Quiz

- What describes the function of the PERST# signal in a PCIe link?
  a) A low pulse on this signal will begin a transition to a low power state.
  b) A transition from low to high will indicate that power rails are stable and link initialization is ready to begin.
  c) This signal, held low, will cause the PCIe link to transition into a recovery state.
  d) This is used to request a clock from the upstream port.

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  d) This is used to request a clock from the upstream port.

b) A transition from low to high on the PERST# line indicates that the PCIe power rails are stable and that link initialization should begin.

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  a) Receiver Detect
  b) Configuration
  c) Polling
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a) Before transmission can begin, the receiver detect circuit in a PCIe device must first confirm that there is a link partner to pair with.

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  b) Bifurcated
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b) A bifurcated PCIe link refers to a larger PCIe link split into multiple smaller links. For example, a 16 lane PCIe link can be divided into 4 links 4 lanes wide.

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- At what PCIe data rate(s) does link initialization include a link equalization step?
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  c) PCIe Gen 3
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a, c, and d) Link EQ is a required link training step for PCIe communication above Gen3 data rates.

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  b) L0
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b) L0 describes a PCIe link that is active and able to send on process packets regularly.