Redes de Computadores 1 – Lab 11 – Daniel Maryna 64611

1.

Address: 00:09:5b:61:8e:6d

2.

The destination address 00:0c:41:45:90:a8 is not the Ethernet address of gaia.cs.umass.edu. It is the address of my Linksys router, which is the link used to get off the subnet.

3.

The hex value for the Frame type field is 0x0800. This corresponds to the IP protocol (the frame type filed indicates that the nest layer above IP – the layer to which the payload of ths Ethernet frame will be passed – is IP

4.

The ASCII “G” appears 52 bytes from the start of the Ethernet frame. There are 14 B Ethernet frame, and then 20 bytes of IP header followed by 20 bytes of TCP header before the HTTP data is encountered.

5.

The source address 00:0c:41:45:90:a8 is neither the Ethernet address of gaia.cs.umass.edu nor the address of my computer. It is the address of my Linksys router, which is the link used to get onto my subnet

6.

The destination address 00:09:5b:61:8e:6d is the address of my computer.

7.

The hex value for the Frame type field is 0x0800. This value corresponds to the IP protocol (see also answer to 3. above)

8.

The ASCII “O” appears 52 bytes from the start of the Ethernet frame. Again, there are 14 bytes of Ethernet frame, and then 20 bytes of IP header followed by 20 bytes of TCP header before the HTTP data is encountered.

9.

The Internet Address column contains the IP address, the Physical Address column contains the MAC address, and the type indicates the protocol type.

10.

The hex value for the source address is 00:d0:59:a9:3d:68. The hex value for the destination address is ff:ff:ff:ff:ff:ff, the broadcast address.

11.

The hex value for the Ethernet Frame type field is 0x0806, for ARP..