

Re: [opensuse] 4GB computer slowdown

Source: <http://linux.derkeiler.com/Mailing-Lists/SuSE/2007-05/msg01047.html>

- *From:* "Carlos E. R." <robin.listas@xxxxxxxxxxxxxxxx>
 - *Date:* Fri, 11 May 2007 20:09:51 +0200 (CEST)
-

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

The Friday 2007-05-11 at 10:03 -0700, Randall R Schulz wrote:

My guess is that linux tries to use all the capacity the hardware should have, in order to improve speed and throughput. This also means that if the hardware fails to do wht it should do, linux will also fail.

That doesn't really explain it, does it? If there's some subset of a machine's capabilities not used by Windows but used by Linux, why would it exactly correspond to that which tends to fail or misfire in all those cases of systems that run without overt error on Windows but cause crashes or malfunctions under Linux?

For example, because as windows does not use them, errors are not reported to the manufacturer. What does it matter if Linux fails? That just a toy OS, not a serious one; they don't pay us.

For example, because linux tries to get closer to the limits, uses ignored features that windows doesn't use because it can't (like 32 bits from the start).

Probably windows is more conservative, uses a more generic approach – or they used more faulty hardware when testing, or use conservative generic specifications.

Possible, but it's still not a well-formed idea. Computers are digital devices. They don't really have any continuous properties, other than, perhaps, some issues around failure probabilities (or inter-arrival times) w.r.t. device temperature.

Re: [opensuse] 4GB computer slowdown

Yes, but not exact.

There are timing constraints of hardware, for instance. If you develop a driver for a piece of hardware by observing how it works, by trial and error – because you know that historically hackers had to hack because manufacturers denied giving their specifications to developers – and timings have to be measured or estimated. If then you put that driver in a machine that goes a bit slower on those timings, it will fail.

You could ask kernel developers to be more precise on this.

Cheers,
Carlos E. R.

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.5 (GNU/Linux)

Comment: Made with pgp4pine 1.76

iD8DBQFGRLFytTMYHG2NR9URAiW/AJ4nZ46+AzIlMOizpiWwWqru3usT/ACeJbuc
bujLvU5rCje8fEacgxljwbg=
=eOCa

-----END PGP SIGNATURE-----

To unsubscribe, e-mail: opensuse+unsubscribe@xxxxxxxxxxxxx
For additional commands, e-mail: opensuse+help@xxxxxxxxxxxxx