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Subject: Re: [Xen-devel] dm-band: The I/O bandwidth controller: Performance Report

Posted by [Ryo Tsuruta](#) on Wed, 30 Jan 2008 03:32:02 GMT

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Hi,

> you mean that you run 128 processes on each user-device pairs? Namely,  
> I guess that  
>  
> user1: 128 processes on sdb5,  
> user2: 128 processes on sdb5,  
> another: 128 processes on sdb5,  
> user2: 128 processes on sdb6.

"User-device pairs" means "band groups", right?  
What I actually did is the followings:

```
user1: 128 processes on sdb5,  
user2: 128 processes on sdb5,  
user3: 128 processes on sdb5,  
user4: 128 processes on sdb6.
```

> The second preliminary studies might be:  
> - What if you use a different I/O size on each device (or device-user pair)?  
> - What if you use a different number of processes on each device (or  
> device-user pair)?

There are other ideas of controlling bandwidth, limiting bytes-per-sec, latency time or something. I think it is possible to implement it if a lot of people really require it. I feel there wouldn't be a single correct answer for this issue. Posting good ideas how it should work and submitting patches for it are also welcome.

> And my impression is that it's natural dm-band is in device-mapper,  
> separated from I/O scheduler. Because bandwidth control and I/O  
> scheduling are two different things, it may be simpler that they are  
> implemented in different layers.

I would like to know how dm-band works on various configurations on various type of hardware. I'll try running dm-band on with other configurations. Any reports or impressions of dm-band on your machines are also welcome.

Thanks,  
Ryo Tsuruta

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