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2001

2002



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Development****Microsoft**[Home](#) | [Technologies](#) | [Initiatives](#) | [Design Guides](#) | [Resources](#) | [About This Site](#) |

"File Date: May 16, 2001"

**Contents:**[OnNow/ACPI Tools & DDK](#)

White Papers:

[ACPI Design](#)[OnNow Power Management](#)[Windows 98/Me](#)[WakeUp](#)[Advanced Power Management](#)[Specifications](#)[Presentations](#)**See also:**[Windows Logo FAQ](#)[Mobile PC Design](#)[ACPI web site](#) **OnNow Discussion List:**[WinPower Mail List](#)

## OnNow and Power Management

OnNow design ensures that PCs are instantly accessible to users when needed, while remaining silent and consuming the least possible power when not actively working.



A comprehensive approach to system configuration and device power control is built into Microsoft® Windows® XP/Windows 2000 and Windows Me/98, based on the ACPI system interface and other new bus and device specifications. This supports capabilities that can be exploited by drivers and applications to improve the end-user's computing experience.

### [Fast Boot/Fast Resume for Windows XP](#)

The Windows development team at Microsoft has worked to make fast startup PCs a reality with the release of the Windows XP operating system. Tools and information for designing and measuring fast boot/fast resume on Windows XP-based platforms are provided at <http://www.microsoft.com/hwdev/fastboot/>.

### [Windows XP Native Processor Performance Control](#)

(Draft Version 0.8; 20 KB zip file in Microsoft Word format; file date: April 20, 2001)

Windows XP includes built-in processor performance control to take advantage of microprocessors that utilize performance states to operate the processor more efficiently. This draft white paper explains the BIOS implementations needed to use the built-in support and outlines the policies that Windows XP uses for processor performance control.

### [Required support for ACPI 2.0 64-bit tables](#)

The 64-bit edition of the Windows operating system requires that Itanium-based systems support the ACPI 2.0 64-bit fixed tables. See [http://www.microsoft.com/hwdev/onnow/IA64\\_ACPI.htm](http://www.microsoft.com/hwdev/onnow/IA64_ACPI.htm).

### ▼ [OnNow / ACPI Tools and DDK](#)

[ACPI HCT](#) - see Windows HCT versions 9.5, 9.6 and 10.0

[ASL Assembler/Compiler](#)

(revised: March 31, 2000; version 1.0.13; exe file: 61K)

[ASL String Compare Function](#) (OS detection)

(revised: April 14, 1998; Zip file: 2K)

[ACPI BIOS Lists and Test Matrix](#)

[Windows DDK](#)

[Windows Me DDK](#)

### ▼ [White Papers:](#)

#### ▼ [ACPI Design White Papers](#)

[ACPI Driver Interface Design Notes and Reference](#)  
(version 0.91; 22KB zipped .rtf file; file date: November 11, 1998)

[ACPI Specification Changes for Legacy Free](#)  
(73KB Word Document; File date: September 20, 1999)

[ACPI Docking for Windows Operating Systems](#)

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[114 captures](#)

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[PCI IRQ Routing on a Multiprocessor ACPI System](#)  
[Static Resource Affinity Table \(SRAT\)](#)  
[System State-to-Device State Mappings \(SxD\)](#)  
[Windows 98 Retail Upgrade for ACPI Systems](#)  
[Windows 2000 Support for Mobile System Displays](#)  
[Windows Management Instrumentation and ACPI](#)

#### ▼ OnNow Power Management White Papers

[Windows Power Management](#)  
[BIOS and Hibernate Issues for FAT32 File System](#)  
[Designing Games to Run on Power-Managed Computers](#)  
[Device Power Management](#)  
[OnNow and Display Device Class Drivers](#)  
[OnNow and WDM](#)  
[OnNow: Evolution of the PC Platform](#)  
[PCI Power Management and Device Drivers](#)  
[Power Management Architecture for Applications](#)  
[UPS Applet for Windows 2000](#)  
[WDM Power IRP: A Conversation with Windows Developers](#)

#### ▼ Windows 98/Me Power Management White Papers

[VCOMM Port Driver Power Management Interface](#)  
[Device Power Management for VxDs](#)  
[Display Adapter Drivers and Windows Millennium](#)  
[Hibernation](#)  
[Device Wake-up for Windows 98](#)

#### ▼ WakeUp White Papers

[CardBus Wakeup Events and Windows 2000](#)  
[PCI-to-PCI Bridges and CardBus Controllers on Windows 2000 and Windows Whistler](#)  
[Power Management for Network Devices](#)  
[Wake-up on Legacy Devices](#)

#### ▼ Advanced Power Management White Papers

[APM Theory of Operation for Windows 2000](#)  
[Windows 2000 Professional and APM Support](#)

#### ▼ Specifications

[ACPI Specification, Revisions 1.0b and 2.0](#)   
[Device Class Power Management Reference Specifications](#)  
[IEEE 1394 Power Management Specification, Version 1.05](#)   
[PCI Bus Power Management Interface \(PPMI\) Specification, Revision 1.0](#)   
[Simple Boot Flag Specification](#)

#### ▼ Presentations

[Presentations on the ACPI Web Site](#)

#### WinHEC 2000:

[Mobile PC Design](#)  
[Power Management and System Design](#)

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