xv6 Operational System

xv6 - Operational System

Xv6 does boot on real hardware, but typically we run it using the QEMU emulator.

Installing and Running xv6 Operating System

You must run QEMU Emulator before continuing this installation.

Now, let's download the source code of the xv6 operating system. MIT provided an official git repository to download the source code. However, I have cloned it into a my own repository on Github from where I will get it.

git clone https://github.com/mit-pdos/xv6-public.git
sudo chmod 777 -R xv6-public
cd xv6-public
After moving into the directory with the source code, we need to make an important entry inside the Makefile. Therefore, find the line which has the QEMU command and update it to make it look like as follows.

QEMU = qemu-system-x86_64
Time to compile and run xv6 system on QEMU emulator.

sudo make
make qemu
This will startup a window with QEMU emulator and will start the shell prompt of xv6 operating system.

References:

[1] Frans Kaashoek. *6.828 Operating System Engineering, Fall 2012*. (Massachusetts Institute of Technology: MIT OpenCourseWare), http://ocw.mit.edu (Accessed 22 Feb, 2016). License: Creative Commons BY-NC-SA

[2] http://janfan.github.io/english-blog/english/2014/06/17/how-i-learn-os.html