

ACPI on Linux

ACPI is usually also implemented in the BIOS/Firmware. In case of buggy implementations it could conflict with Linux ACPI implementation, causing error in the journal. Apparently this is due to faulty communication between a PCI device, the motherboard, and the kernel.

There are three workarounds, which in all cases involve setting a kernel parameter (if you're using GRUB, here's how it's done):

- `pcie_aspm=off`
- `pci=noms`: disables Message Signaled Interrupts. I'm not sure exactly what this is, but adding this parameter disables USB devices... so no go.
- `pci=noaer` : this shoots the messenger, so to speak. Errors still occur, but they aren't reported, and system logs keep normal proportions.
- `pci=nommconf` I've only recently heard about this one. It disables Memory-Mapped PCI Configuration Space, and reverts to the traditional handling of configuration space.

Links

- https://wiki.archlinux.org/title/Power_management
- <https://www.kernel.org/doc/Documentation/admin-guide/kernel-parameters.txt>

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