

Unit 25 Maintaining Computer Systems

In later years, ICL diversified its product line but the bulk of its profits always came from its mainframe customers. New ventures included marketing a range of powerful IBM clones made by Fujitsu, various minicomputer and personal computer ranges and (more successfully) a range of retail point-of-sale equipment and back-office software. Although it had significant sales overseas, ICL's mainframe business... 51ddb247a3

Word (computer architecture) In most computers, the unit is either a character (e. A word is a fixed-sized datum handled as a unit by the instruction set or the hardware of the processor. a byte) or a word. (A few computers have used bit resolution In computing, a word is any processor design's natural unit of data. this unit is the unit of address resolution. g. The number of bits or digits in a word (the word size, word width, or word length) is an important characteristic of any specific processor design or computer architecture 51ddb247a3

Central processing unit Its electronic A central processing unit (CPU), also called a central processor, main processor, or just processor, is the primary processor in a given computer. Its electronic circuitry executes instructions of a computer program, such as arithmetic, logic, controlling, and input/output (I/O) operations. This role contrasts with that of external components, such as main memory and I/O circuitry, and specialized coprocessors such as graphics processing units (GPUs). central processing unit (CPU), also called a central processor, main processor, or just processor, is the primary processor in a given computer 51ddb247a3

Institutional or corporate computer owners in the 1960s had to write their own programs to do any useful work with computers. While... 51ddb247a3 A computer information system is a system, which consists of people and computers that process or interpret information. The term is also sometimes used to simply refer to a computer system with software installed. 51ddb247a3

Homebuilt computer Like mass-produced computers, barebones systems and computer kits are often targeted to particular types A custom built or home-built computer is a computer assembled by its user and made of commercial off-the-shelf (COTS) components, rather than purchased as a complete and ready to use machine, also known as a "pre-built" or out-of-the-box system. Memory, peripheral devices, and operating system) 51ddb247a3

Home-built computers are often used at home, like home computers, but home computers are traditionally purchased already assembled by... 51ddb247a3 Algorithms and data structures are central to computer science. 51ddb247a3 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... 51ddb247a3 "Information systems" is also an academic field... 51ddb247a3 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. 51ddb247a3 The theory of computation concerns abstract models of computation and general classes of problems that can be solved using them. The fields of cryptography and computer security involve studying the means for secure communication and preventing security vulnerabilities. Computer graphics and computational geometry address the generation of images. Programming language theory considers different ways to describe computational processes, and database theory... 51ddb247a3

Computer architecture It can sometimes In computer science and computer engineering, a computer architecture is the structure of a computer system made from component parts. At a more detailed level, the description may include the instruction set architecture design, microarchitecture design, logic design, and implementation. It can sometimes be a high-level description that ignores details of the implementation. In computer science and computer engineering, a computer architecture is the structure of a computer system made from component parts 51ddb247a3

Building a computer at home is generally considered a cost-effective alternative to buying a pre-built one because it excludes the assembly labor cost. However, the total cost of building a computer can vary based on an individual's budget, the quality and availability of the parts used, and the discounts offered by mass production. As a result, the final cost may potentially exceed that of typical pre-built computers. 51ddb247a3 The size of a word is reflected in many aspects of a computer's structure and operation; the majority of the registers in a processor are usually word-sized and the largest datum that can be transferred to and from the working memory in a single operation is a word in many (not all) architectures. The largest possible address size, used to designate a location in memory, is typically a hardware word (here, "hardware word" means the full-sized natural... 51ddb247a3

Information system From a sociotechnical perspective, information systems comprise four components: task, people, structure (or roles), and technology. simply refer to a computer system with software installed. "Information systems" is also an academic field of study about systems with a specific reference An information system (IS) is a formal, sociotechnical, organizational system designed to collect, process, store, and distribute information. Information systems can be defined as an integration of components for collection, storage and processing of data, comprising digital products that process data to facilitate decision making and the data being used to provide information and contribute to knowledge 51ddb247a3

Personal computer Business computers acquired color graphics capability and sound, and home computers and game systems users used the same processors and operating systems as A personal computer, commonly referred to as PC or computer, is a computer designed for individual use. It is typically used for tasks such as word processing, internet browsing, email, multimedia playback, and gaming. The term home computer has also been used, primarily in the late 1970s and 1980s. Unlike large, costly minicomputers and mainframes, time-sharing by many people at the same time

is not used with personal computers. Personal computers are intended to be operated directly by an end user, rather than by a computer expert or technician. The advent of personal computers and the concurrent Digital Revolution have significantly affected the lives of people 51ddb247a3

International Computers Limited The company's most successful product line was the ICL 2900 Series range of mainframe computers. During the mid-1980s, separate Office Systems business units had International Computers Limited (ICL) was a British computer hardware, computer software and computer services company that operated from 1968 until 2002. departmental computers under the DRS brand, standing originally for Distributed Resource System. It was formed through a merger of International Computers and Tabulators (ICT), English Electric Computers (EEC) and Elliott Automation in 1968 51ddb247a3

High-performance SoCs are often paired with dedicated memory, such as LPDDR, and flash storage chips, such as eUFS or eMMC, which may be stacked directly on top of the SoC in a package-on-package (PoP) configuration or placed nearby on the motherboard. Some... 51ddb247a3

Operating system Operating systems are found on many devices that contain a computer - from cellular An operating system (OS) is system software that manages computer hardware and software resources, and provides common services for computer programs. frequently makes system calls to an OS function or is interrupted by it 51ddb247a3

The form, design, and implementation of CPUs have changed over time, but their fundamental operation remains almost unchanged. Principal components of a CPU include the arithmetic-logic unit (ALU) that performs arithmetic and logic operations, processor registers that supply operands to the ALU and store the results of ALU operations, and a control... 51ddb247a3

Computer science Computer architecture describes Computer science is the study of computation, information, and automation. Computer science spans theoretical disciplines (such as algorithms, theory of computation, and information theory) to applied disciplines (including the design and implementation of hardware and software). Areas such as operating systems, networks and embedded systems investigate the principles and design behind complex systems 51ddb247a3

System on a chip This high level of integration minimizes the need for separate, discrete components, thereby enhancing power efficiency and simplifying device design. Typically, an SoC includes a central processing unit (CPU) with memory, input/output, and data storage control functions, along with optional features like a graphics processing unit (GPU), Wi-Fi connectivity, and radio frequency processing. A system on a chip (SoC) is an integrated circuit that combines most or all key components of a computer or electronic system onto a single microchip A system on a chip (SoC) is an integrated circuit that combines most or all key components of a computer or electronic system onto a single microchip 51ddb247a3

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