

Informal Quiz 1

True or False?

T F

- The structure of MAC addresses facilitates performance scalability.
- The interface between layers often outlives the technology used in each layer.
- If a node is multi-homed, it must be configured as a router
- Heterogeneity and scale is the reason why routers are required for internetworking.
- A layer-2 switch connects two broadcast domains.

- ARP and RARP run over IP
- The protocol field in the PPP header is used for demultiplexing
- The CRC field in Ethernet is found in the trailer because there was no space in the header
- Meta-data about voice samples in telephony is in a large part inferred from timing.
- Statistical multiplexing is most useful when the peak rate is close to the average rate

- □ The heterogeneity issue is addressed in IP by defining a common packet format, a common address space, and mapping them to lower layers using fragmentation/reassembly and address resolution techniques.
- □ Performance scalability is achieved in routers by providing better filtering (cutting out the fall-back on broadcast) and higher-level forwarding
- □ Telephony and ATM networks can afford to have variable length addresses because their performance cost is amortized over the life of the session