

Programmable Logic Controllers University Of

Functions (SQRT(), SIN()) 1acd86e3a4 A :- B1, ..., Bn. 1acd86e3a4 the model, the internal representations of information 1acd86e3a4

Logic programming In all of these languages, rules are written in the form of clauses:. Logic programming is a programming, database and knowledge representation paradigm based on formal logic. Computation is performed by applying logical reasoning to that knowledge, to solve problems in the domain. A logic program is a set of sentences in logical Logic programming is a programming, database and knowledge representation paradigm based on formal logic. A logic program is a set of sentences in logical form, representing knowledge about some problem domain. Major logic programming language families include Prolog, Answer Set Programming (ASP) and Datalog 1acd86e3a4

A if B1 and ... and Bn. 1acd86e3a4 A is called the head of the rule, B1, ..., Bn is called the body, and the Bi are called literals or conditions. When n = 0, the rule is called a fact and is written in the simplified form: 1acd86e3a4

Business logic In computer software, business logic or domain logic is the part of the program that encodes the real-world business rules that determine how data can In computer software, business logic or domain logic is the part of the program that encodes the real-world business rules that determine how data can be created, stored, and changed. It is contrasted with the remainder of the software that might be concerned with lower-level details of managing a database or displaying the user interface, system infrastructure, or generally connecting various parts of the program 1acd86e3a4

Video display controller Some VDCs also generate an audio signal, but that is not their main function. programmable logic meant that the capabilities of early PLA-based systems were often less impressive than those using the video interface controllers A video display controller (VDC), also called a display engine or display interface, is an integrated circuit which is the main component in a video-signal generator, a device responsible for the production of a TV video signal in a computing or game system 1acd86e3a4

and are read as declarative sentences in logical form: 1acd86e3a4 the controller, the software linking the two. 1acd86e3a4 Iteration loops (REPEAT-UNTIL; WHILE-DO) 1acd86e3a4 Ladder logic has evolved into a programming language that represents a program by a graphical diagram based on the circuit diagrams of relay logic hardware. Ladder logic is used to develop software for programmable logic controllers (PLCs) used in industrial control applications. The name is based on the observation that programs in this language resemble ladders, with two vertical rails and... 1acd86e3a4

Ladder logic diagrams of relay logic hardware. Each device in the relay rack would be represented by a symbol on the ladder diagram with connections between those devices shown. Ladder logic is used to develop software for programmable logic controllers (PLCs) used in industrial control applications Ladder logic was originally a written method to document the design and construction of relay racks as used in manufacturing and process control. In addition, other items external to the relay rack such as pumps, heaters,

and so forth would also be shown on the ladder diagram

VDCs were used in the home computers of the 1980s and also in some early video picture systems. Complex statements and nested instructions are supported: Logic gates can be cascaded... Queries (or goals) have... The primary way of building logic gates uses diodes or transistors acting as electronic switches. Today, most logic gates are made from MOSFETs (metal-oxide-semiconductor field-effect transistors). They can also be constructed using vacuum tubes, electromagnetic relays with relay logic, fluidic logic, pneumatic logic, optics, molecules, acoustics, or even mechanical or thermal elements. Conditional execution (IF-THEN-ELSE; CASE)

Structured text The variables and function calls are defined by the common elements so different languages within the IEC 61131-3 standard can be used in the same program. It is a high level language that is block structured and syntactically resembles Pascal, on which it is based. It is a high level Structured text, abbreviated as ST or STX, is one of the five languages supported by the IEC 61131-3 standard, designed for programmable logic controllers (PLCs). abbreviated as ST or STX, is one of the five languages supported by the IEC 61131-3 standard, designed for programmable logic controllers (PLCs). All of the languages share IEC61131 Common Elements

Industrial control system Control systems can range in size from a few modular panel-mounted controllers to large interconnected and interactive distributed control systems (DCSs) with many thousands of field connections. Control systems receive data from remote sensors measuring process variables (PVs), compare the collected data with desired setpoints (SPs), and derive command functions that are used to control a process through the final control elements (FCEs), such as control valves. control and data acquisition (SCADA) systems, or DCSs, and programmable logic controllers (PLCs), though SCADA and PLC systems are scalable down to small An industrial control system (ICS) is an electronic control system and associated instrumentation used for industrial process control

The VDC is the main component of the video signal generator logic, responsible for generating the timing of video signals such as the horizontal and vertical synchronization signals and the blanking interval signal. Sometimes other supporting chips were necessary to build a complete system, such as RAM to hold pixel data, ROM to hold character fonts, or some discrete...

Logic gate level Logical graph Magnetic logic NMOS logic Parametron Processor design Programmable logic controller (PLC) Programmable logic device (PLD) Propositional A logic gate is a device that performs a Boolean function, a logical operation performed on one or more binary inputs that produces a single binary output. Depending on the context, the term may refer to an ideal logic gate, one that has, for instance, zero rise time and unlimited fan-out, or it may refer to a non-ideal physical device (see ideal and real op-amps for comparison)

Traditionally used for desktop graphical user interfaces (GUIs), this pattern became popular for designing web applications. Popular programming languages have MVC frameworks that facilitate the implementation of the pattern.

Programmable logic controller A programmable logic controller (PLC) or programmable controller is an industrial computer that has been ruggedized and adapted for the

control of manufacturing A programmable logic controller (PLC) or programmable controller is an industrial computer that has been ruggedized and adapted for the control of manufacturing processes, such as assembly lines, machines, robotic devices, or any activity that requires high reliability, ease of programming, and process fault diagnosis

Larger systems are usually implemented by supervisory control and data acquisition (SCADA) systems, or DCSs, and programmable logic controllers (PLCs), though SCADA and PLC systems are scalable down... PLCs can range from small modular devices with tens of inputs and outputs (I/O), in a housing integral with the processor, to large rack-mounted modular devices with thousands of I/O, and which are often networked to other PLC and SCADA systems. They can be designed for many arrangements of digital and analog I/O, extended temperature ranges, immunity to electrical noise, and resistance to vibration and impact.

Model-view-controller These elements are: Model-view-controller (MVC) is a software architectural pattern commonly used for developing user interfaces that divides the related program logic into three Model-view-controller (MVC) is a software architectural pattern commonly used for developing user interfaces that divides the related program logic into three interconnected elements

the view, the interface that presents information to and accepts it from the user PLCs were first developed in the automobile manufacturing industry...

Field-programmable gate array They consist of a grid-connected array of programmable logic blocks that A field-programmable gate array (FPGA) is a type of configurable integrated circuit that can be repeatedly programmed after manufacturing. FPGAs are a subset of logic devices referred to as programmable logic devices (PLDs). Other applications for FPGAs include the telecommunications, automotive, aerospace, and industrial sectors, which benefit from their flexibility. FPGAs are often used in limited (low) quantity production of custom-made products, and in research and development, where the higher cost of individual FPGAs is not as important and where creating and manufacturing a custom circuit would not be feasible. They consist of a grid-connected array of programmable logic blocks that can be configured "in the field" to interconnect with other logic blocks to perform various digital functions. are a subset of logic devices referred to as programmable logic devices (PLDs)

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