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Intel® 64 Architecture refers to systems based on IA-32 architecture processors which have 64-bit architectural extensions, for example, Intel® Core™ 2 processor family), running a 64-bit operating system such as Microsoft Windows XP* Professional x64 Edition or Microsoft Windows Vista* x64. If the system is running a 32-bit version of the Windows operating system, then IA-32 architecture applies instead.

What do IA-32 and Intel® 64 Architecture mean?

Describes the operating-system support environment of Intel® 64 and IA-32 architectures, including: memory management, protection, task management, interrupt and exception handling, multi-processor support, thermal and power management features, debugging, performance monitoring, system management mode, virtual machine extensions (VMX) instructions, Intel® Virtualization Technology (Intel® VT), and Intel® Software Guard Extensions (Intel® SGX).

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64 architecture, IA-32, core processors, 248966. Created Date. 20160622080444Z.

~~Intel® 64 and IA-32 Architectures Optimization Reference ...~~

The Intel® 64 and IA-32 architectures optimization reference manual provides information on current Intel microarchitectures. It describes code optimization techniques to enable you to tune your application for highly optimized results when run on current Intel® processors. See Intel® 64 and IA-32 Architectures Software Developer Manuals for all manuals.

~~Intel® 64 and IA-32 Architectures Optimization Reference ...~~

Intel® 64 and IA-32 Architectures Software Developer's Manual, Volume 2A. The VMX architecture is designed to be extensible so that future processors in VMX operation can support additional features not present in first-generation implementations of the VMX architecture. The availability of exten-

~~Intel® 64 and IA-32 Architectures Software Developer's Manual~~

Describes the operating-system support environment of Intel® 64 and IA-32 architectures, including: memory management, protection, task management, interrupt and exception handling, multi-processor support, thermal and power management features, debugging, performance monitoring, system management mode, virtual machine extensions (VMX) instructions, Intel® Virtualization Technology (Intel® VT), and Intel® Software Guard Extensions (Intel® SGX).

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~~Intel® 64 and IA-32 Architectures Software Developer's ...~~

The Intel® 64 and IA-32 Architectures Software Developer's Manual, Volumes 3A, 3B, 3C & 3D, describe the operating-system support environment of Intel 64 and IA-32 processors, including memory management, protection, task management, interrupt and exception handling, multi-processor support, thermal and power management features, debugging, performance monitoring, system management mode, virtual machine extensions (VMX) instructions, Intel® Virtualization Technology, and Intel® Software ...

~~Intel® 64 and IA-32 Architectures Developer's Manual: Vol. 1~~

Intel® 64 and IA-32 Architectures Software Developer's Manual Volume 1: Basic Architecture
NOTE: The Intel® 64 and IA-32 Architectures Software Developer's Manual consists of nine volumes: Basic Architecture, Order Number 253665; Instruction Set Reference A-L, Order Number 253666;

~~Intel® 64 and IA-32 Architectures Software Developer's Manual~~

In the modern era, Intel still produces IA-32 processors under the Intel Quark microcontroller platform, however, since the 2000s, the majority of manufacturers (Intel included) moved almost exclusively to implementing CPUs based on the 64-bit variant of x86, x86-64. x86-64, by specification, offers legacy operating modes that operate on the IA-32 ISA for backwards compatibility.

~~IA-32—Wikipedia~~

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In 2001, Intel attempted to introduce a non-x86 64-bit architecture named IA-64 in its Itanium processor, initially aiming for the high-performance computing market, hoping that it would eventually replace the 32-bit x86. While IA-64 was incompatible with x86, the Itanium processor did provide emulation abilities for translating x86 ...

~~x86—Wikipedia~~

The Intel 64 and IA-32 Architectures Software Developer's Manual, Volume 1, describes the basic architecture and programming environment of Intel 64 and IA-32 processors. The Intel 64 and IA-32 Architectures Software Developer's Manual, Volumes 2A and 2B, describe the instruction set of the processor and the opcode structure.

~~Intel® 64 and IA-32 Architectures Developer's Manual: Vol. 3A~~

The Intel® 64 and IA-32 Architectures Software Developer's Manual, Volumes 3A, 3B, 3C and 3D, describe the operating-system support environment of Intel 64 and IA-32 processors, including memory management, protection, task management, interrupt and exception handling, multi-processor support, thermal and power management features, debugging, performance monitoring, system management mode, virtual machine extensions (VMX) instructions, Intel® Virtualization Technology, and Intel ...

~~Intel® 64 and IA-32 Architectures Developer's Manual: Vol. 3A~~

Intel® 64 and IA-32 Architectures Optimization Reference Manual Volume A: Chapters 1-13
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~~Intel(R) 64 and IA-32 Architectures Optimization Reference ...~~

The Intel® 64 and IA-32 Architectures Software Developer's Manual consists of eight volumes: Basic Architecture, Instruction Set Reference A-M, Instruction Set Reference N-Z, Instruction Set Reference, System Programming Guide Part 1, System Programming Guide Part 2, System Programming Guide Part 3, and System Programming Guide Part 4.

~~Intel® 64 and IA-32 Architectures Developer's Manual: Vol. 2B~~

The Intel® 64 and IA-32 Architectures Software Developer's Manual, Volumes 3A, 3B, 3C and 3D, describe the operating-system support environment of Intel 64 and IA-32 processors, including memory management, protection, task management, interrupt and exception handling, multi-processor support, thermal and power management features, debugging, performance monitoring, system management mode, virtual machine extensions (VMX) instructions, Intel® Virtualization Technology (Intel® VT), and ...

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Overview This chapter describes the Safer Mode Extensions (SMX) for the Intel® 64 and IA-32 architectures. Safer Mode Extensions (SMX) provide a programming interface for system software to establish a measured environment within the platform to support trust decisions by end users. The measured environment includes:

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~~Intel® 64 and IA-32 Architectures Developer's Manual: Vol. 2C~~

Intel® 64 and IA-32 Architectures Software Developer's Manual Volume 4: Model-Specific Registers NOTE: The Intel® 64 and IA-32 Architectures Software Developer's Manual consists of ten volumes: Basic Architecture, Order Number 253665; Instruction Set Reference A-L, Order Number 253666; Instruction Set Reference M-U, Order Number 253667; Instruction Set Reference V-Z, Order Number

~~Intel® 64 and IA-32 Architectures Software Developer's Manual~~

A 64-bit upgrade to Intel's 32-bit x86 (IA-32) architecture. Originally designated as EM64T (Extended Memory 64 Technology), Intel 64 added a set of 64-bit instructions that were compatible with...

~~Definition of Intel 64 | PCMag~~

AMD invented the AMD64 extensions; Intel was more or less forced to implement them, and called them first IA-32e, then EM64T and finally Intel 64 (actually, the AMD and Intel extensions aren't exactly the same, but they are almost identical).