

## QEMU EMULATOR

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## Download QEMU

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

QEMU is packaged by most Linux distributions:

- o Arch: `pacman -S qemu`
- o Debian/Ubuntu: `apt-get install qemu`
- o Fedora: `dnf install @virtualization`
- o Gentoo: `emerge --ask app-emulation/qemu`
- o RHEL/CentOS: `yum install qemu-kvm`
- o SUSE: `zypper install qemu`

Others operating systems : <http://www.qemu.org/download/>

## QEMU documentation

The QEMU user manual can be read online, courtesy of Stefan Weil. More documentation is found in the `docs` directory of the QEMU git tree.

## Libraries necessary to run operating system on a QEMU virtual machine simply on top of a 64-bit Ubuntu 14.04 LTS machine.

```
sudo apt-get update
sudo apt-get install build-essential
sudo apt-get install gcc-multilib
sudo apt-get install git
sudo apt-get install libc6-dev:i386
```