

Homework assignment (cnt'd)

Calculate the total delay to transfer a 10 Mb file from the host 1 to the host 2 (from the beginning until the host 2 receives the last bit of the file) using circuit switching, message switching and datagram switching networks. Datagram size is 65 kb. The following is known:

The *distance* between the two hosts is 4000 km.

There are 3 routers (nodes) at the same distance in between the hosts.

Propagation speed is 200 000 km/s.

Transmission *bandwidth* is 100 Kbps.

Node *processing delay* is 100 ms.

Neglect processing delays in hosts.

Comment on the obtained results.