
Subject: [PATCH] ip{,6}_queue: convert to seq_file interface
Posted by [Alexey Dobriyan](#) on Fri, 19 Oct 2007 15:22:21 GMT
[View Forum Message](#) <> [Reply to Message](#)

I plan to kill ->get_info which means killing proc_net_create().

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

```
net/ipv4/netfilter/ip_queue.c | 36 ++++++-----  
net/ipv6/netfilter/ip6_queue.c | 36 ++++++-----  
2 files changed, 38 insertions(+), 34 deletions(-)
```

```
--- a/net/ipv4/netfilter/ip_queue.c  
+++ b/net/ipv4/netfilter/ip_queue.c  
@@ -22,6 +22,7 @@  
#include <linux/spinlock.h>  
#include <linux/sysctl.h>  
#include <linux/proc_fs.h>  
+#include <linux/seq_file.h>  
#include <linux/security.h>  
#include <linux/mutex.h>  
#include <net/net_namespace.h>  
@@ -607,15 +608,11 @@ static ctl_table ipq_root_table[] = {  
    { .ctl_name = 0 }  
};  
  
-#ifdef CONFIG_PROC_FS  
-static int  
-ipq_get_info(char *buffer, char **start, off_t offset, int length)  
+static int ip_queue_show(struct seq_file *m, void *v)  
    {  
-    int len;  
-  
        read_lock_bh(&queue_lock);  
  
-    len = sprintf(buffer,  
+    seq_printf(m,  
        "Peer PID      : %d\n"  
        "Copy mode      : %hu\n"  
        "Copy range     : %u\n"  
@@ -632,16 +629,20 @@ ipq_get_info(char *buffer, char **start, off_t offset, int length)  
        queue_user_dropped);  
  
        read_unlock_bh(&queue_lock);  
+    return 0;  
+}
```

```

- *start = buffer + offset;
- len -= offset;
- if (len > length)
- len = length;
- else if (len < 0)
- len = 0;
- return len;
+static int ip_queue_open(struct inode *inode, struct file *file)
+{
+ return single_open(file, ip_queue_show, NULL);
+}
-#endif /* CONFIG_PROC_FS */
+
+static const struct file_operations ip_queue_proc_fops = {
+ .open = ip_queue_open,
+ .read = seq_read,
+ .llseek = seq_lseek,
+ .release = single_release,
+};

static struct nf_queue_handler nfqh = {
    .name = "ip_queue",
@@ -661,10 +662,11 @@ static int __init ip_queue_init(void)
    goto cleanup_netlink_notifier;
}

- proc = proc_net_create(&init_net, IPQ_PROC_FS_NAME, 0, ipq_get_info);
- if (proc)
+ proc = create_proc_entry(IPQ_PROC_FS_NAME, 0, init_net.proc_net);
+ if (proc) {
    proc->owner = THIS_MODULE;
- else {
+ } else {
    printk(KERN_ERR "ip_queue: failed to create proc entry\n");
    goto cleanup_ipqnl;
}
--- a/net/ipv6/netfilter/ip6_queue.c
+++ b/net/ipv6/netfilter/ip6_queue.c
@@ -23,6 +23,7 @@
#include <linux/spinlock.h>
#include <linux/sysctl.h>
#include <linux/proc_fs.h>
+#include <linux/seq_file.h>
#include <linux/mutex.h>
#include <net/net_namespace.h>
#include <net/sock.h>
@@ -596,15 +597,11 @@ static ctl_table ipq_root_table[] = {

```

```

    { .ctl_name = 0 }
};

#ifdef CONFIG_PROC_FS
-static int
-ipq_get_info(char *buffer, char **start, off_t offset, int length)
+static int ip6_queue_show(struct seq_file *m, void *v)
{
- int len;
-
    read_lock_bh(&queue_lock);

- len = sprintf(buffer,
+ seq_printf(m,
    "Peer PID      : %d\n"
    "Copy mode      : %hu\n"
    "Copy range     : %u\n"
@@ -621,16 +618,20 @@ ipq_get_info(char *buffer, char **start, off_t offset, int length)
    queue_user_dropped);

    read_unlock_bh(&queue_lock);
+ return 0;
+}

- *start = buffer + offset;
- len -= offset;
- if (len > length)
- len = length;
- else if (len < 0)
- len = 0;
- return len;
+static int ip6_queue_open(struct inode *inode, struct file *file)
+{
+ return single_open(file, ip6_queue_show, NULL);
+}
-#endif /* CONFIG_PROC_FS */
+
+static const struct file_operations ip6_queue_proc_fops = {
+ .open  = ip6_queue_open,
+ .read  = seq_read,
+ .llseek = seq_lseek,
+ .release = single_release,
+};

static struct nf_queue_handler nfqh = {
    .name = "ip6_queue",
@@ -650,10 +651,11 @@ static int __init ip6_queue_init(void)
    goto cleanup_netlink_notifier;

```

```
}  
  
- proc = proc_net_create(&init_net, IPQ_PROC_FS_NAME, 0, ipq_get_info);  
- if (proc)  
+ proc = create_proc_entry(IPQ_PROC_FS_NAME, 0, init_net.proc_net);  
+ if (proc) {  
    proc->owner = THIS_MODULE;  
- else {  
+ proc->proc_fops = &ip6_queue_proc_fops;  
+ } else {  
    printk(KERN_ERR "ip6_queue: failed to create proc entry\n");  
    goto cleanup_ipqnl;  
}
```

Subject: Re: [PATCH] ip{,6}_queue: convert to seq_file interface
Posted by [Patrick McHardy](#) on Sat, 20 Oct 2007 14:55:54 GMT
[View Forum Message](#) <> [Reply to Message](#)

Alexey Dobriyan wrote:

> I plan to kill ->get_info which means killing proc_net_create().
>

Applied, thanks Alexey.
