MITx 6.004.3x
Computation Structures 3: Computer Organization

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LE20.1

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LE20.1.1: Interconnect

0.0/1.0 point (ungraded)
A trend in modern computers is to replace parallel, shared backplane buses with

○ Hypercube networks

○ Ribbon cables

○ Serial, point-to-point switched connections

○ Coaxial cables

○ Wireless networks

○ None of the above

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LE20.1.2: Interconnect

0.0/1.0 point (ungraded)
If we take into consideration physical realities like speed-of-light delays and minimum node size, the asymptotic worst-case latency between nodes of an N-node binary tree network is:

○ $O(N)$

○ $O(log(N))$

○ $O(\sqrt[2]{N})$

○ $O(\sqrt[3]{N})$

○ $O(N^2)$

○ $O(N^3)$

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