

README file for the dc395x SCSI driver

Status

The driver has been tested with CD-R and CD-R/W drives. These should be safe to use. Testing with hard disks has not been done to any great degree and caution should be exercised if you want to attempt to use this driver with hard disks.

This is a 2.5 only driver. For a 2.4 driver please see the original driver (which this driver started from) at <http://www.garloff.de/kurt/linux/dc395/>

Problems, questions and patches should be submitted to the mailing list. Details on the list, including archives, are available at <http://lists.twibble.org/mailman/listinfo/dc395x/>

Parameters

The driver uses the settings from the EEPROM set in the SCSI BIOS setup. If there is no EEPROM, the driver uses default values. Both can be overridden by command line parameters (module or kernel parameters).

The following parameters are available:

safe

Default: 0, Acceptable values: 0 or 1

If safe is set to 1 then the adapter will use conservative ("safe") default settings. This sets:

shortcut for dc395x=7,4,9,15,2,10

adapter_id

Default: 7, Acceptable values: 0 to 15

Sets the host adapter SCSI ID.

max_speed

Default: 1, Acceptable value: 0 to 7

0	20 Mhz
1	12.2 Mhz
2	10 Mhz
3	8 Mhz
4	6.7 Mhz
5	5.8 Hhz
6	5 Mhz
7	4 Mhz

dev_mode

Bitmap for device configuration

DevMode bit definition:

Bit	Val(hex)	Val(dec)	Meaning
0	0x01	1	Parity check
1	0x02	2	Synchronous Negotiation
2	0x04	4	Disconnection
3	0x08	8	Send Start command on startup. (Not used)
4	0x10	16	Tagged Command Queuing
5	0x20	32	Wide Negotiation

adapter_mode

Bitmap for adapter configuration

AdaptMode bit definition

Bit	Val(hex)	Val(dec)	Meaning
0	0x01	1	Support more than two drives. (Not used)
1	0x02	2	Use DOS compatible mapping for HDs greater than 1GB.
2	0x04	4	Reset SCSI Bus on startup.

Bit	Val(hex)	Val(dec)	Meaning
3	0x08	8	Active Negation: Improves SCSI Bus noise immunity.
4	0x10	16	Immediate return on BIOS seek command. (Not used)
(*)5	0x20	32	Check for LUNs >= 1.

tags

Default: 3, Acceptable values: 0-5

The number of tags is $1 \leq x$, if x has been specified

reset_delay

Default: 1, Acceptable values: 0-180

The seconds to not accept commands after a SCSI Reset

For the built in driver the parameters should be prefixed with dc395x. (eg "dc395x.safe=1")

Copyright

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Note: The GNU GPL says also something about warranty and liability. Please be aware the following: While we do my best to provide a working and reliable driver, there is a chance, that it will kill your valuable data. We refuse to take any responsibility for that. The driver is provided as-is and YOU USE IT AT YOUR OWN RESPONSIBILITY.