

[PATCH] libata: add ATAPI module option

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-08/7727.html>

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To: linux-ide@vger.kernel.org

Though DMA alignment, CDB interrupt, DMADIR, and PIO support issues keep libata's ATAPI support turned off by default, as of 2.6.13-git1 PATA users with non-ancient CDROM and DVD drives can start testing the ATAPI code.

I just checked the following patch into the 'upstream' branch of libata-dev.git, to be sent to Linus in a few days.

To emphasize, however: DO NOT use libata ATAPI in a production setting.

[libata] allow ATAPI to be enabled with new `atapi_enabled` module option

ATAPI is getting close to being ready. To increase exposure, we enable the code in the upstream kernel, but default it to off (present behavior). Users must pass `atapi_enabled=1` as a module option (if module) or on the kernel command line (if built in) to turn on discovery of their ATAPI devices.

```
diff --git a/drivers/scsi/libata-core.c b/drivers/scsi/libata-core.c
--- a/drivers/scsi/libata-core.c
+++ b/drivers/scsi/libata-core.c
@@ -75,6 +75,10 @@ static void __ata_qc_complete(struct ata
static unsigned int ata_unique_id = 1;
static struct workqueue_struct *ata_wq;

+int atapi_enabled = 0;
+module_param(atapi_enabled, int, 0444);
+MODULE_PARM_DESC(atapi_enabled, "Enable discovery of ATAPI devices (0=off, 1=on)");
+
MODULE_AUTHOR("Jeff Garzik");
MODULE_DESCRIPTION("Library module for ATA devices");
MODULE_LICENSE("GPL");
diff --git a/drivers/scsi/libata-scsi.c b/drivers/scsi/libata-scsi.c
--- a/drivers/scsi/libata-scsi.c
+++ b/drivers/scsi/libata-scsi.c
@@ -1470,10 +1470,10 @@ ata_scsi_find_dev(struct ata_port *ap, s
```

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```
    if (unlikely(!ata_dev_present(dev)))
        return NULL;

#ifndef ATA_ENABLE_ATAPI
- if (unlikely(dev->class == ATA_DEV_ATAPI))
- return NULL;
#endif
+ if (atapi_enabled) {
+ if (unlikely(dev->class == ATA_DEV_ATAPI))
+ return NULL;
+ }

    return dev;
}
diff --git a/drivers/scsi/libata.h b/drivers/scsi/libata.h
--- a/drivers/scsi/libata.h
+++ b/drivers/scsi/libata.h
@@ -38,6 +38,7 @@ struct ata_scsi_args {
};

/* libata-core.c */
+extern int atapi_enabled;
extern struct ata_queued_cmd *ata_qc_new_init(struct ata_port *ap,
                                             struct ata_device *dev);
extern void ata_qc_free(struct ata_queued_cmd *qc);
diff --git a/include/linux/libata.h b/include/linux/libata.h
--- a/include/linux/libata.h
+++ b/include/linux/libata.h
@@ -40,7 +40,6 @@
#undef ATA_VERBOSE_DEBUG /* yet more debugging output */
#undef ATA_IRQ_TRAP /* define to ack screaming irqs */
#undef ATA_NDEBUG /* define to disable quick runtime checks */
-#undef ATA_ENABLE_ATAPI /* define to enable ATAPI support */
#undef ATA_ENABLE_PATA /* define to enable PATA support in some
                       * low-level drivers */
#undef ATAPI_ENABLE_DMADIR /* enables ATAPI DMADIR bridge support */
-
```

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