

---

Subject: Re: [PATCH 2.6.25] netns: struct net content re-work (v2)

Posted by [Daniel Lezcano](#) on Tue, 11 Dec 2007 09:57:38 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Denis V. Lunev wrote:

> 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 :)  
>  
> Changes from v1:  
> - renamed fields according to Daniel Lezcano suggestion  
>  
> Signed-off-by: Denis V. Lunev <den@openvz.org>  
Acked-by: Daniel Lezcano <dlezcano@fr.ibm.com>

> ---  
> include/net/net\_namespace.h | 5 +++--  
> net/unix/af\_unix.c | 4 ++--  
> net/unix/sysctl\_net\_unix.c | 12 ++++++-----  
> 3 files changed, 11 insertions(+), 10 deletions(-)  
>  
> diff --git a/include/net/net\_namespace.h b/include/net/net\_namespace.h  
> --- 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;  
> };

"unx" looks really weird for me. But anyway it is a cosmetic issue, not very important. Just in case you change your mind, two suggestions for the name :)

```
struct netns_unix netns_unix;  
struct netns_unix af_unix;
```

```
> #ifdef CONFIG_NET  
> diff --git a/net/unix/af_unix.c b/net/unix/af_unix.c  
> --- 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_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_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  
> --- 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_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_max_dgram_qlen;
> + net->unx.ctl = register_net_sysctl_table(net, unix_path, table);
> + if (net->unx.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.ctl->ctl_table_arg;
>     + unregister_sysctl_table(net->unx.ctl);
>     kfree(table);
> }
>
```

---

Containers mailing list

Containers@lists.linux-foundation.org

<https://lists.linux-foundation.org/mailman/listinfo/containers>

---