

## Re: SQL 2000 on Win2K3 Enterprise /PAE question

**Source:**

<http://www.tech-archive.net/Archive/SQL-Server/microsoft.public.sqlserver.server/2004-12/2516.html>

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**From:** sbell ([sbell\\_at\\_discussions.microsoft.com](mailto:sbell_at_discussions.microsoft.com))

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Date: Tue, 21 Dec 2004 09:23:05 -0800

I'm in a similar position. We are running SQL 2000 Enterprise on Win2K3 Enterprise. I thought that the maximum memory that could be addressed (with PAE and AWE enabled) would be 8 GB. I'm basing this on info I found regarding SQL on Win2K. I haven't been able to find the same data for Win2K3. Could someone confirm the maximum memory I can address with this configuration?

"Geoff N. Hiten" wrote:

> *Definitely apply the hotfix mentioned for article 834628. Another DBA here*  
> *ran into something that he thinks may have been caused by this issue.*  
>  
> *Don't use /3GB when you have more than 12 GB of RAM in your system. The OS*  
> *needs the extra mamory to handle mapping AWE memory back into the lower 4GB*  
> *address space. Finally, set the MAX SERVER MEMORY to about 2-4GB less than*  
> *your physical memory.*  
>  
> --  
> *Geoff N. Hiten*  
> *Microsoft SQL Server MVP*  
> *Senior Database Administrator*  
> *Careerbuilder.com*  
>  
> *I support the Professional Association for SQL Server*  
> *www.sqlpass.org*  
>  
> *"Larry Kippenhan" <lwkthrowaway1@comcast.net> wrote in message*  
> *news:e\$pzBY9rEHA.2128@TK2MSFTNGP10.phx.gbl...*  
> *I have a couple of questions that I hope y'all will be able to give me*  
> *some info on.*  
>  
>  
> *I am installing SQL Server 2000 on a Win2K3 Enterprise server with 20GB*  
> *of RAM (I know, odd number), anyway, as I was searching for information*  
> *on enabling all of my memory, and the /PAE option, I came across a KB*  
> *article, #834628*  
> *(<http://support.microsoft.com/default.aspx?scid=kb:en-us:834628>), titled*  
> *"Data is corrupted when PAE is enabled on a Windows Server 2003-based*  
> *computer". I expect this machine to give the resources a pretty good*

> > *workout, and I was concerned about running into this issue. Has any of*  
> > *you run into this issue? Or, how likely is it that I will experience*  
> > *this. Microsoft suggests not installing the hotfix unless you are*  
> > *severely affected by this bug. To me, ANY corruption counts as severe,*  
> > *and I really don't want to have to do all of the restores, and send 400*  
> > *people home, etc, etc, while I fix this thing. So, any info here is*  
> > *appreciated.*  
> >  
> > *Second question I had was: with the /PAE option, and awe enabled on the*  
> > *SQL Server, it consumed as much of the available memory as it could*  
> > *(about 19.7 GB). This in itself doesn't bother me, but what had me*  
> > *puzzled, was that it appeared to be using the memory that was below the*  
> > *4GB line. I really expected that it wouldn't since I hadn't used the*  
> > */3GB switch. Any thoughts on this? Is /3GB not needed anymore, or is*  
> > *my understanding not in line with reality?*  
> >  
> > *Thanks again for your insights.*  
> >  
> > *Larry*  
>  
>  
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