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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](mailto:adobriyan@sw.ru)>

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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

```

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