

Re: nfsroot doesn't work with intel card since 2.6.12.2/2.6.11

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2006-02/msg01935.html>

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Knut Petersen (Knut_Petersen@xxxxxxxxxxxx) wrote on 6 February 2006 09:42:

1. How do you boot the kernel? Bootrom?
If yes: Which protocol? PXE + pxelinux? Etherboot? ...

Yes, pxe on the Intel card plus pxelinux. The machines are diskless with Tyan S2466 motherboards. I don't use the on-board 3Com ether chip (which works and boots fine, btw).

2. Does ip auto configuration (e.g. ip=dhcp at kernel command line) work?
If you do see the "IP-Config: Complete:" message while booting

Yes, this works fine. The kernel gets it from pxelinux directly via option IPAPPEND.

Here's what I copied manually from the screen after the IP-Config line:

```
looking up port of RPC 100003/2 on 192.168.1.1 (the server)
e1000: e1000_watchdog_task: nic link is up 1000 Mbs full duplex
portmap: server 192.168.1.1 not responding, timed out
root-nfs: unable to get nfsd port number from server, using default
looking up port of RPC 100005/1 on 192.168.1.1
portmap: server 192.168.1.1 not responding, timed out
root-nfs: unable to get mountd port number from server, using default
root-nfs: server returned -5 while mounting /home/nfsroot/servers-root
```

I said before that there is a progressive degradation at each kernel version. Some versions before 2.6.12.2/driver 2.6.11 there were no portmap problems at all. 2.6.12.2/driver 2.6.11 says that it couldn't get the port number from the server but manages to boot using the default.

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4. Could it be that you try to mount root using nfs version 2?
The current linux nfs 2 server is unable to serve the current nfs 2 client.

Wonderful :-(

Unfortunately version 2 is the default. Add the v3 parameter:

```
root=/dev/nfs nfsroot=%s,rsize=8192,wsiz=8192,v3
```

Why do the previous versions work? Why does 2.6.15.2 work with a Marvell/Yukon ether chip?

Trond asked about using tcp. I prefer to use udp because it has less overhead. This is a computing cluster, all machines are in the same room connected to a HP 4108gl gigabit switch. It's not a cable or switch port problem, all machines exhibit the same behavior.

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