
Subject: [PATCH 10/15] Make some network-related proc files use seq_list_xxx helpers

Posted by [xemul](#) on Fri, 18 May 2007 09:48:30 GMT

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This includes /proc/net/protocols, /proc/net/rxrpc_calls
and /proc/net/rxrpc_connections files.

All three need seq_list_start_head to show some header.

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```
diff --git a/net/core/sock.c b/net/core/sock.c
index 22183c2..528f65b 100644
--- a/net/core/sock.c
+++ b/net/core/sock.c
@@ -1839,46 +1839,15 @@ void proto_unregister(struct proto *prot
 EXPORT_SYMBOL(proto_unregister);

#ifndef CONFIG_PROC_FS
-static inline struct proto *__proto_head(void)
-{
-    return list_entry(proto_list.next, struct proto, node);
-}
-
-static inline struct proto *proto_head(void)
-{
-    return list_empty(&proto_list) ? NULL : __proto_head();
-}
-
-static inline struct proto *proto_next(struct proto *proto)
-{
-    return proto->node.next == &proto_list ? NULL :
-        list_entry(proto->node.next, struct proto, node);
-}
-
-static inline struct proto *proto_get_idx(loff_t pos)
-{
-    struct proto *proto;
-    loff_t i = 0;
-
-    list_for_each_entry(proto, &proto_list, node)
-    if (i++ == pos)
-        goto out;
-
-    proto = NULL;
```

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-out:
- return proto;
-}

-
static void *proto_seq_start(struct seq_file *seq, loff_t *pos)
{
    read_lock(&proto_list_lock);
- return *pos ? proto_get_idx(*pos - 1) : SEQ_START_TOKEN;
+ return seq_list_start_head(&proto_list, *pos);
}

static void *proto_seq_next(struct seq_file *seq, void *v, loff_t *pos)
{
- ++*pos;
- return v == SEQ_START_TOKEN ? proto_head() : proto_next(v);
+ return seq_list_next(v, &proto_list, pos);
}

static void proto_seq_stop(struct seq_file *seq, void *v)
@@ -1926,7 +1895,7 @@ static void proto_seq_printf(struct seq_
static int proto_seq_show(struct seq_file *seq, void *v)
{
- if (v == SEQ_START_TOKEN)
+ if (v == &proto_list)
    seq_printf(seq, "%-9s %-4s %-8s %-6s %-5s %-7s %-4s %-10s %s",
               "protocol",
               "size",
@@ -1938,7 +1907,7 @@ static int proto_seq_show(struct seq_file
               "module",
               "cl co di ac io in de sh ss gs se re sp bi br ha uh gp em\n");
    else
- proto_seq_printf(seq, v);
+ proto_seq_printf(seq, list_entry(v, struct proto, node));
    return 0;
}

diff --git a/net/rxrpc/ar-proc.c b/net/rxrpc/ar-proc.c
index 1c0be0e..56a5317 100644
--- a/net/rxrpc/ar-proc.c
+++ b/net/rxrpc/ar-proc.c
@@ -30,31 +30,13 @@ static const char *rxrpc_conn_states[] =
 */
static void *rxrpc_call_seq_start(struct seq_file *seq, loff_t *_pos)
{
- struct list_head *_p;
- loff_t pos = *_pos;
-

```

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read_lock(&rxrpc_call_lock);
- if (!pos)
- return SEQ_START_TOKEN;
- pos--;
-
- list_for_each(_p, &rxrpc_calls)
- if (!pos--)
- break;
-
- return _p != &rxrpc_calls ? _p : NULL;
+ return seq_list_start_head(&rxrpc_calls, *_pos);
}

static void *rxrpc_call_seq_next(struct seq_file *seq, void *v, loff_t *pos)
{
- struct list_head *_p;
-
- (*pos)++;
-
- _p = v;
- _p = (v == SEQ_START_TOKEN) ? rxrpc_calls.next : _p->next;
-
- return _p != &rxrpc_calls ? _p : NULL;
+ return seq_list_next(v, &rxrpc_calls, pos);
}

static void rxrpc_call_seq_stop(struct seq_file *seq, void *v)
@@ -68,7 +50,7 @@ static int rxrpc_call_seq_show(struct se
struct rxrpc_call *call;
char lbuff[4 + 4 + 4 + 4 + 5 + 1], rbuff[4 + 4 + 4 + 4 + 5 + 1];

- if (v == SEQ_START_TOKEN) {
+ if (v == &rxrpc_calls) {
seq_puts(seq,
"Proto Local          Remote          "
" SVID ConnID CallID End Use State Abort "
@@ -129,32 +111,14 @@ struct file_operations rxrpc_call_seq_fo
*/
static void *rxrpc_connection_seq_start(struct seq_file *seq, loff_t *_pos)
{
- struct list_head *_p;
- loff_t pos = *_pos;
-
- read_lock(&rxrpc_connection_lock);
- if (!pos)
- return SEQ_START_TOKEN;
- pos--;
-

```

```

- list_for_each(_p, &rxrpc_connections)
- if (!pos--)
- break;
-
- return _p != &rxrpc_connections ? _p : NULL;
+ return seq_list_start_head(&rxrpc_connections, *_pos);
}

static void *rxrpc_connection_seq_next(struct seq_file *seq, void *v,
loff_t *pos)
{
- struct list_head *_p;
-
- (*pos)++;
-
- _p = v;
- _p = (v == SEQ_START_TOKEN) ? rxrpc_connections.next : _p->next;
-
- return _p != &rxrpc_connections ? _p : NULL;
+ return seq_list_next(v, &rxrpc_connections, pos);
}

static void rxrpc_connection_seq_stop(struct seq_file *seq, void *v)
@@ -168,7 +132,7 @@ static int rxrpc_connection_seq_show(str
struct rxrpc_transport *trans;
char lbuff[4 + 4 + 4 + 4 + 5 + 1], rbuff[4 + 4 + 4 + 4 + 5 + 1];

- if (v == SEQ_START_TOKEN) {
+ if (v == &rxrpc_connections) {
seq_puts(seq,
"Proto Local           Remote           "
" SVID ConnID  Calls   End Use State   Key   "

```
