

Operating System Concepts 10th Edition

Operating system

Operating Systems Concepts. John Wiley & Sons. ISBN 978-0-470-12872-5. O'Brien, J. A.; Marakas, G. M. (2011). Management Information Systems (10th ed

An operating system (OS) is system software that manages computer hardware and software resources, and provides common services for computer programs.

Time-sharing operating systems schedule tasks for efficient use of the system and may also include accounting software for cost allocation of processor time, mass storage, peripherals, and other resources.

For hardware functions such as input and output and memory allocation, the operating system acts as an intermediary between programs and the computer hardware, although the application code is usually executed directly by the hardware and frequently makes system calls to an OS function or is interrupted by it. Operating systems are found on many devices that contain a computer – from cellular phones and video game consoles to web servers and...

Research Unix

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Research Unix refers to the early versions of the Unix operating system for DEC PDP-7, PDP-11, VAX and Interdata 7/32 and 8/32 computers, developed in the Bell Labs Computing Sciences Research Center (CSRC). The term Research Unix first appeared in the Bell System Technical Journal (Vol. 57, No. 6, Part 2 July/August 1978) to distinguish it from other versions internal to Bell Labs (such as PWB/UNIX and MERT) whose code-base had diverged from the primary CSRC version. However, that term was little-used until Version 8 Unix (1985), but has been retroactively applied to earlier versions as well. Prior to V8, the operating system was most commonly called simply UNIX (in caps) or the UNIX Time-Sharing System.

Ancient UNIX is any early release of the Unix code base prior to Unix System III, particularly...

System call

Retrieved 4 July 2015. Silberschatz, Abraham (2018). Operating System Concepts. Peter B Galvin; Greg Gagne (10th ed.). Hoboken, NJ: Wiley. p. 67. ISBN 9781119320913

In computing, a system call (syscall) is the programmatic way in which a computer program requests a service from the operating system on which it is executed. This may include hardware-related services (for example, accessing a hard disk drive or accessing the device's camera), creation and execution of new processes, and communication with integral kernel services such as process scheduling. System calls provide an essential interface between a process and the operating system.

In most systems, system calls can only be made from userspace processes, while in some systems, OS/360 and successors for example, privileged system code also issues system calls.

For embedded systems, system calls typically do not change the privilege mode of the CPU.

Tandy Video Information System

Commodore CDTV systems (particularly the CDTV, since both the VIS and CDTV were adaptations of existing computer platforms and operating systems to the set-top-box

The Tandy Memorex Video Information System (VIS) is an interactive, multimedia CD-ROM player produced by the Tandy Corporation starting in 1992. It is similar in function to the Philips CD-i and Commodore CDTV systems (particularly the CDTV, since both the VIS and CDTV were adaptations of existing computer platforms and operating systems to the set-top-box design). The VIS systems were sold only at Radio Shack, under the Memorex brand, both of which Tandy owned at the time.

The Settlers II (10th Anniversary)

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The Settlers II (10th Anniversary) (German: Die Siedler II: Die nächste Generation) is a 2006 city-building game with real-time strategy elements for Windows. Developed by Blue Byte and published by Ubisoft, it was released worldwide in September 2006. It is a remake of The Settlers II (1996). In March 2007, Blue Byte released a German-language expansion, Die Siedler II: Die nächste Generation - Wikinger (English: The Settlers II: The Next Generation - Vikings), featuring new single-player campaign missions, new maps for both single-player and multiplayer modes, a random map generator, and minor gameplay tweaks. In September 2008, they released Die Siedler: Aufbruch der Kulturen (English: The Settlers: Awakening of Cultures), a spiritual successor to Die nächste Generation. In 2013, the original...

Static pressure

aircraft". Kermode, A.C., Mechanics of Flight, 10th edition – page 65 Kermode, A.C., Mechanics of Flight, 10th Edition – page 65 "Of these errors the error in

In fluid mechanics the term static pressure refers to a term in Bernoulli's equation written words as static pressure + dynamic pressure = total pressure. Since pressure measurements at any single point in a fluid always give the static pressure value, the 'static' is often dropped.

In the design and operation of aircraft, static pressure is the air pressure in the aircraft's static pressure system.

Westminster system

The Westminster system, or Westminster model, is a type of parliamentary government that incorporates a series of procedures for operating a legislature

The Westminster system, or Westminster model, is a type of parliamentary government that incorporates a series of procedures for operating a legislature, first developed in England. Key aspects of the system include an executive branch made up of members of the legislature which is responsible to the legislature; the presence of parliamentary opposition parties; and a ceremonial head of state who is separate from the head of government. The term derives from the Palace of Westminster, which has been the seat of the Westminster Parliament in England and later the United Kingdom since the 13th century. The Westminster system is often contrasted with the presidential system that originated in the United States, or with the semi-presidential system, based on the government of France.

The Westminster...

List of national legal systems

amend a code. While the concept of codification dates back to the Code of Hammurabi in Babylon ca. 1790 BC, civil law systems derive from the Roman Empire

The contemporary national legal systems are generally based on one of four major legal traditions: civil law, common law, customary law, religious law or combinations of these. However, the legal system of each country is shaped by its unique history and so incorporates individual variations. The science that studies law at the level of legal systems is called comparative law.

Both civil (also known as Roman) and common law systems can be considered the most widespread in the world: civil law because it is the most widespread by landmass and by population overall, and common law because it is employed by the greatest number of people compared to any single civil law system.

Self-concept

the variations in physical self-concepts appear slightly stronger for boys than girls. This includes self-concepts about movement, body, appearance and

In the psychology of self, one's self-concept (also called self-construction, self-identity, self-perspective or self-structure) is a collection of beliefs about oneself. Generally, self-concept embodies the answer to the question "Who am I?".

The self-concept is distinguishable from self-awareness, which is the extent to which self-knowledge is defined, consistent, and currently applicable to one's attitudes and

dispositions. Self-concept also differs from self-esteem: self-concept is a cognitive or descriptive component of one's self (e.g. "I am a fast runner"), while self-esteem is evaluative and opinionated (e.g. "I feel good about being a fast runner").

Self-concept is made up of one's self-schemas, and interacts with self-esteem, self-knowledge, and the social self to form the self as...

Memory paging

Intel X25-M SSD Operating System Concepts, 10th Edition. February 2021. 9.3 Paging. ISBN 978-1-119-80036-1. "Paging in Operating System"; GeeksforGeeks

In computer operating systems, memory paging is a memory management scheme that allows the physical memory used by a program to be non-contiguous. This also helps avoid the problem of memory fragmentation and requiring compaction to reduce fragmentation.

Paging is often combined with the related technique of allocating and freeing page frames and storing pages on and retrieving them from secondary storage in order to allow the aggregate size of the address spaces to exceed the physical memory of the system. For historical reasons, this technique is sometimes referred to as swapping.

When combined with virtual memory, it is known as paged virtual memory.

In this scheme, the operating system retrieves data from secondary storage in blocks of the same size (pages).

Paging is an important part...

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