Cody Adams

CSC335-01

Winter 09

Homework 5 : 11, 29, 30, 39, 41

11. λ*f* = *c*; c = 3 x 108 m/s. λ = 1 cm -- 30 GHz, λ = 5 m – MHz

29. 125 μsec = 8000 samples per second, which the frequency needed for a 4kHz channel, like an analog phone line

30. T1 has 24 channels of 8 bits, 7 data bits and 1 overhead bit. 24 x 1, plus the additional frame bit = 25; ( 25 \* 8000 / 1544000 ) = 12.95%

39. Packets have a finite size, message do not

41.

best avg worst

star: 2 2 2

ring: 1 *n/*4 *n/*2

full interconnect: 1 1 1