
Subject: [net-2.6.24][NETNS][patch 0/3] fixes for the core network namespace
Posted by [Daniel Lezcano](#) on Wed, 12 Sep 2007 12:38:11 GMT
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The following patches fixes some compilation errors and boot problems related to the network namespace patchset.

They apply to net-2.6.24

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Subject: [net-2.6.24][NETNS][patch 1/3] fix export symbols
Posted by [Daniel Lezcano](#) on Wed, 12 Sep 2007 12:38:12 GMT
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From: Daniel Lezcano <dlezcano@fr.ibm.com>

Add the appropriate EXPORT_SYMBOLS for proc_net_create, proc_net_fops_create and proc_net_remove to fix errors when compiling allmodconfig

Signed-off-by: Mark Nelson <markn@au1.ibm.com>
Acked-by: Benjamin Thery <benjamin.thery@bull.net>

fs/proc/proc_net.c | 4 +++-
1 file changed, 3 insertions(+), 1 deletion(-)

Index: net-2.6.24/fs/proc/proc_net.c

=====

--- net-2.6.24.orig/fs/proc/proc_net.c

+++ net-2.6.24/fs/proc/proc_net.c

@@ -31,6 +31,7 @@

```
{  
    return create_proc_info_entry(name,mode, net->proc_net, get_info);  
}
```

+EXPORT_SYMBOL_GPL(proc_net_create);

```
struct proc_dir_entry *proc_net_fops_create(struct net *net,  
    const char *name, mode_t mode, const struct file_operations *fops)
```

@@ -42,12 +43,13 @@

```
    res->proc_fops = fops;  
    return res;  
}
```

+EXPORT_SYMBOL_GPL(proc_net_fops_create);

```
void proc_net_remove(struct net *net, const char *name)
{
    remove_proc_entry(name, net->proc_net);
}
```

```
-
+EXPORT_SYMBOL_GPL(proc_net_remove);
```

```
static struct proc_dir_entry *proc_net_shadow;
```

```
--
```

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Subject: [net-2.6.24][NETNS][patch 2/3] fix loopback network namespace initialization

Posted by [Daniel Lezcano](#) on Wed, 12 Sep 2007 12:38:13 GMT

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From: Daniel Lezcano <dlezcano@fr.ibm.com>

The core patchset of the network namespace sent by Eric Biederman does not do dynamic loopback creation. So there is no call to alloc_netdev_mq which fills the network namespace field of the netdevice.

This patch assign the loopback to the init network namespace.

Signed-off-by: Daniel Lezcano <dlezcano@fr.ibm.com>

drivers/net/loopback.c | 1 +
1 file changed, 1 insertion(+)

Index: net-2.6.24/drivers/net/loopback.c

```
=====
--- net-2.6.24.orig/drivers/net/loopback.c
+++ net-2.6.24/drivers/net/loopback.c
@@ -225,6 +225,7 @@
     | NETIF_F_LLTX
     | NETIF_F_NETNS_LOCAL,
     .ethtool_ops = &loopback_ethtool_ops,
+    .nd_net      = &init_net,
};
```

```
/* Setup and register the loopback device. */
```

--

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Subject: [net-2.6.24][NETNS][patch 3/3] fix bad macro definition
Posted by [Daniel Lezcano](#) on Wed, 12 Sep 2007 12:38:14 GMT
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From: Daniel Lezcano <dlezcano@fr.ibm.com>

The macro definition is bad. When calling next_net_device with parameter name "dev", the resulting code is:

struct net_device *dev = dev and that leads to an unexpected behavior. Especially when llc_core is compiled in, the kernel panics at boot time.

The patchset change macro definition with static inline functions as they were defined before.

Signed-off-by: Benjamin Thery <benjamin.thery@bull.net>

Signed-off-by: Daniel Lezcano <dlezcano@fr.ibm.com>

include/linux/netdevice.h | 35 ++++++-----
1 file changed, 17 insertions(+), 18 deletions(-)

Index: net-2.6.24/include/linux/netdevice.h

=====

--- net-2.6.24.orig/include/linux/netdevice.h

+++ net-2.6.24/include/linux/netdevice.h

@@ -41,7 +41,8 @@

#include <linux/dmaengine.h>

#include <linux/workqueue.h>

-struct net;

+#include <net/net_namespace.h>

+

struct vlan_group;

struct ethtool_ops;

struct netpoll_info;

@@ -739,23 +740,21 @@

list_for_each_entry_continue(d, &(net)->dev_base_head, dev_list)

#define net_device_entry(lh) list_entry(lh, struct net_device, dev_list)

-#define next_net_device(d) \

```

-({
- struct net_device *dev = d;
- struct list_head *lh;
- struct net *net;
-
- net = dev->nd_net;
- lh = dev->dev_list.next;
- lh == &net->dev_base_head ? NULL : net_device_entry(lh); \
-})
-
-#define first_net_device(N)
-({
- struct net *NET = (N);
- list_empty(&NET->dev_base_head) ? NULL :
- net_device_entry(NET->dev_base_head.next); \
-})
+static inline struct net_device *next_net_device(struct net_device *dev)
+{
+ struct list_head *lh;
+ struct net *net;
+
+ net = dev->nd_net;
+ lh = dev->dev_list.next;
+ return lh == &net->dev_base_head ? NULL : net_device_entry(lh);
+}
+
+static inline struct net_device *first_net_device(struct net *net)
+{
+ return list_empty(&net->dev_base_head) ? NULL :
+ net_device_entry(net->dev_base_head.next);
+}

extern int netdev_boot_setup_check(struct net_device *dev);
extern unsigned long netdev_boot_base(const char *prefix, int unit);

--

```

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Subject: Re: [net-2.6.24][NETNS][patch 1/3] fix export symbols
Posted by [davem](#) on Wed, 12 Sep 2007 12:53:07 GMT
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From: dlezcano@fr.ibm.com
Date: Wed, 12 Sep 2007 14:38:12 +0200

> From: Daniel Lezcano <dlezcano@fr.ibm.com>
>
> Add the appropriate EXPORT_SYMBOLS for proc_net_create,
> proc_net_fops_create and proc_net_remove to fix errors when
> compiling allmodconfig
>
> Signed-off-by: Mark Nelson <markn@au1.ibm.com>
> Acked-by: Benjamin Thery <benjamin.thery@bull.net>

Applied to net-2.6.24, thanks.

Why aren't you signing off on these patches? Please
do so in the future.

Because "From: " usually means you are the patch author, and I can't
tell who wrote these patches, you or these other people listed in the
signoff area.

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Subject: Re: [net-2.6.24][NETNS][patch 2/3] fix loopback network namespace
initialization

Posted by [davem](#) on Wed, 12 Sep 2007 12:55:03 GMT

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From: dlezcano@fr.ibm.com
Date: Wed, 12 Sep 2007 14:38:13 +0200

> From: Daniel Lezcano <dlezcano@fr.ibm.com>
>
> The core patchset of the network namespace sent by
> Eric Biederman does not do dynamic loopback creation.
> So there is no call to alloc_netdev_mq which fills the
> network namespace field of the netdevice.
>
> This patch assign the loopback to the init network namespace.
>
> Signed-off-by: Daniel Lezcano <dlezcano@fr.ibm.com>

Applied, thanks.

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Subject: Re: [net-2.6.24][NETNS][patch 1/3] fix export symbols
Posted by [Daniel Lezcano](#) on Wed, 12 Sep 2007 12:57:33 GMT
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David Miller wrote:

> From: dlezcano@fr.ibm.com
> Date: Wed, 12 Sep 2007 14:38:12 +0200
>
>> From: Daniel Lezcano <dlezcano@fr.ibm.com>
>>
>> Add the appropriate EXPORT_SYMBOLS for proc_net_create,
>> proc_net_fops_create and proc_net_remove to fix errors when
>> compiling allmodconfig
>>
>> Signed-off-by: Mark Nelson <markn@au1.ibm.com>
>> Acked-by: Benjamin Thery <benjamin.thery@bull.net>
>
> Applied to net-2.6.24, thanks.
>
> Why aren't you signing off on these patches? Please
> do so in the future.
>
> Because "From: " usually means you are the patch author, and I can't
> tell who wrote these patches, you or these other people listed in the
> signoff area.
>

Sorry for that, I will take care of that next time. Thanks.

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Subject: Re: [net-2.6.24][NETNS][patch 3/3] fix bad macro definition
Posted by [davem](#) on Wed, 12 Sep 2007 12:58:07 GMT
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From: dlezcano@fr.ibm.com
Date: Wed, 12 Sep 2007 14:38:14 +0200

> From: Daniel Lezcano <dlezcano@fr.ibm.com>
>
> The macro definition is bad. When calling next_net_device with
> parameter name "dev", the resulting code is:
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> behavior. Especially when llc_core is compiled in, the kernel panics
> at boot time.

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> they were defined before.
>
> Signed-off-by: Benjamin Thery <benjamin.thery@bull.net>
> Signed-off-by: Daniel Lezcano <dlezcano@fr.ibm.com>

Applied, thanks.

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