

**Computer Architecture
Spring 2017**

**Homework No. 2
(Due on March 27)**

(* Round off the numbers to two decimal places. (ex) 13.825 → 13.83 *)

1. Text Exercise 1.7. (25)
2. Text Exercise 1.9. (25)
3. Text Exercise 1.15. (20)
4. Assume the following performance comparisons of three machines.

	Computer A	Computer B	Computer C
Program 1	5 sec, 40 MIPS	20 sec, 30 MIPS	40 sec, 20 MIPS
Program 2	50 sec, 4 MIPS	10 sec, 10 MIPS	30 sec, 8 MIPS
Program 3	30 sec, 2 MIPS	100 sec, 1 MIPS	5 sec, 50 MIPS

- a) Find the average of the CPU time of each of them with equal weight for the three programs.(10)
- b) Repeat a) for the MIPS. (10)
- c) Find the geometric mean of the CPU time with the reference machine of Computer B. (10)