Subject: [PATCH 2.6.25] UNIX: remove unused declaration of sysctl_unix_max_dgram_qlen
Posted by den on Mon, 10 Dec 2007 16:36:20 GMT
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Recently David Miller and Herbert Xu pointed out that struct net becomes
overbloated and un-maintainable. There are two solutions:
- provide a pointer to a network subsystem definition from struct net.
  This costs an additional dereferrence
- place sub-system definition into the structure itself. This will speedup
  run-time access at the cost of recompilation time

The second approach looks better for us. Other sub-systems will be converted
to this approach if this will be accepted :)

Signed-off-by: Denis V. Lunev <den@openvz.org>
---
diff --git a/include/net/net_namespace.h b/include/net/net_namespace.h
index b62e31f..f60e1ce 100644
--- a/include/net/net_namespace.h
+++ b/include/net/net_namespace.h
@@ -8,6 +8,8 @@
 #include <linux/workqueue.h>
 #include <linux/list.h>

+#include <net/netns/unix.h>
+
 struct proc_dir_entry;
 struct net_device;
 struct sock;
@@ -46,8 +48,7 @@ struct net {
  struct hlist_head packet_sklist;

  /* unix sockets */
- int   sysctl_unix_max_dgram_qlen;
- struct ctl_table_header *unix_ctl;
+ struct netns_unix unx;
 };

 #ifdef CONFIG_NET
diff --git a/include/net/netns/unix.h b/include/net/netns/unix.h
new file mode 100644
index 0000000..27b4e7f
--- /dev/null
+++ b/include/net/netns/unix.h
@@ -0,0 +1,13 @@
+/*
+ * Unix network namespace

```
+ */
+#ifndef __NETNS_UNIX_H__
+#define __NETNS_UNIX_H__
+
+struct ctl_table_header;
+struct netns_unix {
+ int   sysctl_unix_max_dgram_qlen;
+ struct ctl_table_header *unix_ctl;
+};
+
+#endif /* __NETNS_UNIX_H__ */
diff --git a/net/unix/af_unix.c b/net/unix/af_unix.c
index b8a2189..06f7ec8 100644
--- a/net/unix/af_unix.c
+++ b/net/unix/af_unix.c
@@ -592,7 +592,7 @@ static struct sock * unix_create1(struct net *net, struct socket *sock)
     &af_unix_sk_receive_queue_lock_key);

  sk->sk_write_space = unix_write_space;
- sk->sk_max_ack_backlog = net->sysctl_unix_max_dgram_qlen;
+ sk->sk_max_ack_backlog = net->unx.sysctl_unix_max_dgram_qlen;
  sk->sk_destruct  = unix_sock_destructor;
  u   = unix_sk(sk);
  u->dentry = NULL;
@@ -2138,7 +2138,7 @@ static int unix_net_init(struct net *net)
 {
  int error = -ENOMEM;

- net->sysctl_unix_max_dgram_qlen = 10;
+ net->unx.sysctl_unix_max_dgram_qlen = 10;
  if (unix_sysctl_register(net))
   goto out;

diff --git a/net/unix/sysctl_net_unix.c b/net/unix/sysctl_net_unix.c
index 553ef6a..fbddfb5 100644
--- a/net/unix/sysctl_net_unix.c
+++ b/net/unix/sysctl_net_unix.c
@@ -18,7 +18,7 @@ static ctl_table unix_table[] = {
  {
   .ctl_name = NET_UNIX_MAX_DGRAM_QLEN,
   .procname = "max_dgram_qlen",
-  .data  = &init_net.sysctl_unix_max_dgram_qlen,
+  .data  = &init_net.unx.sysctl_unix_max_dgram_qlen,
   .maxlen  = sizeof(int),
   .mode  = 0644,
   .proc_handler = &proc_dointvec
@@ -40,9 +40,9 @@ int unix_sysctl_register(struct net *net)
  if (table == NULL)
```

```
   goto err_alloc;

- table[0].data = &net->sysctl_unix_max_dgram_qlen;
- net->unix_ctl = register_net_sysctl_table(net, unix_path, table);
- if (net->unix_ctl == NULL)
+ table[0].data = &net->unx.sysctl_unix_max_dgram_qlen;
+ net->unx.unix_ctl = register_net_sysctl_table(net, unix_path, table);
+ if (net->unx.unix_ctl == NULL)
   goto err_reg;

  return 0;
@@ -57,8 +57,8 @@ void unix_sysctl_unregister(struct net *net)
 {
  struct ctl_table *table;

- table = net->unix_ctl->ctl_table_arg;
- unregister_sysctl_table(net->unix_ctl);
+ table = net->unx.unix_ctl->ctl_table_arg;
+ unregister_sysctl_table(net->unx.unix_ctl);
  kfree(table);
 }
```