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Subject: SCSI DPT vs I2O problems [was: Will development now move to 2.6.16?]  
Posted by [mephisto](#) on Mon, 20 Mar 2006 17:31:40 GMT

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Hi,

now that linux 2.6.16 is released I'm wondering if development will be based on that instead on 2.6.15. I'm asking because 2.6.16 introduces some driver changes that are quite important to me.

Regards,

Mephisto

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Subject: Re: Will development now move to 2.6.16?

Posted by [kir](#) on Mon, 20 Mar 2006 19:08:13 GMT

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Yes, we will release a 2.6.16-based kernel Real Soon Now. I have already said that today in OpenVZ blog.

Quote:I'm asking because 2.6.16 introduces some driver changes that are quite important to me. If you have problem with a particular hardware driver (not working, missing, etc.) -- do not hesitate to file a bug report. We are already supporting a lot of new hardware in our stable kernel series (by either backporting stuff and/or taking vendor drivers).

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Subject: Re: Will development now move to 2.6.16?

Posted by [mephisto](#) on Mon, 20 Mar 2006 20:04:43 GMT

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Great! I'll look into this. The problem is that I couldn't even get the 2.6.8 kernel to work on my server, yet - 2.6.15 patch was bootin with the same config, but was always crashing after the machine was running for 1-2 days. I'm about 150 miles away, to this is a bit problematic to look into.

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Subject: Re: Will development now move to 2.6.16?

Posted by [dev](#) on Mon, 20 Mar 2006 20:34:34 GMT

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Can you please provide the output of `lspci` and `lspci -n`?  
It would help me to understand what hardware you use and which driver is responsible for it.

Thanks

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Subject: Re: Will development now move to 2.6.16?  
Posted by [mephisto](#) on Mon, 20 Mar 2006 20:39:20 GMT  
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Sure:

lspci

00:00.0 Host bridge: Intel Corporation E7501 Memory Controller Hub (rev 01)  
00:00.1 Class ff00: Intel Corporation E7500/E7501 Host RASUM Controller (rev 01)  
00:02.0 PCI bridge: Intel Corporation E7500/E7501 Hub Interface B PCI-to-PCI Bridge (rev 01)  
00:03.0 PCI bridge: Intel Corporation E7500/E7501 Hub Interface C PCI-to-PCI Bridge (rev 01)  
00:1d.0 USB Controller: Intel Corporation 82801CA/CAM USB (Hub #1) (rev 02)  
00:1d.1 USB Controller: Intel Corporation 82801CA/CAM USB (Hub #2) (rev 02)  
00:1d.2 USB Controller: Intel Corporation 82801CA/CAM USB (Hub #3) (rev 02)  
00:1e.0 PCI bridge: Intel Corporation 82801 PCI Bridge (rev 42)  
00:1f.0 ISA bridge: Intel Corporation 82801CA LPC Interface Controller (rev 02)  
00:1f.1 IDE interface: Intel Corporation 82801CA Ultra ATA Storage Controller (rev 02)  
00:1f.3 SMBus: Intel Corporation 82801CA/CAM SMBus Controller (rev 02)  
01:1c.0 PIC: Intel Corporation 82870P2 P64H2 I/OxAPIC (rev 04)  
01:1d.0 PCI bridge: Intel Corporation 82870P2 P64H2 Hub PCI Bridge (rev 04)  
01:1e.0 PIC: Intel Corporation 82870P2 P64H2 I/OxAPIC (rev 04)  
01:1f.0 PCI bridge: Intel Corporation 82870P2 P64H2 Hub PCI Bridge (rev 04)  
03:02.0 Ethernet controller: Intel Corporation 82546EB Gigabit Ethernet Controller (Copper) (rev 01)  
03:02.1 Ethernet controller: Intel Corporation 82546EB Gigabit Ethernet Controller (Copper) (rev 01)  
04:1c.0 PIC: Intel Corporation 82870P2 P64H2 I/OxAPIC (rev 04)  
04:1d.0 PCI bridge: Intel Corporation 82870P2 P64H2 Hub PCI Bridge (rev 04)  
04:1e.0 PIC: Intel Corporation 82870P2 P64H2 I/OxAPIC (rev 04)  
04:1f.0 PCI bridge: Intel Corporation 82870P2 P64H2 Hub PCI Bridge (rev 04)  
06:01.0 RAID bus controller: Adaptec (formerly DPT) SmartRAID V Controller (rev 01)  
07:01.0 VGA compatible controller: ATI Technologies Inc Rage XL (rev 27)

lspci -n

00:00.0 0600: 8086:254c (rev 01)  
00:00.1 ff00: 8086:2541 (rev 01)  
00:02.0 0604: 8086:2543 (rev 01)  
00:03.0 0604: 8086:2545 (rev 01)  
00:1d.0 0c03: 8086:2482 (rev 02)  
00:1d.1 0c03: 8086:2484 (rev 02)  
00:1d.2 0c03: 8086:2487 (rev 02)  
00:1e.0 0604: 8086:244e (rev 42)  
00:1f.0 0601: 8086:2480 (rev 02)  
00:1f.1 0101: 8086:248b (rev 02)  
00:1f.3 0c05: 8086:2483 (rev 02)  
01:1c.0 0800: 8086:1461 (rev 04)  
01:1d.0 0604: 8086:1460 (rev 04)  
01:1e.0 0800: 8086:1461 (rev 04)  
01:1f.0 0604: 8086:1460 (rev 04)  
03:02.0 0200: 8086:1010 (rev 01)  
03:02.1 0200: 8086:1010 (rev 01)

04:1c.0 0800: 8086:1461 (rev 04)  
04:1d.0 0604: 8086:1460 (rev 04)  
04:1e.0 0800: 8086:1461 (rev 04)  
04:1f.0 0604: 8086:1460 (rev 04)  
06:01.0 0104: 1044:a511 (rev 01)  
07:01.0 0300: 1002:4752 (rev 27)

This is a Supermicro X5DP8-G2 running two SCSI raids (using aic79xx).

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Subject: Re: Will development now move to 2.6.16?  
Posted by [vaverin](#) on Tue, 21 Mar 2006 06:50:42 GMT  
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Hello mephisto,

Unfortunately I cannot understand what kind of problem you have on the node.  
As far as I see from your lspci, you have I2O zero-channel raid controller. It supported by our kernel and your node should work even on the 2.6.8 kernel.  
To load our kernel on this hardware you should create correct initrd image. Could you please send me /etc/modprobe.conf file and output of the following command  
`mkinitrd -v -v -f /boot/custom.initrd.img 2.6.8-022stab070.1`

thank you,  
Vasily Averin

PS could you probably give me an access to the node?

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Subject: Re: Will development now move to 2.6.16?  
Posted by [mephisto](#) on Tue, 21 Mar 2006 10:15:02 GMT  
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Hi Vasily,

thank you for your answer. I'm getting "-bash: mkinitrd: command not found". I'm using Gentoo and so far made no use of the initrd, because I had all the important modules compiled in. I do have a initramfs-genkernel-x86-2.6.8-022stab070-smp under /boot, I'll check if it helps to include it into my lilo.conf

I'm sorry, but I can't give you access to the server.

My /etc/modprobe.conf looks like this

```
### This file is automatically generated by modules-update  
#
```

```
# Please do not edit this file directly. If you want to change or add
# anything please take a look at /etc/modules.conf and read
# the manpage for modules-update.
#
alias binfmt-204 binfmt_aout
alias binfmt-263 binfmt_aout
alias binfmt-264 binfmt_aout
alias binfmt-267 binfmt_aout
alias binfmt-387 binfmt_aout
alias binfmt-332 iBCS
alias binfmt--310 binfmt_java
alias block-major-1-* rd
alias block-major-2-* floppy
alias block-major-3-* ide-probe-mod
alias block-major-7-* loop
alias block-major-8-* sd_mod
alias block-major-9-* md
alias block-major-11-* sr_mod
alias block-major-13-* xd
alias block-major-15-* cdu31a
alias block-major-16-* gscd
alias block-major-17-* optcd
alias block-major-18-* sjcd
alias block-major-20-* mcdx
alias block-major-22-* ide-probe-mod
alias block-major-23-* mcd
alias block-major-24-* sonycd535
alias block-major-25-* sbpcd
alias block-major-26-* sbpcd
alias block-major-27-* sbpcd
alias block-major-29-* aztcd
alias block-major-32-* cm206
alias block-major-33-* ide-probe-mod
alias block-major-34-* ide-probe-mod
alias block-major-37-* ide-tape
alias block-major-44-* ftl
alias block-major-46-* pcd
alias block-major-47-* pf
alias block-major-56-* ide-probe-mod
alias block-major-57-* ide-probe-mod
alias block-major-58-* lvm-mod
alias block-major-88-* ide-probe-mod
alias block-major-89-* ide-probe-mod
alias block-major-90-* ide-probe-mod
alias block-major-91-* ide-probe-mod
alias block-major-93-* nftl
alias block-major-113-* viocd
alias char-major-4-* serial
```

alias char-major-5-\* serial  
alias char-major-6-\* lp  
alias char-major-9-\* st  
alias char-major-10-0 busmouse  
alias char-major-10-2 msbusmouse  
alias char-major-10-3 atixlmouse  
alias char-major-10-116 snd  
alias char-major-10-130 wdt  
alias char-major-10-131 wdt  
alias char-major-10-135 rtc  
alias char-major-10-139 openprom  
alias char-major-10-144 nvram  
alias char-major-10-157 applicom  
alias char-major-10-175 agpgart  
alias char-major-10-181 toshiba  
alias char-major-10-183 hw\_random  
alias char-major-10-184 microcode  
alias char-major-10-187 irnet  
alias char-major-10-189 ussp  
alias char-major-10-200 tun  
alias char-major-10-250 hci\_vhci  
alias char-major-13-\* input  
alias char-major-13-0 joydev  
alias char-major-13-32 mousedev  
alias char-major-14-\* soundcore  
alias char-major-19-\* cyclades  
alias char-major-20-\* cyclades  
alias char-major-21-\* sg  
alias char-major-22-\* pcxx  
alias char-major-23-\* pcxx  
alias char-major-27-\* zftape  
alias char-major-34-\* scc  
alias char-major-35-\* tclmidi  
alias char-major-36-\* netlink  
alias char-major-37-\* ide-tape  
alias char-major-48-\* riscom8  
alias char-major-49-\* riscom8  
alias char-major-57-\* esp  
alias char-major-58-\* esp  
alias char-major-63-\* kdebug  
alias char-major-90-\* mtdchar  
alias char-major-96-\* pt  
alias char-major-97-\* pg  
alias char-major-99-\* ppdev  
alias char-major-107-\* 3dfx  
alias char-major-108-\* ppp\_generic  
alias char-major-109-\* lvm-mod  
alias char-major-161-\* ircomm-tty

alias char-major-171-\* raw1394  
alias char-major-195-\* NVdriver  
alias char-major-200-\* vxspec  
alias char-major-206-\* osst  
alias char-major-216-\* rfcomm  
alias dos msdos  
alias dummy0 dummy  
alias dummy1 dummy  
alias iso9660 isofs  
alias md-personality-1 linear  
alias md-personality-2 raid0  
alias md-personality-3 raid1  
alias md-personality-4 raid5  
alias md-personality-7 multipath  
alias net-pf-1 unix  
alias net-pf-2 ipv4  
alias net-pf-4 ipx  
alias net-pf-5 appletalk  
alias net-pf-15 af\_key  
alias net-pf-17 af\_packet  
alias net-pf-20 atm  
alias net-pf-23 irda  
alias net-pf-24 pppoe  
alias net-pf-25 wanrouter  
alias net-pf-26 llc  
alias net-pf-31 bluez  
alias netalias-2 ip\_alias  
alias irlan0 irlan  
alias irda-dongle-0 tekram  
alias irda-dongle-1 esi  
alias irda-dongle-2 actisys  
alias irda-dongle-3 actisys  
alias irda-dongle-4 girbil  
alias irda-dongle-5 litelink  
alias irda-dongle-6 airport  
alias irda-dongle-7 old\_belkin  
alias bt-proto-0 l2cap  
alias bt-proto-2 sco  
alias bt-proto-3 rfcomm  
alias bt-proto-4 bnep  
alias bt-proto-5 cmtp  
alias bt-proto-6 hidp  
alias bt-proto-7 avdtp  
alias plip0 plip  
alias plip1 plip  
alias tunl0 ipip  
alias cipcb0 cipcb  
alias cipcb1 cipcb

```
alias cipcb2 cipcb
alias cipcb3 cipcb
alias ppp0 ppp_async
alias ppp1 ppp_async
alias slip0 slip
alias slip1 slip
alias tty-ldisc-1 slip
alias tty-ldisc-3 ppp_async
alias tty-ldisc-11 irtty
alias tty-ldisc-14 ppp_synctty
alias tty-ldisc-15 hci_uart
alias ppp-compress-18 ppp_mppe
alias ppp-compress-21 bsd_comp
alias ppp-compress-24 ppp_deflate
alias ppp-compress-26 ppp_deflate
alias ppp ppp_async
alias parport_lowlevel parport_pc
alias usbdevfs usbcore
alias xfrm-type-2-50 esp4
alias xfrm-type-2-51 ah4
alias xfrm-type-2-108 ipcomp
alias xfrm-type-10-50 esp6
alias xfrm-type-10-51 ah6
alias xfrm-type-10-108 ipcomp6
alias cipher_null crypto_null
alias digest_null crypto_null
alias compress_null crypto_null
alias sha384 sha512
alias char-major-81-* bttv
alias /dev/ppp ppp_generic
alias loop-xfer-gen-0 loop_gen
alias loop-xfer-3 loop_fish2
alias loop-xfer-gen-10 loop_gen
alias cipher-2 des
alias cipher-3 fish2
alias cipher-4 blowfish
alias cipher-6 idea
alias cipher-7 serp6f
alias cipher-8 mars6
alias cipher-11 rc62
alias cipher-15 dfc2
alias cipher-16 rijndael
alias cipher-17 rc5
alias char-major-89-* i2c-dev
alias /dev/nvdiactl NVdriver
alias binfmt-0064 binfmt_aout
options sb io=0x220 irq=7 dma=1 dma16=5 mpu_io=0x330
install binfmt-0000 /bin/true
```

```
install char-major-10 /bin/true
install char-major-10-1 /bin/true
install dummy0 /sbin/modprobe -o dummy0 --ignore-install dummy
install dummy1 /sbin/modprobe -o dummy1 --ignore-install dummy
install eth0 /bin/true
install net-pf-10 /bin/true
install net-pf-19 /bin/true
install net-pf-3 /bin/true
install net-pf-6 /bin/true
install scsi_hostadapter /bin/true
```

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Subject: Re: Will development now move to 2.6.16?  
Posted by [vaverin](#) on Tue, 21 Mar 2006 10:32:58 GMT  
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Hello Mephisto,

Usually we tried to include all the required drivers into kernels, but our i2o driver did not work by this way and we should be forced to compile it as module. Therefore you should use initrd or initramfs images for our kernels.

I hope our kernel will work when you include initrd image to your lilo.conf file.

Unfortunately I'm not familiar with Gentoo. I suppose that the list of required modules on this distributive are stored in /etc/modules.conf file. If you will have problems with our kernel, please send me /etc/modules.conf file and your initramfs file.

Thank you,  
Vasily Averin

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Subject: Re: Will development now move to 2.6.16?  
Posted by [dev](#) on Tue, 21 Mar 2006 10:34:12 GMT  
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BTW, do you have any bootup logs/screens with the information how 2.6.8 crashed on your machines?

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Subject: Re: Will development now move to 2.6.16?  
Posted by [mephisto](#) on Tue, 21 Mar 2006 10:38:15 GMT  
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2.6.8 never crashed, it didn't even start (could not mount root fs). It was 2.6.15. I have the feeling that it was a memory related problem because people complained that the server was getting slower and slower before being not available anymore - yes I'm using the node as a server even though it is not recommended.

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Subject: Re: Will development now move to 2.6.16?  
Posted by [mephisto](#) on Tue, 21 Mar 2006 10:41:28 GMT  
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I just realized that CONFIG\_SCSI\_DPT\_I2O was not compiled into the openvz kernel while it was compiled into the running kernel - might have been my own stupidity all along.

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Subject: Re: Will development now move to 2.6.16?  
Posted by [dev](#) on Tue, 21 Mar 2006 10:49:20 GMT  
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Oh, ok. Give us to know whether it helped or some other efforts are needed from us to resolve it.

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Subject: Re: Will development now move to 2.6.16?  
Posted by [vaverin](#) on Tue, 21 Mar 2006 11:19:43 GMT  
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hello Mephisto

We use a new driver for this hardware: i2o\_block (CONFIG\_I2O\_BLOCK)  
I would note that dpt\_i2o driver also did not work inside kernel.  
I've tried to build dpt\_i2o driver as module and it works OK,

But dpt\_i2o and i2o\_block drivers have a conflicts and cannot be loaded together.

Thank you,  
Vasily Averin

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Subject: Re: Will development now move to 2.6.16?  
Posted by [mephisto](#) on Tue, 21 Mar 2006 16:07:02 GMT  
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So i2o\_block is a replacement for dpt\_i2o? What is the advantage of i2o\_block? In my running 2.6.14 kernel I have CONFIG\_I2O\_EXT\_ADAPTEC=y - is that a replacement for CONFIG\_I2O\_BLOCK?

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Subject: Re: Will development now move to 2.6.16?  
Posted by [vaverin](#) on Tue, 21 Mar 2006 17:39:41 GMT  
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Hello Mephisto,

yes, i2o\_block is new driver for i2o hardware, it replaced old dpt\_i2o driver in 2.6-based Red Hat distributions.

CONFIG\_I2O\_EXT\_ADAPTEC is not the same as CONFIG\_I2O\_BLOCK  
There are 2 different suboption of new i2o layer.

to build new i2o layer you should enable at least following config options in kernel config file:

```
CONFIG_I2O=m  
CONFIG_I2O_CONFIG=m  
CONFIG_I2O_BLOCK=m  
CONFIG_I2O_SCSI=m
```

I would note that i2o\_block driver used unusual device names:  
instead usual scsi-like /dev/sda it uses /dev/i2o/hda device names. If you not use LABEL's on your filesystem, you may have troubles with partition mounting.

I would note that the best solution is to use the same driver as on your linux distribution.  
If Gentoo uses dpt\_i2o driver -- that I would recommend you to \_disable\_ CONFIG\_I2O option at all and enable compilation for old dpt\_i2o driver:  
CONFIG\_SCSI\_DPT\_I2O=m

Thank you,  
Vasily Averin

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Subject: Re: Will development now move to 2.6.16?  
Posted by [dev](#) on Wed, 22 Mar 2006 08:42:35 GMT  
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Quote:I just realized that CONFIG\_SCSI\_DPT\_I2O was not compiled into the openvz kernel while it was compiled into the running kernel - might have been my own stupidity all along.

mephisto, does it work now? have you managed starting it?

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Subject: Re: Will development now move to 2.6.16?  
Posted by [mephisto](#) on Wed, 22 Mar 2006 15:00:37 GMT  
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So far not. I converted my fstab to use LABELS for my reiserfs partitions, but couldn't label my root partition. I'm uncertain what to add to my "root = " line in lilo.conf as /dev/i2o/hda2 was not

accepted by lilo.

I recompiled my kernel to use dpt\_i2o again and will try it later today.

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Subject: Re: Will development now move to 2.6.16?

Posted by [mephisto](#) on Fri, 24 Mar 2006 13:47:31 GMT

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I've been so far unable to boot the kernel with CONFIG\_I2O\_BLOCK. The 2.6.15 and 2.6.16 kernels boot with dpt\_i2o, but get unstable after the node has been running for about a day. I've copied about 100GB of data using rsync without problems, but once the Samba fileserv on the hardware node was running and under regular use the machine got slower and slower until it wasn't usable anymore. No VPS was running at that time, just the VZ modules were loaded. I don't think it's a memory issue, because I trippled the memory from 512MB to 1,5GB and the time until it goes down is the same.

My 2.6.16 kernel config can be found here

I will investigate the problem with 2.6.8 once I get it to boot.

PS: I've been running 2.6.15-025stab014.1 without problems on another Gentoo system using the same build environment. That hardware node is running LAMP in addition to OpenVZ, so it must either be hardware related or related to Samba.

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Subject: Re: Will development now move to 2.6.16?

Posted by [dev](#) on Sat, 08 Apr 2006 17:56:52 GMT

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mephisto, any progress with booting 2.6.8?

can I help somehow? maybe you can provide boot messages from 2.6.8 when it doesn't boot (e.g. through serial or net console?)

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Subject: Re: SCSI DPT vs I2O problems [was: Will development now move to 2.6.16?]

Posted by [mephisto](#) on Thu, 13 Apr 2006 11:56:12 GMT

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Here is the output of the not booting 2.6.8-022stab072:

Loading Adaptec I2O RAID: Version 2.4 Build 5go

Detecting Adaptec I2O RAID controllers...

ACPI: PCI interrupt 0000:06:01.0[A] -> GSI 72 (level, low) -> IRQ 72

Adaptec I2O RAID controller 0 irq=72

BAR0 f4807000 - size= 100000

BAR1 f4998000 - size= 1000000

dpti: If you have a lot of devices this could take a few minutes  
dpti0: Reading the hardware resource table.  
dpti0: Get status timeout.  
scsi0: Vendor: Adaptec Model:  
mice: PS/2 mouse device common for all mice  
serio: i8042 AUX port at 0x60,0x64 irq 12  
input: PS/2 Generic Mouse on isa0060/serio1  
serio:i8042 KBD port at 0x60,0x64 irq 1  
input: AT Translated Set 2 keyboard on isa0060/serio0  
device-mapper: 4.1.0-ioctl (2003-12-10) initialised: dm@uk.sistina.com  
NET: Registered protocol family 2  
IP: routing cache hash table of 16384 buckets, 128Kbytes  
TCP: Hash tables configured (established 524288 bind 65536)  
NET: Registered protocol family 1  
Starting balanced\_irq  
VFS: Cannot open root device "sda2" or unknown-block(0,0)  
Please append a correct "root=" boot option  
Kernel panic: VFS: Unable to mount root fs on unknown-block(0,0)

Both kernels have these options set. While the 2.6.16 kernel boots, the 2.6.8 kernel doesn't:

```
CONFIG_SCSI_AIC79XX=y
CONFIG_AIC79XX_CMDS_PER_DEVICE=32
CONFIG_AIC79XX_RESET_DELAY_MS=15000
# CONFIG_AIC79XX_BUILD_FIRMWARE is not set
CONFIG_AIC79XX_ENABLE_RD_STRM=y
CONFIG_AIC79XX_DEBUG_ENABLE=y
CONFIG_AIC79XX_DEBUG_MASK=0
CONFIG_AIC79XX_REG_PRETTY_PRINT=y
CONFIG_SCSI_DPT_I2O=y
```

```
#
# I2O device support
#
CONFIG_I2O=m
CONFIG_I2O_CONFIG=m
# CONFIG_I2O_BLOCK is not set
CONFIG_I2O_SCSI=m
CONFIG_I2O_PROC=m
```

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Subject: Re: SCSI DPT vs I2O problems [was: Will development now move to 2.6.16?]

Posted by [khorenko](#) on Fri, 21 Apr 2006 09:45:18 GMT

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mephisto, as vaverin have already said we had faced issues that i2o\_block and dpt\_i2o drivers do

not work properly in 2.6.8 kernel if compiled into the kernel.

Please, could you build a 2.6.8 OpenVZ kernel with `_disabled_ CONFIG_I2O` option and `CONFIG_SCSI_DPT_I2O=m` (message #2135)?

Yes, in that case you should create `initrd` file to boot, but it looks like this is the only possible way to make `dpt_i2o` driver working in 2.6.8 kernel.

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Subject: Re: SCSI DPT vs I2O problems [was: Will development now move to 2.6.16?]

Posted by [mephisto](#) on Fri, 21 Apr 2006 09:52:07 GMT

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I also tried that and it did not work. I'm sorry I have no error message but I'm happy the system is running now and I can't reboot it.

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