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>
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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
```