
Subject: Re: [PATCH] cfq: async queue allocation per priority
Posted by [Vasily Tarasov](#) on Thu, 19 Jul 2007 07:52:36 GMT
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On Wed, 2007-07-18 at 20:51 +0200, Jens Axboe wrote:

> On Wed, Jul 18 2007, Vasily Tarasov wrote:

> > Jens, I think the last patch, that makes queues allocation per priority,
> > has a problem.

> >

> > If we have two processes with different ioprio_class, but the same
> > ioprio_data, their async requests will fall into the same queue. I guess
> > such behavior is not expected, because it's not right to put real-time
> > requests and best-effort requests in the same queue.

> >

> > The attached patch fixes the problem by introducing additional *cfqq
> > fields on cfqd, pointing to per-(class,priority) async queues.

>

> Ugh yes. I'm pretty tempted just to reinstate the cfqq hash again, it
> used to be a clean up but now it's not stacking up so well.

>

Hello, Jens,

>From my humble point of view cfqq hash has two problems:

1. It is excess data structure. All needed information can be obtained from other structures easily, so the presence of hash is a bit strange... I mean that it's aim is not obvious :)

2. Hash hides from a developer a pretty important concept of CFQ: there are shared between processes per-priority async queues. I think the code is the best documentation, so the explicit async cfqq pointers at cfqd structure reveal this concept greatly.

Summary:

IMHO the hash revival is not very good way. However, this is of course fully in your competence to choose the right decision! ;)

Thank you,
Vasily
