**Test Task 2**

**Platform** Linux (kernel 2.6) – Ubuntu 10.04

Linux (kernel 3.2) – Ubuntu 12.04

**tcpdump** utility (wireshark, ethereal) – to learn to use; based on libpcap.

**Objective**: using **C**, write an analogue of **tcpdump** (console application) which analyzes all packages that meet the specified criteria (like source/ destination MAC, source/ destination IP address, source/destination port), and keeps the following statistics:

* List of all MAC addresses of the packages; quantity of packages sent to/from a specified MAC address.
* List of all IP addresses of the packages; quantity of TCP and UDP packages sent.

**Demand**: Possibility of binding to a specified network interface (eth0).

**Tip**: Without binding to a specified network interface(**eth**X) it might be impossible to obtain all the packages that pass through the network. Linux may have different interfaces not only ethX!

**To use**:

gcc, make, libpcaps sources, ifconfig command.