

Course: CISC 856 TCP/IP & UPPER LAYERS Semester: Fall 2012

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1. What is DTN? List the difference between DTN and today's Internet.
2. What are the bundler layer and convergence layer in DTN?
3. Why does Saratoga use UDP instead of TCP?
4. What is the difference between SACK and SNACK?
5. Compare Saratoga with FTP.
6. What does HOLESTOFILL used for? When it MUST be used? And when it MAY be used?
7. Will the inactivity timer be started for every packet sent out? If not, list out the packets for which no timer needed and explain why.
8. Draw diagrams for the following cases:
  - . (a) Suppose a ground station is asking for a data file of 8 DATA packets. The satellite request an ACK for every 3 DATA packets.
  - . (b) Suppose a ground station is asking for a data file of 8 DATA packets. The ground station send out an ACK for every 2 DATA packets.
  - . (c) Suppose a ground station is asking for a data file of 8 DATA packets. The satellite request an ACK for every 4 DATA packets. DATA packet 2 is lost.