
Subject: [PATCH 0/2] dm-ioband: I/O bandwidth controller v1.1.0: Introduction
Posted by [Ryo Tsuruta](#) on Mon, 02 Jun 2008 12:34:33 GMT

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Hi everyone,

This is dm-ioband version 1.1.0 release.

Dm-ioband is an I/O bandwidth controller implemented as a device-mapper driver, which gives specified bandwidth to each job running on the same physical device.

- Can be applied to the kernel 2.6.26-rc2-mm1.
- Changes from 1.0.0 (posted on May 19, 2008):
 - Measures against high memory pressure.
I/O requests to reclaim pages won't be blocked in dm-ioband even when the group doesn't have the right to issue any more I/Os. But it can keep to control the bandwidth of the group since these I/Os will be counted as debt of the group.
 - Performance tuning
Improve the performance when a lot of ioband groups are created. It is useful when you want to control bandwidth on a per user basis. For example, you can create an ioband group and give an weight to a user once the user is logged in. The combination of dm-ioband, the cgroup memory resource controller and the CPU resource controller will work more effectively.

I also announce that we have launched "Linux Block I/O Bandwidth Control Project" website <http://people.valinux.co.jp/~ryov/bwctl/> .
The goal of this project is to develop a block I/O bandwidth controller on Linux. You can find information about the followings:

- dm-ioband
This device mapper driver.
- iobandctl
An administration tool for dm-ioband, which makes it easy to configure the dm-ioband device.
- Block I/O Tracking
Block I/O tracking, which we call "bio cgroup", provides block I/O tracking mechanism. It makes dm-ioband be able to control the block I/O bandwidths even when it accepts delays write requests.

Thanks,
Ryo Tsuruta

Containers mailing list
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