

## NIC fails in RELEASE build CE 5.0

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*Source:*

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I have a CEPC-GEODE PC/104 board with an NE2000 ISA NIC. When I use the VMINI driver in a debug build it works fine. In the release build, DHCP fails. Searching, it seems that similar problems are from not removing the vmini driver and KITL from the build. I have done this--at least I think I have.

Static IP also doesn't work--the board won't respond to a ping.

Here is what I have done in the build:

```
IMGNOKITL=1 (UN-check box - Build Options)
KERNELNOSHAREETH=1
BSP_NOSHAREETH=1
BSP_NIC_NE2000_ISA=1
```

I also have:

```
BSP_NOPCIBUS=1
BSP_NOPCMCI=1 (These are also in the debug build)
```

In the DEBUG Build, none of these are set.

In the registry, I have left the default settings, with the exception of setting port (0x2c0) and IRQ (5) as follows:

```
[HKEY_LOCAL_MACHINE\Comm\NE2000]
"DisplayName"=LOC_DISPLAYNAME_COMM_NE2000
"Group"="NDIS"
"ImagePath"="ne2000.dll"
```

```
[HKEY_LOCAL_MACHINE\Comm\NE2000\Linkage]
"Route"=multi_sz:"NE20001"
```

```
[HKEY_LOCAL_MACHINE\Comm\NE20001]
"DisplayName"=LOC_DISPLAYNAME_COMM_NE20001
"Group"="NDIS"
"ImagePath"="ne2000.dll"
```

```
[HKEY_LOCAL_MACHINE\Comm\NE20001\Parms]
```

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```
"BusNumber"=dword:0  
"BusType"=dword:1  
"InterruptNumber"=dword:05  
"IoBaseAddress"=dword:2C0  
"Transceiver"=dword:3  
"CardType"=dword:0
```

```
[HKEY_LOCAL_MACHINE\Comm\NE20001\Parms\TcpIp]
```

```
"EnableDHCP"=dword:1  
"DefaultGateway"=""  
"UseZeroBroadcast"=dword:0  
"IpAddress"="0.0.0.0"  
"Subnetmask"="0.0.0.0"
```

The CE board sends a "DHCP Discover message", and it gets an Offer message from the DHCP server, but the message is ignored—I never see a DHCP Request—instead it sends several more "DHCP Discover" messages.

I enabled serialDebug, but kept :

```
KERNELNOSHAREETH=1  
BSP_NOSHAREETH=1
```

I get debug message through the serial port and I can see that the NIC is initialized and DHCP loads and tries to DHCP, but never sees the replies from the DHCP server (They are sent)

It looks like the board cannot receive any data.

I am really stuck on this one!

thx

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