(1) What are the four hardware architecture for “parallel computers”?

- Tightly-coupled multi-processor systems
- Functionally-specialized multi-processor systems
- Tightly-coupled multi-processor systems
- Distributed systems

(2) What are the two different types of tightly-coupled (this implies that we are talking about hardware parallel platform) multi-processor system?

- Multiple single-core processors
- Single multi-core processor

(3) What is the typical “granularity” for processor assignments in fine-grained tightly-coupled multi-processor systems?

instructions (20 ~ 100 instructions)
(4) If a fine-grained tightly-couple multi-processor system consists of two or four processors (or processor cores), its performance usually will not achieve two or four times better performance (execution speed) compared to its single-processor counterpart. What is the major cause of the problem?

Dependencies in instructions

(5) What is the typical “granularity” for processor assignments in medium-grained tightly-coupled multi-processor systems?

threads