

## 2.4.23 and CONFIG\_PROC\_FS=n

**Source:** <http://linux.derkeiler.com/Mailing-Lists/Kernel/2003-11/4792.html>

---

**From:** Geert Uytterhoeven ([geert\\_at\\_linux-m68k.org](mailto:geert_at_linux-m68k.org))

**Date:** 11/30/03

Date: Sun, 30 Nov 2003 19:55:48 +0100 (MET)  
To: "David S. Miller" <[davem@redhat.com](mailto:davem@redhat.com)>

When compiling 2.4.23 with CONFIG\_PROC\_FS disabled, I found a few network-related files that don't compile:

1. net/atm/br2684.c
2. net/core/pktgen.c
3. net/ipv4/netfilter/ipt\_recent.c

The patch below fixes 1 and 3. Note that 3 still generates a compiler warning ('ip\_list\_perms' defined but not used).

The packet generator is a bit trickier, since its functionality seems to depend completely on the proc file system.

```
--- linux-2.4.23/net/atm/br2684.c.orig 2003-10-01 20:49:26.000000000 +0200
+++ linux-2.4.23/net/atm/br2684.c 2003-11-30 12:06:32.000000000 +0100
@@ -678,6 +678,7 @@
     return -ENOIOCTLCMD;
 }

+#ifdef CONFIG_PROC_FS
/* Never put more than 256 bytes in at once */
static int br2684_proc_engine(loff_t pos, char *buf)
{
@@ -770,16 +771,19 @@
};

extern struct proc_dir_entry *atm_proc_root; /* from proc.c */
+#endif /* CONFIG_PROC_FS */

/* the following avoids some spurious warnings from the compiler */
#define UNUSED __attribute__((unused))

static int __init UNUSED br2684_init(void)
{
+#ifdef CONFIG_PROC_FS
    struct proc_dir_entry *p;
    if ((p = create_proc_entry("br2684", 0, atm_proc_root)) == NULL)
```

```

        return -ENOMEM;
    p->proc_fops = &br2684_proc_operations;
+##endif /* CONFIG_PROC_FS */
    br2684_ioctl_set(br2684_ioctl);
    return 0;
}
@@ -788,7 +792,9 @@
{
    struct br2684_dev *brdev;
    br2684_ioctl_set(NULL);
+##ifdef CONFIG_PROC_FS
    remove_proc_entry("br2684", atm_proc_root);
+##endif /* CONFIG_PROC_FS */
    while (!list_empty(&br2684_devs)) {
        brdev = list_entry_brdev(br2684_devs.next);
        unregister_netdev(&brdev->net_dev);
--- linux-2.4.23/net/ipv4/netfilter/ipt_recent.c.orig 2003-07-08 13:31:59.000000000 +0200
+++ linux-2.4.23/net/ipv4/netfilter/ipt_recent.c 2003-11-30 19:24:09.000000000 +0100
@@ -91,9 +91,6 @@
    */
    static spinlock_t recent_lock = SPIN_LOCK_UNLOCKED;

-/* Our /proc/net/ipt_recent entry */
-static struct proc_dir_entry *proc_net_ipt_recent = NULL;
-
/* Function declaration for later. */
static int
match(const struct sk_buff *skb,
@@ -123,6 +120,9 @@
}

#ifdef CONFIG_PROC_FS
+/* Our /proc/net/ipt_recent entry */
+static struct proc_dir_entry *proc_net_ipt_recent = NULL;
+
/* This is the function which produces the output for our /proc output
 * interface which lists each IP address, the last seen time and the
 * other recent times the address was seen.
@@ -963,8 +963,10 @@
    int count;

    printk(version);
+##ifdef CONFIG_PROC_FS
    proc_net_ipt_recent = proc_mkdir("ipt_recent",proc_net);
    if(!proc_net_ipt_recent) return -ENOMEM;
+##endif /* CONFIG_PROC_FS */

    if(ip_list_hash_size && ip_list_hash_size <= ip_list_tot) {
        printk(KERN_WARNING RECENT_NAME ": ip_list_hash_size too small, resetting to default.\n");
@@ -990,7 +992,9 @@
{

```

## Linux-Kernel: 2.4.23 and CONFIG\_PROC\_FS=n

```
ipt_unregister_match(&recent_match);
```

```
+#ifdef CONFIG_PROC_FS
    remove_proc_entry("ipt_recent",proc_net);
+#endif /* CONFIG_PROC_FS */
}
```

```
/* Register our module with the kernel. */
```

Gr{oetje,eeting}s,

Geert

--

Geert Uytterhoeven -- There's lots of Linux beyond ia32 -- geert@linux-m68k.org  
In personal conversations with technical people, I call myself a hacker. But  
when I'm talking to journalists I just say "programmer" or something like that.  
-- Linus Torvalds

-

To unsubscribe from this list: send the line "unsubscribe linux-kernel" in  
the body of a message to majordomo@vger.kernel.org  
More majordomo info at <http://vger.kernel.org/majordomo-info.html>  
Please read the FAQ at <http://www.tux.org/lkml/>