

Re: asrock, problem with nic after windows–boot – Exact Opposite issue the OP is having

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Source: <http://linux.derkeiler.com/Newsgroups/comp.os.linux.networking/2006-06/msg00399.html>

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 - *Date:* Sat, 17 Jun 2006 19:53:54 –0500
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On 17 Jun 2006, in the Usenet newsgroup comp.os.linux.networking, in article <1150569738.676166.206750@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>, iforone wrote:

My small history with PCs started ~1990–ish, when I sold them, when I worked briefly in sales (a few months) for a major appliance/tv/stereo chain, ...yet I knew hardly anything about them (their inner workings).

And this is different from the norm exactly how? ;–)

You know? I never use/used a power strip in that manner (for *ATX* systems), and I never condoned it to others (and there are quite a few I've seen that use this method, with*out* shutting down properly first), for the simple fact that; in windblows, the 'dirty' bit would get set in that way, causing Scan/ChkDsk to have to always run on startup (though that could be circumvented, it isn't such an intelligent thing to do).

That's true of many O/S that use a write cache. Unix has had this for decades, as did Novell Netware and MacOS predating windoze. SGI had a neat switch on their Challenger boxes in the early 1990s – you punched the "power switch" on the front panel, and the O/S would cleanly terminate any running apps, then flush the buffers, and finally unmount the disks before turning off the power. There was also a hidden power switch at the top right of the back panel, but this one killed power without doing anything safe.

(this is Scott Mueller's site (an Electrical Engineer, who publishes very useful info IMHO) – I own the 13th Edition of his major publication, "Upgrading And Repairing PCs")

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Some of his stuff I take with a whole bag of salt, but I admit to using his "swap the 79 cent crystal" improvement to an original PC-AT. It was working at 8.5 MHz (rather than the stock 6 MHz) which pissed off my cube-mate who had a real 8 MHz version with the anti-overclocking BIOS.

I hadn't realized that the earlier IBM design required the 'write-to-every-address' requirement in order to set parity, but allow me to ask;
Is this a Registered(Buffered) thing, or a ECC(Unbuffered) related thing – or perhaps both?

It is for the ECC for the same reason.

Yes – I must do this (in earnest) – especially also to delve into BASH scripting

For shell scripting, start with the Bash-Prog-Intro-HOWTO

```
-rw-rw-r-- 1 gferg ldp 31540 Jul 27 2000 Bash-Prog-Intro-HOWTO
```

then grab a copy of The Grendel's fabulous book "Advanced Bash Scripting Guide" from the LDP (<http://tldp.org/guides.html>). I've lost track of how many revisions it's gone through, but it's a very polished book with lots of examples. I also recommend setting down with a bucket of coffee and the man pages, and trying to read through the boot scripts on your system. These are generally written by someone who is really good at scripting, and is flaunting those skills.

But from a purely hardware level (no OS involved), using the BIOS ROM code interaction with the PC components (x86), there is definitely differences between a 'warm' and a 'cold' boot – and while I can't pinpoint the specifics, and may be confusing the issue (on topic), I certainly suspect this diff (perhaps in combo with the WOL/WOR BIOS (DMI?) feature I mentioned earlier) is what's causing this ZeroConf networking issues, whether one uses Linux –or– Microshaft, or any other OS for that matter.

Well, I know there is that difference in the missing hardware reset action, but I think your 'second reboot and it works' might be that the first is only partially fixing the problem, and the second reboot sees something it recognizes and is able to correct/handle.

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I know 'grep', but would love to be able to use 'awk', 'grep' in small scripts and for 'plucking–out' only the relevant info – I hear ya though...in due time.

It's a fairly powerful tool – but you do realize that O'Reilly was able to find enough materials to get two full size books and a reference guide for it (my wife cringes when I get _near_ a bookstore).

Effective awk Programming, 3rd Edition May 2001 \$39.95
sed & awk, 2nd Edition Mar 1997 429 pgs \$34.95
sed & awk Pocket Reference, 2nd Edition Jun 2002 \$12.95

I see, 'Zgrep' is for Gzip files I presume (perhaps also for most compressed types)

except bzip2, but yeah it also handles regular files as well, which comes in handy when searching through a directory that includes both types.

but those DIRs you list above are not occupied with anything ATM

Fumble finger – try /usr/share/man/man1/

ahhh.....I have a 32MB Pentium 166 in a BabyAT here – it has a minimalist and tweaked win98 on it (runs great),

What is my P–133... let's see, it's running a log server, print servers, and backup network access box. It was running X – it still has FVWM2 on it which is a fairly lightweight desktop. I'm not into eye–candy, and mostly use X to provide multiple xterms. X really doesn't belong on a server, because X is a _user_ interface, and _users_ shouldn't be mucking about the servers. It's astonishing how much memory and disk space X (and the "popular" desktops) take.

yet I need to get it a NIC...there is an open PCI slot (as well as ISA slots), but I think I need an earlier PCI type that isn't so easy to find (New) nowadays...I'm sure I can find one, if only I can recall the requirements

Possibly supply voltage. Look in Mueller's book.

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I eventually plan on using it as either something headless (some sort of Server) on the LAN

287028 Mar 31 2003 Remote–Serial–Console–HOWTO

A wise person has two ways into a box – over the net, and through a console. As this is to be headless, string a null modem cable to another system so it can be used if networking goes weird. I've got six headless boxes here, and use cascaded A/B/C/D switches to one system to allow direct access. Big clue is to put Dymo (embossed) labels on the switches, and computers, and set the prompts so that they include hostnames – it's embarrassing to halt a computer then yank the power cord out of the wrong one.

Old guy

.