

## Re: Copying huge amount of data on ReiserFS, XFS and Silicon Image 3112 cause oops.

**Source:** <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-09/4663.html>

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**From:** Alistair John Strachan ([alistair\\_at\\_devzero.co.uk](mailto:alistair_at_devzero.co.uk))

**Date:** 09/14/04

To: Steve Lord <[lord@xfs.org](mailto:lord@xfs.org)>

Date: Tue, 14 Sep 2004 16:01:33 +0100

On Tuesday 14 September 2004 15:12, you wrote:

[snip]

>

> *You would need to be within the size of the physical memory of your  
> box to having a full filesystem – as a very rough approximation. So 1Gbyte  
> memory, 1 Gbyte disk free. There is a path when XFS is attempting to  
> free up pre-reserved disk space to make room for a new write, it  
> does this by flushing data out to disk. This means it has to work  
> out where it is physically going to go, which usually results in it  
> taking less metadata space to reference the data than the worst case  
> estimate it previously made. For lots of cases this probably still  
> does not overflow the stack, but if you add in drivers like lvm  
> and md and a complex scsi driver it probably pushes you over the  
> limit.*

>

Well, this is a good reference answer to the question. The machines are all small systems with only 1GB memory, and plenty of remaining space on the two partitions. I doubt I'd trigger the logic causing the problem.

> *In general though, I would rebuild without the 4K stacks and at least  
> have the kernel ready for a convenient reboot.*

Thanks, I'll do that.

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Cheers,

Alistair.

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