

---

Subject: Re: rdmsr\_on\_cpu, wrmsr\_on\_cpu et al  
Posted by [Dave Jones](#) on Thu, 18 Jan 2007 01:01:34 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

On Wed, Jan 17, 2007 at 04:26:13PM +0300, Alexey Dobriyan wrote:

> Hi, Dave!

>

> There was OpenVZ specific bug rendering some cpufreq drivers unusable

> on SMP. In short, when cpufreq code thinks it confined itself to

> needed cpu by means of set\_cpus\_allowed() to execute rdmsr, some

> "virtual cpu" feature can migrate process to anywhere. This triggers

> bugons and does wrong things in general.

>

> This got fixed by introducing rdmsr\_on\_cpu and wrmsr\_on\_cpu executing

> rdmsr and wrmsr on given physical cpu by means of smp\_call\_function\_single().

>

> So, understanding p4-clockmod is not the only driver that was affected,

> is something like this acceptable for start?

This is probably useful outside of cpufreq too, so should probably  
go somewhere in include/asm/processor.h for eg.

Looks ok on a quick glance, but I'd like to see if anyone on lkml  
has any comments, especially the usual x86/x86-64 experts.

Dave

--

<http://www.codemonkey.org.uk>

---