Subject: Re: [PATCH 1/3] Introduce cpuid_on_cpu() and cpuid_eax_on_cpu() Posted by Andi Kleen on Tue, 03 Apr 2007 13:42:50 GMT

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- > > Both powernow-k8 and cpuid attempt to schedule
- > > to the target CPU so they should already run there. But it is some other CPU,
- > > but when they ask your _on_cpu() functions they suddenly get a "real" CPU?
- >> Where is the difference between these levels of virtualness?

>

- > *_on_cpu functions do some work on given physical CPU.
- > set_cpus_allowed() in openvz operates on VCPU level, so process doing
- > set cpus allowed() still could be scheduled anywhere.

Ok so you have multple levels.

- > > Also it has weird semantics. For example if you have multiple
- > > virtual CPUs mapping to a single CPU then would the powernow-k8 driver
- >> try to set the frequency multiple times on the same physical CPU?

>

> If core cpufreq locking is OK, why would it?

It won't know about multiple CPUs mapping to a single CPU.

- > apply_microcode() looks small enough to convert it to IPIs, but so far
- > nobody asked for microcode updates in openvz.

Well if they try it they will probably have problems.

- > > Before adding any hacks like this I think your vcpu concept
- > > needs to be discussed properly on I-k. For me it doesn't look like it is
- > > something good right now though.

>

> Andi, I think it all relies on correctness of core cpufreg locking.

I have my doubts it will cope with you changing all reasonable expected semantics under it.

-Andi