Subject: Re: [PATCH 2/3] i/o bandwidth controller infrastructure
Posted by Andrea Righi on Fri, 27 Jun 2008 10:53:28 GMT
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Andrew Morton wrote:
> On Fri, 27 Jun 2008 00:36:46 +0200
> Andrea Righi <righi.andrea@gmail.com> wrote:
>
>>> Does all this code treat /dev/sda1 as a separate device from /dev/sda2?
>>> If so, that would be broken.
>> Yes, all the partitions are treated as separate devices with
>> (potentially) different limiting rules, but I don't understand why it
>> would be broken... dev_t has both minor and major numbers, so it would
>> be possible to select single partitions as well.
>
> Well it's functionally broken, isn't it? A physical disk has a fixed
> IO bandwidth and when the administrator wants to partition that
> bandwidth amongst control groups he will need to consider the entire
> device when doing so?
>
> I mean, the whole point of this feature and of control groups as a
> whole is isolation. But /dev/sda1 and /dev/sda2 are very much _not_
> isolated. Whereas /dev/sda and /dev/sdb are (to a large degree)
> isolated.

well... yes, sounds reasonable. In this case we could just ignore the minor number and consider only major number as the key to identify a specific block device (both for userspace<->kernel interface and when accounting/throttling i/o requests).

-Andrea

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