
Subject: [PATCH 03/12] proc: switch /proc/bus/zorro/devices to seq_file interface
Posted by [Alexey Dobriyan](#) on Tue, 08 Apr 2008 14:52:57 GMT
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Signed-off-by: Alexey Dobriyan <adobriyan@sw.ru>

drivers/zorro/proc.c | 72 ++++++-----
1 file changed, 47 insertions(+), 25 deletions(-)

```
--- a/drivers/zorro/proc.c
+++ b/drivers/zorro/proc.c
@@ -13,6 +13,7 @@
#include <linux/types.h>
#include <linux/zorro.h>
#include <linux/proc_fs.h>
+#include <linux/seq_file.h>
#include <linux/init.h>
#include <linux/smp_lock.h>
#include <asm/uaccess.h>
@@ -80,32 +81,53 @@ static const struct file_operations proc_bus_zorro_operations = {
    .read = proc_bus_zorro_read,
};
```

```
-static int
-get_zorro_dev_info(char *buf, char **start, off_t pos, int count)
+static void * zorro_seq_start(struct seq_file *m, loff_t *pos)
{
- u_int slot;
- off_t at = 0;
- int len, cnt;
-
- for (slot = cnt = 0; slot < zorro_num_autocon && count > cnt; slot++) {
- struct zorro_dev *z = &zorro_autocon[slot];
- len = sprintf(buf, "%02x\t%08x\t%08lx\t%08lx\t%02x\n", slot,
-             z->id, (unsigned long)zorro_resource_start(z),
-             (unsigned long)zorro_resource_len(z),
-             z->rom.er_Type);
- at += len;
- if (at >= pos) {
- if (!*start) {
- *start = buf + (pos - (at - len));
- cnt = at - pos;
- } else
- cnt += len;
- buf += len;
- }
- }
}
```

```

- return (count > cnt) ? cnt : count;
+ return (*pos < zorro_num_autocon) ? pos : NULL;
+}
+
+static void * zorro_seq_next(struct seq_file *m, void *v, loff_t *pos)
+{
+ (*pos)++;
+ return (*pos < zorro_num_autocon) ? pos : NULL;
+}
+
+static void zorro_seq_stop(struct seq_file *m, void *v)
+{
+}
+
+static int zorro_seq_show(struct seq_file *m, void *v)
+{
+ u_int slot = *(loff_t *)v;
+ struct zorro_dev *z = &zorro_autocon[slot];
+
+ seq_printf(m, "%02x\t%08x\t%08lx\t%08lx\t%02x\n", slot, z->id,
+ (unsigned long)zorro_resource_start(z),
+ (unsigned long)zorro_resource_len(z),
+ z->rom.er_Type);
+ return 0;
+}
+
+static const struct seq_operations zorro_devices_seq_ops = {
+ .start = zorro_seq_start,
+ .next = zorro_seq_next,
+ .stop = zorro_seq_stop,
+ .show = zorro_seq_show,
+};
+
+static int zorro_devices_proc_open(struct inode *inode, struct file *file)
+{
+ return seq_open(file, &zorro_devices_seq_ops);
+}

+static const struct file_operations zorro_devices_proc_fops = {
+ .owner = THIS_MODULE,
+ .open = zorro_devices_proc_open,
+ .read = seq_read,
+ .llseek = seq_lseek,
+ .release = seq_release,
+};
+
+ static struct proc_dir_entry *proc_bus_zorro_dir;

```

```

static int __init zorro_proc_attach_device(u_int slot)
@@ -129,8 +151,8 @@ static int __init zorro_proc_init(void)

    if (MACH_IS_AMIGA && AMIGAHW_PRESENT(ZORRO)) {
        proc_bus_zorro_dir = proc_mkdir("bus/zorro", NULL);
- create_proc_info_entry("devices", 0, proc_bus_zorro_dir,
-     get_zorro_dev_info);
+ proc_create("devices", 0, proc_bus_zorro_dir,
+     &zorro_devices_proc_fops);
        for (slot = 0; slot < zorro_num_autocon; slot++)
            zorro_proc_attach_device(slot);
    }
--

```

1.5.4.3
