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Subject: [RFC][patch 0/1] fix allnoconfig for net-2.6.24  
Posted by [Daniel Lezcano](#) on Wed, 12 Sep 2007 17:07:39 GMT  
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The kernel compilation fails with allnoconfig with an unresolved to `init_net`. I tried to figure out how to fix that. The problem is raised because the `init_net` variable is defined as `extern` in `net_namespace.h` while the variable is declared in `net_namespace.c`. This file is not compiled because of the config options and that leads to the compilation error.

I noticed the `uts` namespace defines the `init_uts_ns` in `init/version.c`, so I moved the `init_net` to this file too. The compilation error is fixed.

But I don't like really this approach because:

- 1 - we fall under a part not covered by the network
- 2 - we add a new include `net_namespace.h` in `version.c`

Does this fix seems correct ? I just want to fix it for now to have net-2.6.24 compiling for all configs.

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Subject: [RFC][patch 1/1] From: Daniel Lezcano <[dlezcano@fr.ibm.com](mailto:dlezcano@fr.ibm.com)>  
Posted by [Daniel Lezcano](#) on Wed, 12 Sep 2007 17:07:40 GMT  
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Fix allnoconfig compilation error

Signed-off-by: Daniel Lezcano <[dlezcano@fr.ibm.com](mailto:dlezcano@fr.ibm.com)>

---  
init/version.c | 4 ++++  
net/core/net\_namespace.c | 3 ---  
2 files changed, 4 insertions(+), 3 deletions(-)

Index: net-2.6.24/init/version.c

```
=====
--- net-2.6.24.orig/init/version.c
+++ net-2.6.24/init/version.c
@@ -12,6 +12,7 @@
#include <linux/utsname.h>
#include <linux/utsrelease.h>
#include <linux/version.h>
+#include <net/net_namespace.h>
```

```

#define version(a) Version_ ## a
#define version_string(a) version(a)
@@ -33,6 +34,9 @@ struct uts_namespace init_uts_ns = {
};
EXPORT_SYMBOL_GPL(init_uts_ns);

+struct net init_net;
+EXPORT_SYMBOL_GPL(init_net);
+
/* FIXED STRINGS! Don't touch! */
const char linux_banner[] =
"Linux version " UTS_RELEASE " (" LINUX_COMPILE_BY "@"
Index: net-2.6.24/net/core/net_namespace.c
=====
--- net-2.6.24.orig/net/core/net_namespace.c
+++ net-2.6.24/net/core/net_namespace.c
@@ -19,9 +19,6 @@ LIST_HEAD(net_namespace_list);

static struct kmem_cache *net_cache;

-struct net init_net;
-EXPORT_SYMBOL_GPL(init_net);
-
void net_lock(void)
{
mutex_lock(&net_list_mutex);

--

```

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Subject: Re: [RFC][patch 0/1] fix allnoconfig for net-2.6.24  
Posted by [ebiederm](#) on Wed, 12 Sep 2007 17:23:41 GMT  
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dlezcano@fr.ibm.com writes:

```

> The kernel compilation fails with allnoconfig with an unresolved to init_net.
> I tried to figure out how to fix that. The problem is raised because the
> init_net
> variable is defined as extern in net_namespace.h while the variable is declared
> in net_namespace.c. This file is not compiled because of the config options and
> that leads to the compilation error.
>

```

> I noticed the uts namespace defines the init\_uts\_ns in init/version.c, so I  
> moved  
> the init\_net to this file too. The compilation error is fixed.  
>  
> But I don't like really this approach because:  
> 1 - we fall under a part not covered by the network  
> 2 - we add a new include net\_namespace.h in version.c  
>  
> Does this fix seems correct ? I just want to fix it for now to have net-2.6.24  
> compiling for all configs.

Thanks for the testing and catching all of the little nit picky things.

Where is init\_net used that is a problem with allnoconfig?

Eric

---

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Subject: Re: [RFC][patch 0/1] fix allnoconfig for net-2.6.24  
Posted by [ebiederm](#) on Wed, 12 Sep 2007 17:45:23 GMT  
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dlezcano@fr.ibm.com writes:

> The kernel compilation fails with allnoconfig with an unresolved to init\_net.  
> I tried to figure out how to fix that. The problem is raised because the  
> init\_net  
> variable is defined as extern in net\_namespace.h while the variable is declared  
> in net\_namespace.c. This file is not compiled because of the config options and  
> that leads to the compilation error.

Ok. We seem to have the same issue with the ipc namespace.  
And it uses the INIT\_IPC\_NS macro to handle it.

I wonder if we can do something similar here.

It looks like the initialization of nsproxy is the big gotcha.

> I noticed the uts namespace defines the init\_uts\_ns in init/version.c, so I  
> moved  
> the init\_net to this file too. The compilation error is fixed.  
>  
> But I don't like really this approach because:  
> 1 - we fall under a part not covered by the network

> 2 - we add a new include net\_namespace.h in version.c  
>  
> Does this fix seems correct ? I just want to fix it for now to have net-2.6.24  
> compiling for all configs.

I think we can probably spend a couple more hours and fix things cleanly.  
If that we can't figure out a clean solution I'm happy to deal with the  
hack. But if we can find something clean and maintainable I would  
very much prefer that.

So do you think you can come up with something based on the model  
of INIT\_IPC\_NS?

Eric

---

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Subject: Re: [RFC][patch 0/1] fix allnoconfig for net-2.6.24  
Posted by [Daniel Lezcano](#) on Wed, 12 Sep 2007 19:37:44 GMT  
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Eric W. Biederman wrote:

> dlezcano@fr.ibm.com writes:

>  
>> The kernel compilation fails with allnoconfig with an unresolved to init\_net.  
>> I tried to figure out how to fix that. The problem is raised because the  
>> init\_net  
>> variable is defined as extern in net\_namespace.h while the variable is declared  
>> in net\_namespace.c. This file is not compiled because of the config options and  
>> that leads to the compilation error.

>  
> Ok. We seem to have the same issue with the ipc namespace.  
> And it uses the INIT\_IPC\_NS macro to handle it.

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> It looks like the initialization of nsproxy is the big gotcha.

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>> I noticed the uts namespace defines the init\_uts\_ns in init/version.c, so I

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> I think we can probably spend a couple more hours and fix things cleanly.  
> If that we can't figure out a clean solution I'm happy to deal with the  
> hack. But if we can find something clean and maintainable I would  
> very much prefer that.  
>  
> So do you think you can come up with something based on the model  
> of INIT\_IPC\_NS?

Sure, I will send it in a few hours ...

---

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Subject: Re: [RFC][patch 0/1] fix allnoconfig for net-2.6.24  
Posted by [ebiederm](#) on Wed, 12 Sep 2007 19:45:09 GMT  
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Daniel Lezcano <dlezcano@fr.ibm.com> writes:

> Sure, I will send it in a few hours ...

Thanks.

Eric

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