

## Re: [opensuse] Cannot create raid 5 opensuse 10.3

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*Source:* <http://linux.derkeiler.com/Mailing-Lists/SuSE/2007-10/msg02534.html>

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- *From:* Mike Coan <[mikecoan@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:mikecoan@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Thu, 18 Oct 2007 17:02:22 -0400
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On Thursday 18 October 2007 04:26:15 pm Richard Creighton wrote:

{stuff deleted}

Doing a clean install of opensuse 10.3.  
Again the first drive is /swap  
(2 GB) /boot (/ext2 50MB) and /storage  
(ext3 300GB or so). Drives 2-4  
are md0 (460GB ext3) intended to be /

As Yast is formatting /, at the end of the  
process I get the following  
message:

```
Formatting software RAID /dev/md0 (465.7
GB) with ext3
System error code was -3008
/sbin/mke2fs -O div_index -j -v /dev/md0:
mke2fs 1.40.2 (12-jul-2007)
ext2fs_mkdir: Attempt to read block from
filesystem resulted in short
read while creating root dir.
```

I tried the installation a second time and got  
the identical error  
message.

[stuff deleted]

My configuration is totally contained in the following  
<http://www.ricreig.com/pub/PartnTbl.png> but if you would

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rather use a partition for swap rather than raid 0, just reserve the space as a primary partition and not assign it as a MD device and add the necessary adjustments in /fstab. I would make the /boot the first physical partition. The arrangement I am using works well. I use EXT3 formatting. Hope this helps.

Thanks for the reply. i am indeed using software RAID, not any RAID included with the motherboard. Your configuration is much more complicated than mine, and your RAID 5 is much larger than mine, so no reason mine shouldn't work. I will double check settings in my BIOS to make sure it isn't causing problems. I don't think I will put swap and boot on RAID, just /. looking at your setup, I couldn't see anything I did wrong.

Mike

Mike, I think in that case I would try creating 4 partitions on 1 drive, in the following order:

/boot approx 2 g to allow for a /boot.save directory also as a backup emergency restore  
/ (root) (however much will fit)  
/tmp your guess...maybe 10G  
swap 2.5 times your ram size

on the remaining 3 drives, create equal sized single partitions and assign them to a raid 5 MD0 array and make this /home in FSTAB

I'm interested in the outcome.

Richard,

I will give it a try. In the meantime I tried the following, to see if it was a problem with RAID5. I put 4 partitions on drive 1: /boot, swap, and /test. the 4th partition was a RAID partition, the same size as drive 2. then drives 3 and 4 were also made RAID partitions. I made the two partitions on Drive 1 and 2 a RAID 1 (md0) and called it /storage. I made disk 3 and 4 RAID 0, (md1) and called it /. The install created md0, but failed on md1 (the / partition) with the same error message as before. Seems like it doesn't like it when / is composed of entire drives.

To give more detail on what I did before, I highlighted sdb,

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clicked on create,  
designated primary partition,  
specified Do not Format and chose RAID in the drop down box for file type.

Did the same for sdc and sdd. yast showed 3 Linux RAID partitions labeled sb1, sc1, sd1. I clicked on RAID, then create, chose RAID5, and added all 3 drives to md0.

In your example above i suppose you name the partitions primary for each drive.

Mike

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