Kernel driver i2c-viapro

Supported adapters:

- VIA Technologies, Inc. VT82C596A/B Datasheet: Sometimes available at the VIA website
- VIA Technologies, Inc. VT82C686A/B Datasheet: Sometimes available at the VIA website
- VIA Technologies, Inc. VT8231, VT8233, VT8233A Datasheet: available on request from VIA
- VIA Technologies, Inc. VT8235, VT8237R, VT8237A, VT8237S, VT8251 Datasheet: available on request and under NDA from VIA
- VIA Technologies, Inc. CX700 Datasheet: available on request and under NDA from VIA
- VIA Technologies, Inc. VX800/VX820 Datasheet: available on http://linux.via.com.tw
- VIA Technologies, Inc. VX855/VX875 Datasheet: available on http://linux.via.com.tw
- VIA Technologies, Inc. VX900 Datasheet: available on http://linux.via.com.tw

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Module Parameters

- force: int Forcibly enable the SMBus controller. DANGEROUS!
- force_addr: int Forcibly enable the SMBus at the given address. EXTREMELY DANGEROUS!

Description

i2c-viapro is a true SMBus host driver for motherboards with one of the supported VIA south bridges.

Your `lspci -n` listing must show one of these :

device 1106:3050	(VT82C596A function 3)
device 1106:3051	(VT82C596B function 3)
device 1106:3057	(VT82C686 function 4)
device 1106:3074	(VT8233)
device 1106:3147	(VT8233A)
device 1106:8235	(VT8231 function 4)
device 1106:3177	(VT8235)
device 1106:3227	(VT8237R)
device 1106:3337	(VT8237A)
device 1106:3372	(VT8237S)
device 1106:3287	(VT8251)
device 1106:8324	(CX700)
device 1106:8353	(VX800/VX820)
device 1106:8409	(VX855/VX875)
device 1106:8410	(VX900)

If none of these show up, you should look in the BIOS for settings like enable ACPI / SMBus or even USB.

Except for the oldest chips (VT82C596A/B, VT82C686A and most probably VT8231), this driver supports I2C block transactions. Such transactions are mainly useful to read from and write to EEPROMs.

The CX700/VX800/VX820 additionally appears to support SMBus PEC, although this driver doesn't implement it yet.