

# 64

64

*64 or sixty-four in Wiktionary, the free dictionary. 64 or sixty-four may refer to: 64 (number) one of the years 64 BC, AD 64, 1964, 2064 Highway 64,*

64 or sixty-four may refer to:

64 (number)

1989 Tiananmen Square protests and massacre

*such as May 35th, VIIV (Roman numerals for 6 and 4), Eight Squared (since  $8^2=64$ ) and 8964 (in yymd format). In English, the terms &quot;Tiananmen Square Massacre&quot;*

The Tiananmen Square protests, known within China as the June Fourth Incident, were student-led demonstrations held in Tiananmen Square in Beijing, China, lasting from 15 April to 4 June 1989. After weeks of unsuccessful attempts between the demonstrators and the Chinese government to find a peaceful resolution, the Chinese government deployed troops to occupy the square on the night of 3 June in what is referred to as the Tiananmen Square massacre. The events are sometimes called the '89 Democracy Movement, the Tiananmen Square Incident, or the Tiananmen uprising.

The protests were precipitated by the death of pro-reform Chinese Communist Party (CCP) general secretary Hu Yaobang in April 1989 amid the backdrop of rapid economic development and social change in post-Mao China, reflecting anxieties...

64-bit computing

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In computer architecture, 64-bit integers, memory addresses, or other data units are those that are 64 bits wide. Also, 64-bit central processing units (CPU) and arithmetic logic units (ALU) are those that are based on processor registers, address buses, or data buses of that size. A computer that uses such a processor is a 64-bit computer.

From the software perspective, 64-bit computing means the use of machine code with 64-bit virtual memory addresses. However, not all 64-bit instruction sets support full 64-bit virtual memory addresses; x86-64 and AArch64, for example, support only 48 bits of virtual address, with the remaining 16 bits of the virtual address required to be all zeros (000...) or all ones (111...), and several 64-bit instruction sets support fewer than 64 bits of physical...

X86-64

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x86-64 (also known as x64, x86\_64, AMD64, and Intel 64) is a 64-bit extension of the x86 instruction set. It was announced in 1999 and first available in the AMD Opteron family in 2003. It introduces two new operating modes: 64-bit mode and compatibility mode, along with a new four-level paging mechanism.

In 64-bit mode, x86-64 supports significantly larger amounts of virtual memory and physical memory compared to its 32-bit predecessors, allowing programs to utilize more memory for data storage. The architecture expands the number of general-purpose registers from 8 to 16, all fully general-purpose, and extends their width to 64 bits.

Floating-point arithmetic is supported through mandatory SSE2 instructions in 64-bit mode. While the older x87 FPU and MMX registers are still available, they...

#### Athlon 64

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The Athlon 64 is a ninth-generation, AMD64-architecture microprocessor produced by Advanced Micro Devices (AMD), released on September 23, 2003. It is the third processor to bear the name Athlon, and the immediate successor to the Athlon XP. The Athlon 64 was the second processor to implement the AMD64 architecture (after the Opteron) and the first 64-bit processor targeted at the average consumer. Variants of the Athlon 64 have been produced for Socket 754, Socket 939, Socket 940, and Socket AM2. It was AMD's primary consumer CPU, and primarily competed with Intel's Pentium 4, especially the Prescott and Cedar Mill core revisions.

The Athlon 64 is AMD's first K8, eighth-generation processor core for desktop and mobile computers. Despite being natively 64-bit, the AMD64 architecture is backward...

#### Commodore 64

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The Commodore 64, also known as the C64, is an 8-bit home computer introduced in January 1982 by Commodore International (first shown at the Consumer Electronics Show, January 7–10, 1982, in Las Vegas). It has been listed in the Guinness World Records as the best-selling desktop computer model of all time, with independent estimates placing the number sold between 12.5 and 17 million units. Volume production started in early 1982, marketing in August for US\$595 (equivalent to \$1,940 in 2024). Preceded by the VIC-20 and Commodore PET, the C64 took its name from its 64 kilobytes (65,536 bytes) of RAM. With support for multicolor sprites and a custom chip for waveform generation, the C64 could create superior visuals and audio compared to systems without such custom hardware.

The C64 dominated...

#### Interstate 64

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Interstate 64 (I-64) is an east–west Interstate Highway in the Eastern United States. Its western terminus is at I-70, U.S. Route 40 (US 40), and US 61 in Wentzville, Missouri. Its eastern terminus is at the Bowers Hill Interchange with I-264 and I-664 at Bower's Hill in Chesapeake, Virginia. I-64 connects Greater St. Louis, the Louisville metropolitan area, the Lexington–Fayette metropolitan area, the Charleston, WV metropolitan area, the Greater Richmond Region, and Hampton Roads.

#### Bundesautobahn 64

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Bundesautobahn 64 (translates from German as Federal Motorway 64, short form Autobahn 64, abbreviated as BAB 64 or A 64) is an autobahn in southwestern Germany. It is the continuation of the Luxembourgish Autoroute 1, connecting the city of Luxembourg to Trier with a total length of only 14 kilometres.

Nintendo 64

*The Nintendo 64 (N64) is a home video game console developed and marketed by Nintendo. It was released in Japan on June 23, 1996, in North America on September*

The Nintendo 64 (N64) is a home video game console developed and marketed by Nintendo. It was released in Japan on June 23, 1996, in North America on September 29, 1996, and in Europe and Australia on March 1, 1997. As the successor to the Super Nintendo Entertainment System (SNES), the N64 was the last major home console to use ROM cartridges as its primary storage medium. As a fifth-generation console, the Nintendo 64 primarily competed with Sony's PlayStation and the Sega Saturn.

Development of the N64 began in 1993 in collaboration with Silicon Graphics, initially codenamed Project Reality and later tested as the Ultra 64 arcade platform. The console was named for its 64-bit CPU. Although its design was largely finalized by mid-1995, the console's release was delayed until 1996 to allow...

Nintendo 64 accessories

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Nintendo 64 accessories are first-party Nintendo hardware—and third-party hardware, licensed and unlicensed. Nintendo's first-party accessories are mainly transformative system expansions: the 64DD Internet multimedia platform, with a floppy drive, video capture and editor, game building setup, web browser, and online service; the controller plus its own expansions for storage and rumble feedback; and the RAM-boosting Expansion Pak for big improvements in graphics and gameplay. Third-party accessories include the essential game developer tools built by SGI and SN Systems on Nintendo's behalf, an unlicensed SharkWire online service, and unlicensed cheaper counterparts to first-party items. In the fifth generation of video game consoles, the Nintendo 64 had a market lifespan from 1996 to 2002...

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