

Building and Flashing Chrome OS AP Firmware: A Hands-On Dive into coreboot

Prerequisites

1. A Linux Machine
 - (Preferred) Laptop with Linux distribution like Ubuntu, Debian, or Fedora.
 - WSL on Windows [[setup steps](#)].Once, you have the system follow these from your terminal.
2. Install tools and libraries need for coreboot (use “apt-get” command for Debian, “dnf” command for Fedora)

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```
sudo apt-get install -y bison build-essential curl flex git gnat  
libncurses-dev libssl-dev m4 bison flex zlib1g-dev pkg-config
```

3. Download [coreboot](#) source tree

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```
git clone https://review.coreboot.org/coreboot  
cd coreboot
```

4. Build the coreboot toolchain

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```
make help_toolchain
```

This will list toolchain options and supported architectures

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```
make crossgcc-i386 CPUS=$(nproc) # build i386 toolchain
```

5. Build the payload - coreinfo

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```
make -C payloads/coreinfo olddefconfig  
make -C payloads/coreinfo
```

6. Install [QEMU](#), processor emulator

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```
sudo apt-get install -y qemu-system
```