

PC SYSTEMS DIVISION

DeskPower 2.0 for NT

- ◆ Support for Windows NT 4.0
- ◆ BIOS independent implementation
- ◆ Works with APM 1.x BIOSes
- ◆ CPU idle support
- ◆ Display time out settings
- ◆ Hard disk spin down settings
- ◆ Updates system clock on resume
- ◆ User interface provides:
 - ◆ Standby and suspend
 - ◆ User settings
- ◆ Instant suspend feature
- ◆ Supports Win32 API, so that Windows 95 power management aware applications continue to be power managed under Windows NT
- ◆ National Language Support (NLS): German, French, Spanish, Italian, Japanese



DeskPower 2.0 for NT: BIOS independent power management under Windows NT 4.0

Phoenix Technologies, the leading innovator and supplier of enabling software and services and Softex Incorporated, a leader of system software for portable PCs introduce DeskPower 2.0 for NT for desktop systems. DeskPower 2.0 for NT fills a critical need by providing BIOS independent power management under Windows NT 4.0.

DeskPower 2.0 for NT features an operating system APM-like user interface, support for CPU idle, display timeout settings, and hard disk spin down settings. In addition, DeskPower 2.0 for NT updates the system time on a resume from suspend. DeskPower 2.0 for NT supports the Win32 Power Management API, so that power management aware applications under Windows 95 are now power management aware under Windows NT. DeskPower 2.0 for NT is BIOS independent. As such, the drivers can be loaded onto any APM 1.x compliant system. National Language Support (NLS) is provided.

User Interface

DeskPower 2.0 for NT features a user interface that has two major components:

- ◆ A Power Management icon in the Taskbar: The icon informs the user that power savings are in effect and allows a quick method for showing power settings.



- ◆ The Power Management Control Panel: The Power Management Control Panel has three tabs:
 - **Power Status** - Allows the user to display the current system power status and modify different user level settings such as “current power management level.”
 - **Power Control** - Allows the user to initiate standby or suspend mode as well as allowing the user to set display and hard disk timeouts.
 - **About** - Provides vendor information and the version number of the product.

Double-clicking with the right mouse button on the Power Management icon in the Taskbar causes the system to be suspended.

CPU Idle

DeskPower 2.0 for NT supports a CPU idle routine. This routine allows power to be saved during any period of CPU inactivity, including the milliseconds between keystrokes. This routine calls the APM BIOS, which slows or stops the CPU when this call is received.

Display Time Out Settings

If there is no keyboard or mouse activity for a predefined time (as specified by the user), then the monitor shuts off at the end of this time. This feature allows users to save significant power overnight while the system is still on.

Hard Disk Spin Down Settings

If the hard disk is not accessed for a preset amount of time (as specified by the user), the hard disk spins down, thus saving a significant amount of power.

System Clock Update on Resume

Windows NT 4.0 does not currently update the system clock on a resume from suspend. This causes the system clock to be inaccurate. DeskPower 2.0 for NT solves this problem by updating the time when the system resumes from suspend.

Win32 API Compliance

Under Windows 95, a power management API is available and part of the Win32 interface. This API is not available under Windows NT 4.0. However, DeskPower 2.0 for NT provides this support. This support means that applications receive the WM_POWER and WM_POWERBROADCAST messages based on the power management events occurring in the system. Thus, Windows 95 applications that are power management aware under Windows 95 will be power management aware when running under Windows NT.

APM 1.x Required

DeskPower 2.0 for NT operates with any APM 1.x compliant BIOS. This flexibility means that DeskPower 2.0 for NT runs on systems with Phoenix, AMI, SystemSoft, Award, and other BIOSes.

Although the system must provide an APM 1.x compliant BIOS, which almost all systems do provide currently, DeskPower 2.0 for NT, a simple driver to load, requires no BIOS modifications. This capability makes the product suitable for tight development schedules and field upgrades to existing systems.

National Language Support (NLS)

DeskPower 2.0 for NT dynamically conforms to Windows NT 4.0 requirements in the following languages: German, French, Spanish, Italian and Japanese.

Phoenix Service and Support

DeskPower 2.0 for NT is supported by Phoenix Technologies' worldwide network of engineering, sales, and support personnel.

Ordering Information

If you would like to order DeskPower 2.0 for NT or have any questions or comments, please contact your local Phoenix representative or visit our web site at <http://www.phoenix.com>.