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Subject: Working on the Scherzo

Posted by [Mike Audet](#) on Wed, 01 Oct 2008 12:15:14 GMT

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Hi All,

I just thought I'd post an update. I've compiled the Scherzo and I'm running the verison I complied. I've been working through the design changes I need to make. This kernel mode stuff is tricky. But, I thnink I've got a dresign that will work. It might just take a couple of weeks to get a build out that we can test.

Things are moving forward.

All the best,

Mike

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Subject: Re: Working on the Scherzo

Posted by [xpam\\_mark](#) on Wed, 01 Oct 2008 13:13:16 GMT

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Beauty Mikie !!!

W. Mark Wilson

"Mike Audet" <mike@...> wrote in message news:48e369d2\$1@linux...

>

> Hi All,

>

> I just thought I'd post an update. I've compiled the Scherzo and I'm

> running

> the verison I complied. I've been working through the design changes I

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> to make. This kernel mode stuff is tricky. But, I thnink I've got a

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> that we can test.

>

> Things are moving forward.

>

> All the best,

>

> Mike

---

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Subject: Re: Working on the Scherzo

Posted by [Riich S](#) on Wed, 01 Oct 2008 13:54:02 GMT

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Thanks for all your awwwsome work!

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

>  
>Hi All,  
>  
>I just thought I'd post an update. I've compiled the Scherzo and I'm running  
>the verison I complied. I've been working through the design changes I  
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>that we can test.  
>  
>Things are moving forward.  
>  
>All the best,  
>  
>Mike

---

Subject: Re: Working on the Scherzo

Posted by [Aaron Allen](#) on Wed, 01 Oct 2008 14:28:06 GMT

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Rock 'n' Roll bro.

AA

"Mike Audet" <mike@...> wrote in message news:48e369d2\$1@linux...

>  
> Hi All,  
>  
> I just thought I'd post an update. I've compiled the Scherzo and I'm  
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>  
> Things are moving forward.  
>  
> All the best,  
>  
> Mike

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Subject: Re: Working on the Scherzo  
Posted by [Robert](#) on Wed, 01 Oct 2008 14:37:16 GMT  
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Excelento Mike, keep it up dude.

Rob\_A

"Mike Audet" <mike@...> wrote in message news:48e369d2\$1@linux...  
>  
> Hi All,  
>  
> I just thought I'd post an update. I've compiled the Scherzo and I'm  
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>  
> Things are moving forward.  
>  
> All the best,  
>  
> Mike

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Subject: Re: Working on the Scherzo  
Posted by [kerryg](#) on Wed, 01 Oct 2008 16:10:33 GMT  
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Mike, it's just amazing to see this. This is every bit as much a landmark moment for the "post-discontinuation" life of the platform as porting Scherzo to XP was in the first place.

It raises a bunch of questions - did you decide to take it "object oriented", or are you concentrating on cleanup? How deep are the design changes?

And aside from the aesthetics - meaning the "objective good" of cleaning up dodgy or outdated code - what are your end-goal aims? What do you hope will be addressed or enabled as far as end users are concerned?

- Kerry

On 2008-10-01 05:15:14 -0700, "Mike Audet" <mike@...> said:

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> Hi All,  
>  
> I just thought I'd post an update. I've compiled the Scherzo and I'm running  
> the verison I complied. I've been working through the design changes I need  
> to make. This kernel mode stuff is tricky. But, I thnk I've got a dresign  
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> that we can test.  
>  
> Things are moving forward.  
>  
> All the best,  
>  
> Mike

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Subject: Re: Working on the Scherzo  
Posted by [AlexPlasko](#) on Wed, 01 Oct 2008 17:02:49 GMT  
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cool stuff mike . if you keep this up I might just get another Paris rig.  
"Mike Audet" <mike@...> wrote in message news:48e369d2\$1@linux...

>  
> Hi All,  
>  
> I just thought I'd post an update. I've compiled the Scherzo and I'm  
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>  
> All the best,  
>  
> Mike

---

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Subject: Re: Working on the Scherzo  
Posted by [Rod Lincoln](#) on Wed, 01 Oct 2008 18:41:30 GMT  
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cool Mike...you Rock!

Rod

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

>

>Hi All,

>

>I just thought I'd post an update. I've compiled the Scherzo and I'm running  
>the verison I complied. I've been working through the design changes I  
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>to make. This kernel mode stuff is tricky. But, I thnink I've got a dresign  
>that will work. It might just take a couple of weeks to get a build out  
>that we can test.

>

>Things are moving forward.

>

>All the best,

>

>Mike

---

Subject: Re: Working on the Scherzo

Posted by [Tom Bruhl](#) on Thu, 02 Oct 2008 00:43:44 GMT

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Mike,

Super duper way cool is right.

Tom

"LaMOnt" <jjdpro@gmail.com> wrote in message news:48e41c2c\$1@linux...

>

> Very cool..

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

>>

>>Hi All,

>>

>>I just thought I'd post an update. I've compiled the Scherzo and I'm  
>>running

>>the verison I complied. I've been working through the design changes I  
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>>that will work. It might just take a couple of weeks to get a build out  
>>that we can test.

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>>Things are moving forward.

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>>All the best,  
>>  
>>Mike  
>

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Subject: Re: Working on the Scherzo  
Posted by [LaMontt](#) on Thu, 02 Oct 2008 00:56:12 GMT  
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Very cool..  
"Mike Audet" <mike@...> wrote:  
>  
>Hi All,  
>  
>I just thought I'd post an update. I've compiled the Scherzo and I'm running  
>the verison I complied. I've been working through the design changes I  
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>Things are moving forward.  
>  
>All the best,  
>  
>Mike

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Subject: Re: Working on the Scherzo  
Posted by [Mike Audet](#) on Thu, 02 Oct 2008 11:22:32 GMT  
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Hi Kerry,

The Scherzo is a perfect and efficient design as long as you've only got one cpu. I'm almost certain I've found the multi-cpu bug in the scherzo. It's complicated, but it relates to the app enabling an interrupt on one cpu when it needs to be masked by another. When there is only one cpu, the app can't do this because the Scherzo is running and blocking out the app. With more than one cpu, the scherzo expects it to be the only thing running, and the other cpu messes up its operation.

It's really a minor redesign, but it's a big deal for me because I've never worked in kernel mode before.

I'm going to do it in two stages.

1) move the DPC code into the ISR, which means I will have to use the interrupt spin lock to guard the various queues.

2) replace the queues with newer designs that will allow for not using the interrupt spin lock all over the place.

3) (maybe) break up the work of the old DPC and put some of it in a new DPC to improve system efficiency (this might not be necessary).

It's tricky stuff, but we'll get there.

All the best,

Mike

KerryGalloway <kg@kerrygalloway.com> wrote:

>Mike, it's just amazing to see this. This is every bit as much a  
>landmark moment for the "post-discontinuation" life of the platform as  
>porting Scherzo to XP was in the first place.

>  
>It raises a bunch of questions - did you decide to take it "object  
>oriented", or are you concentrating on cleanup? How deep are the design

>changes?

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>And aside from the aesthetics - meaning the "objective good" of  
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>concerned?

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>- Kerry

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>On 2008-10-01 05:15:14 -0700, "Mike Audet" <mike@...> said:

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>> All the best,  
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Subject: Re: Working on the Scherzo  
Posted by [Josh Herzog](#) on Thu, 02 Oct 2008 13:44:16 GMT  
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What exactly is new about it? Will it run better on xp than the current one.  
The current one runs fine except when I go to close PARIS it restarts my computer.

Thanks, it's been a while since I posted here.

Josh Herzog

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

>  
>Hi All,  
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>the verison I compiled. I've been working through the design changes I  
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>All the best,  
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>Mike

---

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Subject: Re: Working on the Scherzo  
Posted by [Mike Audet](#) on Thu, 02 Oct 2008 14:30:48 GMT  
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Hi Josh,



It sounds like you need the "minimum setup" installer that Chris Thoman released several years ago. That fixes the crash on exit.

I'm working on it to make it work reliably on multi-cpu computers (like mine!)

All the best,

Mike

"Josh Herzog" <pruner1@hotmail.com> wrote:

>  
>What exactly is new about it? Will it run better on xp than the current one.  
> The current one runs fine except when I go to close PARIS it restarts my >computer.

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

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>>Mike

>

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Subject: Re: Working on the Scherzo  
Posted by [Josh Herzog](#) on Thu, 02 Oct 2008 21:11:31 GMT  
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Hi Mike,

Any idea where I can get the "minimum setup" installer you're talking about?

Thanks,  
Josh

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

>  
>Hi Josh,  
>  
>It sounds like you need the "minimum setup" installer that Chris Thoman  
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>>>Mike  
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---

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Subject: Re: Working on the Scherzo  
Posted by [Mike Audet](#) on Fri, 03 Oct 2008 11:03:07 GMT  
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[www.ensoniq.ca/MinimumSetup.exe](http://www.ensoniq.ca/MinimumSetup.exe)

cheers!

"Josh Herzog" <[pruner1@hotmail.com](mailto:pruner1@hotmail.com)> wrote:

>  
>Hi Mike,  
>  
>Any idea where I can get the "minimum setup" installer you're talking about?  
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>Thanks,  
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>  
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>>Mike

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