

# RFC: add udev support to parport\_pc

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- *From:* "Jason Dravet" <[dravet@xxxxxxxxxxxx](mailto:dravet@xxxxxxxxxxxx)>
  - *Date:* Sat, 31 Dec 2005 11:20:00 -0600
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Here is a patch to parport\_pc.c that adds udev support. Without it sysfs does not have enough information to give to udev so the lp and parport nodes can be created. The only problem I have is the kernel\_oops when I do the following: insmod parport, insmod parport\_pc, rmmmod parport\_pc, rmmmod parport, insmod parport, insmod parport\_pc, rmmmod parport\_pc, kernel oops.

From the part of the traceback I can read the problem is in parport\_pc\_exit.

Any help in tracking down the problem would be appreciated. If this is acceptable how can I get this added to the mainline? This is my first patch so please be gentle.

Thanks,  
Jason Dravet

```
Signed-off-by: Jason Dravet <dravet@xxxxxxxxxxxx>
--- /usr/src/linux-2.6.14/drivers/parport/parport_pc.c.orig 2005-12-30
13:52:48.000000000 -0600
+++ /usr/src/linux-2.6.14/drivers/parport/parport_pc.c 2005-12-30
19:56:20.000000000 -0600
@@ -55,6 +55,7 @@
#include <linux/pci.h>
#include <linux/pnp.h>
#include <linux/sysctl.h>
+#include <linux/sysfs.h>

#include <asm/io.h>
#include <asm/dma.h>
@@ -99,6 +100,8 @@ static struct superio_struct {          /* For Su
    int dma;
} superios[NR_SUPERIOS] __devinitdata = { {0},,};

+static struct class *parallel_class;
+
```

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```
static int user_specified;
#if defined(CONFIG_PARPORT_PC_SUPERIO) || \
    (defined(CONFIG_PARPORT_1284) && defined(CONFIG_PARPORT_PC_FIFO))
@@ -2232,6 +2235,25 @@ struct parport *parport_pc_probe_port (u
                                is mandatory (see above) */
    p->dma = PARPORT_DMA_NONE;

+ parallel_class = class_create(THIS_MODULE, "lp");
+ if (p->base == 888) /* 888 is dec for 378h */
+ {
+ class_device_create(parallel_class, NULL, MKDEV(6, 0), NULL, "lp0");
+ class_device_create(parallel_class, NULL, MKDEV(99, 0), NULL,
"parport0");
+ }
+
+ if (p->base == 632) /* 632 is dec for 278h */
+ {
+ class_device_create(parallel_class, NULL, MKDEV(6, 1), NULL, "lp1");
+ class_device_create(parallel_class, NULL, MKDEV(99, 1), NULL,
"parport1");
+ }
+
+ if (p->base == 956) /* 956 is dec for 3BCh */
+ {
+ class_device_create(parallel_class, NULL, MKDEV(6, 2), NULL, "lp2");
+ class_device_create(parallel_class, NULL, MKDEV(99, 2), NULL,
"parport2");
+ }
+
#ifdef CONFIG_PARPORT_PC_FIFO
if (parport_ECP_supported(p) &&
p->dma != PARPORT_DMA_NOFIFO &&
@@ -3406,6 +3428,13 @@ static void __exit parport_pc_exit(void)
if (pnp_registered_parport)
pnp_unregister_driver (&parport_pc_pnp_driver);

+ class_device_destroy(parallel_class, MKDEV(99, 2));
+ class_device_destroy(parallel_class, MKDEV(6, 2));
+ class_device_destroy(parallel_class, MKDEV(99, 1));
+ class_device_destroy(parallel_class, MKDEV(6, 1));
+ class_device_destroy(parallel_class, MKDEV(99, 0));
+ class_device_destroy(parallel_class, MKDEV(6, 0));
+
spin_lock(&ports_lock);
while (!list_empty(&ports_list)) {
    struct parport_pc_private *priv;
```

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