List of Data Processing Systems Architecture questions in alphabetical order

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For what purpose were cache memories introduced in processors? To minimize the time the processor spends retrieving recently used data.

What is the GANTT chart? It is a horizontal bar diagram that graphically represents the temporal relationships between the different activities of a project.

What is a fault-tolerant system? It is a system designed in such a way that in the event that a part of it malfunctions, an alternative procedure is automatically activated ensuring that there is no loss of service.

What does an incremental backup do? Save files that have changed since the last full backup.

What is system analysis? The creation of a formal model of the problem to be solved.

What is the address space of a CPU? The size of the memory area directly addressable by the CPU.

What does the term "I/O device" mean? A unit that allows the acquisition and transmission of data.

What does RAID mean? Redundant Array of Independent Disks: technology that involves the use of many hard disks, seen by networked computers as a single one, to allow secure data management.

The experimentation (as far as possible) of all operating conditions is typical of which phase of the life cycle of an information system? Goodwill.

Regular saving and monitoring operations are typical of which phase of the life cycle of an information system? Management.

Embedded systems are.... Dedicated processing systems with specific software in which part of the functions are implemented in hardware.

The BIOS, or basic input/output system, is a code resident in the PC, whose main task is to: Allow the exchange of information between the PC hardware and the OS.

The FLOP.... is a measurement of calculation in the scientific field (floating point computations per second).

In which operating mode of a PC Operating System does the malfunction of a process not cause the system to crash? Protected Mode.

Indicate which of the following definitions does NOT describe an information system. Operating System (OS).

The ALU (Arithmetic-Logical Unit) is a unit internal to the processor: In which mathematical and logical operations are performed between data.

Formatting a magnetic disk is.... The set of operations that must be performed on the disk for it to be recognized and used by a computer.

The speed of a computer depends on: Various factors, including the frequency of the processor and its internal architecture.

Direct memory access (DMA): Allows you to transfer data directly from main memory to other drives without the data passing through the CPU.

The antivirus must be updated.... Periodically.

The components of the Central Processing Unit are: ALU and Control Unit.

In the context of an information processing system, which of the following is a correct definition for Transfer Rate? The speed at which data is transferred from the central unit to the hard disk.

When choosing the password you should preferably use.... A word not commonly used.

In spooling: A process, after making a request to the operating system, can proceed without waiting for it to be answered.

"Tuning" normally refers to the activity that analysts and system engineers carry out to: Optimize execution speed and resource consumption of a program or operating system.

Which hardware component, among those indicated, most influences the performance of the computer? Central memory.

Which of the following precautions should be taken in the event of frequent electricity outages? Frequent data backups and use of an uninterruptible power supply.

What is the octal (base 8) notation of the hexadecimal (base 16) number (3456)16? (32126)8.

Which of the following peripheral devices is normally connected to a parallel port? Printer.

Which of these computers has the most processing power? Minicomputers.

Which of these memory devices can have the highest capacity? Hard disk.

What types of software are called "scandisk"? System programs for verifying the integrity of the mapping of files on a disk.

How much information can be expressed with 4 tristable elements (i.e. having 3 distinct states)? 81.

How much information can be represented with 16 bits? 65536.

You are planning to deploy a new Windows NT Server and want to ensure that the file system has enough space to operate without interfering with user files and applications. Which of the following partition configurations best meets your needs? Create multiple partitions; one containing the system files, one the applications and finally one for the user data.

What characteristics does the clock frequency (e.g. 300 MHz) of a processor affect? The calculation speed.

Typically the management of a microprocessor stack is of the type.... LIFO - Last In First Out.

A multiprocessor system is.... A system where multiple processors cooperate in its operation.

A RAM memory that has 12 address wires, 16 data wires and does not use multiplexing techniques contains: 65536 bits.

A PIPELINED architecture is: An architecture that allows the execution phases of one instruction to overlap with those of the next.