Subject: Re: [RFC][v2][patch 0/12][CFQ-cgroup]Yet another I/O bandwidth controlling subsystem for CGroups bas Posted by Ryo Tsuruta on Fri, 25 Apr 2008 09:54:44 GMT

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Hi,

I report benchmark results of the following I/O bandwidth controllers.

From: Vasily Tarasov <vtaras@openvz.org> Subject: [RFC][PATCH 0/9] cgroups: block: cfg: I/O bandwidth controlling subsystem for CGroups based on CFQ Date: Fri, 15 Feb 2008 01:53:34 -0500 From: "Satoshi UCHIDA" <s-uchida@ap.jp.nec.com> Subject: [RFC][v2][patch 0/12][CFQ-cgroup]Yet another I/O bandwidth controlling subsystem for CGroups based on CFQ Date: Thu, 3 Apr 2008 16:09:12 +0900 The test procedure is as follows: o Prepare 3 partitions sdc2, sdc3 and sdc4.

o Run 100 processes issuing random direct I/O with 4KB data on each partitions.

o Run 3 tests:

#1 issuing read I/O only.

#2 issuing write I/O only.

#3 sdc2 and sdc3 are read, sdc4 is write.

o Count up the number of I/Os which have done in 60 seconds.

Unfortunately, both bandwidth controllers didn't work as I expected, On the test #3, the write I/O ate up the bandwidth regardless of the specified priority level.

Vasily's scheduler The number of I/Os (percentage to total I/Os) _____ partition | sdc2 | sdc3 | sdc4 | total | priority | 7(highest) | 4 | 0(lowest) | I/Os | | #1 read | 3620(35.6%) | 3474(34.2%) | 3065(30.2%) | 10159 | | 21985(36.6%) | 19274(32.1%) | 18856(31.4%) | 60115 | #2 write | #3 read&write | 5571(7.5%) | 3253(4.4%) | 64977(88.0%) | 73801 | _____

Satoshi's scheduler The number of I/Os (percentage to total I/O)

partition | sdc2 | sdc3 | sdc4 | total |

 	0(highest) ++	•	,		
	4523(47.8%)				9460
	65202(59.0%)		· / /	· · · · · ·	
	rite 5328(23.0				

I'd like to see other benchmark results if anyone has.

Thanks, Ryo Tsuruta

Page 2 of 2 ---- Generated from OpenVZ Forum