
Subject: latest PSCL

Posted by [Mike Audet](#) on Fri, 26 Sep 2008 01:09:05 GMT

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Ok, this one is a pretty major change. I've been looking into the debug info when things go wrong, and I discovered that there was often a command failure, which means that the App sent the MEC a command, and it didn't respond.

There is a function that is supposed to check for timeouts in command communication, and it always seemed a little sketchy to me.

So, I dug into it, and it was badly broken. It was supposed to wait for a reply, but it was only waiting for the PSCL actively waiting for a reply, which isn't the same thing at all. It's fixed.

I also found out why delaying the writes helps - it's the c16 that can't take being spoken to too quickly.

Dimitrios, I hope this helps.

This is way better design than before. It wastes less time - I can probably get rid of a whole pile of delays in the init now.

I've got to get back to school work. :(

Cheers!

Mike

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Subject: Re: latest PSCL
Posted by [kerryg](#) **on Fri, 26 Sep 2008 01:58:03 GMT**
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Works perfectly with Paris here. Wish I had an MP machine so these reports would be more meaningful, but at least I can tell you nothing's broken :D

- K

On 2008-09-25 18:09:05 -0700, "Mike Audet" <mike@...> said:

>
>
>
> Ok, this one is a pretty major change. I've been looking into the debug info
> when things go wrong, and I discovered that there was often a command failure,
> which means that the App sent the MEC a command, and it didn't respond.
> There is a function that is supposed to check for timeouts in command
> communication,
> and it always seemed a little sketchy to me.
>
> So, I dug into it, and it was badly broken. It was supposed to wait for a
> reply, but it was only waiting for the PSCL actively waiting for a reply,
> which isn't the same thing at all. It's fixed.
>
> I also found out why delaying the writes helps - it's the c16 that can't
> take being spoken to too quickly.
>
> Dimitrios, I hope this helps.
>
> This is way better design than before. It wastes less time - I can probably
> get rid of a whole pile of delays in the init now.
>
> I've got to get back to school work. :(
>
> 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 Fri, 26 Sep 2008 02:24:57 GMT

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Thanks, Kerry. :)

The problems this addresses were really bothering me.

I locked the Scherzo to one CPU, and I was still having command queue errors

when PARIS was not locked also. I haven't had any problems at all with this build.

Next stop, Scherzo.

:)

KerryGalloway <kg@kerrygalloway.com> wrote:

>Works perfectly with Paris here. Wish I had an MP machine so these
>reports would be more meaningful, but at least I can tell you nothing's

>broken :D

>

>- K

>

>On 2008-09-25 18:09:05 -0700, "Mike Audet" <mike@...> said:

>

>>

>>

>>

>> Ok, this one is a pretty major change. I've been looking into the debug
info

>> when things go wrong, and I discovered that there was often a command
failure,

>> which means that the App sent the MEC a command, and it didn't respond.

>> There is a function that is supposed to check for timeouts in command

>> communication,

>> and it always seemed a little sketchy to me.

>>

>> So, I dug into it, and it was badly broken. It was supposed to wait for
a

>> reply, but it was only waiting for the PSCL actively waiting for a reply,
>> which isn't the same thing at all. It's fixed.

>>

>> I also found out why delaying the writes helps - it's the c16 that can't
>> take being spoken to too quickly.

>>

>> Dimitrios, I hope this helps.

>>

>> This is way better design than before. It wastes less time - I can probably
>> get rid of a whole pile of delays in the init now.

>>

>> I've got to get back to school work. :(

>>

>> Cheers!

>>

>> Mike

>>
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>> from the File menu to save.
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