HW2 - Installing linux and compiling assembly programs

due: Oct 7th, 2019

1. Goal

- Install Linux for future homework and learn how to use it.
- How to compile assembler programs on Linux
- How to use an objdump command

2. How to Install Linux

(1) Installing Linux in Dual Mode with Windows

(2) Installing Linux as a Virtual Machine Using viirtual machine softwares

- Choose one of the above options

3. Install Ubuntu Linux as a Virtual machine

Assume that Windows 10 is installed on a computer. We will install a free virtual machine softwares such as VirtualBox or VMWare. As a Linux, Ubuntu is recommened. However students can install any Linux distributions.

(1) VMware worksation player

- Download:
https://my.vmware.com/en/web/vmware/free#desktop_end_user_computing/vmware_workstation_player/15_0
- References:
https://www.maketecheasier.com/install-ubuntu-in-vmware-player-windows/

(2) VirtualBox

- Download: https://www.virtualbox.org/wiki/Downloads
- References: https://brb.nci.nih.gov/seqtools/installUbuntu.html

(3) Ubuntu

- download: http://www.ubuntu.com/download/desktop
- You can choose 18.04
- The provided CSE sever for later homework is installed with Ubuntu 18.04

4. Executing two assembly programs.

(1) Refer to the attached file which explains how to compile and execute assembly programs such as exit.s and maximum.s

(2) Execute an objdump command for exit and maximum (linked from exit.s and maximum.s)

(3) Insert screenshots of your assembly program to the report.

5. **How to submit a report**

(1) Use the attached report template at HW2 web page

(2) Print a hard copy and submit it on Oct 7th

(3) Notice

- For submissions after the deadline, 10 points will be deducted from the total score per day
- No homework will be accepted after Oct 10th.

6. Notes

- If you have familiar virtual machine software besides VirtualBox and VMWare, you can use it.
- Any linux versions are okay to install
- **All you have to do is create your own Linux environment for later homework assignments.**