
Subject: [PATCH 02/12] proc: switch /proc/driver/radio-typhoon to seq_file interface
Posted by [Alexey Dobriyan](#) on Tue, 08 Apr 2008 14:51:57 GMT
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Signed-off-by: Alexey Dobriyan <adobriyan@sw.ru>

drivers/media/radio/radio-typhoon.c | 40 ++++++-----
1 file changed, 23 insertions(+), 17 deletions(-)

```
--- a/drivers/media/radio/radio-typhoon.c
+++ b/drivers/media/radio/radio-typhoon.c
@@ -35,6 +35,7 @@
#include <linux/init.h> /* Initdata */
#include <linux/ioport.h> /* request_region */
#include <linux/proc_fs.h> /* radio card status report */
+#include <linux/seq_file.h>
#include <asm/io.h> /* outb, outb_p */
#include <asm/uaccess.h> /* copy to/from user */
#include <linux/videodev2.h> /* kernel radio structs */
@@ -93,9 +94,6 @@ static int typhoon_setfreq(struct typhoon_device *dev, unsigned long
frequency);
static void typhoon_mute(struct typhoon_device *dev);
static void typhoon_unmute(struct typhoon_device *dev);
static int typhoon_setvol(struct typhoon_device *dev, int vol);
-#ifdef CONFIG_RADIO_TYPHOON_PROC_FS
-static int typhoon_get_info(char *buf, char **start, off_t offset, int len);
-#endif

static void typhoon_setvol_generic(struct typhoon_device *dev, int vol)
{
@@ -368,30 +366,39 @@ static struct video_device typhoon_radio =

#ifdef CONFIG_RADIO_TYPHOON_PROC_FS

-static int typhoon_get_info(char *buf, char **start, off_t offset, int len)
+static int typhoon_proc_show(struct seq_file *m, void *v)
{
- char *out = buf;
-
-#ifdef MODULE
- #define MODULEPROCSTRING "Driver loaded as a module"
-#else
- #define MODULEPROCSTRING "Driver compiled into kernel"
-#endif

- /* output must be kept under PAGE_SIZE */
- out += sprintf(out, BANNER);
```

```

- out += sprintf(out, "Load type: " MODULEPROCSTRING "\n\n");
- out += sprintf(out, "frequency = %lu kHz\n",
+ seq_puts(m, BANNER);
+ seq_puts(m, "Load type: " MODULEPROCSTRING "\n\n");
+ seq_printf(m, "frequency = %lu kHz\n",
    typhoon_unit.curfreq >> 4);
- out += sprintf(out, "volume = %d\n", typhoon_unit.curvol);
- out += sprintf(out, "mute = %s\n", typhoon_unit.muted ?
+ seq_printf(m, "volume = %d\n", typhoon_unit.curvol);
+ seq_printf(m, "mute = %s\n", typhoon_unit.muted ?
    "on" : "off");
- out += sprintf(out, "iobase = 0x%x\n", typhoon_unit.iobase);
- out += sprintf(out, "mute frequency = %lu kHz\n",
+ seq_printf(m, "iobase = 0x%x\n", typhoon_unit.iobase);
+ seq_printf(m, "mute frequency = %lu kHz\n",
    typhoon_unit.mutefreq >> 4);
- return out - buf;
+ return 0;
}

+static int typhoon_proc_open(struct inode *inode, struct file *file)
+{
+ return single_open(file, typhoon_proc_show, NULL);
+}
+
+static const struct file_operations typhoon_proc_fops = {
+ .owner = THIS_MODULE,
+ .open = typhoon_proc_open,
+ .read = seq_read,
+ .llseek = seq_lseek,
+ .release = single_release,
+};
+
+/* CONFIG_RADIO_TYPHOON_PROC_FS */

MODULE_AUTHOR("Dr. Henrik Seidel");
@@ -452,8 +459,7 @@ static int __init typhoon_init(void)
    typhoon_mute(&typhoon_unit);

#ifdef CONFIG_RADIO_TYPHOON_PROC_FS
- if (!create_proc_info_entry("driver/radio-typhoon", 0, NULL,
-     typhoon_get_info))
+ if (!proc_create("driver/radio-typhoon", 0, NULL, &typhoon_proc_fops))
    printk(KERN_ERR "radio-typhoon: registering /proc/driver/radio-typhoon failed\n");
#endif

--
1.5.4.3

```