Freescale Semiconductor

Rev.1 03/2014

NAT Set up Users Guide (P1010RDB)

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The following table provides a revision history for this document.

Table 1. Document Revision History

Revision	Date	Significant Changes
1	03/2014	• Initial release

Freescale Semiconductor

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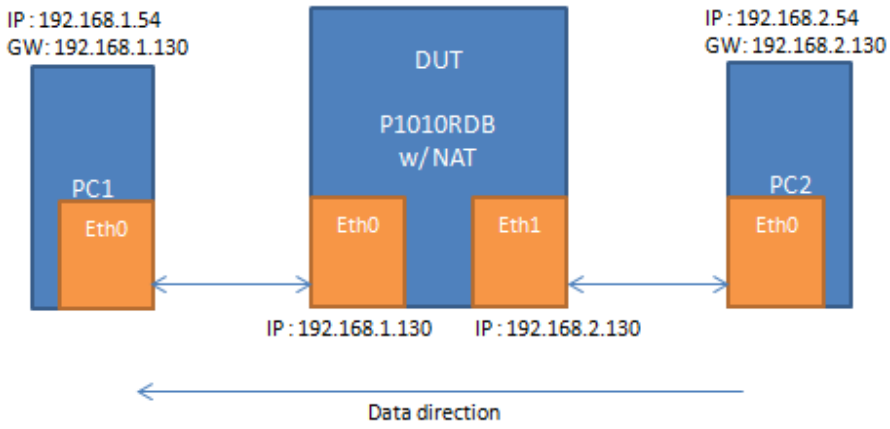
1. Test Bed :
   Use ping command to verify the way from 192.168.2.54 to 192.168.1.54
   Use iperf to test the throughput, at PC1 side setup the server and PC2 side setup the client



Hardwires:

a. DUT: P1010RDB@800Mhz
b. PC1,PC2 with iperf

Software:

1. Ipref
2. FSL EAP P1010RDB-V0003.iso / kernel 2.6.35 / Busybox version 1.8.2 or above.

Procedure

1) **Set up eth0 and eth1 on DUT**

```
# ifconfig eth0 down
# ifconfig eth0 hw wther 00:11:22:33:44:55
# ifconfig eth0 192.168.1.130 netmask 255.255.255.0
# ifconfig eth0 up

# ifconfig eth1 down
# ifconfig eth1 hw wther 00:11:22:33:44:66
# ifconfig eth1 192.168.2.130 netmask 255.255.255.0
# ifconfig eth1 up
```

2) **Enable IP forwarding**

```
# echo 1 > /proc/sys/net/ipv4/ip_forward
```

3) **Enable NAT**

```
# iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE
# iptables -A FORWARD -i eth1 -o eth0 -j ACCEPT
```

4) **Set IP and Gateway on PC1 and PC2**
5) **Ping from PC2 to PC1**
6) **Set iperf server on PC1**

```
iperf -s -i 1 -w 1M
```

7) **Set iperf Client on PC2**

```
iperf -c 192.168.1.54 -w 256k -i 1 -t 30 -l 1280
```