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Subject: [PATCH 06/12] proc: switch /proc/bus/ecard/devices to seq\_file interface  
Posted by [Alexey Dobriyan](#) on Tue, 08 Apr 2008 14:57:13 GMT  
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Signed-off-by: Alexey Dobriyan <[adobriyan@sw.ru](mailto:adobriyan@sw.ru)>

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arch/arm/kernel/ecard.c | 54 ++++++-----  
1 file changed, 26 insertions(+), 28 deletions(-)

```
--- a/arch/arm/kernel/ecard.c
+++ b/arch/arm/kernel/ecard.c
@@ -37,6 +37,7 @@
#include <linux/mm.h>
#include <linux/slab.h>
#include <linux/proc_fs.h>
+#include <linux/seq_file.h>
#include <linux/device.h>
#include <linux/init.h>
#include <linux/mutex.h>
@@ -723,17 +724,14 @@ unsigned int __ecard_address(ecard_t *ec, card_type_t type,
card_speed_t speed)
    return address;
}

-static int ecard_prints(char *buffer, ecard_t *ec)
+static int ecard_prints(struct seq_file *m, ecard_t *ec)
{
- char *start = buffer;
-
- buffer += sprintf(buffer, " %d: %s ", ec->slot_no,
-   ec->easi ? "EASI" : " ");
+ seq_printf(m, " %d: %s ", ec->slot_no, ec->easi ? "EASI" : " ");

    if (ec->cid.id == 0) {
        struct in_chunk_dir incd;

- buffer += sprintf(buffer, "[%04X:%04X] ",
+ seq_printf(m, "[%04X:%04X] ",
        ec->cid.manufacturer, ec->cid.product);

        if (!ec->card_desc && ec->cid.cd &&
@@ -744,43 +742,43 @@ static int ecard_prints(char *buffer, ecard_t *ec)
        strcpy((char *)ec->card_desc, incd.d.string);
    }

- buffer += sprintf(buffer, "%s\n", ec->card_desc ? ec->card_desc : "*unknown*");
+ seq_printf(m, "%s\n", ec->card_desc ? ec->card_desc : "*unknown*");
```

```

    } else
-   buffer += sprintf(buffer, "Simple card %d\n", ec->cid.id);
+   seq_printf(m, "Simple card %d\n", ec->cid.id);

-   return buffer - start;
+   return 0;
}

-static int get_ecard_dev_info(char *buf, char **start, off_t pos, int count)
+static int ecard_devices_proc_show(struct seq_file *m, void *v)
{
    ecard_t *ec = cards;
-   off_t at = 0;
-   int len, cnt;
-
-   cnt = 0;
-   while (ec && count > cnt) {
-       len = ecard_prints(buf, ec);
-       at += len;
-       if (at >= pos) {
-           if (!*start) {
-               *start = buf + (pos - (at - len));
-               cnt = at - pos;
-           } else
-               cnt += len;
-           buf += len;
-       }
+       while (ec) {
+           ecard_prints(m, ec);
+           ec = ec->next;
+       }
-       return (count > cnt) ? cnt : count;
+       return 0;
    }

+static int ecard_devices_proc_open(struct inode *inode, struct file *file)
+{
+   return single_open(file, ecard_devices_proc_show, NULL);
+}
+
+static const struct file_operations bus_ecard_proc_fops = {
+   .owner = THIS_MODULE,
+   .open = ecard_devices_proc_open,
+   .read = seq_read,
+   .llseek = seq_lseek,
+   .release = single_release,
+};

```

```

+
static struct proc_dir_entry *proc_bus_ecard_dir = NULL;

static void ecard_proc_init(void)
{
    proc_bus_ecard_dir = proc_mkdir("bus/ecard", NULL);
- create_proc_info_entry("devices", 0, proc_bus_ecard_dir,
- get_ecard_dev_info);
+ proc_create("devices", 0, proc_bus_ecard_dir, &bus_ecard_proc_fops);
}

#define ec_set_resource(ec,nr,st,sz) \
--

```

1.5.4.3

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