

LINK AGGREGATION / BONDING

1) if one has a multiple GbE interfaces (1 from motherboard MB and additional one port from PCI network card) he or she will be able to get one connection of multiplyed identical interfaces. Of course there must be at least two Personal Computers with 2 GbE ports via MB and PCI card. At beginning install:

```
#sudo apt-get install ifenslave
```

2) manage network connection configuration for 1+1GbE with higher MTU value for sending big files (> few MB) on each side:

```
#vim /etc/network.interfaces
```

```
auto lo
```

```
iface lo inet loopback
```

```
auto enp0s1    #ordinary network config
```

```
iface enp0s1 inet manual
```

```
address 192.168.150.3
```

```
network 192.168.0.0
```

```
netmask 255.255.0.0
```

```
gateway 192.168.150.1
```

```
dns-nameservers 8.8.8.8 8.8.4.4
```

```
auto eno2
```

```
iface eno2 inet manual
```

```
bond-master bond0
```

```
auto eno1
```

```
iface eno1 inet manual
```

```
bond-master bond0
```

```
auto bond0
```

```
iface bond0 inet static
```

```
address IPv4Addr
```

```
netmask 255.255.0.0
```

```
bond-mode 0
```

```
bond-miion 100
```

```
bond-lacp-rate 1
```

```
bond-slaves eno2 eno1
```

```
mtu 9000
```

3) note that eno 2 and eno1 are names of network interfaces (one can list them with ifconfig command)

4) restart connection:

```
#sudo ip addr flush IPInterfaceName && sudo systemctl restart networking.service
```

```
&& sudo service networking restart && sudo service network-manager restart
```

5 test connection speed:

```
# sudo apt-get install iperf
```

at iperf server side run listening:

```
#iperf -s
```

at iperf testing client side run measures:

```
#iperf -c IPv4Addr
```