

1. What does the term 'architecture' mean?

Answer: Architecture is the art and technique of designing and building stuff.

2. What do you think the term 'Computer Architecture' refers to?

Answer: Computer Architecture refers to the organization of the components which make up a computer system and the meaning of the operations which guide its function.

3. Why do you think the study of Computer Architecture is important (or perhaps unimportant)?

Answer: Computer Architecture is required for balancing the performance, efficiency, cost and reliability of a computer system

4. Can you identify computer architecture in things you use or experience?

Answer: Phones, laptops, processors, etc.

5. What is the reason for the slow-down in processor performance growth after the year 2002?

Answer: Limits of power, available instruction level parallelism, and long memory latency.

6. From the Moore's law graph on Wikipedia, find out the rough transistor count for the Intel core i7 chip.

- (a) 10 million
- (b) 100 million
- (c) 1 billion
- (d) 10 billion

Answer: (c)