
Subject: [PATCH][IPVS] Fix compiler warning about unused register_ip_vs_protocol
Posted by [Pavel Emelianov](#) on Tue, 20 Nov 2007 12:08:42 GMT

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

This is silly, but I have turned the CONFIG_IP_VS to m,
to check the compilation of one (recently sent) fix
and set all the CONFIG_IP_VS_PROTO_XXX options to n to
speed up the compilation.

In this configuration the compiler warns me about

CC [M] net/ipv4/ipvs/ip_vs_proto.o

Indeed. With no protocols selected there are no
calls to this function - all are compiled out with
ifdefs.

Maybe the best fix would be to surround this call with
ifdef-s or tune the Kconfig dependences, but I think that
marking this register function as __used is enough. No?

Signed-off-by: Pavel Emelyanov <xemul@openvz.org>

```
diff --git a/net/ipv4/ipvs/ip_vs_proto.c b/net/ipv4/ipvs/ip_vs_proto.c
index e844ddb..c0e11ec 100644
--- a/net/ipv4/ipvs/ip_vs_proto.c
+++ b/net/ipv4/ipvs/ip_vs_proto.c
@@ -45,7 +45,7 @@ static struct ip_vs_protocol *ip_vs_proto_table[IP_VS_PROTO_TAB_SIZE];
/*
 * register an ipvs protocol
 */
-static int register_ip_vs_protocol(struct ip_vs_protocol *pp)
+static int __used register_ip_vs_protocol(struct ip_vs_protocol *pp)
{
    unsigned hash = IP_VS_PROTO_HASH(pp->protocol);
```

--

1.5.3.4

Subject: Re: [PATCH][IPVS] Fix compiler warning about unused
register_ip_vs_protocol

Posted by [davem](#) on Tue, 20 Nov 2007 12:12:30 GMT

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

From: Pavel Emelyanov <xemul@openvz.org>

Date: Tue, 20 Nov 2007 15:08:42 +0300

> This is silly, but I have turned the CONFIG_IP_VS to m,
> to check the compilation of one (recently sent) fix
> and set all the CONFIG_IP_VS_PROTO_XXX options to n to
> speed up the compilation.
>
> In this configuration the compiler warns me about
>
> CC [M] net/ipv4/ipvs/ip_vs_proto.o
> net/ipv4/ipvs/ip_vs_proto.c:49: warning: 'register_ip_vs_protocol' defined but not used
>
> Indeed. With no protocols selected there are no
> calls to this function - all are compiled out with
> ifdefs.
>
> Maybe the best fix would be to surround this call with
> ifdef-s or tune the Kconfig dependences, but I think that
> marking this register function as __used is enough. No?
>
> Signed-off-by: Pavel Emelyanov <xemul@openvz.org>

No nice solutions indeed.

Simon, how should do you think we should handle this?

```
> diff --git a/net/ipv4/ipvs/ip_vs_proto.c b/net/ipv4/ipvs/ip_vs_proto.c
> index e844ddb..c0e11ec 100644
> --- a/net/ipv4/ipvs/ip_vs_proto.c
> +++ b/net/ipv4/ipvs/ip_vs_proto.c
> @@ -45,7 +45,7 @@ static struct ip_vs_protocol
> *ip_vs_proto_table[IP_VS_PROTO_TAB_SIZE];
> /*
>  * register an ipvs protocol
>  */
> -static int register_ip_vs_protocol(struct ip_vs_protocol *pp)
> +static int __used register_ip_vs_protocol(struct ip_vs_protocol *pp)
> {
>     unsigned hash = IP_VS_PROTO_HASH(pp->protocol);
>
> --
> 1.5.3.4
>
```

Subject: Re: [PATCH][IPVS] Fix compiler warning about unused

register_ip_vs_protocol

Posted by [Simon Horman](#) on Wed, 21 Nov 2007 01:38:02 GMT

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

On Tue, Nov 20, 2007 at 03:08:42PM +0300, Pavel Emelyanov wrote:

```
> This is silly, but I have turned the CONFIG_IP_VS to m,
> to check the compilation of one (recently sent) fix
> and set all the CONFIG_IP_VS_PROTO_XXX options to n to
> speed up the compilation.
>
> In this configuration the compiler warns me about
>
> CC [M] net/ipv4/ipvs/ip_vs_proto.o
> net/ipv4/ipvs/ip_vs_proto.c:49: warning: $B!F (Bregister_ip_vs_protocol $B!G (B defined but not
used
>
> Indeed. With no protocols selected there are no
> calls to this function - all are compiled out with
> ifdefs.
>
> Maybe the best fix would be to surround this call with
> ifdef-s or tune the Kconfig dependences, but I think that
> marking this register function as __used is enough. No?
>
> Signed-off-by: Pavel Emelyanov <xemul@openvz.org>
```

That is kind of interesting.

On the one hand it might be more correct in some way to use some Kconfig foo to get rid of register_ip_vs_protocol, and also most of the body of \$B!F (Bregister_ip_vs_protocol() if no protocols are defined.

But on the other hand, its really a corner case, because in practice if you are going to use IPVS then you are going to need at least one protocol. So I'm happy with the simplicity of the __used solution, even though strictly speaking it is a lie.

Acked-by: Simon Horman <horms@verge.net.au>

```
>
> ---
>
> diff --git a/net/ipv4/ipvs/ip_vs_proto.c b/net/ipv4/ipvs/ip_vs_proto.c
> index e844ddb..c0e11ec 100644
> --- a/net/ipv4/ipvs/ip_vs_proto.c
> +++ b/net/ipv4/ipvs/ip_vs_proto.c
> @@ -45,7 +45,7 @@ static struct ip_vs_protocol
> *ip_vs_proto_table[IP_VS_PROTO_TAB_SIZE];
> /*
```

```
> * register an ipvs protocol
> */
> -static int register_ip_vs_protocol(struct ip_vs_protocol *pp)
> +static int __used register_ip_vs_protocol(struct ip_vs_protocol *pp)
> {
>   unsigned hash = IP_VS_PROTO_HASH(pp->protocol);
>
> --
> 1.5.3.4
>
> -
> To unsubscribe from this list: send the line "unsubscribe netdev" in
> the body of a message to majordomo@vger.kernel.org
> More majordomo info at http://vger.kernel.org/majordomo-info.html
```

--

Horms

Subject: Re: [PATCH][IPVS] Fix compiler warning about unused
register_ip_vs_protocol

Posted by [davem](#) on Wed, 21 Nov 2007 01:44:24 GMT

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

From: Simon Horman <horms@verge.net.au>

Date: Wed, 21 Nov 2007 10:38:02 +0900

```
> On Tue, Nov 20, 2007 at 03:08:42PM +0300, Pavel Emelyanov wrote:
> > This is silly, but I have turned the CONFIG_IP_VS to m,
> > to check the compilation of one (recently sent) fix
> > and set all the CONFIG_IP_VS_PROTO_XXX options to n to
> > speed up the compilation.
> >
> > In this configuration the compiler warns me about
> >
> > CC [M] net/ipv4/ipvs/ip_vs_proto.o
> > net/ipv4/ipvs/ip_vs_proto.c:49: warning: $B!F (Bregister_ip_vs_protocol $B!G (B defined but
> > not used
> >
> > Indeed. With no protocols selected there are no
> > calls to this function - all are compiled out with
> > ifdefs.
> >
> > Maybe the best fix would be to surround this call with
> > ifdef-s or tune the Kconfig dependences, but I think that
> > marking this register function as __used is enough. No?
> >
> > Signed-off-by: Pavel Emelyanov <xemul@openvz.org>
```

>
> That is kind of interesting.
>
> On the one hand it might be more correct in some way to use some Kconfig
> foo to get rid of register_ip_vs_protocol, and also most of
> the body of \$B!F (Bregister_ip_vs_protocol()) if no protocols are defined.
>
> But on the other hand, its really a corner case, because in practice if
> you are going to use IPVS then you are going to need at least one
> protocol. So I'm happy with the simplicity of the __used solution, even
> though strictly speaking it is a lie.
>
> Acked-by: Simon Horman <horms@verge.net.au>

Ok, I've applied Pavel's patch.
