Subject: [PATCH 2/5] fixing errors handling during pci_driver resume stage [ata]
Posted by Dmitriy Monakhov on Tue, 09 Jan 2007 09:01:28 GMT
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ata pci drivers have to return correct error code during resume stage in
case of errors.
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```
diff --git a/drivers/ata/ahci.c b/drivers/ata/ahci.c
index b517d24..0656334 100644
--- a/drivers/ata/ahci.c
+++ b/drivers/ata/ahci.c
@@ -1372,7 +1372,9 @@ static int ahci_pci_device_resume(struct
  void __iomem *mmio = host->mmio_base;
  int rc;

- ata_pci_device_do_resume(pdev);
+ rc = ata_pci_device_do_resume(pdev);
+ if (rc)
+  return rc;

  if (pdev->dev.power.power_state.event == PM_EVENT_SUSPEND) {
   rc = ahci_reset_controller(mmio, pdev);
diff --git a/drivers/ata/libata-core.c b/drivers/ata/libata-core.c
index 0d51d13..3d6729d 100644
--- a/drivers/ata/libata-core.c
+++ b/drivers/ata/libata-core.c
@@ -6221,12 +6221,19 @@ void ata_pci_device_do_suspend(struct pc
  }
 }

-void ata_pci_device_do_resume(struct pci_dev *pdev)
+int ata_pci_device_do_resume(struct pci_dev *pdev)
 {
+ int ret = 0;
  pci_set_power_state(pdev, PCI_D0);
  pci_restore_state(pdev);
- pci_enable_device(pdev);
+ ret = pci_enable_device(pdev);
+ if (ret) {
+  dev_err(&pdev->dev, "Cannot enable PCI device, aborting.\n");
+  return ret;
+ }
+
  pci_set_master(pdev);
+ return ret;
 }
```

```
 int ata_pci_device_suspend(struct pci_dev *pdev, pm_message_t mesg)
@@ -6246,8 +6253,10 @@ int ata_pci_device_suspend(struct pci_de
 int ata_pci_device_resume(struct pci_dev *pdev)
 {
  struct ata_host *host = dev_get_drvdata(&pdev->dev);
+ int err;

- ata_pci_device_do_resume(pdev);
+ if ((err = ata_pci_device_do_resume(pdev)))
+  return err;
  ata_host_resume(host);
  return 0;
 }
diff --git a/drivers/ata/sata_sil.c b/drivers/ata/sata_sil.c
index 7808d03..8451143 100644
--- a/drivers/ata/sata_sil.c
+++ b/drivers/ata/sata_sil.c
@@ -710,8 +710,12 @@ err_out:
 static int sil_pci_device_resume(struct pci_dev *pdev)
 {
  struct ata_host *host = dev_get_drvdata(&pdev->dev);
+ int err;
+
+ err = ata_pci_device_do_resume(pdev);
+ if (err)
+  return err;

- ata_pci_device_do_resume(pdev);
  sil_init_controller(pdev, host->n_ports, host->ports[0]->flags,
        host->mmio_base);
  ata_host_resume(host);
diff --git a/drivers/ata/sata_sil24.c b/drivers/ata/sata_sil24.c
index 5aa288d..be6971a 100644
--- a/drivers/ata/sata_sil24.c
+++ b/drivers/ata/sata_sil24.c
@@ -1200,8 +1200,11 @@ static int sil24_pci_device_resume(struc
 {
  struct ata_host *host = dev_get_drvdata(&pdev->dev);
  struct sil24_host_priv *hpriv = host->private_data;
+ int err;

- ata_pci_device_do_resume(pdev);
+ err = ata_pci_device_do_resume(pdev);
+ if (err)
+  return err;

  if (pdev->dev.power.power_state.event == PM_EVENT_SUSPEND)
```

```
   writel(HOST_CTRL_GLOBAL_RST, hpriv->host_base + HOST_CTRL);
diff --git a/include/linux/libata.h b/include/linux/libata.h
index ab27548..283ca72 100644
--- a/include/linux/libata.h
+++ b/include/linux/libata.h
@@ -719,7 +719,7 @@ extern int ata_pci_init_one (struct pci_
        unsigned int n_ports);
 extern void ata_pci_remove_one (struct pci_dev *pdev);
 extern void ata_pci_device_do_suspend(struct pci_dev *pdev, pm_message_t mesg);
-extern void ata_pci_device_do_resume(struct pci_dev *pdev);
+extern int ata_pci_device_do_resume(struct pci_dev *pdev);
 extern int ata_pci_device_suspend(struct pci_dev *pdev, pm_message_t mesg);
 extern int ata_pci_device_resume(struct pci_dev *pdev);
 extern int ata_pci_clear_simplex(struct pci_dev *pdev);
```