

Microsoft Application Architecture Guide 3rd

Multitier architecture Description of a In software engineering, multitier architecture (often referred to as n-tier architecture) is a client-server architecture in which presentation, application processing and data management functions are physically separated. journal, Three Tier Architecture Microsoft Application Architecture Guide Example of free 3-tier system What Is the 3-Tier Architecture. The most widespread use of multitier architecture is the three-tier architecture (for example, Cisco's Hierarchical internetworking model) 10acf405be

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... 10acf405be Floating-point arithmetic is supported through mandatory SSE2 instructions in 64-bit mode. While the older x87 FPU and MMX registers are still available, they... 10acf405be

ARM architecture family Microsoft's first 64-bit ARM operating system. It'll run x86 and 32-bit ARM applications from the Store, and in due course, 64-bit ARM applications. 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 10acf405be

X86-64 on 64-bit Microsoft Windows, or the IA-32 architecture, which can run as a 32-bit application on 32-bit Microsoft Windows or 64-bit Microsoft Windows in x86-64 (also known as x64, x86_64, AMD64, and Intel 64) is a 64-bit extension of the x86 instruction set. It was announced in 1999 and first available in the AMD Opteron family in 2003. It introduces two new operating modes: 64-bit mode and compatibility mode, along with a new four-level paging mechanism 10acf405be

The application reserves a region, or "window" of virtual address space, and allocates one or more regions of physical memory. Using the AWE API, the application can map the virtual window... 10acf405be

Microsoft Data Access Components Its components include: ActiveX Data Objects (ADO), OLE DB, and Open Database Connectivity (ODBC). MDAC applications access to different types of data stores in a uniform manner. There have been several deprecated components as well, such as the Jet Database Engine, MSDASQL (the OLE DB provider for ODBC), and Remote Data Services (RDS). Microsoft has used this technology to separate the application from data Microsoft Data Access Components (MDAC; also known as Windows DAC) is a framework of interrelated Microsoft technologies that allows programmers a uniform and comprehensive way of developing applications that can access almost any data store. Some components have also become obsolete, such as the former Data Access Objects API and Remote Data Objects 10acf405be

PSE-36 was introduced into the x86 architecture with the Pentium II Xeon and was initially advertised as part of the "Intel Extended Server Memory Architecture" (sometimes abbreviated ESMA), a branding which also included the... 10acf405be

Heterogeneous System Architecture The system architecture allows any accelerator, for instance a Heterogeneous System Architecture (HSA) is a cross-vendor set of specifications that allow for the integration of central processing units and graphics processors on the same bus, with shared memory and tasks. The platform's stated aim is to reduce communication latency between CPUs, GPUs and other compute devices, and make these various devices more compatible from a programmer's perspective, relieving the programmer of the task of planning the moving of data between devices' disjoint memories (as must currently be done with OpenCL or CUDA). signal processors (DSPs), or any type of application-specific integrated circuits (ASICs). The HSA is being developed by the HSA Foundation, which includes (among many others) AMD and ARM 10acf405be

CUDA and OpenCL as well as most other fairly advanced programming languages can use HSA to increase their execution performance. Heterogeneous computing... 10acf405be In 64-bit mode, x86-64 supports significantly larger amounts of virtual memory and physical memory compared to its 32-bit predecessors, allowing programs to utilize more memory for data storage. The architecture expands the number of general-purpose registers from 8 to 16, all fully general-purpose, and extends their width to 64 bits. 10acf405be

NPAPI NPAPI Netscape Plugin Application Programming Interface (NPAPI) is a deprecated application programming interface (API) for web browser plugins, initially developed for Netscape Navigator 2. 0 in 1995 and subsequently adopted by other browsers. players, including Adobe Flash Player and Microsoft Silverlight, as well as platforms for web applications such as the Java Runtime Environment 10acf405be

VxD VxDs have access to the memory of the kernel and all running processes, as well as raw access to the hardware. x, the 386 enhanced mode of Windows 3. 5"floppy) Errata: [1][2] Programmer's Guide to Microsoft Windows 95: Key Topics on Programming for Windows from the Microsoft Windows Development Team. x, Windows 9x, and to some extent also by the Novell DOS 7, OpenDOS 7. 02 (and higher) multitasker (TASKMGR). 01, and DR-DOS 7. Technical VxD is the device driver model used in Microsoft Windows/386 2. Starting with Windows 98, Windows Driver Model was the recommended driver model to write drivers for, with the VxD driver model still being supported for backward compatibility, until Windows Me 10acf405be

PSE-36 PSE36 driver was used by some applications on Windows NT 4. PSE-36's downside is that, unlike PAE, it doesn't have 4-KB page granularity above the 4 GB mark. 0 Enterprise Edition servers, for example SAP liveCache, Microsoft SQL Server 7. It uses the Page Size Extension (PSE) mode and a modified page directory table to map 4 MB pages into a 64 GB physical address space. 1 In computing, PSE-36 (36-bit Page Size Extension) refers to a feature of x86 processors that extends the physical

memory addressing capabilities from 32 bits to 36 bits, allowing addressing to up to 64 GB of memory. 0, Oracle 8. Compared to the Physical Address Extension (PAE) method, PSE-36 is a simpler alternative to addressing more than 4 GB of memory

In the NPAPI architecture, a plugin declares content types (e.g. "audio/mp3") that it can handle. When the browser encounters a content type it cannot handle natively, it loads the appropriate plugin, sets aside space within the browser context for the plugin to render and then streams data to it. The plugin is responsible for rendering the data. The plugin runs in-place within the page, as opposed to older browsers that had to launch an external application to handle unknown content types. NPAPI requires each plugin to implement and expose approximately 15... 10acf405be N-tier application architecture provides a model by which developers can create flexible and reusable applications. By segregating an application into tiers, developers acquire the option of modifying or adding a specific tier, instead of reworking the entire application. N-tier architecture is a good fit for small and simple applications because of its simplicity and low-cost. Also, it can be a good starting point when architectural... 10acf405be Microsoft introduced the Pocket PC keyboard-less PDAs in 2000, with Pocket PC 2000 being the software. It was based on version 3.0 of Windows CE, the operating system originally developed for the Handheld PC in 1996. The next versions were Pocket PC 2002 and Smartphone 2002, the latter of which would power a new category of keypad-based cell phone devices named Smartphone. With the release of Windows Mobile 2003, the software... 10acf405be The first version of MDAC was released in August 1996. At that time Microsoft stated MDAC was more a concept than a stand-alone program and had no widespread distribution method. Later Microsoft... 10acf405be

Address Windowing Extensions Windowing Extensions (AWE) is a Microsoft Windows application programming interface that allows a 32-bit software application to access more physical memory Address Windowing Extensions (AWE) is a Microsoft Windows application programming interface that allows a 32-bit software application to access more physical memory than it has virtual address space, even in excess of the 4 GB limit. AWE is beneficial to certain data-intensive applications, such as database management systems and scientific and engineering software, that need to manipulate very large data sets while minimizing paging. The process of mapping an application's virtual address space to physical memory under AWE is known as "windowing", and is similar to the overlay concept of other environments 10acf405be

Windows Mobile 0 in 2005, Microsoft unified the separate Windows Mobile is a discontinued mobile operating system developed by Microsoft for smartphones and personal digital assistants (PDA). In the next major release, Windows Mobile 5. and MIPS processor architectures were dropped, focusing only on ARM. Designed to be the portable equivalent of the Windows desktop OS in the emerging mobile/portable area, the operating system is built on top of Windows CE (later known as Windows Embedded Compact) and was originally released as Pocket PC 2000 10acf405be

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