David Bozarth
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Homework #8

32. If frequent errors are expected, or if retransmission cost is high.

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40. $(10^{10}$ bit/s) / (1526 bit/fr) = **6.55 x 10^6 frames per second**

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43. Store-and-forward switches buffer frames before forwarding them. If the transmitted frame gets damaged, it can be retransmitted from the buffer.

Since cut-through switches don't buffer frames, then if a frame is damaged it must be retransmitted from an upstream device, increasing network traffic.

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45. Yes, it would work because this switch belongs to a single LAN. The VLAN switch would have to be configured to communicate with a non-VLAN-aware switch on that port.