Study Questions (Chapter 01 -- Part 2)

- 1. Can a clever system programmer differentiate between the encoded data object and encoded program instruction from their binary bit patterns?
- 2. Define and difrenciate between constants, variables, and pointers.
- 3. In register transfer language (RTL) notation, what does $[X] \leftarrow [Y] + Z$ mean?
- 4. In register transfer language (RTL) notation, what does $[X] \leftarrow Y + Z$ mean?
- 5. In register transfer language (RTL) notation, what does [X] = Y + Z mean?
- 6. Which is faster, cache memory or registers?
- 7. Which is faster, cache memory or dynamic memory?
- 8. Computer buses link together two or more functional parts of a computer and allow the exchange of data. How these computer parts can communicate to each other without having data collision?
- 9. Can a computer system have more than one bus?
- 10. Define bus width.
- 11. Define bus bandwidth.
- 12. Define bus latency.