
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 dereference
- 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 unix;

};

#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);
}

```
