>

>>>2) go to <http://www.kerrygalloway.com/WikiPARIS/wikka.php?wakka=MikeAudet>

>>>

>>>3) click on any entry with a dashed underline - it means there's no page
>>>there yet.

>>>

>>>4) The Wiki does the heavy lifting; it will create a page editor, and once
>>>you've added your input and hit "store" it automatically creates a page
>> with
>>>your entry.
>>>
>>>5) use this as a "cut and paste" template for additional plugin pages
to
>>>save time -
>>> <http://www.kerrygalloway.com/WikiPARIS/wikka.php?wakka=VkCompressor> -
so
>>>rather than wasting time creating a new entry from scratch, double click
>> on
>>>that page, copy, paste to the new plugin page you're working on and change
>>>a) title, b) Mike's comments, c) URL for the image, and d) all references
>> to
>>>the Variable Knee Compressor" to appropriate ones.
>>>
>>>6) You don't have to worry about the "Controls Explained" or
>>>"Bugs/Peculiarities" or "Suggested Applications" entries unless you want
>> to
>>>- we can add more info once the basic framework is complete. Having said
>>>that, if you have things you've discovered about the plugins, by all
>>>means!
>>>
>>>Great work, Mike!
>>>
>>>- Kerry
>>>
>>>On 7/27/08 7:43 AM, in article 488c899d\$1@linux, "Mike Audet" <mike@...>
>>>wrote:
>>>
>>>>
>>>> Hi All,
>>>>
>>>> The metronome is done!!!
>>>>
>>>> Heartbeat allows for 5 tempo and time signature ranges. It produces
a
>> very
>>>> short, cross-faded sign wave that is so short that it sounds like a

>>>> click.
>>>> The frequency of the tone is selectable via the "Tone" knob. The "Bar"
>>>> and "Beat" knobs show the current bar and beat of the project. The

>>>> "Offset"
>>>> knob allows adjusting the metronome so that it is in synch with a MIDI

>>>> sequencer
>>>> that might be slightly delayed due to driver latency.
>>>>
>>>> Available at ensoniq.ca
>>>>
>>>> Cheers!
>>>>
>>>> Mike
>>>
>>
>
>

Subject: Re: *****PARIS Heartbeat Released*****
Posted by [Aaron Allen](#) on Mon, 28 Jul 2008 13:03:35 GMT
[View Forum Message](#) <> [Reply to Message](#)

Given what I've seen and learned about Paris in the last decade, I'd say you probably hit it right on the head. I was told years ago that it was a timing bug that Ensoniq had timed the hardware searches off the CPU clock, and due to the huge change since then in that as a clock 'standard' (IE, pentium 200 vs pentium III/IV) for said searches it had to have a loop placed in it to allow things to be found w/o timing out the initialization of the hardware. This was the explanation given for why does XP take SO long to boot in comparison to opening Paris in aWinME/98.

AA

"Mike Audet" <mike@...> wrote in message news:488dc0b4\$1@linux...
>
> That's what I'm after. :)
>
> I did a ton of debugging last night, and I'm almost positive that I
> tracked
> it down to a timing problem in adat.dll. adat.dll was never updated as
> part
> of the update to the PSCL that was released with the driver. Also, it
> returns
> error code 7, which means that something timed out while it was waiting
> for
> the module to respond - it probably didn't wait long enough. let's hope
> that's all it is.
>
> Cheers!
>
> Mike

>
>
> "Tom Bruhl" <arpegio@comcast.net> wrote:
>>ah hummmmmm...
>>
>>Mike, did you say you're working on the
>>multi ADAT card bug in XP? Or even the
>>ADAT sync issues? I was excited just to
>>hear the metronome was finished so quickly!
>>
>>Wow,
>>Tom
>>
>>
>>"Mike Audet" <mike@...> wrote in message news:488ceb61\$1@linux...
>>>
>>> Thanks, Kerry!
>>>
>>> I just managed to compile the Paris Studio Control Library, and I filled
>>> the ADAT cpp file with debug code. I make no promises, but I hope to
> fix
>>> it.
>>>
>>> All the best!
>>>
>>> Mike
>>>
>>> Kerry Galloway <kg@kerrygalloway.com> wrote:
>>>>Mike, you rock!
>>>>
>>>>I got some more info up on the Wiki about your plugs, but I'm snowed
>>>>under
>>>>with three overlapping project deliveries right now. So if anyone wants
>>> to
>>>>take a poke at updating more of the plugin listings for Mike's plugins,
>>>>listed at <http://www.ensoniq.ca> , they're linked at:
>>>>
>>>> <http://www.kerrygalloway.com/WikiPARIS/wikka.php?wakka=MikeAudet>
>>>>
>>>>The editing/adding process is extremely fast and simple -
>>>>
>>>>1) log in the Wiki
>>>>
>>>>2) go to
>>>> <http://www.kerrygalloway.com/WikiPARIS/wikka.php?wakka=MikeAudet>
>>>>
>>>>3) click on any entry with a dashed underline - it means there's no page
>>>>there yet.

>>>>
>>>>4) The Wiki does the heavy lifting; it will create a page editor, and
> once
>>>>you've added your input and hit "store" it automatically creates a page
>>> with
>>>>your entry.
>>>>
>>>>5) use this as a "cut and paste" template for additional plugin pages
> to
>>>>save time -
>>>> <http://www.kerrygalloway.com/WikiPARIS/wikka.php?wakka=VkCompressor> -
> so
>>>>rather than wasting time creating a new entry from scratch, double click
>>> on
>>>>that page, copy, paste to the new plugin page you're working on and
>>>>change
>>>>a) title, b) Mike's comments, c) URL for the image, and d) all
>>>>references
>>> to
>>>>the Variable Knee Compressor" to appropriate ones.
>>>>
>>>>6) You don't have to worry about the "Controls Explained" or
>>>>"Bugs/Peculiarities" or "Suggested Applications" entries unless you want
>>> to
>>>>- we can add more info once the basic framework is complete. Having said
>>>>that, if you have things you've discovered about the plugins, by all
>>>>means!
>>>>
>>>>Great work, Mike!
>>>>
>>>>- Kerry
>>>>
>>>>On 7/27/08 7:43 AM, in article 488c899d\$1@linux, "Mike Audet" <mike@...>
>>>>wrote:
>>>>
>>>>>
>>>>> Hi All,
>>>>>
>>>>> The metronome is done!!!
>>>>>
>>>>> Heartbeat allows for 5 tempo and time signature ranges. It produces
> a
>>> very
>>>>> short, cross-faded sign wave that is so short that it sounds like a
>
>>>>> click.
>>>>> The frequency of the tone is selectable via the "Tone" knob. The
>>>>> "Bar"

>>
>>Mike, did you say you're working on the
>>multi ADAT card bug in XP? Or even the
>>ADAT sync issues? I was excited just to
>>hear the metronome was finished so quickly!
>>
>>Wow,
>>Tom
>>
>>
>>"Mike Audet" <mike@...> wrote in message news:488ceb61\$1@linux...
>>>
>>> Thanks, Kerry!
>>>
>>> I just managed to compile the Paris Studio Control Library, and I filled
>>> the ADAT cpp file with debug code. I make no promises, but I hope to
>fix
>>> it.
>>>
>>> All the best!
>>>
>>> Mike
>>>
>>> Kerry Galloway <kg@kerrygalloway.com> wrote:
>>>>Mike, you rock!
>>>>
>>>>I got some more info up on the Wiki about your plugs, but I'm snowed
under
>>>>with three overlapping project deliveries right now. So if anyone wants
>>> to
>>>>take a poke at updating more of the plugin listings for Mike's plugins,
>>>>listed at <http://www.ensoniq.ca> , they're linked at:
>>>>
>>>> [http://www.kerrygalloway.com/WikiPARIS/wikka.php?wakka=MikeA udet](http://www.kerrygalloway.com/WikiPARIS/wikka.php?wakka=MikeA%20udet)
>>>>
>>>>The editing/adding process is extremely fast and simple -
>>>>
>>>>1) log in the Wiki
>>>>
>>>>2) go to [http://www.kerrygalloway.com/WikiPARIS/wikka.php?wakka=MikeA udet](http://www.kerrygalloway.com/WikiPARIS/wikka.php?wakka=MikeA%20udet)
>>>>
>>>>3) click on any entry with a dashed underline - it means there's no page
>>>>there yet.
>>>>
>>>>4) The Wiki does the heavy lifting; it will create a page editor, and
>once
>>>>you've added your input and hit "store" it automatically creates a page
>>> with

>>>>your entry.
>>>>
>>>>5) use this as a "cut and paste" template for additional plugin pages
>to
>>>>save time -
>>>> <http://www.kerrygalloway.com/WikiPARIS/wikka.php?wakka=VkCompressor> -
>so
>>>>rather than wasting time creating a new entry from scratch, double click
>>> on
>>>>that page, copy, paste to the new plugin page you're working on and change
>>>>a) title, b) Mike's comments, c) URL for the image, and d) all references
>>> to
>>>>the Variable Knee Compressor" to appropriate ones.
>>>>
>>>>6) You don't have to worry about the "Controls Explained" or
>>>>"Bugs/Peculiarities" or "Suggested Applications" entries unless you want
>>> to
>>>>- we can add more info once the basic framework is complete. Having said
>>>>that, if you have things you've discovered about the plugins, by all

>>>>means!
>>>>
>>>>Great work, Mike!
>>>>
>>>>- Kerry
>>>>
>>>>On 7/27/08 7:43 AM, in article 488c899d\$1@linux, "Mike Audet" <mike@...>
>>>>wrote:
>>>>
>>>>>
>>>>> Hi All,
>>>>>
>>>>> The metronome is done!!!
>>>>>
>>>>> Heartbeat allows for 5 tempo and time signature ranges. It produces
>a
>>> very
>>>>> short, cross-faded sign wave that is so short that it sounds like a
>
>>>>> click.
>>>>> The frequency of the tone is selectable via the "Tone" knob. The
"Bar"
>>>>> and "Beat" knobs show the current bar and beat of the project. The
>
>>>>> "Offset"
>>>>> knob allows adjusting the metronome so that it is in synch with a MIDI
>>>>> sequencer
>>>>> that might be slightly delayed due to driver latency.

Hi James,

I'm bringing a DVD with the entire virtual MAC to a friend's house sometime next week. With any luck, he'll be able to help me compile the plugs. It's beyond me.

As for the 24 bits, I'd almost bet anything that assuming the chips respond to the same commands in the same way, switching them would allow 24 bits to pass. The driver code I'm working with is at a higher level. If there was a software solution, I think it would be at the firmware level, which I don't have.

What chips are they? I'd give it a try.

Cheers,

Mike

"James McCloskey" <excelsm@hotmail.com> wrote:

>

>Hey Mike! Great work! What's the word on the Mac versions of the plugins?

>

>

>I once asked Edmund P., if you switched out the Alesis version 1 E-POM chip
>on the ADAT card would it pass 24bits. He said, "I don't know why don't
>you try it?" Do you think you can get it to pass 24bit by changing something
>in the software?

>

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

>>

>>Hi All,

>>

>>The metronome is done!!!

>>

>>Heartbeat allows for 5 tempo and time signature ranges. It produces a very

>>short, cross-faded sign wave that is so short that it sounds like a click.

>> The frequency of the tone is selectable via the "Tone" knob. The "Bar"

>>and "Beat" knobs show the current bar and beat of the project. The "Offset"

>>knob allows adjusting the metronome so that it is in synch with a MIDI sequencer

>>that might be slightly delayed due to driver latency.

>>

>>Available at ensoniq.ca

>>

>>Cheers!

>>
>>Mike
>

Subject: Re: *****PARIS Heartbeat Released*****
Posted by [kerryg](#) on Mon, 28 Jul 2008 19:39:28 GMT
[View Forum Message](#) <> [Reply to Message](#)

Are the EPROMS in sockets, or soldered to the boards?

That strikes me as pretty close to a "must have" upgrade, and if your speculation turns out to be correct, it sounds to me like some enterprising PARIS user with electronic skills might be able to make some side money upgrading ADAT cards for we of lesser skills.

- Kerry

On 7/28/08 11:35 AM, in article 488e116e\$1@linux, "Mike Audet" <mike@...> wrote:

>
> Hi James,
>
> I'm bringing a DVD with the entire virtual MAC to a friend's house sometime
> next week. With any luck, he'll be able to help me compile the plugs. It's
> beyond me.
>
> As for the 24 bits, I'd almost bet anything that assuming the chips respond
> to the same commands in the same way, switching them would allow 24 bits
> to pass. The driver code I'm working with is at a higher level. If there
> was a software solution, I think it would be at the firmware level, which
> I don't have.

>
> What chips are they? I'd give it a try.

>
> Cheers,

>
> Mike

>
> "James McCloskey" <excelsm@hotmail.com> wrote:

>>
>> Hey Mike! Great work! What's the word on the Mac versions of the plugins?

>>

>>

>> I once asked Edmund P., if you switched out the Alesis version 1 E-POM chip
>> on the ADAT card would it pass 24bits. He said, "I don't know why don't

>> you try it?" Do you think you can get it to pass 24bit by changing something
>> in the software?
>>
>> "Mike Audet" <mike@...> wrote:
>>>
>>> Hi All,
>>>
>>> The metronome is done!!!
>>>
>>> Heartbeat allows for 5 tempo and time signature ranges. It produces a
> very
>>> short, cross-faded sign wave that is so short that it sounds like a click.
>>> The frequency of the tone is selectable via the "Tone" knob. The "Bar"
>>> and "Beat" knobs show the current bar and beat of the project. The "Offset"
>>> knob allows adjusting the metronome so that it is in synch with a MIDI
> sequencer
>>> that might be slightly delayed due to driver latency.
>>>
>>> Available at ensoniq.ca
>>>
>>> Cheers!
>>>
>>> Mike
>>
>

Subject: Re: *****PARIS Heartbeat Released*****
Posted by [Tom Bruhl](#) on Mon, 28 Jul 2008 19:43:59 GMT
[View Forum Message](#) <> [Reply to Message](#)

Mike,
I know my buddy who has fixed three Mecs with a smoked chip
will do the same for the ADAT cards if the proper chip is found.

I'd be all over that one.
Tom

"Kerry Galloway" <kg@kerrygalloway.com> wrote in message
news:C4B36E80.B416%kg@kerrygalloway.com...
> Are the EPROMS in sockets, or soldered to the boards?
>
> That strikes me as pretty close to a "must have" upgrade, and if your
> speculation turns out to be correct, it sounds to me like some
> enterprising
> PARIS user with electronic skills might be able to make some side money
> upgrading ADAT cards for we of lesser skills.
>

> - Kerry
>
> On 7/28/08 11:35 AM, in article 488e116e\$1@linux, "Mike Audet" <mike@...>
> wrote:
>
>>
>> Hi James,
>>
>> I'm bringing a DVD with the entire virtual MAC to a friend's house
>> sometime
>> next week. With any luck, he'll be able to help me compile the plugs.
>> It's
>> beyond me.
>>
>> As for the 24 bits, I'd almost bet anything that assuming the chips
>> respond
>> to the same commands in the same way, switching them would allow 24 bits
>> to pass. The driver code I'm working with is at a higher level. If
>> there
>> was a software solution, I think it would be at the firmware level, which
>> I don't have.
>>
>> What chips are they? I'd give it a try.
>>
>> Cheers,
>>
>> Mike
>>
>>
>> "James McCloskey" <excelsm@hotmail.com> wrote:
>>>
>>> Hey Mike! Great work! What's the word on the Mac versions of the
>>> plugins?
>>>
>>>
>>> I once asked Edmund P., if you switched out the Alesis version 1 E-POM
>>> chip
>>> on the ADAT card would it pass 24bits. He said, "I don't know why don't
>>> you try it?" Do you think you can get it to pass 24bit by changing
>>> something
>>> in the software?
>>>
>>> "Mike Audet" <mike@...> wrote:
>>>>
>>>> Hi All,
>>>>
>>>> The metronome is done!!!
>>>>

>>>> Heartbeat allows for 5 tempo and time signature ranges. It produces a
>> very
>>>> short, cross-faded sign wave that is so short that it sounds like a
>>>> click.
>>>> The frequency of the tone is selectable via the "Tone" knob. The "Bar"
>>>> and "Beat" knobs show the current bar and beat of the project. The
>>>> "Offset"
>>>> knob allows adjusting the metronome so that it is in synch with a MIDI
>> sequencer
>>>> that might be slightly delayed due to driver latency.
>>>>
>>>> Available at ensoniq.ca
>>>>
>>>> Cheers!
>>>>
>>>> Mike
>>>
>>
>

Subject: Re: *****PARIS Heartbeat Released*****
Posted by [excelav](#) on Mon, 28 Jul 2008 20:08:41 GMT
[View Forum Message](#) <> [Reply to Message](#)

I haven't looked at the Adat card in sometime, but I think it's a socket.
My thinking was, If you could pop in the 24bit version of the Alesis chip
and you could get the PARIS software to recognize the 24bits, that would
be vary cool. Add in latency compensation and a second comp for effect processing
and...

I originally asked that question back in 98 or 99.

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

>
>Hi James,
>
>I'm bringing a DVD with the entire virtual MAC to a friend's house sometime
>next week. With any luck, he'll be able to help me compile the plugs.
It's
>beyond me.
>
>As for the 24 bits, I'd almost bet anything that assuming the chips respond
>to the same commands in the same way, switching them would allow 24 bits
>to pass. The driver code I'm working with is at a higher level. If there
>was a software solution, I think it would be at the firmware level, which
>I don't have.
>

>What chips are they? I'd give it a try.
>
>Cheers,
>
>Mike
>
>
>"James McCloskey" <excelsm@hotmail.com> wrote:
>>
>>Hey Mike! Great work! What's the word on the Mac versions of the plugins?
>>
>>
>>I once asked Edmund P., if you switched out the Alesis version 1 E-POM
chip
>>on the ADAT card would it pass 24bits. He said, "I don't know why don't
>>you try it?" Do you think you can get it to pass 24bit by changing something
>>in the software?
>>
>>"Mike Audet" <mike@...> wrote:
>>>
>>>Hi All,
>>>
>>>The metronome is done!!!
>>>
>>>Heartbeat allows for 5 tempo and time signature ranges. It produces a
>very
>>>short, cross-faded sign wave that is so short that it sounds like a click.
>>> The frequency of the tone is selectable via the "Tone" knob. The "Bar"
>>>and "Beat" knobs show the current bar and beat of the project. The "Offset"
>>>knob allows adjusting the metronome so that it is in synch with a MIDI
>sequencer
>>>that might be slightly delayed due to driver latency.
>>>
>>>Available at ensoniq.ca
>>>
>>>Cheers!
>>>
>>>Mike
>>
>

Subject: Re: *****PARIS Heartbeat Released*****
Posted by [Tom Bruhl](#) on Mon, 28 Jul 2008 20:09:59 GMT
[View Forum Message](#) <> [Reply to Message](#)

James said:
"I originally asked that question back in 98 or 99."

Ya except now there's somebody who gives a s _ _ _.

Thanks Mike,
Tom

"James McCloskey" <excelsm@hotmail.com> wrote in message
news:488e2749\$1@linux...

>
> I haven't looked at the Adat card in sometime, but I think it's a socket.
> My thinking was, If you could pop in the 24bit version of the Alesis chip
> and you could get the PARIS software to recognize the 24bits, that would
> be vary cool. Add in latency compensation and a second comp for effect
> processing
> and...
>
> I originally asked that question back in 98 or 99.
>
> "Mike Audet" <mike@...> wrote:
>>
>>Hi James,
>>
>>I'm bringing a DVD with the entire virtual MAC to a friend's house
>>sometime
>>next week. With any luck, he'll be able to help me compile the plugs.
> It's
>>beyond me.
>>
>>As for the 24 bits, I'd almost bet anything that assuming the chips
>>respond
>>to the same commands in the same way, switching them would allow 24 bits
>>to pass. The driver code I'm working with is at a higher level. If there
>>was a software solution, I think it would be at the firmware level, which
>>I don't have.
>>
>>What chips are they? I'd give it a try.
>>
>>Cheers,
>>
>>Mike
>>
>>
>>"James McCloskey" <excelsm@hotmail.com> wrote:
>>>
>>>Hey Mike! Great work! What's the word on the Mac versions of the

>>>plugins?
>>>
>>>
>>>I once asked Edmund P., if you switched out the Alesis version 1 E-POM
> chip
>>>on the ADAT card would it pass 24bits. He said, "I don't know why don't
>>>you try it?" Do you think you can get it to pass 24bit by changing
>>>something
>>>in the software?
>>>
>>>"Mike Audet" <mike@...> wrote:
>>>>
>>>>Hi All,
>>>>
>>>>The metronome is done!!!
>>>>
>>>>Heartbeat allows for 5 tempo and time signature ranges. It produces a
>>very
>>>>short, cross-faded sign wave that is so short that it sounds like a
>>>>click.
>>>> The frequency of the tone is selectable via the "Tone" knob. The "Bar"
>>>>and "Beat" knobs show the current bar and beat of the project. The
>>>>"Offset"
>>>>knob allows adjusting the metronome so that it is in synch with a MIDI
>>sequencer
>>>>that might be slightly delayed due to driver latency.
>>>>
>>>>Available at ensoniq.ca
>>>>
>>>>Cheers!
>>>>
>>>>Mike
>>>
>>
>

Subject: Re: *****PARIS Heartbeat Released*****
Posted by [kerryg](#) on Tue, 29 Jul 2008 00:42:30 GMT
[View Forum Message](#) <> [Reply to Message](#)

I put a little research time in today looking for choices for an upgrade of that chip and drew a blank. Got any leads? This is an extremely interesting development, I'd gamble a few bucks on being a guinea-pig.

- Kerry

On 7/28/08 1:08 PM, in article 488e2749\$1 @linux, "James McCloskey"

<excelsm@hotmail.com> wrote:

>

> I haven't looked at the Adata card in sometime, but I think it's a socket.
> My thinking was, If you could pop in the 24bit version of the Alesis chip
> and you could get the PARIS software to recognize the 24bits, that would
> be vary cool. Add in latency compensation and a second comp for effect
> processing
> and...

>

> I originally asked that question back in 98 or 99.

>

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

>>

>> Hi James,

>>

>> I'm bringing a DVD with the entire virtual MAC to a friend's house sometime
>> next week. With any luck, he'll be able to help me compile the plugs.

> It's

>> beyond me.

>>

>> As for the 24 bits, I'd almost bet anything that assuming the chips respond
>> to the same commands in the same way, switching them would allow 24 bits
>> to pass. The driver code I'm working with is at a higher level. If there
>> was a software solution, I think it would be at the firmware level, which
>> I don't have.

>>

>> What chips are they? I'd give it a try.

>>

>> Cheers,

>>

>> Mike

>>

>>

>> "James McCloskey" <excelsm@hotmail.com> wrote:

>>>

>>> Hey Mike! Great work! What's the word on the Mac versions of the plugins?

>>>

>>>

>>> I once asked Edmund P., if you switched out the Alesis version 1 E-POM
> chip

>>> on the ADAT card would it pass 24bits. He said, "I don't know why don't
>>> you try it?" Do you think you can get it to pass 24bit by changing

>>> something

>>> in the software?

>>>

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

>>>>

>>>> Hi All,
>>>>
>>>> The metronome is done!!!
>>>>
>>>> Heartbeat allows for 5 tempo and time signature ranges. It produces a
>> very
>>>> short, cross-faded sign wave that is so short that it sounds like a click.
>>>> The frequency of the tone is selectable via the "Tone" knob. The "Bar"
>>>> and "Beat" knobs show the current bar and beat of the project. The
>>>> "Offset"
>>>> knob allows adjusting the metronome so that it is in synch with a MIDI
>> sequencer
>>>> that might be slightly delayed due to driver latency.
>>>>
>>>> Available at ensoniq.ca
>>>>
>>>> Cheers!
>>>>
>>>> Mike
>>>
>>
>

Subject: Re: *****PARIS Heartbeat Released*****
Posted by [Mike Audet](#) on Tue, 29 Jul 2008 00:47:38 GMT
[View Forum Message](#) <> [Reply to Message](#)

Thanks, Tom. I do what I can. :)

"Tom Bruhl" <arpeggio@comcast.net> wrote:
>James said:
>"I originally asked that question back in 98 or 99."
>
>Ya except now there's somebody who gives a s _ _ _ .
>
>Thanks Mike,
>Tom
>
>
>
>
>"James McCloskey" <excelsm@hotmail.com> wrote in message
>news:488e2749\$1@linux...

>>
>> I haven't looked at the Adat card in sometime, but I think it's a socket.
>> My thinking was, If you could pop in the 24bit version of the Alesis chip
>> and you could get the PARIS software to recognize the 24bits, that would
>> be vary cool. Add in latency compensation and a second comp for effect

>> processing
>> and...
>>
>> I originally asked that question back in 98 or 99.
>>
>> "Mike Audet" <mike@...> wrote:
>>>
>>>Hi James,
>>>
>>>I'm bringing a DVD with the entire virtual MAC to a friend's house
>>>sometime
>>>next week. With any luck, he'll be able to help me compile the plugs.
>> It's
>>>beyond me.
>>>
>>>As for the 24 bits, I'd almost bet anything that assuming the chips
>>>respond
>>>to the same commands in the same way, switching them would allow 24 bits
>>>to pass. The driver code I'm working with is at a higher level. If there
>>>was a software solution, I think it would be at the firmware level, which
>>>I don't have.
>>>
>>>What chips are they? I'd give it a try.
>>>
>>>Cheers,
>>>
>>>Mike
>>>
>>>
>>>"James McCloskey" <excelsm@hotmail.com> wrote:
>>>>
>>>>Hey Mike! Great work! What's the word on the Mac versions of the
>>>>plugins?
>>>>
>>>>
>>>>I once asked Edmund P., if you switched out the Alesis version 1 E-POM
>> chip
>>>>on the ADAT card would it pass 24bits. He said, "I don't know why don't
>>>>you try it?" Do you think you can get it to pass 24bit by changing
>>>>something
>>>>in the software?
>>>>

>>>>"Mike Audet" <mike@...> wrote:
>>>>
>>>>Hi All,
>>>>
>>>>The metronome is done!!!
>>>>
>>>>Heartbeat allows for 5 tempo and time signature ranges. It produces
a
>>>very
>>>>short, cross-faded sign wave that is so short that it sounds like a

>>>>click.
>>>> The frequency of the tone is selectable via the "Tone" knob. The "Bar"
>>>>and "Beat" knobs show the current bar and beat of the project. The

>>>>"Offset"
>>>>knob allows adjusting the metronome so that it is in synch with a MIDI
>>>sequencer
>>>>that might be slightly delayed due to driver latency.
>>>>
>>>>Available at ensoniq.ca
>>>>
>>>>Cheers!
>>>>
>>>>Mike
>>>>
>>>
>>
>
>

Subject: Re: *****PARIS Heartbeat Released*****
Posted by [Aaron Allen](#) on Tue, 29 Jul 2008 01:22:17 GMT
[View Forum Message](#) <> [Reply to Message](#)

I could be wrong, but I thought in the past it was discussed that the software has nothing to do with the bitrate, other than switching 16 or 24 bit capture? IIRC, that was discovered when the project to make AES modules out of IF2's was being pursued.

AA

"Tom Bruhl" <arpeggio@comcast.net> wrote in message news:488e2322@linux...
> Mike,
> I know my buddy who has fixed three Mecs with a smoked chip
> will do the same for the ADAT cards if the proper chip is found.

>
> I'd be all over that one.
> Tom
>
> "Kerry Galloway" <kg@kerrygalloway.com> wrote in message
> news:C4B36E80.B416%kg@kerrygalloway.com...
>> Are the EPROMS in sockets, or soldered to the boards?
>>
>> That strikes me as pretty close to a "must have" upgrade, and if your
>> speculation turns out to be correct, it sounds to me like some
>> enterprising
>> PARIS user with electronic skills might be able to make some side money
>> upgrading ADAT cards for we of lesser skills.
>>
>> - Kerry
>>
>> On 7/28/08 11:35 AM, in article 488e116e\$1@linux, "Mike Audet" <mike@...>
>> wrote:
>>
>>>
>>> Hi James,
>>>
>>> I'm bringing a DVD with the entire virtual MAC to a friend's house
>>> sometime
>>> next week. With any luck, he'll be able to help me compile the plugs.
>>> It's
>>> beyond me.
>>>
>>> As for the 24 bits, I'd almost bet anything that assuming the chips
>>> respond
>>> to the same commands in the same way, switching them would allow 24 bits
>>> to pass. The driver code I'm working with is at a higher level. If
>>> there
>>> was a software solution, I think it would be at the firmware level,
>>> which
>>> I don't have.
>>>
>>> What chips are they? I'd give it a try.
>>>
>>> Cheers,
>>>
>>> Mike
>>>
>>>
>>> "James McCloskey" <excelsm@hotmail.com> wrote:
>>>>
>>>> Hey Mike! Great work! What's the word on the Mac versions of the
>>>> plugins?

>>>>
>>>>
>>>> I once asked Edmund P., if you switched out the Alesis version 1 E-POM
>>>> chip
>>>> on the ADAT card would it pass 24bits. He said, "I don't know why
>>>> don't
>>>> you try it?" Do you think you can get it to pass 24bit by changing
>>>> something
>>>> in the software?
>>>>
>>>> "Mike Audet" <mike@...> wrote:
>>>>>
>>>>> Hi All,
>>>>>
>>>>> The metronome is done!!!
>>>>>
>>>>> Heartbeat allows for 5 tempo and time signature ranges. It produces a
>>> very
>>>>> short, cross-faded sign wave that is so short that it sounds like a
>>>>> click.
>>>>> The frequency of the tone is selectable via the "Tone" knob. The
>>>>> "Bar"
>>>>> and "Beat" knobs show the current bar and beat of the project. The
>>>>> "Offset"
>>>>> knob allows adjusting the metronome so that it is in synch with a MIDI
>>> sequencer
>>>>> that might be slightly delayed due to driver latency.
>>>>>
>>>>> Available at ensoniq.ca
>>>>>
>>>>> Cheers!
>>>>>
>>>>> Mike
>>>>
>>>
>>
>
>

Subject: Re: *****PARIS Heartbeat Released*****
Posted by [kerryg](#) on Tue, 29 Jul 2008 02:52:31 GMT
[View Forum Message](#) <> [Reply to Message](#)

That makes sense. If the ADAT card and the .dll passed 24 bits OK, what could the PARIS app have to complain about? It'd make sense for it to just see it as another 24-bit input, like one coming off an 8i card.

- Kerry

On 7/28/08 6:22 PM, in article 488e72a2\$1 @linux, "Aaron Allen" <know-spam@not_here.dude> wrote:

> I could be wrong, but I thought in the past it was discussed that the
> software has nothing to do with the bitrate, other than switching 16 or 24
> bit capture? IIRC, that was discovered when the project to make AES modules
> out of IF2's was being pursued.

>

> AA

>

>

> "Tom Bruhl" <arpeggio@comcast.net> wrote in message news:488e2322@linux...

>> Mike,

>> I know my buddy who has fixed three Mecs with a smoked chip

>> will do the same for the ADAT cards if the proper chip is found.

>>

>> I'd be all over that one.

>> Tom

>>

>> "Kerry Galloway" <kg@kerrygalloway.com> wrote in message

>> news:C4B36E80.B416%kg@kerrygalloway.com...

>>> Are the EPROMS in sockets, or soldered to the boards?

>>>

>>> That strikes me as pretty close to a "must have" upgrade, and if your

>>> speculation turns out to be correct, it sounds to me like some

>>> enterprising

>>> PARIS user with electronic skills might be able to make some side money

>>> upgrading ADAT cards for we of lesser skills.

>>>

>>> - Kerry

>>>

>>> On 7/28/08 11:35 AM, in article 488e116e\$1 @linux, "Mike Audet" <mike@...>

>>> wrote:

>>>

>>>>

>>>> Hi James,

>>>>

>>>> I'm bringing a DVD with the entire virtual MAC to a friend's house

>>>> sometime

>>>> next week. With any luck, he'll be able to help me compile the plugs.

>>>> It's

>>>> beyond me.

>>>>

>>>> As for the 24 bits, I'd almost bet anything that assuming the chips

>>>> respond

>>>> to the same commands in the same way, switching them would allow 24 bits
>>>> to pass. The driver code I'm working with is at a higher level. If
>>>> there
>>>> was a software solution, I think it would be at the firmware level,
>>>> which
>>>> I don't have.
>>>>
>>>> What chips are they? I'd give it a try.
>>>>
>>>> Cheers,
>>>>
>>>> Mike
>>>>
>>>>
>>>> "James McCloskey" <excelsm@hotmail.com> wrote:
>>>>>
>>>>> Hey Mike! Great work! What's the word on the Mac versions of the
>>>>> plugins?
>>>>>
>>>>>
>>>>> I once asked Edmund P., if you switched out the Alesis version 1 E-POM
>>>>> chip
>>>>> on the ADAT card would it pass 24bits. He said, "I don't know why
>>>>> don't
>>>>> you try it?" Do you think you can get it to pass 24bit by changing
>>>>> something
>>>>> in the software?
>>>>>
>>>>> "Mike Audet" <mike@...> wrote:
>>>>>>
>>>>>> Hi All,
>>>>>>
>>>>>> The metronome is done!!!
>>>>>>
>>>>>> Heartbeat allows for 5 tempo and time signature ranges. It produces a
>>>>>> very
>>>>>> short, cross-faded sign wave that is so short that it sounds like a
>>>>>> click.
>>>>>> The frequency of the tone is selectable via the "Tone" knob. The
>>>>>> "Bar"
>>>>>> and "Beat" knobs show the current bar and beat of the project. The
>>>>>> "Offset"
>>>>>> knob allows adjusting the metronome so that it is in synch with a MIDI
>>>>>> sequencer
>>>>>> that might be slightly delayed due to driver latency.
>>>>>>
>>>>>> Available at ensoniq.ca
>>>>>>

>>>>> Cheers!
>>>>>
>>>>> Mike
>>>>>
>>>>
>>>>
>>>
>>
>>
>
>

Subject: Re: *****PARIS Heartbeat Released*****
Posted by [excelav](#) on Tue, 29 Jul 2008 06:03:21 GMT
[View Forum Message](#) <> [Reply to Message](#)

Kerry, this was a custom Alesis Adat chip. The first step would be to contact Alesis and inquire about buying a later version of the chip that was designed for 24bit. They use to have an OEM partner department for all the ADAT partners. I'm sure they still do licensing and sell OEM parts. There may be somebody still around that worked with Ensoniq when they supplied them with the chip. It's going to be a long shot, but it's worth a try. Maybe they can look the chip up and tell you what the last version on that chip was and give you a spec sheet or technical white paper on it. The newer replacement chip might be used in products like AI1-4, the Masterlink, or the Adat HD24. FYI, I think you will get farther if you approach them as a company, than as an individual.

Kerry Galloway <kg@kerrygalloway.com> wrote:
>I put a little research time in today looking for choices for an upgrade of
>that chip and drew a blank. Got any leads? This is an extremely interesting
>development, I'd gamble a few bucks on being a guinea-pig.
>
>- Kerry
>
>On 7/28/08 1:08 PM, in article 488e2749\$1@linux, "James McCloskey"
><excelsm@hotmail.com> wrote:
>
>>
>> I haven't looked at the Adat card in sometime, but I think it's a socket.
>> My thinking was, If you could pop in the 24bit version of the Alesis
chip
>> and you could get the PARIS software to recognize the 24bits, that would
>> be vary cool. Add in latency compensation and a second comp for effect
>> processing
>> and...
>>

>> I originally asked that question back in 98 or 99.
>>
>> "Mike Audet" <mike@...> wrote:
>>>
>>> Hi James,
>>>
>>> I'm bringing a DVD with the entire virtual MAC to a friend's house sometime
>>> next week. With any luck, he'll be able to help me compile the plugs.
>> It's
>>> beyond me.
>>>
>>> As for the 24 bits, I'd almost bet anything that assuming the chips respond
>>> to the same commands in the same way, switching them would allow 24 bits
>>> to pass. The driver code I'm working with is at a higher level. If
there
>>> was a software solution, I think it would be at the firmware level, which
>>> I don't have.
>>>
>>> What chips are they? I'd give it a try.
>>>
>>> Cheers,
>>>
>>> Mike
>>>
>>>
>>> "James McCloskey" <excelsm@hotmail.com> wrote:
>>>>
>>>> Hey Mike! Great work! What's the word on the Mac versions of the plugins?
>>>>
>>>>
>>>> I once asked Edmund P., if you switched out the Alesis version 1 E-POM
>> chip
>>>> on the ADAT card would it pass 24bits. He said, "I don't know why don't
>>>> you try it?" Do you think you can get it to pass 24bit by changing
>>>> something
>>>> in the software?
>>>>
>>>> "Mike Audet" <mike@...> wrote:
>>>>>
>>>>> Hi All,
>>>>>
>>>>> The metronome is done!!!
>>>>>
>>>>> Heartbeat allows for 5 tempo and time signature ranges. It produces
a
>>> very
>>>>> short, cross-faded sign wave that is so short that it sounds like a
click.

>> I'm bringing a DVD with the entire virtual MAC to a friend's house sometime
>> next week. With any luck, he'll be able to help me compile the plugs.
> It's
>> beyond me.
>>
>> As for the 24 bits, I'd almost bet anything that assuming the chips respond
>> to the same commands in the same way, switching them would allow 24 bits
>> to pass. The driver code I'm working with is at a higher level. If there
>> was a software solution, I think it would be at the firmware level, which
>> I don't have.
>>
>> What chips are they? I'd give it a try.
>>
>> Cheers,
>>
>> Mike
>>
>>
>> "James McCloskey" <excelsm@hotmail.com> wrote:
>>>
>>> Hey Mike! Great work! What's the word on the Mac versions of the plugins?
>>>
>>>
>>> I once asked Edmund P., if you switched out the Alesis version 1 E-POM
> chip
>>> on the ADAT card would it pass 24bits. He said, "I don't know why don't
>>> you try it?" Do you think you can get it to pass 24bit by changing
>>> something
>>> in the software?
>>>
>>> "Mike Audet" <mike@...> wrote:
>>>>
>>>> Hi All,
>>>>
>>>> The metronome is done!!!
>>>>
>>>> Heartbeat allows for 5 tempo and time signature ranges. It produces a
>> very
>>>> short, cross-faded sign wave that is so short that it sounds like a click.
>>>> The frequency of the tone is selectable via the "Tone" knob. The "Bar"
>>>> and "Beat" knobs show the current bar and beat of the project. The
>>>> "Offset"
>>>> knob allows adjusting the metronome so that it is in synch with a MIDI
>> sequencer
>>>> that might be slightly delayed due to driver latency.
>>>>
>>>> Available at ensoniq.ca
>>>>

>>>> Cheers!

>>>>

>>>> Mike

>>>

>>

>
