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Subject: 8 Physical Processors - Kernel?

Posted by [VN-Ken](#) on Thu, 29 May 2008 21:35:12 GMT

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Hello,

We are currently having some issues with a node that has 8 physical processors with 32 GB of RAM . It does not seem to be threading the processes correctly, resulting in high loads with even little usage at times.

Is there possibly a special kernel needed in order to take advantage of all processors + hyper threading?

Thanks.

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Subject: Re: 8 Physical Processors - Kernel?

Posted by [TheWiseOne](#) on Thu, 29 May 2008 22:39:40 GMT

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32 or 64-bit host?

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Subject: Re: 8 Physical Processors - Kernel?

Posted by [VN-Ken](#) on Thu, 29 May 2008 23:50:13 GMT

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Subject: Re: 8 Physical Processors - Kernel?

Posted by [TheWiseOne](#) on Fri, 30 May 2008 01:21:09 GMT

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yeah... that's some crazy PAE overhead going on there. Try using a 64-bit host. You can just backup your configs and reinstall the base OS on / & /boot, not touching /vz. 32-bit containers will start and operate without issue on a 64-bit host.

With that much RAM you're probably running really, really scarce on low memory.

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Subject: Re: 8 Physical Processors - Kernel?

Posted by [VN-Ken](#) on Fri, 30 May 2008 03:10:39 GMT

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Matt,

Think I figured it out. It was never using PAE. It only recognized 3 GB of RAM. So we'll see here in a bit.

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Subject: Re: 8 Physical Processors - Kernel?

Posted by [TheWiseOne](#) on Fri, 30 May 2008 13:49:59 GMT

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I'd still recommend trying a 64-bit kernel. With 32GB of RAM the PAE overhead has to be hurting no matter what and there is still low memory to worry about, especially with the # of processes that a 32GB VPS host would run. The fact that 32-bit VPS's perform flawlessly under OpenVZ 64-bit kernel makes the conversion very easy.

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