Subject: Working on the Scherzo
Posted by Mike Audet on Wed, 01 Oct 2008 12:15:14 GMT

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

Subject: Re: Working on the Scherzo
Posted by xpam_mark on Wed, 01 Oct 2008 13:13:16 GMT

Beauty Mikie !!!
W. Mark Wilson

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

Subject: Re: Working on the Scherzo

Posted by Riich S on Wed, 01 Oct 2008 13:54:02 GMT

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 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

Subject: Re: Working on the Scherzo
Posted by Aaron Allen on Wed, 01 Oct 2008 14:28:06 GMT

Rock 'n' Roll bro.
AA

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

Subject: Re: Working on the Scherzo
Posted by Robert on Wed, 01 Oct 2008 14:37:16 GMT

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
> 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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> Things are moving forward.
>
> All the best,
>
> Mike

Subject: Re: Working on the Scherzo
Posted by kerryg on Wed, 01 Oct 2008 16:10:33 GMT

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:

>
> Hi All,
>
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> 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
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> Things are moving forward.
>
> All the best,
>
> Mike

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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> Things are moving forward.
>
> All the best,
>
> Mike

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 need
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>Things are moving forward.
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>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
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>>All the best,
>>
>>Mike
>

Subject: Re: Working on the Scherzo
Posted by LaMontt on Thu, 02 Oct 2008 00:56:12 GMT

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 need
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>All the best,
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>Mike

Subject: Re: Working on the Scherzo
Posted by Mike Audet on Thu, 02 Oct 2008 11:22:32 GMT

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

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>cleaning up dodgy or outdated code - what are your end-goal aims? What
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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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>> Things are moving forward.
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>> All the best,
>>
>> Mike
>
>

Subject: Re: Working on the Scherzo
Posted by Josh Herzog on Thu, 02 Oct 2008 13:44:16 GMT

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:
>
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>Things are moving forward.
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>All the best,
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>Mike

Subject: Re: Working on the Scherzo
Posted by Mike Audet on Thu, 02 Oct 2008 14:30:48 GMT

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.
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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:
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>Hi Josh,
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>It sounds like you need the "minimum setup" installer that Chris Thoman released
>several years ago. That fixes the crash on exit.
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>"Josh Herzog" <pruner1@hotmail.com> wrote:
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```
>>>
>>>All the best,
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>>>Mike
>>
>
```

Subject: Re: Working on the Scherzo
Posted by Mike Audet on Fri, 03 Oct 2008 11:03:07 GMT

www.ensoniq.ca/MinimumSetup.exe

cheers!

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