

Segmentation In Operating System

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. As of 2000, iRMX is supported, maintained, and licensed worldwide by TenAsys Corporation, under an exclusive licensing arrangement with Intel. Segments usually correspond to natural divisions of a program such as individual routines or data tables so segmentation is generally more visible to the programmer than paging alone. Segments may be created for program modules, or for classes of memory usage such as code segments and data segments. Certain segments may be shared between programs. Different approaches to segmentation exist depending on the market context. Business-to-business (B2B) marketers may segment markets based on company type, industry, or geographic location, while business-to-consumer (B2C) marketers often segment customers by demographic, behavioral, lifestyle, or socioeconomic criteria.

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Operating system Other specialized classes of operating systems (special-purpose operating systems) An operating system (OS) is system software that manages computer hardware and software resources, and provides common services for computer programs. dominant in the server and supercomputing sectors and number in the thousands 4eaddf53be

Text segmentation The term applies both to mental processes used by humans when reading text, and to artificial processes implemented in computers, which are the subject of natural language processing. The problem is non-trivial, because while some written languages have explicit word boundary markers, such as the word spaces of written English and the distinctive initial, medial and final letter shapes of Arabic, such signals are sometimes ambiguous and not present in all written languages. processing systems and text segmentation tools usually operate on text in specific domains and sources. As an example, processing text used in medical records Text segmentation is the process of dividing written text into meaningful units, such as words, sentences, or topics 4eaddf53be

Memory management (operating systems) In operating systems, memory management is the function responsible for managing the computer's primary memory. The memory management function keeps track In operating systems, memory management is the function responsible for managing the computer's primary memory 4eaddf53be

When segmenting markets, researchers typically examine common characteristics such as shared needs, interests, lifestyles, or demographic profiles. The goal is to identify high-yield segments—those likely to be the most profitable or exhibiting growth potential—so they can be prioritized as target markets. 4eaddf53be

List of security-focused operating systems Computer security Comparison of operating systems Comparison of mobile operating systems Security This is a list of operating systems specifically focused on security. Similar concepts include security-evaluated operating systems that have achieved certification from an auditing organization, and trusted operating systems that provide sufficient support for multilevel security and evidence of correctness to meet a particular set of requirements. segmentation of applications into secure virtual machines 4eaddf53be

== Segmentation problems == 4eaddf53be

RMX (operating system) (iRMX) is a real-time operating system designed for use with the Intel 8080 and 8086 family of processors. Intel developed iRMX in the 1970s and originally Real-time Multitasking eXecutive (iRMX) is a real-time operating system designed for use with the Intel 8080 and 8086 family of processors 4eaddf53be

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 supercomputers. 4eaddf53be As of November 2025, Android is the most popular operating system, with a 38% market share, followed by Microsoft Windows at 33%, iOS and iPadOS at 15%, macOS at 4%, and Linux at 1%. Android, iOS, and iPadOS are operating systems for mobile devices such as smartphones, while Windows, macOS, and Linux are for desktop computers. Linux distributions are dominant in the server and supercomputing... 4eaddf53be ==

Memory management techniques == 4eaddf53be

Memory segmentation In a computer Memory segmentation is an operating system memory management technique of dividing a computer's primary memory into segments or sections. In a computer system using segmentation, a reference to a memory location includes a value that identifies a segment and an offset (memory location) within that segment. Memory segmentation is an operating system memory management technique of dividing a computer's primary memory into segments or sections. Segments or sections are also used in object files of compiled programs when they are linked together into a program image and when the image is loaded into memory 4eaddf53be

iRMX is a layered design: containing a kernel, nucleus, basic I/O system, extended I/O system and human interface. An installation need include only the components required: intertask synchronization, communication subsystems, a filesystem, extended memory management, command shell, etc. The native filesystem is specific to iRMX, but has many similarities to the original... 4eaddf53be In a system using segmentation, computer memory addresses consist of a segment id and an offset

within the segment...

Market segmentation The objective is to identify profitable and growing segments that a company can target with tailored marketing strategies. In marketing, market segmentation or customer segmentation is the process of dividing a consumer or business market into meaningful sub-groups of current In marketing, market segmentation or customer segmentation is the process of dividing a consumer or business market into meaningful sub-groups of current or potential customers, known as segments

Compare speech segmentation, the process of dividing speech into linguistically meaningful portions. This is distinct from application memory management, which is how a process manages the memory assigned to it by the operating system. Market segmentation assumes that different market segments require different marketing programs – that is, different offers, prices, promotions, distribution, or some combination of marketing variables. Market segmentation is not only designed to identify... Segmentation faults are a common class of error in programs written in languages that support pointers that

can be null, or that can be set to an arbitrary value, or that support arrays, and in which few to no memory checks are performed. They arise primarily due to errors in use of pointers for virtual memory addressing. Another type of memory access error is a bus error, which also has various causes, but is today... 4eaddf53be The critical code of the kernel is usually loaded into a separate area of memory, which is protected from access by application software or other less critical parts of the operating system. The kernel performs its tasks, such as scheduling processes, managing... 4eaddf53be The THE system apparently introduced the first forms of software-based paged virtual memory (the Electrologica X8 did not support hardware-based memory management), freeing programs from being forced to use physical locations on the drum memory. It did this by using a modified ALGOL compiler (the only programming language supported by Dijkstra's system) to "automatically generate calls to system routines, which made sure the requested information was in memory, swapping if necessary". Paged virtual memory was also used for buffering input/output (I/O) device data, and for a significant portion of the operating system... 4eaddf53be The functional specification for RMX/86 was authored by Bruce Schafer and Miles Lewitt and was completed in the summer of 1978 soon after Intel relocated the entire Multibus business from Santa Clara, California to Aloha, Oregon. Schafer and Lewitt

went on to each manage one of the two teams that developed the RMX/86 product for release on schedule in 1980.

THE multiprogramming system kernel into layers was similar in some ways to Multics; later ring-segmentation model. Dijkstra, described in monographs in 1965-66 and published in 1968. Several subsequent operating systems have used layering to some extent The THE multiprogramming system (THE OS) was a computer operating system designed by a team led by Edsger W

Dijkstra never named the system; "THE" is simply the abbreviation of "Technische Hogeschool Eindhoven", then the name (in Dutch) of the Eindhoven University of Technology of the Netherlands. The THE system was primarily a batch system that supported multitasking; it was not designed as a multi-user operating system. It was much like the SDS 940, but "the set of processes in the THE system was static".

Kernel (operating system) The kernel is also responsible for preventing and mitigating conflicts between different processes. The kernel is also responsible for A kernel is a

computer program at the core of a computer's operating system that always has complete control over everything in the system. On most systems, the kernel is one of the first programs loaded on startup (after the bootloader). It is the portion of the operating system that is always resident in memory and facilitates interactions between hardware and software components. A full kernel controls all hardware resources (e. g. I/O, memory, cryptography) via device drivers, arbitrates conflicts between processes concerning such resources, and optimizes the use of common resources, such as CPU, cache, file systems, and network sockets. It handles the rest of startup as well as memory, peripherals, and input/output (I/O) requests from software, translating them into data-processing instructions for the central processing unit.

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Intel developed iRMX in the 1970s and originally released RMX/80 in 1976 and RMX/86 in 1980 to support and create demand for their processors and Multibus system platforms. Segmentation was originally invented as a method by which system software could isolate software processes (tasks) and data they are using. It was intended to increase reliability of the systems running multiple processes

simultaneously. 4eaddf53be == Hardware implementation == 4eaddf53be

Segmentation fault Processes can in some cases install a custom signal handler, allowing them to recover on their own, but otherwise the OS default signal handler is used, generally causing abnormal termination of the process (a program crash), and sometimes a core dump. The operating system kernel will, in response, usually perform some corrective action, generally passing the fault on to the offending process by sending the process a signal. On Unix-like operating systems, a signal called In computing, a segmentation fault (often shortened to segfault) or access violation is a failure condition raised by hardware with memory protection, notifying an operating system (OS) that the software has attempted to access a restricted area of memory (a memory access violation). On standard x86 computers, this is a form of general protection fault. Different operating systems have different signal names to indicate that a segmentation fault has occurred 4eaddf53be

== Overview == 4eaddf53be == Linux == 4eaddf53be The memory management function keeps track of the status of each memory location, either allocated or free. It determines how memory is allocated among competing processes, deciding which

gets memory, when they receive it, and how much they are allowed. When memory is allocated it determines which memory locations will be assigned. It tracks when memory is freed or unallocated and updates the status. 4eaddf53be

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