

CSUN

Comp 222

**Take Home
Midterm Examination
31 March 2015**

Name:_____

Write the answers to all questions on a word processor. If you want to use the diagram from Question 2, simply highlight the diagram, copy it, and paste it to another page.

If you want to draw additional elements or changes on the diagrams use a word processor or Visio. Insert extra pages as required. Start each answer on a separate sheet of paper; always use a word processor, such as MSWord, to answer the questions. If the answer requires a drawing tool you can use MSWord, e.g., click on “Insert” then “Shapes” and/or “Text Box” or use another tool such as Visio which can be downloaded without cost from Microsoft.

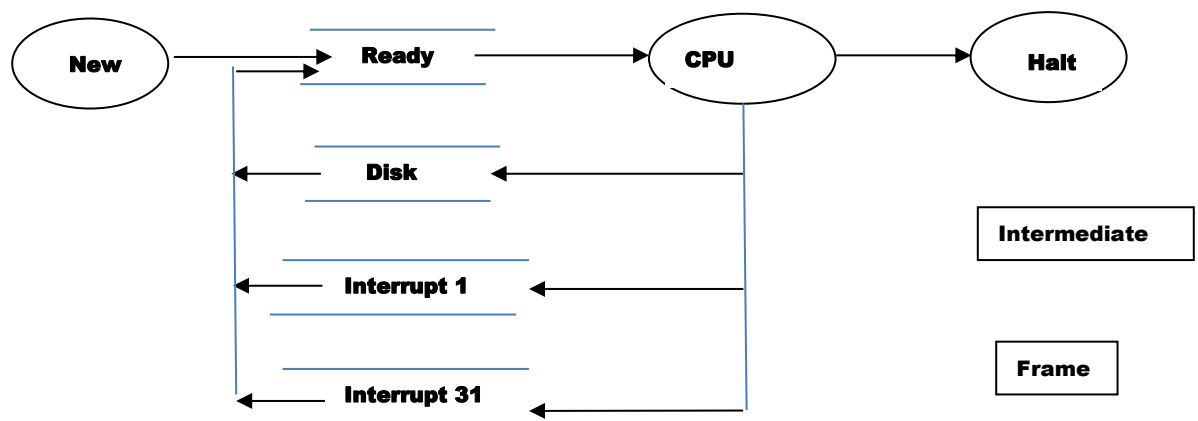
Attach each answer to this document in the order of the questions below.

1. Current Technology Systems

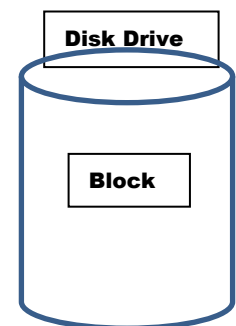
a. What is the operational difference between a 4-Core chip using Point to Point Interconnect with PCI Express and a System that uses four Processors with a High-Speed Asynchronous Bus?

b. How does an ARM chip and an Intel chip differ from one another?

2. Given the processing cycle below, indicate where and how the following components are integrated into the system. Describe this concept in detail.



- Long Term Scheduling
- Medium Term Scheduling
- Short Term Scheduling
- I/O Scheduling
- Swapping
- Paging



Stallings

- page 62 #2.9
- page 109 #3.3
- page 219 problem 6.5
- page 219 problem 6.10
- page 261 problem 7.6
- page 262 problem 7.7
- page 318 problem 9.8
- page 318 problem 9.15