CS/ECE 347, Spring 1996
Recitation Assignment 4: Computer performance

Assigned: Tue., Feb. 6
Due: Mon., Feb. 12

1 Introduction

Looking at computers and being able to characterize their performance is a fundamental idea behind computer architecture. Using this information computer architects, compiler and OS writers learn how changes in the architecture might improve or hinder the performance of the machine that is being looked at.

In this assignment you will examine a computer system and look at a few different ways to improve it's performance by changing CPI, instruction frequency, and clock speed. The limits to such improvements will also be explored with Amdahl's law.

2 Problems

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2.14-2.20, 2.32, 2.33  pg 84-86.
     From Patterson and Hennessy.
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There are nine problems. Problems 14-20 explore the relationship between instruction frequency, CPI, and clock speed. Problems 32, and 33 deal with Amdahl's law.

3 Directions

Please type the solutions to this assignment.