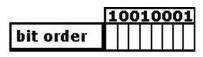
- 1. (2 points) Given a MAC address of 01 20 D0 1C F8 02, circle the part that represents the Organizational Unique Identifier. Give the equivalent binary.
- 2. (1 point) Circle the first bit transmitted below, assuming the bits are transmitted using the Big Endian convention.



- 3. (7 points) On Tuesday we spent a lot of time talking about the way Ethernet works and what the its protocol is for transporting packets.
  - (a) (1 point) Is this procedure being run by the NIC or the CPU? Make sure you are clear about the relationship between the NIC and the CPU.
  - (b) (2 points) The Ethernet protocol is referred to as CSMA:CD. What is exponential backoff, and what part of the previous acronym is affected by that concept?
  - (c) (2 points) The Ethernet protocol is referred to as CSMA:CD. Give one short sentence that briefly explains what "multiple access" is.
  - (d) (2 points) The Ethernet protocol is referred to as CSMA:CD. Give one short sentence that briefly explains what "Carrier Sensing" is. Make sure you are clear on which agent is doing the sensing, and how it is doing that.