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What is computer system and networking. Computer networks a systems approach answers. What is computer network and its types with diagram.

(c) TRT N THT + RingLatency 57. Fourth slot afterwards: A defers a fourth time (P=16/81 20%). R begins sending Frame[5]; frames 6,7 are in R s queue. We may treat a buffer consisting of n-bit blocks as a large number written in base 2 n. Bits NRZ Clock Manchester NRZI Bits See the figure below. 25. T=4 ACK[3] arrives at R and then A; A sends Frame[7] to R; Frame[4] arrives at B; B sends ACK[4] to R. If the bucket contains one or two values, these could be attributed to out-of-order delivery. 29. Thus there would have been enough 5-bit codes meeting the stronger requirement; however, additional codes are needed for control sequences. 21 Chapter 2 19 (b) T=0 Data[0]...Data[3] sent T=1 Data[0]...Data[3] arrive at R T=2 Data arrive at B; ACK[0]...ACK[3] start back T=3 ACKs arrive at R T=4 ACKs arrive at A; Data[4]...Data[7] sent T=5 Data arrive at R 37. With multiple services at your fingertips, the possibilities are endless. Protocols above Ethernet must be able to distinguish such padding from actual data. 22 Chapter Hosts sharing the same address will be considered to be the same host by all other hosts. 34. Sender Receiver Frame[1] original frame response to duplicate ACK original frame response to duplicate ACK Frame[1] ACK[1] ACK[1] Frame[2] Frame[2] ACK[2] ACK[2] Frame[3] Frame[3]... If both sender and receiver adopt a resend-on-timeout strategy, with the same timeout interval, and an ACK is lost, then both sender and receiver will indeed retransmit at about the same time. We could tolerate multisecond latency delays; the primary restriction is that if the monitoring revealed a need for intervention then we still have time to act. T=1 Receiver frees first buffer; sends ACK4/SWS=1. (a) Assuming 48 bits of jam signal was still used, the minimum packet size would be bits = 586 bytes. The source address doesn't matter at this point m/( m/sec) = 1 μs; at 16Mbps this is 16 bits. (a) The second address must be distinct from the first, the third from the first two, and so on; the probability that none of the address choices from the second to the one thousand and twenty-fourth collides with an earlier choice is (1/2 48 )(1 2/2 48 ) (1 1023/2 48 ) 1 ( )/2 48 = 1 1, 047, 552/( ). The receiver sends ACK[3] in response, but this is slow. (a) THT/(THT + RingLatency) (b) Infinity; we let the station transmit as long as it likes. T=5: Stations A, B, and C sense the channel before transmission, but find it busy. So the monitor must add 24 (16 + 5) = 3 additional bits of delay. Here's how.Back Up to an External Hard DriveYou can back up your data to an external hard drive and have a copy of that drive ready in case of computer failure. Thus for files 86,000 bytes or longer, using packets results in more total data sent on the wire. If overflow occurs, then the result is at least 0x0000 plus the addition of a carry bit, i.e. 0x Let s define swap(a,b) = [B,A], where A and B are one byte each. C attempts to transmit; discovers line is busy and waits. A later ACK would then be sent with a nonzero SWS, when a receive buffer becomes available. The next two figures correspond to the text s Fig 2.19(c) and (d); (c) shows a lost ACK and (d) shows an early timeout. Resulting in a total latency of (8192s/b) s (8.192m/b) = (n) seconds. On the other hand, [a, b] + 1 [c, d] = [a + 2 b, 0xFFFF] + carry(a, b). However, as long as a + 2 c and b+ 2 d are not equal to 0xFFFF, adding 1 won't affect the overflow bit and so the above argument works. C finishes; A and B attempt to retransmit and a third collision occurs. Comparison of circuits and packets result as follows: (a) Circuits pay an up-front penalty of 1024 bytes being sent on one round trip for a total data count of n, whereas packets pay an ongoing per packet cost of 24 bytes for a total count of 1024 n/1000. As before, we let ACK[N] denote the acknowledgment of all data packets less than N. Success here depends largely on the ability of one s search tool to separate out the chaff. T=2: hosts A,B,D,E attempt. (b) Probability of the above on million tries is (c) Using the method of (a) yields (2 30 ) 2 / ( ) = 2 11 ; we are clearly beyond the valid range of the approximation. Assume a NAK is sent only when an out-of-order packet arrives. So the question really asks how many packet headers does it take to exceed 2048 bytes, which is 86. 26. The length of cable needed to exactly contain such a packet is 20 μs/msec = 4,000 meters. variable-length, and absolute v. With a propagation speed of c = meters/sec, the one-way propagation delay is thus 2 35,900,000/c = 0.24 sec. What do you do if your computer stops running? You can even use a free service for certain files and a paid service or external hard drive for others. B chooses a three-bit backoff time as it is on its third collision, while the others choose two-bit times. Whether these retransmissions are synchronized enough that they cross in the network depends on other factors; it helps to have some modest latency delay or else slow hosts. STDM was preferred for voice because it makes somewhat more efficient use of the underlying bandwidth of the medium, and because channels with different capacities was not originally an issue Gbps = 10 9 bps, meaning each bit is 10 9 sec (1 ns) wide. (b) The total transfer latency for packets is the sum of the transmit delays, where the per-packet transmit time t is the packet size over the bandwidth b (8192/b), introduced by each of s switches (s t), total propagation delay for the links ((s + 2) 0.002), the per packet processing delays introduced by each switch (s 0.001), and the transmit delay for all the packets, where the total packet count c is n/1000, at the source (c t). When the first client exits, any queued connections are processed. (b) One frame is 810 bytes; at STS Mbps speed we are sending /8 810) = about 8000 frames/sec, or about 480,000 frames/minute. Any element of M can be transmuted into any other by an 8-bit error. #include #include #include const int RUNCOUNT = ; // X = X(lambda) is our random variable double X(double lambda) { double u; do { u = double(rand())/RAND\_MAX; } while (u== 0); double val = - log(u)\*lambda; return val; } 28 Chapter 2 26 double run(double lambda) { int i = 0; double time = 0; double prevtime = -1; double nexttime = 0; time = X(lambda); nexttime = time + X(lambda); // while collision: adjacent times within +/- 1 slot while (time - prevtime < 1 || nexttime - time < 1) { prevtime = time; time = nexttime; nexttime += X(lambda); } return time; } void main(int argc, char \* argv[]) { int i; double sum, lambda; for (lambda = 1.0; lambda (16-k); // mask = 2 k-1 return int (r & mask); } station S[MAX]; // run does a single simulation // it returns the time at which some entrant transmits int run (int N) { int time = 0; int i; for (i=0;



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