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Is windows 10 64 bit good for gaming

Whether you're shopping for a new computer or upgrading an old computer, you've probably come across the 64-bit name and wondered what it means. Read on while explaining what 64-bit Windows is and why you want a piece of 64-bit pie. RELATED: Do I know if I'm running Windows 32-bit or 64-bit Windows? Starting with Windows 7, Microsoft has made an enormous amount to increase the popularity of 64-bit computing among home users, but many people are unclear as to what exactly it means (and can't even realize they're already running it). Today we look at the history of 32-bit and 64-bit computing, whether your computer can handle it or not, as well as the benefits and shortcomings of using a 64-bit Windows environment. A very short history of 64-bit computing Before you start dazzlingly with interesting history, let's move the basics down. What is 64-bit? In the context of discussions about 32-bit and 64-bit personal computers, the XX-bit format refers to the width of the CPU registry. The registry is a small amount of storage if the processor retains any data it needs to quickly access for optimal computer performance. The bit name refers to the width of the registry. A 64-bit workbook can contain more data than a 32-bit workbook, which in turn holds more than 16 bits and 8 bits. The larger the space in the Processor recording system, the more it can manage, especially in terms of efficient system memory use. A processor with a 32-bit registry, for example, has a ceiling of 232 addresses in the registry and is thus limited to accessing 4GB of RAM. This may have seemed like an enormous amount of RAM when they were hashing out the registry size 40 years ago, but it's a pretty uncomfortable limit for modern computers. While it may seem like 64-bit computing is the new kid on the techno-wizardy block, it's actually been around for decades. The first computer to use a 64-bit architecture was Cray UNICOS in 1985, which sets a precedent for 64-bit super computers (Cray 1 is seen in the center of the photo above). 64-bit computing would remain the only province of super computers and large servers for the next 15 or so years. During this time, consumers were exposed to 64-bit systems, but most were not fully aware of this. Nintendo 64 and Playstation 2, both seen in the photo above, had 64-bit processors a full 5 years before 64-bit consumption level processors and accompanying operating systems even made an appearance on public radar. Consumer confusion about what 64-bit means to them and the driver's poor support in the manufacturers have severely prevented the pushing towards 64-bit PCs in most of the 2000s. In 2001, Microsoft released a 64-bit edition of Windows XP. It has not been widely adopted, except those who want to deal with extremely limited driver support and a lot of headaches. The following year, OS X Panther and a handful of Linux distributions began supporting 64-bit processors in various capacities. macOS X was not completely complete 64-bit for another five years with the launch of OS X Leopard. Windows supported 64-bit in Windows Vista, but again it was not widely adopted. All around there was a bumpy road for 64-bit adoption among home users. Two things have changed the tide in the PC world. The first was the launch of Windows 7. Microsoft pushed 64-bit computing to manufacturers and gave them better tools and longer lead time to deploy 64-bit drivers. The second, arguably greater, influence came from the way PC manufacturers marketed their PCs. Selling to people who can't fully understand the platforms they buy means marketing has to push certain, easy-to-understand numbers. The amount of memory in a PC is one of these numbers. A PC with 8 GB of RAM seems only better than one with 4 GB of RAM, right? And 32-bit PCs were limited to 4 GB of RAM. To provide PCs with larger amounts of memory, manufacturers had to adopt 64-bit PCs. Can your computer manage 64-bit? Unless your PC is previous to Windows 7, chances are it will support a 64-bit version of Windows. You may even be running a 64-bit version of Windows, and this is a pretty easy thing to verify. Even if you're running a 32-bit version of Windows 10, you might be able to switch between versions if you have 64-bit capable hardware. RELATED: Do I know if I'm running Windows 32-bit or 64-bit Windows? The benefits and weaknesses of 64-bit computing You've read a little bit about the 64-bit calculation history, and system verification indicates that you can run Windows 64-bit. And now what do we do? Let's go through the pros and cons of switching to a 64-bit operating system. What do you expect if you jump? Here are some of the enormous benefits to making the leap to a 64-bit system: You can radically rock more RAM: How much more? 32-bit versions of Windows (and other operating schemes) are limited to 4096 MB (or 4 GB) of RAM. The 64-bit versions are theoretically capable of supporting just over 17 billion GB of RAM memory thanks to the spacious recording system we talked about earlier. Realistically, Windows 7 64-bit Home editions are limited (due to licensing issues, not physical limitations) to 16GB of RAM and professional and ultimate editions can rock up to 192GB of RAM. You'll see increased efficiency: Not only can you install more RAM in your system (easily as much as the motherboard can handle), you'll also see a more efficient use of that ram. Due to the nature of the 64-bit address system in the registry and how 64-bit Windows allocates memory, you'll see less system memory chewed by secondary systems (such as video). Although you might just double the physical amount of RAM in your car it will feel like way more than that because of the new efficiency of your system. Your computer will be able to allocate more virtual memory per process: Under the 32-bit architecture, Windows is limited to assigning 2 GB of memory to an application. Modern games, video and photo Applications, and hungry applications, would be virtual machines, yearning for large pieces of memory. Under 64-bit systems that you can have, prepare for another theoretically large number, up to 8TB of virtual memory. That's more than enough for even the craziest Photoshop editing and Crysis sessions. In addition to using and allocating memory more efficiently, apps optimized for 64-bit operating systems, such as Photoshop and Virtualbox, are super fast and take full advantage of the CPU space and memory they have. You'll enjoy advanced security features: 64-bit Windows with a modern 64-bit processor enjoys additional protections that aren't available to 32-bit users. These protections include D.E.P. hardware, as well as Kernel Patch Protection that protects you from kernel exploits, and device drivers must be digitally signed, which reduces the incident of driver-related infections. Sounds great, doesn't it? What about the shortcomings? Fortunately, the list of shortcomings that come with the adoption of a 64-bit operating system is getting smaller as time goes on. However, there are a few considerations: You can't find 64-bit drivers for older but critical devices on your system: This is a serious business killer, but the good news is that it's not as big a problem as it used to be. Providers almost universally support 64-bit versions of the latest operating systems and devices. If you're running Windows 8 or 10 and using manufactured hardware in the last five years, you shouldn't have problems with hardware drivers. If you're running Windows 7 or earlier or using very old hardware, you may have less luck. Have an expensive sheet-powered scanner from 2003 that you love? Sin. You probably won't find a 64-bit driver for that. Hardware companies would rather spend their energy supporting new products (and encouraging you to buy them) than supporting older hardware. For small things that are easy to replace or need to be updated anyway, this is not a big deal. For critical and expensive mission hardware, it's more important. You will have to decide for yourself if the cost of upgrading and compromises are worth it. The motherboard does not support more than 4GB of RAM MEMORY: Although it is rare, it is not unheard to have a motherboard that supports a 64-bit processor, but that does not support more than 4GB of RAM. In this case, you'll still get some of the benefits of a 64-bit processor, but you won't get the benefit most people want: access to more memory. If you're not buying bleeding edge parts, however, the hardware has gotten so cheap lately that it might be time to withdraw the old motherboard upgrade, at the same time, you are upgrading your operating system. You have legacy software problems or other software problems to resolve: some software does not transition to 64-bit without problems. While 32-bit apps run great on 64-bit Windows, 16-bit apps won't work. If, by chance, you're still using a very old legacy. Old, for something, you will have to virtualize it or give up an upgrade. RELATED: Why are most programs still 32-bit on a 64-bit version of Windows? At some point, everyone will use a 64-bit version of Windows. We're very close to being there now. However, even in these later stages of the 32-bit to 64-bit transition, there are a few speed bumps there. Do you have recent experience with 64-bit problems? We'd love to hear about that in discussions. Discussion.

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