
Subject: [patch scsi] cciss: make fair timeouts during initialization

Posted by [khorenko](#) on Thu, 02 Mar 2006 07:10:53 GMT

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Patch makes fair initialization timeouts in cciss driver.

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cciss driver has following code for timeouts during board initialization:

```
...
for(i=0;i<MAX_CONFIG_WAIT;i++) {
    ...
    set_current_state(TASK_INTERRUPTIBLE);
    schedule_timeout(10);
}
...
```

We compile cciss driver into the kernel and thus at the kernel boot `schedule_timeout()` returns very quickly and resulted timeouts became insufficient for correct board initialization.

Particularly, we often got following error:

```
--
HP CISS Driver (v 2.6.8)
cciss: Device 0x46 has been found at bus 6 dev 1 func 0
cciss: unable to get board into simple mode
cciss: probe of 0000:06:01.0 failed with error -1
--
```

The patch is designed to make fair initialization timeouts.

Hope, you'll check this changes and find them usefull. :)
Kernel with patch was compiled and tested on two nodes.
This patch is against mainstream 2.6.16-rc5 kernel.

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Best regards,

Konstantin Khorenko,
SWsoft, Inc.

```
--- ./drivers/block/cciss.c.16-rc5 2006-03-01 11:13:03.000000000 +0300
+++ ./drivers/block/cciss.c 2006-03-02 09:30:38.000000000 +0300
@@ -1893,7 +1893,7 @@ static unsigned long pollcomplete(int ct
     for (i = 20 * HZ; i > 0; i--) {
         done = hba[ctrl]->access.command_completed(hba[ctrl]);
         if (done == FIFO_EMPTY)
```

```

- schedule_timeout_uninterruptible(1);
+ msleep(1);
  else
    return (done);
}
@@ -2817,8 +2817,7 @@ static int cciss_pci_init(ctrl_info_t *c
    scratchpad = readl(c->vaddr + SA5_SCRATCHPAD_OFFSET);
    if (scratchpad == CCISS_FIRMWARE_READY)
        break;
- set_current_state(TASK_INTERRUPTIBLE);
- schedule_timeout(HZ / 10); /* wait 100ms */
+ msleep(100); /* wait 100ms */
}
if (scratchpad != CCISS_FIRMWARE_READY) {
    printk(KERN_WARNING "cciss: Board not ready. Timed out.\n");
@@ -2903,8 +2902,7 @@ static int cciss_pci_init(ctrl_info_t *c
    if (!(readl(c->vaddr + SA5_DOORBELL) & CFGTBL_ChangeReq))
        break;
    /* delay and try again */
- set_current_state(TASK_INTERRUPTIBLE);
- schedule_timeout(10);
+ msleep(10);
}

#ifdef CCISS_DEBUG
#
# Patch makes fair initialization timeouts in cciss driver.
#
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```
