

## Re: 4GB of RAM tuning in windows xp professional xp sp2 with 32bi

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*Source:*

<http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.general/2008-09/msg02790.html>

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- *From:* Yman <[Yman@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:Yman@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Tue, 16 Sep 2008 11:26:01 -0700
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Dear Alvyn,

This what happen to me, I read the article from Microsoft and they said it can be done.

At least I'm getting migrane :)

"Alvyn" wrote:

Dear John

I saw that all is saying "NO" to support of memory more than 4GB in 32Bit OS.

Can you please advice as I am confused on this when I read this statement found in :

<http://www.microsoft.com/whdc/system/platform/server/PAE/PAEmem.mspx>

"Physical Address Extension. PAE is an Intel-provided memory address extension that enables support of up to 64 GB of physical memory for applications running on most 32-bit (IA-32) Intel Pentium Pro and later platforms. Support for PAE is provided under Windows 2000 and 32-bit versions of Windows XP and Windows Server 2003. 64-bit versions of Windows do not support PAE."

Correct me if I am wrong. I read the above statement as -> PAE can be supported in Windows 2000 & 32bit of WinXP & Win2003 Server. So long as PAE is enable in these OS, it can support up to 64GB of Physical Memory for applications running on 32bit Intel Pentium Pro & later platform.

So can I presume that if I installed 8GB of memory with a Quad Core processor, I can fully make use of the rest of the available memory in running application like Photoshop & 3DS MAX up to a maximum of 64GB if I have /PAE switch in boot.ini?

If I am wrong, can you please rephrase it so that I can have a better understanding on what this statement is talking about.

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Thanks

Alvyn

"John John (MVP)" wrote:

Windows XP doesn't fully support PAE and the 4GT RAM Tuning doesn't really have anything to do with physical memory (RAM), it affects how the Virtual Address Space is alloted between user mode processes and the kernel-mode components, you should remove these switches from the boot.ini file. Due to hardware addressing needs Windows XP 32-bits cannot fully utilize 4GB of RAM and there is no way to overcome the limitation.

John