

Re: CE 6.0 Networking Problems

Source:

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.embedded/2008-07/msg00170.html>

- *From:* "Paul G. Tobey [eMVP]" <p space tobey no spam AT no instrument no spam DOT com>
 - *Date:* Tue, 22 Jul 2008 13:07:38 -0700
-

If you're running KITL over Ethernet, when you're running KITL, the hardware interface is completely different than from the real driver (no interrupts used, generally).

Paul T.

"George M." <GeorgeM@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:A311494D-2E8E-49B8-ADF1-106682110A46@xxxxxxxxxxxxxxxxxxxx

Yes, usually it does.

I thought I had that squared away, as it works fine with the bootloader version of the driver and also with KITL when running a RAM image from PB. But perhaps something is still not quite right with the interrupts.

The real driver is an NDIS driver and maybe more interrupt investigation is needed.

--

Thanks,

George

"Paul G. Tobey [eMVP]" wrote:

Intermittent things in the network almost always point to interrupts...

Paul T.

"George M." <GeorgeM@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:A5BE9836-829F-46BF-98AB-14501FF6A171@xxxxxxxxxxxxxxxxxxxx

Hello,

I've found some new observations.

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On occasion, when I ping my device from my development PC, I do get a reply from the target. It doesn't happen often but it has responded.

Also, if I'm pinging from my PC, and then go to my target and ping my host PC, then on my host PC I consistently get a reply from the target until the target is done pinging my host PC.

Perhaps it's a timing issue in the driver? Maybe, as you pointed out, my interrupt isn't quite set up correctly yet?

Any other insights would be appreciated.

—
Thanks,

George

"Paul G. Tobey [eMVP]" wrote:

Just for quick grins, make sure that there is no firewall running on your PC. As you say, the address appears fine, as long as the subnet masks on each device are correct; I would guess 255.255.255.0.

The most-likely cause that I can think of is a problem with the Ethernet driver. It could be that interrupts aren't working right for some reason (you've got them configured for 'edge' sensitivity, but the controller doesn't work that way, etc.) It could also be a problem with the registry settings for the driver (maybe the register

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stride is something other than
I, but you haven't set a registry option that tells the driver that).
I would expect these basic sorts of things to be weeded out by being able to ping outward to the PC, though. The next thing would be to build a debug image, with the full debug messages, and see what the messages from the driver, and the system, might tell you about what's going on.

Paul T.

"George M."

<GeorgeM@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

news:CE105AEE-B5CD-4AFA-916C-28A9A81734D9@xxxxxxxxxxxxxxxxxxxx

Thank you for the reply. My apologies, I failed to provide some valuable information.

This is a retail image running the real driver and executing out of NOR flash, KITL is not being used.

Also, the IP address does seem valid. My development machine is 10.7.236.14 and my target gets 10.7.236.13. So to me that means it's a valid address.

The Ethernet card I'm using is SMSC 9118 (LAN9217 family).

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Hope that helps. Any other information I can provide let me know.

--

Thanks,

George

"Paul G. Tobey [eMVP]"
wrote:

Is the IP
address it's
getting
valid? If
you're on a
firewalled
network
(there's a
firewall
between
you and the
Internet),
tell us your
development
PC IP
address and
the one that
the device is
getting
(since
they're
not
externally
accessible
to us
anyway).

This is a
debug
image
running
VMini over
KITL? Or
it's a retail
image
running the
real driver

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for your
Ethernet
card? What
type of
Ethernet
card
is it?

Paul T.

"George
M."

<GeorgeM@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in
message

news:F7779CD4-4DFB-4C0B-B6E1-A570CE473C6D@xxxxxxxxx

Hi,

I
am
having
problems
connecting
my
custom
target
device,
running
a
Freescall
i.MX31
platform
with
CE
6.0.

Right
now
I
am
simply
trying
to
ping
my
device
but
am
not
having

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any
success.
I'm
also
trying
to
reach
the
internet
with
the
IE
browser
but
that
is
not
working
either.

It
appears
that
my
device
can
talk
to
the
DHCP
server
correctly,
as
it
obtains
an
IP
address.
And
I
can
ping
my
development
machine
from
my
target
successfully,
i.e.
receive

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a
reply.
But
when
I
ping
my
target
from
my
development
machine
my
target
does
not
respond.

Also,
on
the
IE
browser
on
my
target
I
see
that
it
is
connected
on
the
"Local
intranet"
as
is
displayed
on
the
bottom
right
side
of
the
browser
pane.
So
something
appears

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to
perhaps
be
blocking
it?
I
do
not
have
the
'Firewall'
catalog
item
included
in
my
image,
so
I
don't
think
it's
the
firewall
on
the
target
unless
there
is
some
other
security
feature
I
am
not
aware
of.

Can
anyone
help
please?
What
catalog
items
are
needed
in
the

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image
to
be
able
to
browse
the
internet,
ping
the
target,
connect
to
it,
etc.
I've
tried
to
provide
useful
information
but
I
can
provide
more.
I
could
also
list
all
the
network
related
items
I've
included
in
my
image
if
that's
helpful.

--

Thanks,

George

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