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## Windows NT

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### Windows NT (operating system)

(Windows New Technology, NT) **Microsoft's 32-bit operating system** developed from what was originally intended to be **OS/2 3.0** before **Microsoft** and **IBM** ceased joint development of OS/2. NT was designed for high end workstations (Windows NT 3.1), servers (Windows NT 3.1 Advanced Server), and corporate networks (NT 4.0 Enterprise Server). The first release was **Windows NT 3.1**.

Unlike **Windows 3.1**, which was a graphical environment that ran on top of **MS-DOS**, Windows NT is a complete operating system. To the user it looks like Windows 3.1, but it has true multi-threading, built in networking, security, and **memory protection**.

It is based on a **microkernel**, with 32-bit addressing for up to 4Gb of **RAM**, virtualised hardware access to fully protect applications, installable file systems, such as **FAT**, **HPFS** and **NTFS**, built-in networking, multi-processor support, and **C2 security**.

NT is also designed to be hardware independent. Once the machine specific part - the **Hardware Abstraction Layer (HAL)** - has been ported to a particular machine, the rest of the operating system should theoretically compile without alteration. A version of NT for **DEC's Alpha** machines was planned (September 1993).

NT needs a fast **386** or equivalent, at least 12MB of **RAM** (preferably 16MB) and at least 75MB of free disk space.

NT 4.0 was followed by **Windows 2000**.

**Usenet** newsgroups: [news:comp.os.ms-windows.nt.setup](mailto:news:comp.os.ms-windows.nt.setup), [news:comp.os.ms-windows.nt.misc](mailto:news:comp.os.ms-windows.nt.misc).



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### Windows NT (Windows New Technology) A 32-bit operating system from Microsoft for Intel x86 CPUs.

Available in separate client and server versions, it included built-in networking and preemptive multitasking. Windows NT was introduced in 1993 as Version 3.1 with the same user interface as Windows 3.1. In 1996, Version 4.0 was changed to the Windows 95 desktop (see table below).

A New Lineage

Exhibit 2073  
Bromium Technologies LLC - patent owner  
Microsoft Corporation - petitioner  
IPR2016-00449

did not support Plug and Play, but it was later added in Windows 2000 and XP, also based on the NT core technology. NT 4 Server, Enterprise Edition supported clustering and failover.

### For x86 Machines Only

NT ran 16-bit DOS and Windows applications in its own emulation mode (see **NTVDM**) and also provided a command processor that executed DOS commands. Support for the PowerPC and MIPS platforms was planned and later dropped. Support for Alpha servers reached the beta stage, but was also dropped. See **Windows**.

Year	Official NT Intro	Name of NT Version	GUI	Client/Server	Version
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NT 3.1	1993	3.x NT/NT Advanced Server			
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NT 3.5	1994	3.x NT/NT Advanced Server			
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NT 3.51	1995	3.x NT/NT Advanced Server			
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NT 4.0	1996	95 NT Workstation/ NT Server			
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3.x = Windows 3.x Program Manager

95 = Windows 95 Start menu

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