

NAME

apm - control the APM BIOS and display its information

SYNOPSIS

apm [-**ablstzZ**] [-**d** *enable*] [-**e** *enable*] [-**h** *enable*] [-**r** *delta*]

DESCRIPTION

The **apm** utility controls the Intel / Microsoft APM (Advanced Power Management) BIOS and displays the current status of APM on laptop PCs.

The options are as follows:

- a** Display the current AC-line status as an integer value. The values 0, 1 and 2 correspond to the "off-line" state, "on-line" state or "backup power" state, respectively.
- b** Display an integer value reflecting the current battery status. The values 0, 1, 2, 3, correspond to the "high" status, "low" status, "critical" status, "charging" status respectively.

-d *enable*

Disable/enable suspending of the display separately from a normal suspend using the boolean value for *enable*. This feature seems to not work on many different laptops, including the Libretto 30CT and 50CT.

-e *enable*

Enable or disable APM functions of the computer, depending on the boolean *enable* argument.

-h *enable*

Depending on the boolean value of *enable*, enable or disable the HLT instruction in the kernel context switch routine. These options are not necessary for almost all APM implementations, but for some implementations whose "*Idle CPU*" call executes both CPU clock slowdown and HLT instruction, **-h false** is necessary to prevent the system from reducing its peak performance. See apm(4) for details.

- l** Display the remaining battery percentage. If your laptop does not support this function, 255 is displayed.

-r *delta*

Enable the resume wakeup timer, if the laptop supports it. This does not actually suspend the laptop, but if the laptop is suspended, and it supports resume from suspend, then it will be resumed after *delta* seconds (from when you run this command, not from when you suspend).

- s** Display the status of the APM support as an integer value. The values 0 and 1 correspond to the "disabled" state or "enabled" state respectively.
- t** Display the estimated remaining battery lifetime in seconds. If it is unknown, -1 is displayed.
- Z** Transition the system into standby mode. This mode uses less power than full power mode, but more than suspend mode. Some laptops support resuming from this state on timer or Ring Indicator events. The output of **apm** tells what your laptop claims to support.
- z** Suspend the system. It is used by **zzz(8)**.

If no options are specified, **apm** displays information and current status of APM in verbose mode. If multiple display options are given, the values are displayed one per line in the order given here.

NOTES

apmconf(8) has been merged in **apm** and thus **apm** replaces all of its functionality.

SEE ALSO

apm(4), **zzz(8)**

AUTHORS

Tatsumi Hosokawa <hosokawa@jp.FreeBSD.org>

BUGS

Some APM implementations do not support parameters needed by **apm**. On such systems, **apm** displays them as unknown.

Some APM implementations cannot handle events such as pushing the power button or closing the cover. On such implementations, the system *must* be suspended *only* by using **apm** or **zzz**.