

Re: freebsd-performance Digest, Vol 4, Issue 7

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/performance/2003-06/0070.html>

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Date: 06/19/03

Date: Thu, 19 Jun 2003 10:06:44 -0700

To: Petri Helenius <pete@he.iki.fi>

Petri Helenius wrote:

> > *But this seems to have different problem. At least write to RAID 1 requires*
> > *twice bus bandwidth for soft RAID 1. So, read should be faster than write.*
> > *But current read is 67 MB/s, write is 10 MB/s. Something is not working.*
>
> *Might be that whatever you're using for the write waits for the second write*
> *to complete before it issues a write on the first drive again. vinum does this,*
> *it does not dispatch both writes at the same time. (I argued about this*
> *being "broken" for a while but then gave up, I understand why doing*
> *this differently does complicate the code, but at the same time improves*
> *performance)*

The interesting thing is that the first write is fast every time I rebuilt file system (newfs).

The write on soft RAID is about 3# MB/s. After a few large files on the file system, the write speed drops to 11-12 MB/s. Sooner or later, the write speed will stay at 9-10 MB/s.

multiple writes will be lower around 8-9 MB/s (aggregated rate).

The initial hardware RAID write rate is about 15 MB/s. This may be due to the battery backup write cache does no function correctly. The driver spits following message at the same time:

```
**Monitor** - Battery Fully Changed
```

```
...
```

```
**Monitor** ERROR - Low Battery
```

This may mean that cache is disabled.

-Jin

freebsd-performance@freebsd.org mailing list

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