Name: Id#

COE 205, Term 061 Computer Organization & Assembly Programming

Quiz# 1

Date: Tuesday, Sep. 26, 2006

1.	The register holds the address of the next instruction to be fetched from memory.
2.	The register holds the fetched instruction to be executed.
3.	The register is connected to the address bus in the CPU memory interface.
4.	The register is connected to the data bus in the CPU memory interface.
5.	The Instruction Set Architecture (ISA) of a computer consists of
	and
6.	The size of the address bus in the 8086 processor is bits while in the Pentium IV Processor it is bits.
7.	The size of the data bus in the 8086 processor is bits while in the Pentium IV Processor it is bits.
8.	Reading an instruction from Memory is performed in the phase.
	Reading operands from Memory is performed in the phase.

11.	Decoding an instruction is performed in the phase.
12.	With an address bus size equal to 36 bits , the memory address space isBytes.
13.	With a data bus size equal to 64 bits , the maximum number of bytes that is transferred between the CPU and memory per a read/write cycle isBytes.
14.	After reading an instruction whose size is 32 bits , the instruction pointer is incremented by
15.	The CPU is divided into two main units called and
16.	Two of the reasons for why it is important to program in Assembly Language are
	and
17.	The Cache memory is faster than and slower than
18.	The program that translates assembly language into machine language is called
19.	There is a one-to-one mapping between assembly language and
20.	language is portable while is not portable.