

Computer Hardware And Software

Previous Question Papers

The first aids to computation were purely mechanical devices which required the operator to set up the initial values of an elementary arithmetic operation, then manipulate the device to obtain the result. In later stages, computing devices began representing numbers in continuous forms, such as by distance along a scale, rotation of a shaft, or a specific voltage level. Numbers could also be represented in the form of digits, automatically manipulated by a mechanism. Although this approach generally required more complex mechanisms, it greatly increased the precision of results. The development...

Software patent A software patent is a patent on a piece of software, such as a computer program, library, user interface, or algorithm. This gray area, along with the difficulty of patent evaluation for intangible, technical works such as libraries and algorithms, makes software patents a frequent subject of controversy and litigation. The validity of these patents can be difficult to evaluate, as software is often at once a product of engineering, something typically eligible for patents, and an abstract concept, which is typically not. The validity of these patents A software patent is a patent on a piece of software, such as a computer program, library, user interface, or algorithm

Security tokens can be used to store information such as passwords, cryptographic keys used to generate digital signatures, or biometric data (such as fingerprints). Some designs incorporate tamper resistant packaging, while others may include small keypads to allow entry of a PIN or a simple button to start a generation routine with some display capability to show a generated key number. Connected tokens utilize a variety... Different jurisdictions have radically different policies concerning software patents, including a blanket ban, no restrictions, or attempts to distinguish between purely mathematical constructs and "embodiments" of these constructs. For example, an algorithm itself may be... The company's Acorn Electron, released in 1983, and the later Acorn Archimedes, were highly popular in Britain, while Acorn's BBC Micro computer dominated the educational computer market during the 1980s. The company also designed the ARM architecture and the RISC OS operating system for it. The architecture part of the business was spun-off as Advanced RISC Machines under a joint venture with Apple and VLSI in 1990,...

Open-source software Open-source software may be developed in a collaborative, public manner. Open-source software is a prominent example of open collaboration, meaning any capable user is able to participate online in development, making the number of possible contributors indefinite. The ability to examine the code facilitates public trust in the software. software (OSS) is computer software that is released under a license in which the copyright holder grants users the rights to use, study, change, and Open-source software (OSS) is computer software that is released under a license in which the copyright holder grants users the rights to use, study, change, and distribute the software and its source code to anyone and for any purpose

Software-defined networking commodity servers to run network services software versions that previously were hardware-based. However, centralization has certain drawbacks related. These software-based services that run in an NFV environment Software-defined networking (SDN) is an approach to network management that uses abstraction to enable dynamic and programmatically efficient network configuration to create grouping and segmentation while improving network performance and monitoring in a manner more akin to cloud computing than to traditional network management. SDN is meant to improve the static architecture of traditional networks and may be employed to centralize network intelligence in one network component by disassociating the forwarding process of network packets (data plane) from the routing process (control plane). The control plane consists of one or more controllers, which are considered the brains of the SDN network, where the whole intelligence is incorporated

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Open-source hardware mechanical drawings, schematics, bills of material, PCB layout data, HDL source code and integrated circuit layout data), in addition to the. e. It is sometimes, thus, referred to as free and open-source hardware (FOSH), meaning that the design is easily available ("open") and that it can be used, modified and shared freely ("free"). The term usually means that information about the hardware is easily discerned so that others can make it - coupling it closely to the maker movement. Hardware design (i. Both free and open-source software (FOSS) and open-source hardware are created by this open-source culture movement and apply a like concept to a variety Open-source hardware (OSH, OSHW) consists of physical artifacts of technology designed and offered by the open-design movement. Both free and open-source software (FOSS) and open-source hardware are created by this open-source culture movement and apply a like concept to a variety of components 3b7593b8b2

Acorn Computers was a British computer company established in Cambridge, England in 1978 by Hermann Hauser, Chris Curry and Andy Hopper. The company produced a number of computers during the 1980s with associated software that were highly popular in the domestic market, and they have been historically influential in the development of computer technology like processors. company produced a number of computers during the 1980s with associated software that were highly popular in the domestic market, and they have been historically Acorn Computers Ltd 3b7593b8b2

Computer Go In 1998, very strong players were able to beat computer programs while giving handicaps of 25-30 stones Computer Go is the field of artificial intelligence (AI) dedicated to creating a computer program that plays the traditional board game Go. The field is sharply divided into two eras. Creation of a human professional quality program with the techniques and hardware of the time was out of reach. Many of the algorithms such as alpha-beta minimax that performed well as AIs for checkers and chess fell apart on Go's 19x19 board, as there were too many branching possibilities to consider. Professionals could defeat these programs even given handicaps of 10+ stones in favor of the AI. in 2003, after substantial improvements in hardware. Some AI. Before 2015, the programs of the era were weak. The best efforts of the 1980s and 1990s produced only AIs that could be defeated by beginners, and AIs of the early 2000s were intermediate level at best 3b7593b8b2

Security token Examples of security tokens include wireless key cards used to open locked doors, a banking token used as a digital authenticator for signing in to online banking, or signing transactions such as wire transfers. The dongle is placed in an input device and the software accesses A security token is a peripheral device used to gain access to an electronically restricted resource. the hardware dongle required by some computer programs to prove ownership of the software. The token is used in addition to, or in place of, a password 3b7593b8b2

Coleco Adam The computer came with 64 KB of memory, a tape drive for a proprietary medium called Digital Data Packs, a daisy wheel printer, and productivity applications, along with two DDPs for SmartBASIC and Buck Rogers: Planet of Zoom Super Game. As such, it had the benefit of being entirely compatible with all ColecoVision games and peripherals. The Adam was an attempt to follow on the success of the company's ColecoVision video game console. bundled hardware, and compatibility with ColecoVision and CP/M software, the magazine compared the Adam's potential impact on the home-computer industry The Coleco Adam is a home computer and expansion device for the ColecoVision by American toy and video game manufacturer Coleco. It was available as Expansion Module #3 for the ColecoVision, converting it into a home computer, and as a standalone unit. It was released in October 1983 with the initial price of \$700 3b7593b8b2

Open-source software development can bring in diverse perspectives beyond those of a single company. A 2024 estimate of the value of open-source software to firms is \$8.8 trillion, as firms would need to spend 3.5 times the... 3b7593b8b2 Although its presentation and concept were positively... 3b7593b8b2

History of computing hardware history of computing hardware spans the developments from early devices used for simple calculations to today's complex computers, encompassing advancements The history of computing hardware spans the developments from early devices used for simple calculations to today's complex computers, encompassing advancements in both analog and digital technology 3b7593b8b2

Phoebe (computer) However, in September 1998, Acorn cancelled the project as part of a restructuring of the company. designed to load on Acorn's previous generation RiscPC and A7000 computers. This would enable developers to test that their software would be compatible with The Phoebe 2100 (or RiscPC 2) was to be Acorn Computers' successor to the RiscPC, slated for release in late 1998 3b7593b8b2

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