Study Guide for Week #7

Module 7: Emulating a Physical System

Material Outline

(1) Introduction to Emulation
(2) Differences between emulation and simulation
(3) Types of emulation
(4) CORE emulator
(5) CORE emulator example of use

Provided Documents

Documents	Description
Week7-WatchMEfirst	Video explaining the goals of this week
Week7-StudyGuide.pdf	The guiding documents for the materials covered in this week, student work, and learning outcomes of this week.
Week7-Slides.ppt	PowerPoint slides regarding emulating a physical system
Week7-Lecture	Video Lecture
Week7-PaperReading	A paper explaining what is CORE emulator and its evaluation.
Week7-Resources: Video -> CORE Network Emulator Getting Started	A video showing an example of CORE emulator and how it works
Week7-Resources: Video -> VPN Security emulation	A video showing all the versatile uses of CORE. In this case it is a VPN server for security

Documents	Description
using CORE emulator	
Week7-Resources: Website -> CORE emulator	The official page of CORE emulator
Week7-Checklist	A checklist for your reference

Student Assignments

- Digest PowerPoint slides
- Watch the Lecture (or attend the in-person lecture)
- Read the Week 7 Material (All readings and papers provided)
- Watch explicative videos
- Submit Lab #3

Learning Goals

This module is part of the learning outcomes

(1) Understand the difference between emulators and simulators
(2) Perform emulation of physical systems