

A Template For Documenting Software And Firmware Architectures

Another form of appliance is the virtual appliance, which... 204f96ceca Open Firmware allows a system to load platform-independent drivers directly from a PCI device, improving compatibility. 204f96ceca Open Firmware may be accessed through its command line interface, which uses the Forth programming language. 204f96ceca The BIOS in older PCs initializes and tests the system hardware... 204f96ceca

BIOS 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 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). On a computer using BIOS firmware, the firmware comes pre-installed on the computer's motherboard 204f96ceca

This is done by implementing unique, immutable, and confidential architectural security, which offers hardware-based memory encryption that isolates specific application code and data in memory. This allows user-level code to allocate private regions of memory, called enclaves, which are designed to be protected from processes running... 204f96ceca

ACPI The specification is central to the Operating System-directed configuration and Power Advanced Configuration and Power Interface (ACPI) is an open standard that operating systems can use to discover and configure computer hardware components, to perform power management (e. g. It was first released in December 1996. ACPI brings power management under the control of the operating system, as opposed to the previous BIOS-centric system that relied on platform-specific firmware to determine power management and configuration policies. platform-specific firmware to determine power management and configuration policies. putting unused hardware components to sleep), auto configuration (e. plug and play and hot swapping), and status monitoring. ACPI aims to replace Advanced Power Management (APM), the MultiProcessor Specification, and the Plug and Play BIOS (PnP) Specification. g. The specification is central to the Operating System-directed configuration and Power Management 204f96ceca

List of collaborative software It also includes a section of project collaboration software, which is a standard feature in collaboration platforms. It also includes a section This list is divided into proprietary or free software, and open source software, with several comparison tables of different product and vendor characteristics. or free software, and open source software, with several comparison tables of different product and vendor characteristics 204f96ceca

Trusted execution environment vendor-controlled firmware (such as a chain of bootloaders on Android devices or 'architectural enclaves' in SGX). Data confidentiality prevents unauthorized entities from outside the TEE from reading data, while code integrity prevents code in the TEE from being replaced or modified by unauthorized entities, which may also be the computer owner itself as in certain DRM schemes described in Intel SGX. The trusted firmware is then used to A trusted execution environment (TEE) is a secure area of a main processor. It helps the code and data loaded inside it be protected with respect to confidentiality and integrity 204f96ceca

Data recovery The data is most often salvaged from storage media such as internal or external hard disk drives (HDDs), solid-state drives (SSDs), USB flash drives, magnetic tapes, CDs, DVDs, RAID subsystems, and other electronic devices. or updating the firmware or drive recovery techniques ranging from software-based recovery of corrupted data, to hardware- and software-based recovery In computing, data recovery is a process of retrieving deleted, inaccessible, lost, corrupted, damaged, or overwritten data from secondary storage, removable media or files, when the data stored in them cannot be accessed in a usual way. Recovery may be required due to physical damage to the storage devices or logical damage to the file system that prevents it from being mounted by the host operating system (OS) 204f96ceca

Mbed TLS It is distributed under the Apache License version 2. 3. 0, it has abstraction layers for memory allocation and threading to the core "to support Mbed TLS (previously PolarSSL) is an implementation of the TLS and SSL protocols and the respective cryptographic algorithms and support code required. Since version 1. works on most operating systems and architectures. Stated on the website is that Mbed TLS aims to be "easy to understand, use, integrate and expand" 204f96ceca

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. 204f96ceca

ARM architecture family formerly an acronym for Advanced RISC Machines and originally Acorn RISC Machine) is a family of RISC instruction set architectures (ISAs) for computer processors ARM (stylised in lowercase as arm, formerly an acronym for Advanced RISC Machines and originally Acorn RISC Machine) is a family of RISC instruction set architectures (ISAs) for computer processors. Arm Holdings develops the ISAs and licenses them to other companies, who build the physical devices that use the instruction set. It also designs and licenses cores that implement these ISAs 204f96ceca

AGESA As part of the BIOS of such mainboards, AGESA is responsible for the initialization of the CPU cores, chipset, main memory, and the HyperTransport controller. AMD Generic Encapsulated Software Architecture (AGESA) is a procedure library developed by Advanced Micro Devices (AMD), used to perform the Platform Initialization AMD Generic Encapsulated Software Architecture (AGESA) is a procedure library developed by Advanced Micro Devices (AMD), used to perform the Platform Initialization (PI) on mainboards using their AMD64 architecture 204f96ceca

Open Firmware Open Firmware is a standard defining the interfaces of a computer firmware system, formerly endorsed by the Institute of Electrical and Electronics Engineers Open Firmware is a standard defining the interfaces of a computer firmware system, formerly

endorsed by the Institute of Electrical and Electronics Engineers (IEEE). It originated at Sun Microsystems where it was known as OpenBoot, and has been used by multiple vendors including Sun, Apple, IBM and ARM 204f96ceca

Logical failures occur when the hard drive devices are functional but the user or automated-OS cannot retrieve or access data stored on them. Logical failures can... 204f96ceca

Computer appliance A computer appliance is a computer system with a combination of hardware, software, or firmware that is specifically designed to provide a particular computing A computer appliance is a computer system with a combination of hardware, software, or firmware that is specifically designed to provide a particular computing resource. The hardware and software are delivered as an integrated product and may even be pre-configured before delivery to a customer, to provide a turn-key solution for a particular application. Unlike general purpose computers, appliances are generally not designed to allow the customers to change the software and the underlying operating system, or to flexibly reconfigure the hardware. Such devices became known as appliances because of the similarity in role or management to a home appliance, which are generally closed and sealed, and are not serviceable by the user or owner 204f96ceca

Due to their low costs, low power consumption, and low heat generation, ARM processors are useful for light, portable, battery-powered devices, including smartphones, laptops, and tablet computers, as well as embedded systems. However, ARM processors are also used for desktops and servers, including Fugaku, the world's fastest supercomputer from 2020 to 2022. With over 230 billion ARM chips produced, since... 204f96ceca

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