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

Posted by [INAKOSHI Hiroya](#) on Tue, 29 Jan 2008 06:42:17 GMT

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Hi,

Ryo Tsuruta wrote:

> The results of bandwidth control test on band-groups.

> =====

> The configurations of the test #3:

> o Prepare three partitions sdb5 and sdb6.

> o Create two extra band-groups on sdb5, the first is of user1 and the second is of user2.

> o Give weights of 40, 20, 10 and 10 to the user1 band-group, the user2 band-group, the default group of sdb5 and sdb6 respectively.

> o Run 128 processes issuing random read/write direct I/O with 4KB data on each device at the same time.

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.

> Conclusions and future works

> =====

> Dm-band works well with random I/Os. I have a plan on running some tests using various real applications such as databases or file servers.

> If you have any other good idea to test dm-band, please let me know.

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)?

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.

Regards,

Hiroya.

>  
> Thank you,  
> Ryo Tsuruta.

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> Xen-devel mailing list  
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