

Embedded Linux Primer 2nd Edition

The BIOS in older PCs initializes and tests the system hardware... Originally specified in the late 1950s, it is the second-oldest high-level programming language still in common use, after Fortran. Lisp has changed since its early days, and many dialects have existed over its history. Today, the best-known general-purpose Lisp dialects are Common Lisp, Scheme, Racket, and Clojure.

SystemC These facilities enable a designer to simulate concurrent processes, each described using plain C++ syntax. ISBN 1-4020-7072-1 A SystemC based Linux Live CD with C++/SystemC tutorial J. SystemC processes can communicate in a simulated real-time environment, using signals of all the datatypes offered by C++, some additional ones offered by the SystemC library, as well as user defined. Bhasker, A SystemC Primer, Second Edition, Star Galaxy Publishing, 2004. In certain respects, SystemC deliberately mimics the hardware description languages VHDL and Verilog, but is more aptly described as a system-level modeling language. ISBN 0-9650391-2-9 SystemC is a set of C++ classes and macros which provide an event-driven simulation interface (see also discrete event simulation)

The term is also used more generally to mean the automated mode of running an operating system shell; each operating system uses a particular name for these functions including batch files (MSDos-Win95 stream, OS/2), command procedures (VMS), and shell scripts (Windows NT stream and third-party derivatives like 4NT—article is at cmd.exe), and mainframe operating systems are associated with...

Goto exception handling within the C language. At the machine code level, a goto is a form of branch or jump statement, in some cases combined with a stack adjustment. It performs a one-way transfer of control to another line of code; in contrast a function call normally returns control. The jumped-to locations are usually identified using labels, though some languages use line numbers. Other programmers, including Linux kernel designer and coder Linus Torvalds or software engineer and book author Goto is a statement found in many computer programming languages. Many languages support the goto statement, and many do not (see § language support)

The structured program theorem proved that the goto statement is not necessary to write programs that can be expressed as flow charts; some combination of the three programming constructs of sequence, selection/choice, and repetition/iteration are sufficient for any computation that can be performed by a... SystemC is applied to system-level modeling, architectural exploration, performance modeling, software development, functional verification, and high-level synthesis. SystemC is often associated...

AWK Like sed and grep, it is a filter, and it is a standard feature of most Unix-like operating

systems. 5 from The Open Group `gawk`(1) – Linux User Manual – User Commands Wikibooks has a book on the topic of: An Awk Primer The Amazing Awk Assembler by Henry AWK () is a scripting language designed for text processing and typically used as a data extraction and reporting tool

The name originates from the Basic Input/Output System used in the CP/M operating system in 1975. The BIOS firmware was originally proprietary to the IBM PC; it was reverse engineered by some companies (such as Phoenix Technologies) looking to create compatible systems. The interface of that original system serves as a de facto standard. Although MATLAB is intended primarily for numeric computing, an optional toolbox uses the MuPAD symbolic engine allowing access to symbolic computing abilities. An additional package, Simulink, adds graphical multi-domain simulation and model-based design for dynamic and embedded systems. As of 2020, MATLAB has more than four million users worldwide. They come from various backgrounds of engineering, science, and economics. As of 2017, more than 5000 global colleges and universities...

Google Web Toolkit When needed, JavaScript can also be embedded directly into Java code using Java comments. optionally obfuscated and deeply optimized. It is licensed under Apache License 2. GWT does not revolve only Google Web Toolkit (GWT), or GWT Web Toolkit, is an open-source set of tools that allows web developers to create and maintain JavaScript front-end applications in Java

Ruby (programming language) Ruby 3. It was designed with an emphasis on programming productivity and simplicity. It was developed in the mid-1990s by Yukihiro "Matz" Matsumoto in Japan. In Ruby, everything is an object, including primitive data types. 3 was released on 25 December 2023. Ruby 3. the YJIT, a Rust-based JIT compiler now supports more architectures on Linux. 3 introduces significant Ruby is a general-purpose programming language

MATLAB graphical multi-domain simulation and model-based design for dynamic and embedded systems. MATLAB allows matrix manipulations, plotting of functions and data, implementation of algorithms, creation of user interfaces, and interfacing with programs written in other languages. As of 2020[update], MATLAB has more than four million users worldwide MATLAB (Matrix Laboratory) is a proprietary multi-paradigm programming language and numeric computing environment developed by MathWorks

Shell script The various dialects of shell scripts are considered to be command languages. Wicked Cool Shell Scripts, 2nd Edition: 101 Scripts for Linux, OS X and UNIX Systems. No Starch Press. Typical operations performed by shell scripts include file manipulation, program execution, and printing text. ISBN 9781593276027 A shell script is a computer program designed to be run by a Unix shell, a command-line interpreter. A script which sets up the environment, runs the program, and does any necessary cleanup or logging, is called a wrapper. Brandon (December 16, 2016)

Lisp (programming language) particularly popular for embedded scripting. Examples include SIOD

and TinyScheme, both of which have been successfully embedded in the GIMP image processor Lisp (historically LISP, an abbreviation of "list processing") is a family of programming languages with a long history and a distinctive, fully parenthesized prefix notation

The AWK language is a data-driven scripting language consisting of a set of actions to be taken against streams of textual data – either run directly on files or used as part of a pipeline – for purposes of extracting or transforming text, such as producing formatted reports. The language extensively uses the string datatype, associative arrays (that is, arrays indexed by key strings), and regular expressions. While AWK has a limited intended application domain and was especially designed to support one-liner programs, the language is Turing-complete, and even the early Bell... GWT supports various web development tasks, such as asynchronous remote procedure calls, history management, bookmarking, UI abstraction, internationalization, and cross-browser portability. Ruby is interpreted, high-level, and dynamically typed; its interpreter uses garbage collection and just-in-time compilation. It supports multiple programming paradigms, including procedural, object-oriented, and functional programming. According to the creator, Ruby was influenced by Perl, Smalltalk, Eiffel, Ada, BASIC, and Lisp. Lisp was originally created as a practical mathematical notation for computer programs, influenced by (though not originally derived from) the notation of Alonzo Church's lambda calculus. It quickly became a favored programming language for artificial intelligence (AI) research. As one of the earliest programming...

Fuchsia (operating system) It publicly debuted as a Google-hosted git repository in August 2016 without any official corporate announcement. In contrast to Google's Linux-based operating systems such as ChromeOS and Android, Fuchsia is based on a custom kernel named Zircon. for cars, embedded devices like traffic lights, digital watches, smartphones, tablets, and PCs. After years of development, its official product launch was in 2021 on the first-generation Google Nest Hub, replacing its original Linux-based Cast OS. Its architecture differs entirely from the Linux-based Android Fuchsia is an open-source capability-based operating system developed by Google

BIOS On a computer using BIOS firmware, the firmware comes pre-installed on the computer's motherboard. Retrieved 2020-11-10. BIOS: A UEFI Primer. Retrieved 2013-06-03. Archived from the In computing, BIOS (, BY-oss, -ohss; Basic Input/Output System, also known as the System BIOS, ROM BIOS, BIOS ROM or PC BIOS) is a type of firmware used to provide runtime services for operating systems and programs and to perform hardware initialization during the booting process (power-on startup). Booting · Linux Inside. PCWorld. io. P. Bradley, Tony

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