

Difference between 32-bit and 64-bit Windows?

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1. 4 simple ways to check the configuration and hardware information of computers and laptops

What is 32bit Windows and 64bit Windows?

Windows 32bit and Windows 64bit are all operating systems installed on the computer. Another difference between 2 operating systems is Window 32bit for hardware configuration smaller than 4GB Ram and Windows 64bit can receive more than 4GB.

Specifically, **64 bit** can work with RAM of more than **3.2GB** (can also be lower) to **128GB** , while the **32-bit** version can only receive up to **3 RAM** , **2GB** only. So if you install 32-bit version of Windows on a computer system that uses more than 3.2GB of RAM, it is considered that the extra capacity will not make sense.

Large memory processing capabilities make the 64-bit version more efficient in executing the workflows you delegate. The 64-bit version will help increase overall performance on your PC, so it's more powerful than 32-bit. Now let's explore a number of different points related to these two technologies as well as choosing the right version for your computer.

How to check the running version of Windows

- First, right-click on **Computer** and select **Properties**

System

Rating:	4.9 Windows Experience Index
Processor:	Intel(R) Core(TM) i3-4005U CPU @ 1.70GHz 1.70 GHz
Installed memory (RAM):	4.00 GB (2.44 GB usable)
System type:	32-bit Operating System, x64-based processor
Pen and Touch:	No Pen or Touch Input is available for this Display


Computer name, domain, and workgroup settings

Computer name:	dinhsp	Change settings
Full computer name:	dinhsp	
Computer description:		
Workgroup:	WORKGROUP	

Windows activation

Windows is activated [View details in Windows Activation](#)

Product ID: 00178-40000-00001-AA094



- Under the **System** section, you see the information that the version of Windows used displayed next to the **System type** message line, for example, under the picture is the 32-bit version of Windows.

Check the system's ability to run Windows 64-bit

If you do not know the exact information about the version of CPU you use that supports 64-bit technology, you can follow the steps below to view information about that CPU's support. .

Step 1 : Still in the **System** window above, click on the **Performance Information and Tools** link in the lower left corner.

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See also

- Action Center
- Windows Update
- Performance Information and Tools

Step 2 : When the new interface opens, click on the link **View and print** .

Rate and improve your computer's performance

The Windows Experience Index assesses key system components on a scale of 1.0 to 9.9.

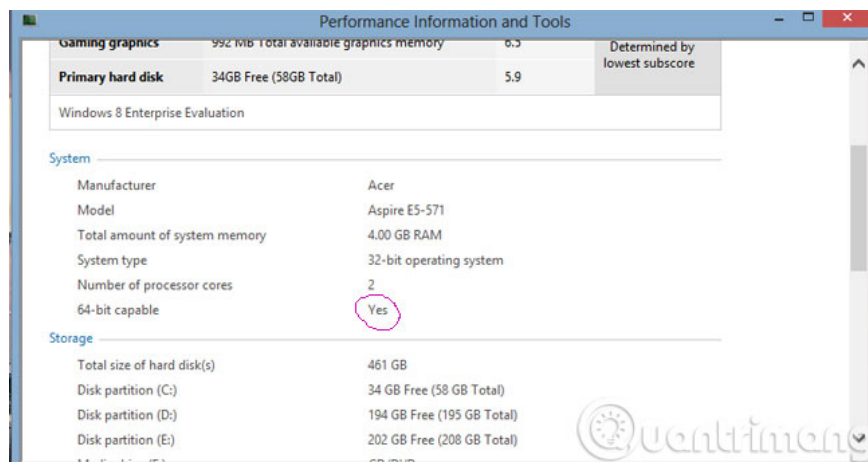
Component	What is rated	Subscore	Base score
Processor:	Calculations per second	5.9	4.9 Determined by lowest subscore
Memory (RAM):	Memory operations per second	5.5	
Graphics:	Desktop graphics performance	4.9	
Gaming graphics:	3D business and gaming graphics performance	6.5	
Primary hard disk:	Disk data transfer rate	5.9	



[View and print detailed performance and system information](#)



Step 3 : In the dialog box that opens, scroll down to the **System / 64bit capable section** , notice whether its status is **Yes** or **No**. If it is **Yes** , you can install the **64bit** operating system and vice versa.



Note: You cannot proceed to upgrade from 32-bit Windows operating system version to 64-bit version and vice versa. If you want to install the 64-bit version, you must reinstall the system from scratch and need to make backups before installing.

Pros and cons of 64 bit system

1. Talking about the main advantages of 64-bit systems, users can access and manage the system's memory better. Along with that, enhanced security features thanks to features such as the **Kernel Patch Protection** that support hardware protection and perform data backup, eliminating available 16-bit system drivers. In addition, the performance of special programs on 64-bit operating systems is great.
2. However, the 64-bit version also lacks drawbacks. Specifically, **32-bit** drivers cannot work on **64-bit** systems, so you don't expect to use older versions.

How to choose the correct Windows version?

For 64-bit versions

1. Choosing the right version of Windows depends on your requirements and priorities. If you want to take advantage of a system with large memory (more than 3.2GB) then you can choose the 64-bit version. But check the tools and programs you are running can work on 64-bit platforms before deciding to proceed with the conversion.
2. Most new software and hardware are supported with 64-bit platforms, hardware compatibility testing with Windows 64bit with **64 bit Checker** software

For 32-bit versions

1. The 32-bit version is cheaper than 64-bit versions
2. If you are using older software and hardware, you should choose the 32-bit version as it supports all the programs and devices.

Note: Most programs designed for 32-bit versions can support 64-bit versions except for some antivirus programs. But if a program is designed for a 64-bit version, it will not work on the 32-bit version. Therefore, you should choose exactly before deciding to buy the Windows version that you will expect to use.

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