

This driver is for Compaq's SMART2 Intelligent Disk Array Controllers.

Supported Cards:

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This driver is known to work with the following cards:

- \* SMART (EISA)
- \* SMART-2/E (EISA)
- \* SMART-2/P
- \* SMART-2DH
- \* SMART-2SL
- \* SMART-221
- \* SMART-3100ES
- \* SMART-3200
- \* Integrated Smart Array Controller
- \* SA 4200
- \* SA 4250ES
- \* SA 431
- \* RAID LC2 Controller

It should also work with some really old Disk array adapters, but I am unable to test against these cards:

- \* IDA
- \* IDA-2
- \* IAES

EISA Controllers:

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If you want to use an EISA controller you'll have to supply some modprobe/lilo parameters. If the driver is compiled into the kernel, must give it the controller's IO port address at boot time (it is not necessary to specify the IRQ). For example, if you had two SMART-2/E controllers, in EISA slots 1 and 2 you'd give it a boot argument like this:

```
smart2=0x1000,0x2000
```

If you were loading the driver as a module, you'd give load it like this:

```
modprobe cpqarray eisa=0x1000,0x2000
```

You can use EISA and PCI adapters at the same time.

Device Naming:

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You need some entries in /dev for the ida device. MAKEDEV in the /dev directory can make device nodes for you automatically. The device setup is as follows:

Major numbers:

# cpqarray.txt

72	ida0
73	ida1
74	ida2
75	ida3
76	ida4
77	ida5
78	ida6
79	ida7

Minor numbers:

b7	b6	b5	b4	b3	b2	b1	b0
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+----- Partition ID (0=wholedev, 1-15 partition)

+----- Logical Volume number

The device naming scheme is:

/dev/ida/c0d0	Controller 0, disk 0, whole device
/dev/ida/c0d0p1	Controller 0, disk 0, partition 1
/dev/ida/c0d0p2	Controller 0, disk 0, partition 2
/dev/ida/c0d0p3	Controller 0, disk 0, partition 3
/dev/ida/c1d1	Controller 1, disk 1, whole device
/dev/ida/c1d1p1	Controller 1, disk 1, partition 1
/dev/ida/c1d1p2	Controller 1, disk 1, partition 2
/dev/ida/c1d1p3	Controller 1, disk 1, partition 3

Changelog:

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10-28-2004 :      General cleanup, syntax fixes for in-kernel driver version.  
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