
Subject: [PATCH 10/12] proc: switch /proc/irda/irnet to seq_file interface

Posted by [Alexey Dobriyan](#) on Tue, 08 Apr 2008 14:58:35 GMT

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Probably interface misuse, because of the way iterating over hashbin is done.
However! Printing of socket number ("IrNET socket %d - ", i++) made conversion
to proper ->start/->next difficult enough to do blindly without hardware.
Said that, please apply.

Remove useless comment while I am it.

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

```
net/irda/irnet/irnet_irda.c | 65 ++++++-----
net/irda/irnet/irnet_irda.h |  8 -----
2 files changed, 34 insertions(+), 39 deletions(-)
```

```
--- a/net/irda/irnet/irnet_irda.c
+++ b/net/irda/irnet/irnet_irda.c
@@ -9,6 +9,7 @@
 */
```

```
#include "irnet_irda.h" /* Private header */
+#include <linux/seq_file.h>
```

```
/*
 * PPP disconnect work: we need to make sure we're in
@@ -1717,34 +1718,23 @@ irnet_expiry_indication(discinfo_t * expiry,
 */
```

```
#ifdef CONFIG_PROC_FS
-/*-----*/
-/*
- * Function irnet_proc_read (buf, start, offset, len, unused)
- *
- * Give some info to the /proc file system
- */
static int
-irnet_proc_read(char * buf,
- char ** start,
- off_t offset,
- int len)
+irnet_proc_show(struct seq_file *m, void *v)
{
    irnet_socket * self;
    char * state;
    int i = 0;
```

```

- len = 0;
-
  /* Get the IrNET server information... */
- len += sprintf(buf+len, "IrNET server - ");
- len += sprintf(buf+len, "IrDA state: %s, ",
+ seq_printf(m, "IrNET server - ");
+ seq_printf(m, "IrDA state: %s, ",
  (irnet_server.running ? "running" : "dead"));
- len += sprintf(buf+len, "stsap_sel: %02x, ", irnet_server.s.stsap_sel);
- len += sprintf(buf+len, "dtsap_sel: %02x\n", irnet_server.s.dtsap_sel);
+ seq_printf(m, "stsap_sel: %02x, ", irnet_server.s.stsap_sel);
+ seq_printf(m, "dtsap_sel: %02x\n", irnet_server.s.dtsap_sel);

  /* Do we need to continue ? */
  if(!irnet_server.running)
- return len;
+ return 0;

  /* Protect access to the instance list */
  spin_lock_bh(&irnet_server.spinlock);
@@ -1754,23 +1744,23 @@ irnet_proc_read(char * buf,
  while(self != NULL)
  {
    /* Start printing info about the socket. */
- len += sprintf(buf+len, "\nIrNET socket %d - ", i++);
+ seq_printf(m, "\nIrNET socket %d - ", i++);

    /* First, get the requested configuration */
- len += sprintf(buf+len, "Requested IrDA name: \"%s\", ", self->rname);
- len += sprintf(buf+len, "daddr: %08x, ", self->rdaddr);
- len += sprintf(buf+len, "saddr: %08x\n", self->rsaddr);
+ seq_printf(m, "Requested IrDA name: \"%s\", ", self->rname);
+ seq_printf(m, "daddr: %08x, ", self->rdaddr);
+ seq_printf(m, "saddr: %08x\n", self->rsaddr);

    /* Second, get all the PPP info */
- len += sprintf(buf+len, " PPP state: %s",
+ seq_printf(m, " PPP state: %s",
  (self->ppp_open ? "registered" : "unregistered"));
  if(self->ppp_open)
  {
- len += sprintf(buf+len, " unit: ppp%d",
+ seq_printf(m, " unit: ppp%d",
  ppp_unit_number(&self->chan));
- len += sprintf(buf+len, " channel: %d",
+ seq_printf(m, " channel: %d",
  ppp_channel_index(&self->chan));

```

```

- len += sprintf(buf+len, ", mru: %d",
+ seq_printf(m, ", mru: %d",
    self->mru);
/* Maybe add self->flags ? Later... */
}
@@ -1789,10 +1779,10 @@ irnet_proc_read(char * buf,
    state = "weird";
    else
        state = "idle";
- len += sprintf(buf+len, "\n IrDA state: %s, ", state);
- len += sprintf(buf+len, "daddr: %08x, ", self->daddr);
- len += sprintf(buf+len, "stsap_sel: %02x, ", self->stsap_sel);
- len += sprintf(buf+len, "dtsap_sel: %02x\n", self->dtsap_sel);
+ seq_printf(m, "\n IrDA state: %s, ", state);
+ seq_printf(m, "daddr: %08x, ", self->daddr);
+ seq_printf(m, "stsap_sel: %02x, ", self->stsap_sel);
+ seq_printf(m, "dtsap_sel: %02x\n", self->dtsap_sel);

    /* Next socket, please... */
    self = (irnet_socket *) hashbin_get_next(irnet_server.list);
@@ -1801,8 +1791,21 @@ irnet_proc_read(char * buf,
/* Spin lock end */
spin_unlock_bh(&irnet_server.spinlock);

- return len;
+ return 0;
}
+
+static int irnet_proc_open(struct inode *inode, struct file *file)
+{
+ return single_open(file, irnet_proc_show, NULL);
+}
+
+static const struct file_operations irnet_proc_fops = {
+ .owner = THIS_MODULE,
+ .open = irnet_proc_open,
+ .read = seq_read,
+ .llseek = seq_lseek,
+ .release = single_release,
+};
#endif /* PROC_FS */

@@@ -1841,7 +1844,7 @@@ irda_irnet_init(void)

#ifdef CONFIG_PROC_FS
/* Add a /proc file for irnet infos */
- create_proc_info_entry("irnet", 0, proc_irda, irnet_proc_read);

```

```

+ proc_create("irnet", 0, proc_irda, &irnet_proc_fops);
#endif /* CONFIG_PROC_FS */

/* Setup the IrNET server */
--- a/net/irda/irnet/irnet_irda.h
+++ b/net/irda/irnet/irnet_irda.h
@@ -159,14 +159,6 @@ static void
    DISCOVERY_MODE,
    void *);
#endif
-/* ----- PROC ENTRY ----- */
-#ifdef CONFIG_PROC_FS
-static int
- irnet_proc_read(char *,
-  char **,
-  off_t,
-  int);
-#endif /* CONFIG_PROC_FS */

/***** VARIABLES *****/

```

--
1.5.4.3
