Subject: Hyperthreading/Dual CPUs and the XP Driver
Posted by Mike Audet on Fri, 17 Feb 2006 22:50:29 GMT
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Has anyone tried using the "/INTAFFINITY" switch in the boot.ini file to ressolve the c16 issues with Windows XP?

The switch tells Windows to rout all interupt requests through one CPU, instead of spreading them out over two. It definitly solves some driver problems in dual CPU systems.

I ran accross it trying to resolve a problem with a USB card on my Dual Athlon. I don't have any c16s to try it with, but my testing seems to show that it puts about 10% more load on the highest numbered CPU, which is a small price to pay if it solves a driver issue, especially in a dual core or cpu situation.

Just wondering....

Mike

Subject: Re: Hyperthreading/Dual CPUs and the XP Driver
Posted by Rohde Wakefield on Fri, 17 Feb 2006 23:05:25 GMT
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Hi Mike.

I ran into this flag a month ago but haven't had a chance to test it during a session. I actually ran my last session (recording scratch tracks of my wife) without the C16 - just forgot to hook it up and never took the time to shutdown PARIS once we got rolling.

When I found the switch, I also tried another switch (/onecpu). I'm about 80% sure one of these does the trick. That night I tried it and played through a project, trying fast moves on the C-16 - didn't see the problems I had before of the transport locking up.

Hopefully someone using the system a bit more fulltime will have a chance to try it out.

-Rohde

"Mike Audet" <mike@mike.....> wrote in message news:43f64525$1@linux...
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Subject: Re: Hyperthreading/Dual CPUs and the XP Driver
Posted by Mike Audet on Sat, 18 Feb 2006 21:40:53 GMT
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This flag is interesting because the system still uses both CPUs, just not
for interupts. You still get most of the advantage of a dual CPU system,
but the PARIS driver might work properly.

Let's hope!

Mike

"Rohde Wakefield" <rohde @ iname.com> wrote:
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Subject: Re: Hyperthreading/Dual CPUs and the XP Driver
Posted by Chris Ludwig on Sun, 19 Feb 2006 06:48:32 GMT
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HI,

If you r feeling real frisky you can try the Interrupt Affinity Tool in
the win2003 resource kit. You will be able to set individual pieces of
hardware to use single processors. Been fooling around with UADs on

Nvidia dual core machines it see if it a makes ant difference.

http://www.microsoft.com/downloads/details.aspx?familyid=9d467a69-57ff-4ae7-96ee-b18c4790cffd&displaylang=en

Chris

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Chris Ludwig
ADK
chrisl@adkproaudio.com <mailto:chrisl@adkproaudio.com>
www.adkproaudio.com <http://www.adkproaudio.com/>

(859) 635-5762

Subject: Re: Hyperthreading/Dual CPUs and the XP Driver
Posted by Rohde Wakefield on Thu, 23 Feb 2006 15:17:08 GMT
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OK - did some more testing yesterday. Again, this is an AMD X2 3800+ dual core processor.

With just /intaffinity, the transport would be locked up almost immediately. I could never use the C16 for anything.

With /intaffinity and /onecpu (/intaffinity probably unnecessary), it works fine with no lockups.

For me, this is acceptable as I can reboot and do my video editing work with both cores engaged. I don't need more horsepower than one core for Paris.

It seems like there was a way to force which processor was tasked to handle the interrupts and its also possible to set the application to just one processor. This may be another possibility that I'll look into later.

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Subject: Re: Hyperthreading/Dual CPUs and the XP Driver
Posted by Mike Audet on Fri, 24 Feb 2006 03:31:00 GMT
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Thanks for trying and also for letting us know how it went, Rohde. I'm glad
it's working for you!

All the best,

Mike

"Rohde Wakefield" <rohde @ iname.com> wrote:
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Subject: Re: Hyperthreading/Dual CPUs and the XP Driver
Posted by Rohde Wakefield on Fri, 24 Feb 2006 22:36:53 GMT
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Just did a little more testing.

With just /intaffinity set, the system goes considerably longer if the
affinity for the Paris process is set to the last processor. However, I
would eventually get a locked transport.

Seems /onecpu is the way to go (/intaffinity tossed in for good measure).

-Rohde

"Mike Audet" <mike@mikeF-SPAMaudet.com> wrote in message
news:43fe6fe4$1@linux...
>
> Thanks for trying and also for letting us know how it went, Rohde. I'm
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Subject: Re: Hyperthreading/Dual CPUs and the XP Driver
Posted by Aaron Allen on Fri, 31 Mar 2006 06:16:36 GMT
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Rohde, did you get to dive into the IRQ splitting yet per chance? I think

this could show some nice promise!
AA

"Rohde Wakefield" <rohde @ iname.com> wrote:
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