
Subject: Which system would be more beneficial?
Posted by [devonblzx](#) on Thu, 01 Mar 2007 02:50:56 GMT
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Let's say I want to have 10GB of Memory on my node but I can only afford the following configurations, which one do you think would perform best?

Both servers will have the same specs except for:

Server1: 7GB RAM
6xSATAII RAID10 (3GB SWAP partition)

Server2: 8GB RAM
4xSATAII RAID5 (2GB SWAP partition)

Which one would you choose?

I know RAM is a lot faster, but RAID10 is supposed to be a lot faster for writing and copying which is what is needed for a SWAP partition.

Tell me your ideas.

Subject: Re: Which system would be more beneficial?
Posted by [masm](#) on Thu, 01 Mar 2007 13:02:23 GMT
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I think that RAID10 and RAID5 shouldn't be compared without knowing the controller. For example when using Areca's SATA-RAID -controllers, RAID5-performance is nearly same than with RAID10. But with 3Ware's (older) SATA-RAID -controllers, RAID5 is sloooooooooooooowwwwww...

Subject: Re: Which system would be more beneficial?
Posted by [devonblzx](#) on Thu, 01 Mar 2007 15:13:20 GMT
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We were planning on using an LSI controller. Also we will have Quad woodcrest so would a software RAID be bad idea? We will have plenty of CPU power, thats why I ask.

Can you give me any suggestions now?

Subject: Re: Which system would be more beneficial?
Posted by [sPENKMAN](#) on Tue, 20 Mar 2007 22:14:55 GMT
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Why 6 drives in raid10 and not 4? Are you planning to use an hotspare?

I would go for an good hardware raid10 controller with four 15k 74GB harddisks with as much memory as you can get for your budget.

* Why a hardware raid controller?

Under normal conditions you will have better performance and caching capabilities. When a drives decides to fail you can simply remove it and replace it with a new drive without much hassle. Using software raid you are always depending on you OS which would be a shame looking at the rest of your config.

* Why use 15.000rpm harddisks?

In the system that I control I see quite some harddisk activity. There are loads of read / writes on which a low access time gives you better performance.

I also suggest you mount the filesystem with the "noatime" parameter, this will lower the load on your filesystem noticable.
