# Setting up the host computer for Mea1k

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Setting up a host computer for the first time:

- 1. Apply for "sudo" rights
- 2. Make sure, that the module paths are correctly set. Use:

vim \${MODULESHOME}/init/.modulespath

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12.0.0.1 255.0.0.0

Set subnet for second network interfac

sudo /sbin/ifconfig -a (display information)

sudo /sbin/ifconfig p5p1 up (start it)

sudo /sbin/ifconfig p5pl 12.0.0.1 (set host IP address)

DEVICE=p5p1 IPADDR=12.0.0.1 ONBOOT=yes

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#### Disable firewall for second NIC

If you run "sudo systemctl disable iptables" it makes it permanent.

First, start firewalld (the new firewall deamon on RHEL7). Then, use firewall-config, to add eth1 to the trusted zone.

sudo /usr/sbin/firewalld sudo firewall-config

In firewall-config, select the trusted zone in the panel on the left and navigate to the "interfaces" tab on the right. There click add and enter eth1.

### Increase network receive buffer size

#### Edit the file: /etc/sysctl.conf

# Set large enough network rcv buffer net.core.rmem\_max = 20971520

## Starting the software on the computer

1. load the correct Mea1k module (current, head)

module load mealk/current
or:
module load mealk/head
also:
module list

2. Make sure that the correct python path is loaded. Otherwise, python might load the wrong modules and libraries or none at all:

echo \$PYTHONPATH

should return:

/usr/local/hierlemann/el6/mealk/head/python/modules
:/usr/local/hierlemann/el6/mealk/head/python/lib



3. Extend the maximum size of the kernel network buffer on the host. Make sure to execute this command before starting the server tool. Otherwise it has no effect.

sudo /sbin/sysctl -w net.core.rmem max=20971520

- Start Mea1kGui, run "init" and "board settings" scripts.
   At the first start: copy those scripts into the GUI and regularly close and restart Mea1kGui in order to keep them there.
- 5. Start ServerGui.
- 6. Start ArrayTool.
- 7. Start Mea1kGui.
- 8. etc.