



The University of the West Indies, St. Augustine
INFO 2603 Platform Technologies 1
2018/2019 Semester 1
Lab 3 : 3rd-4th October 2018

Exploration of Hardware and Platform Technologies

Learning Objectives

- Identify the hardware components found in various platform technologies:
 - Personal computers
 - Embedded computer controllers/ single-board computer (Raspberry Pi)
- Describe differences in hardware technology for various components.
- Recommend operating systems (OS) software for a given platform technology
- Forecast software capabilities for a given set of hardware components
- Describe a business application for a given hardware configuration and OS.

Form groups (of no more than 5 persons) and identify an area in the lab to work on the activities. Ensure that you have a computer system to observe and work with.

Activity 1 - Explore the hardware

- ▶ Discuss the various hardware components that you observe in the computer assigned to you.
- ▶ Discuss the various hardware components that you observe.
- ▶ Take as many pictures of as many components that you can identify.
- ▶ Upload your pictures to your group forum on myElearning.
- ▶ Each group member must post at least one entry.

Activity 2 - Understand the chip technology

- ▶ Discuss the type of chip technology present in your system
- ▶ Research the instruction architecture set for the chip technology in your system
- ▶ Research as many details about the manufacturer and technology performance metrics and features
- ▶ Upload ONE post on your group's forum based on your discussions under the appropriate image thread.

Activity 3 - Understand the storage technology

- ▶ Discuss the type of secondary storage technology present in your system
- ▶ Research as many details about the manufacturer and technology performance metrics and features
- ▶ Upload ONE post on your group's forum based on your discussions under the appropriate image thread.

Activity 4 - Understand the support for OS software

- ▶ Discuss the types of operating systems software that will work on your system.
- ▶ Identify examples of operating systems software that will work on your system.
- ▶ Upload ONE post on your group's forum based on your discussions in a separate thread.

Activity 5 - Understand the business application

- ▶ Discuss specific business domains that may use the systems hardware and software you identified from Activities 4 and 5.
- ▶ Identify the strongest case based on your group's analysis.
- ▶ Upload ONE post on your group's forum based on your discussions in a separate thread that addresses the following:
 - ▶ What is the business domain?
 - ▶ What is the main service provided?
 - ▶ How do the hardware and OS choice support the main service?

END OF LAB