

For Students:

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Xv6 Homepage: <https://pdos.csail.mit.edu/6.828/2018/xv6/>

Xv6 Source Github Repository: <https://github.com/mit-pdos/xv6-public>

Xv6 Source PDF: <https://pdos.csail.mit.edu/6.828/2018/xv6/xv6-rev11.pdf>

Xv6 Book: <https://pdos.csail.mit.edu/6.828/2018/xv6/book-rev11.pdf>

Installing xv6 on Ubuntu:

Step 1 – Install qemu:

```
$ sudo apt install qemu
```

If you have 64 bit OS there is a chance Makefile will not be able to find qemu. In that case you should edit the Makefile at line 54 and add the following code:

```
QEMU = qemu-system-x86_64
```

Step 2 – Install xv6

Create a directory, and clone xv6 to that directory:

```
$ git clone git://github.com/mit-pdos/xv6-public.git
```

Step 3 – Compile xv6

```
$ make
```

Step 4 – Compile and run the emulator qemu:

```
$ make qemu
```

The emulator will start but it will echo on the terminal too. Better to run it with the following frag (preferred)

```
$ make qemu-nox
```

Also, for gdb enabled execution run:

```
$ make qemu-nox-gdb
```