To: Hussein Badr

Subject: PF\_PACKET useful link

Dear Professor,

As we have discussed, I am sending you the PF\_PACKET link which I found really useful when writing a small program to check PF\_PACKET & RAW\_SOCKET communication:

```
http://aschauf.landshut.org/fh/linux/udp_vs_raw/ch01s03.html#id2766267

(note that PF PACKET and AF PACKET can be used interchangeably when declaring the socket)
```

A few words of caution:

 People who are going to use this they have to make sure to provide their own protocol number at the following place:

Here **USID PROTO** will be the student's own protocol number.

Take care when mentioning the interface. For example, suppose,

```
/*index of the network device*/
socket_address.sll_ifindex = 2;
/* #### here we have to put the correct network interface index
otherwise it will not work*/
```

The MAC addresses should be filled based on the designated interface and the neighbouring node off that interface; e.g.,

```
/*MAC address on interface 2*/
unsigned char src_mac[6] = {0x00, 0x01, 0x02, 0xFA, 0x70, 0xAA};
/*neighbour host MAC address*/
unsigned char dest_mac[6] = {0x00, 0x04, 0x75, 0xC8, 0x28, 0xE5};

/*MAC - begin*/
socket_address.sll_addr[0] = 0x00;
socket_address.sll_addr[1] = 0x04;
socket_address.sll_addr[2] = 0x75;
socket_address.sll_addr[3] = 0xC8;
socket_address.sll_addr[4] = 0x28;
socket_address.sll_addr[4] = 0x28;
socket_address.sll_addr[5] = 0xE5;
/*MAC - end*/
socket_address.sll_addr[6] = 0x00; /*not used*/
socket_address.sll_addr[7] = 0x00; /*not used*/
```

The rest of the code should be pretty straightforward to follow.