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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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.

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---
 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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