Assignment-2 CS425A

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1 Ethernet

1.1 Problem 1

The ethernet address of my computer is 00:d0:59:a9:3d:68.

1.2 Problem 2

The destination address in the ethernet frame is 00:06:25:da:af:73. This is not the ethernet address of gia.cs.umass.edu. LinksysG router has this ethernet address.

1.3 Problem 3

The hexadecimal value for the two-byte Frame type field is 0x0800. It corresponds to Network Layer Protocol. Here the protocol used is IP.

1.4 Problem 4

'G' occurs after 54 bytes from the start of the ethernet frame.

1.5 Problem 5

The value of the ethernet source address is 00:06:25:da:af:73. This is the ethernet address of the LinksysG router which is used to route the datagram off the subnet.

1.6 Problem 6

The destination ethernet address is 00:d0:59:a9:3d:68. This is the ethernet address of my computer.

1.7 Problem 7

The hexadecimal value for the two-byte Frame type field is 0x0800. It corresponds to Network Layer Protocol. Here the protocol used is IP.

1.8 Problem 8

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TCP segment data (1460 bytes)

0000 00 d0 59 a9 3d 68 00 06 25 da af 73 08 00 45 60 ...Y.=h..%..s..E`

0010 05 dc 8f 2f 40 00 37 06 76 f7 80 77 f5 0c c0 a8 .../@.7.v..w...

0020 01 69 00 50 04 22 ac a5 3f b4 65 14 9c 1f 50 10 .i.P."..?e...P.

0030 1b 28 5e d0 00 00 48 54 50 2f 31 2e 31 20 32 .(^...HTTP/1.1 2)

0040 30 30 20 17 4b 0d 0a 44 61 74 65 3a 20 53 61 74 00 0k.Date: Sat

0050 2c 20 32 38 20 41 75 67 20 32 30 30 34 20 31 37 , 28 Aug 2004 17
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'O' occurs after 66 bytes from the start of the ethernet frame.