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Parallel computing

with multiple cores. The core is the computing unit of the processor and in multi-core processors each core is independent and can access the same memory

Parallel computing is a type of computation in which many calculations or processes are carried out simultaneously. Large problems can often be divided into smaller ones, which can then be solved at the same time. There are several different forms of parallel computing: bit-level, instruction-level, data, and task parallelism. Parallelism has long been employed in high-performance computing, but has gained broader interest due to the physical constraints preventing frequency scaling. As power consumption (and consequently heat generation) by computers has become a concern in recent years, parallel computing has become the

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dominant paradigm in computer architecture, mainly in the form of multi-core processors.

In computer science, parallelism and concurrency are two different things: a parallel...

State of Texas Assessments of Academic Readiness

and Social Studies test. Therefore, one would take an Algebra I test in order to pass Algebra I, and so on. During a speech at the Texas Association

The State of Texas Assessments of Academic Readiness, commonly referred to as its acronym STAAR (STAR), is a series of standardized tests used in Texas public primary and secondary schools to assess a student's achievements and knowledge learned in the grade level. It tests curriculum taught from the Texas Essential Knowledge and Skills, which in turn is taught by public schools. The test used to be developed by Pearson Education every school year, although the most recent contract gave Educational Testing Service a role in creating some of the tests, under the close supervision of the Texas Education Agency.

The test was announced because the Texas Assessment of Knowledge and Skills (commonly referred to by its acronym TAKS) assessment was repealed by Texas Senate Bill 1031 in

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spring 2007...

Glossary of computer science

computer algebra "Issue of syntax or semantics? John Paul Mueller, Semantic Errors in Java What is "technical documentation"? at Transcom.de. Accessed February

This glossary of computer science is a list of definitions of terms and concepts used in computer science, its sub-disciplines, and related fields, including terms relevant to software, data science, and computer programming.

Boolean data type

two truth values of logic and Boolean algebra. It is named after George Boole, who first defined an algebraic system of logic in the mid 19th century

In computer science, the Boolean (sometimes shortened to Bool) is a data type that has one of two possible values (usually denoted true and false) which is intended to represent the two truth values of logic and Boolean algebra. It is named after George Boole, who first

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defined an algebraic system of logic in the mid 19th century. The Boolean data type is primarily associated with conditional statements, which allow different actions by changing control flow depending on whether a programmer-specified Boolean condition evaluates to true or false. It is a special case of a more general logical data type—logic does not always need to be Boolean (see probabilistic logic).

Computer program

components. A computer program in its human-readable form is called source code. Source code needs another computer program to execute because computers can only

A computer program is a sequence or set of instructions in a programming language for a computer to execute. It is one component of software, which also includes documentation and other intangible components.

A computer program in its human-readable form is called source code. Source code needs another computer program to execute because computers can only execute their native machine instructions. Therefore, source code may be translated to machine instructions using a compiler written for the language. (Assembly language programs are translated

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using an assembler.) The resulting file is called an executable. Alternatively, source code may execute within an interpreter written for the language.

If the executable is requested for execution, then the operating system loads it into memory and...

Concurrent computing

and Communicating Sequential Processes (CSP) were developed to permit algebraic reasoning about systems composed of interacting components. The π -calculus

Concurrent computing is a form of computing in which several computations are executed concurrently—during overlapping time periods—instead of sequentially—with one completing before the next starts.

This is a property of a system—whether a program, computer, or a network—where there is a separate execution point or "thread of control" for each process. A concurrent system is one where a computation can advance without waiting for all other computations to complete.

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Concurrent computing is a form of modular programming. In its paradigm an overall computation is factored into subcomputations that may be executed concurrently. Pioneers in the field of concurrent computing include Edsger Dijkstra, Per Brinch Hansen, and C.A.R. Hoare.

Software design pattern

2012-08-11. McConnell, Steve (2004). Code Complete: A Practical Handbook of Software Construction, 2nd Edition. Pearson Education. p. 105. ISBN 9780735619678

In software engineering, a software design pattern or design pattern is a general, reusable solution to a commonly occurring problem in many contexts in software design. A design pattern is not a rigid structure to be transplanted directly into source code. Rather, it is a description or a template for solving a particular type of problem that can be deployed in many different situations. Design patterns can be viewed as formalized best practices that the programmer may use to solve common problems when designing a software application or system.

Object-oriented design patterns typically show relationships and interactions between

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classes or objects, without specifying the final application classes or objects that are involved. Patterns that imply mutable state may be unsuited for functional...

C (programming language)

Automated source code checking and auditing tools exist, such as Lint. A common practice is to use Lint to detect questionable code when a program is

C is a general-purpose programming language. It was created in the 1970s by Dennis Ritchie and remains widely used and influential. By design, C gives the programmer relatively direct access to the features of the typical CPU architecture, customized for the target instruction set. It has been and continues to be used to implement operating systems (especially kernels), device drivers, and protocol stacks, but its use in application software has been decreasing. C is used on computers that range from the largest supercomputers to the smallest microcontrollers and embedded systems.

A successor to the programming language B, C was originally developed at Bell Labs by Ritchie between 1972 and 1973 to construct utilities running on Unix. It was applied to re-implementing the kernel of the Unix...

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Computing

Switching Circuits then introduced the idea of using electronics for Boolean algebraic operations. The concept of a field-effect transistor was proposed by Julius

Computing is any goal-oriented activity requiring, benefiting from, or creating computing machinery. It includes the study and experimentation of algorithmic processes, and the development of both hardware and software. Computing has scientific, engineering, mathematical, technological, and social aspects. Major computing disciplines include computer engineering, computer science, cybersecurity, data science, information systems, information technology, and software engineering.

The term computing is also synonymous with counting and calculating. In earlier times, it was used in reference to the action performed by mechanical computing machines, and before that, to human computers.

Computer

wearing out, making it less useful for heavy random access usage. However, it is also very

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common to construct supercomputers out of many pieces of cheap

A computer is a machine that can be programmed to automatically carry out sequences of arithmetic or logical operations (computation). Modern digital electronic computers can perform generic sets of operations known as programs, which enable computers to perform a wide range of tasks. The term computer system may refer to a nominally complete computer that includes the hardware, operating system, software, and peripheral equipment needed and used for full operation; or to a group of computers that are linked and function together, such as a computer network or computer cluster.

A broad range of industrial and consumer products use computers as control systems, including simple special-purpose devices like microwave ovens and remote controls, and factory devices like industrial robots. Computers...

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