

[PATCH 2.6.13] Fix pio_mask values

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-08/7681.html>

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Date: 08/30/05

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Date: Tue, 30 Aug 2005 15:03:09 -0400 (EDT)

ata_get_mode_mask() has PIO modes 3 and 4 as bits 3 and 4 in the pio_mask since the value read from the drive is shifted left by 3 bits and OR'd with 0x7 (which corresponds to PIO 2-0). Thus, the drivers below need adjustments to comply with the way pio_mask is used. I left the masks in a state which agrees with the existing comments; perhaps they all should get 0x1f to indicate driver support for PIO4-0 but that can be done later.

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Index: linux-2.6.13/drivers/scsi/ahci.c

```
=====
--- linux-2.6.13.orig/drivers/scsi/ahci.c
+++ linux-2.6.13/drivers/scsi/ahci.c
@@ -244,7 +244,7 @@ static struct ata_port_info ahci_port_in
     .host_flags = ATA_FLAG_SATA | ATA_FLAG_NO_LEGACY |
                 ATA_FLAG_SATA_RESET | ATA_FLAG_MMIO |
                 ATA_FLAG_PIO_DMA,
- .pio_mask = 0x03, /* pio3-4 */
+ .pio_mask = 0x18, /* pio3-4 */
     .udma_mask = 0x7f, /* udma0-6 ; FIXME */
     .port_ops = &ahci_ops,
 },
```

Index: linux-2.6.13/drivers/scsi/sata_uli.c

```
=====
--- linux-2.6.13.orig/drivers/scsi/sata_uli.c
+++ linux-2.6.13/drivers/scsi/sata_uli.c
@@ -120,7 +120,7 @@ static struct ata_port_info uli_port_inf
     .sht = &uli_sht,
     .host_flags = ATA_FLAG_SATA | ATA_FLAG_SATA_RESET |
                 ATA_FLAG_NO_LEGACY,
- .pio_mask = 0x03, //support pio mode 4 (FIXME)
+ .pio_mask = 0x10, //support pio mode 4 (FIXME)
     .udma_mask = 0x7f, //support udma mode 6
     .port_ops = &uli_ops,
 };
```

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