

Re: Power-Mgt (Was: Re: cvs commit: src/sys/i386/cpufreq est.c)

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/arch/2008-03/msg00109.html>

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 - *Date:* Tue, 18 Mar 2008 08:59:42 +0000 (UTC)
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On Mon, 17 Mar 2008, Poul-Henning Kamp wrote:

Hi,

[Moved to arch@]

In general, I think we must make power-aware computing our "next SMPng project", not in the sense of delaying the next major release five years, but in the sense that power consumption should permeate our thinking about the operating system from now on.

Overall, I think that means that we should:

- * Enable performance neutral power savings on servers
 - spin down unused disks. (geom/drivers)
 - use only as many CPU cores as necessary (scheduler)
 - light cpu-throttling.
 - downgrading 1GB to 100MB ether when idle.
- * Aim to meet or exceed energystar 4.0/5.0[1] on desktops and plugged laptops.
 - Pretty much as above, but with specific targets.
 - http://www.energystar.gov/index.cfm?c=revisions.computer_spec
- * Be as battery-frugal as possible on battery driven laptops.
 - Any trick in and off the book.

so while this topic is one,

what actually happens to an unrecognized card or a card with no driver loaded currently? How much power does an unsued card use and can we do anything about that? Are we perhaps already doing something about that?

/bz

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Software is harder than hardware so better get it right the first time.

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