**Assignment #001**

Consider the figure below, with three links, each with the specified transmission rate and link length.



Find the end-to-end delay (including the transmission delays and propagation delays on each of the three links, but ignoring queuing delays and processing delays) from when the left host begins transmitting the first bit of a packet to the time when the last bit of that packet is received at the server at the right. The speed of light propagation delay on each link is 3x108 m/sec. Assume a packet length of **4000** bits. Give your answer in milliseconds.

**端到端时延等于处理时延加上传输时延加上传播时延，由于本题不考虑处理时延，所以得出下面公式：**

**dend-end = dtrans + dprop**

**=(1.003\*106)/(3\*108)+4000/109+4000/107+4000/108**

**=0.003343+0.000444**

**=0.003787 S = 3.787 milliseconds**