

Assignment 2

Given on 6/4/2017

Submit by 13/4/2017

1. Write short notes on Amdahl's law and Gustafson's Law
2. What is the difference between UMA and NUMA architecture? Are these SIMD or SISD or MIMD or MISD architecture ?
3. How would you classify Systolic Array using Flynn's classification?
4. What is the difference between loosely coupled and tightly coupled architecture? Add block diagrams of each along with your answers.
5. Explain with a simple diagram the functioning of a dynamic data flow architecture machine.
6. What is miss penalty? State briefly What are the ways of reducing miss rate, miss penalty and hit time ?
7. What are the cache coherence protocols?