
Subject: [PATCH 04/12] proc: switch /proc/apm to seq_file interface

Posted by [Alexey Dobriyan](#) on Tue, 08 Apr 2008 14:54:35 GMT

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Signed-off-by: Alexey Dobriyan <adobriyan@sw.ru>

Careful, my cross-compile farm is currently defunct

drivers/char/apm-emulation.c | 23 ++++++-----
1 file changed, 18 insertions(+), 5 deletions(-)

--- a/drivers/char/apm-emulation.c

+++ b/drivers/char/apm-emulation.c

@@ -14,6 +14,7 @@

#include <linux/poll.h>

#include <linux/slab.h>

#include <linux/proc_fs.h>

+#include <linux/seq_file.h>

#include <linux/miscdevice.h>

#include <linux/apm_bios.h>

#include <linux/capability.h>

@@ -493,11 +494,10 @@ static struct miscdevice apm_device = {

* -1: Unknown

* 8) min = minutes; sec = seconds

*/

-static int apm_get_info(char *buf, char **start, off_t fpos, int length)

+static int proc_apm_show(struct seq_file *m, void *v)

{

struct apm_power_info info;

char *units;

- int ret;

info.ac_line_status = 0xff;

info.battery_status = 0xff;

@@ -515,14 +515,27 @@ static int apm_get_info(char *buf, char **start, off_t fpos, int length)

case 1: units = "sec"; break;

}

- ret = sprintf(buf, "%s 1.2 0x%02x 0x%02x 0x%02x 0x%02x %d%% %d %s\n",

+ seq_printf(m, "%s 1.2 0x%02x 0x%02x 0x%02x 0x%02x %d%% %d %s\n",

driver_version, APM_32_BIT_SUPPORT,

info.ac_line_status, info.battery_status,

info.battery_flag, info.battery_life,

info.time, units);

- return ret;

+ return 0;

```

}
+
+static int proc_apm_open(struct inode *inode, struct file *file)
+{
+ return single_open(file, proc_apm_show, NULL);
+}
+
+static const struct file_operations apm_proc_fops = {
+ .owner = THIS_MODULE,
+ .open = proc_apm_open,
+ .read = seq_read,
+ .llseek = seq_lseek,
+ .release = single_release,
+};
#endif

static int kapmd(void *arg)
@@ -593,7 +606,7 @@ static int __init apm_init(void)
wake_up_process(kapmd_tsk);

#ifdef CONFIG_PROC_FS
- create_proc_info_entry("apm", 0, NULL, apm_get_info);
+ proc_create("apm", 0, NULL, &apm_proc_fops);
#endif

ret = misc_register(&apm_device);
--
1.5.4.3

```
