

Install Verium CPU Miner

1. Open a terminal window quick method is to press: Ctrl, alt, t
2. Within the terminal window enter the command below and press enter:

```
sudo apt-get update
```

note. You may be prompted for your password enter it and press enter

3. Optional step to apply Linux patches within the terminal window enter the command below and press enter:

```
sudo apt-get upgrade
```

4. Press “Y” if prompted
5. Within the terminal window enter the whole command shown below and press enter:

```
sudo apt-get install git make automake autoconf pkg-config libcurl4-openssl-dev libjansson-dev libssl-dev libgmp-dev build-essentials
```

6. Press “Y” when prompted

```
verium@verium:~$ sudo apt-get install git make automake autoconf pkg-config libcurl4-openssl-dev libjansson-dev libssl-dev libgmp-dev build-essentials
Reading package lists... Done
Building dependency tree
Reading state information... Done
E: Unable to locate package build-essentials
verium@verium:~$ sudo apt-get install git make automake autoconf pkg-config libcurl4-openssl-dev libjansson-dev libssl-dev libgmp-dev build-essential
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  autotools-dev binutils dpkg-dev fakeroot g++ g++-6 gcc gcc-6 git-man libalgorithm-diff-perl libalgorithm-diff-xs-perl libalgorithm-merge-perl libasan3
  libatomic1 libc-dev-bin libc6 libc6-dev libc6-i386 libcilkrts5 libcurl3 libdpkg-perl liberror-perl libfakeroot libfile-fcntllock-perl libgcc-6-dev
  libgmpxx4ldbl libitm1 liblsan0 libmpx2 libsigsegv2 libssl-doc libssl1.0.0 libstdc++-6-dev libtsan0 libubsan0 linux-libc-dev m4 manpages-dev zlib1g-dev
Suggested packages:
  autoconf-archive gnu-standards autoconf-doc libtool gettext binutils-doc debian-keyring g++-multilib g++-6-multilib gcc-6-doc libstdc++6-dbg gcc-multilib
  flex bison gdb gcc-doc gcc-6-multilib gcc-6-locales libgcc1-dbg libgomp1-dbg libitm1-dbg libatomic1-dbg libasan3-dbg liblsan0-dbg libtsan0-dbg
  libubsan0-dbg libcilkrts5-dbg libmpx2-dbg libquadmath0-dbg git-daemon-run | git-daemon-sysvinit git-doc git-el git-email git-gui gitk gitweb git-arch
  git-cvs git-mediawiki git-svn glibc-doc libcurl4-doc libcurl3-dbg libidn11-dev libkrb5-dev libldap2-dev librtmp-dev gmp-doc libgmp10-doc libmpfr-dev
  libstdc++6-doc m4-doc make-doc
The following NEW packages will be installed:
  autoconf automake autotools-dev binutils build-essential dpkg-dev fakeroot g++ g++-6 gcc gcc-6 git git-man libalgorithm-diff-perl libalgorithm-diff-xs-perl
  libalgorithm-merge-perl libasan0 libatomic1 libc-dev-bin libc6-dev libc6-i386 libcilkrts5 libcurl4-openssl-dev libdpkg-perl liberror-perl libfakeroot
  libfile-fcntllock-perl libgcc-6-dev libgmp-dev libgmpxx4ldbl libitm1 libjansson-dev liblsan0 libmpx2 libsigsegv2 libssl-dev libssl-doc libstdc++-6-dev
  libtsan0 libubsan0 linux-libc-dev m4 make manpages-dev pkg-config zlib1g-dev
The following packages will be upgraded:
  libc6 libcurl3 libssl1.0.0
3 to upgrade, 46 to newly install, 0 to remove and 87 not to upgrade.
Need to get 40.3 MB of archives.
After this operation, 174 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

7. Within the terminal window enter the whole command shown below and press enter:

`git clone https://github.com/effectsToCause/veriumMiner`

```
verium@verium:~$ git clone https://github.com/effectsToCause/veriumMiner
Cloning into 'veriumMiner'...
remote: Counting objects: 1994, done.
remote: Total 1994 (delta 0), reused 0 (delta 0), pack-reused 1994
Receiving objects: 100% (1994/1994), 16.82 MiB | 4.46 MiB/s, done.
Resolving deltas: 100% (1317/1317), done.
verium@verium:~$
```

8. Within the terminal window enter the command shown below and press enter:

`cd veriumMiner`

Note. Linux is case sensitive.

9. Within the terminal window enter the command shown below and press enter:

`./build.sh`

Note. Whole load of text will now go past

```
mv -f .deps/cpuminer-sysinfos.Tpo .deps/cpuminer-sysinfos.Po
g++ -DHAVE_CONFIG_H -I. -Iyes/include -Iyes/include -fno-strict-aliasing -I. -Iyes/include -Iyes/include -g -O2 -MT cpuminer-uint256.o -MD -MP -MF .deps/cpuminer-uint256.Tpo -c -o cpuminer-uint256.o `test -f 'uint256.cpp' || echo './'`uint256.cpp
mv -f .deps/cpuminer-api.Tpo .deps/cpuminer-api.Po
gcc -DHAVE_CONFIG_H -I. -Iyes/include -Iyes/include -fno-strict-aliasing -I. -Iyes/include -Iyes/include -Wno-pointer-sign -Wno-pointer-to-int-cast -O2 -Ofast -flto -fuse-linker-plugin -ftree-loop-if-convert-stores -march=native -DUSE_ASM -pg -Iyes/include -Iyes/include -MT crypto/cpuminer-oes lib.o -MD -MP -MF crypto/.deps/cpuminer-oes lib.Tpo -c -o crypto/cpuminer-oes lib.o `test -f 'crypto/oes lib.c' || echo './'`crypto/oes lib.c
mv -f .deps/cpuminer-cpu-miner.Tpo .deps/cpuminer-cpu-miner.Po
gcc -DHAVE_CONFIG_H -I. -Iyes/include -Iyes/include -fno-strict-aliasing -I. -Iyes/include -Iyes/include -Wno-pointer-sign -Wno-pointer-to-int-cast -O2 -Ofast -flto -fuse-linker-plugin -ftree-loop-if-convert-stores -march=native -DUSE_ASM -pg -Iyes/include -Iyes/include -MT crypto/cpuminer-aesb.o -MD -MP -MF crypto/.deps/cpuminer-oes lib.Tpo crypto/.deps/cpuminer-oes lib.Po
gcc -DHAVE_CONFIG_H -I. -Iyes/include -Iyes/include -fno-strict-aliasing -I. -Iyes/include -Iyes/include -Wno-pointer-sign -Wno-pointer-to-int-cast -O2 -Ofast -flto -fuse-linker-plugin -ftree-loop-if-convert-stores -march=native -DUSE_ASM -pg -Iyes/include -Iyes/include -MT algo/cpuminer-scrypt.o -MD -MP -MF algo/.deps/cpuminer-scrypt.Tpo -c -o algo/cpuminer-scrypt.o `test -f 'algo/scrypt.c' || echo './'`algo/scrypt.c
mv -f crypto/.deps/cpuminer-aesb.Tpo crypto/.deps/cpuminer-aesb.Po
gcc -DHAVE_CONFIG_H -I. -Iyes/include -Iyes/include -fno-strict-aliasing -I. -Iyes/include -Iyes/include -Wno-pointer-sign -Wno-pointer-to-int-cast -O2 -Ofast -flto -fuse-linker-plugin -ftree-loop-if-convert-stores -march=native -DUSE_ASM -pg -Iyes/include -Iyes/include -MT algo/cpuminer-sha2.o -MD -MP -MF algo/.deps/cpuminer-scrypt.Tpo algo/.deps/cpuminer-scrypt.Po
gcc -DHAVE_CONFIG_H -I. -Iyes/include -Iyes/include -fno-strict-aliasing -I. -Iyes/include -Iyes/include -O2 -Ofast -flto -fuse-linker-plugin -ftree-loop-if-convert-stores -march=native -DUSE_ASM -pg -MT asm/cpuminer-sha2-x64.o -MD -MP -MF asm/.deps/cpuminer-sha2-x64.Tpo -c -o asm/cpuminer-sha2-x64.o `test -f 'asm/sha2-x64.S' || echo './'`asm/sha2-x64.S
mv -f .deps/cpuminer-util.Tpo .deps/cpuminer-util.Po
gcc -DHAVE_CONFIG_H -I. -Iyes/include -Iyes/include -fno-strict-aliasing -I. -Iyes/include -Iyes/include -O2 -Ofast -flto -fuse-linker-plugin -ftree-loop-if-convert-stores -march=native -DUSE_ASM -pg -MT asm/cpuminer-scrypt-x64.o -MD -MP -MF asm/.deps/cpuminer-scrypt-x64.Tpo -c -o asm/cpuminer-scrypt-x64.o `test -f 'asm/scrypt-x64.S' || echo './'`asm/scrypt-x64.S
mv -f asm/.deps/cpuminer-scrypt-x64.Tpo asm/.deps/cpuminer-scrypt-x64.Po
gcc -DHAVE_CONFIG_H -I. -Iyes/include -Iyes/include -fno-strict-aliasing -I. -Iyes/include -Iyes/include -O2 -Ofast -flto -fuse-linker-plugin -ftree-loop-if-convert-stores -march=native -DUSE_ASM -pg -MT asm/cpuminer-aesb-x64.o -MD -MP -MF asm/.deps/cpuminer-aesb-x64.Tpo -c -o asm/cpuminer-aesb-x64.o `test -f 'asm/aesb-x64.S' || echo './'`asm/aesb-x64.S
mv -f asm/.deps/cpuminer-sha2-x64.Tpo asm/.deps/cpuminer-sha2-x64.Po
mv -f asm/.deps/cpuminer-aesb-x64.Tpo asm/.deps/cpuminer-aesb-x64.Po
mv -f .deps/cpuminer-uint256.Tpo .deps/cpuminer-uint256.Po
mv -f algo/.deps/cpuminer-sha2.Tpo algo/.deps/cpuminer-sha2.Po
g++ -g -O2 -lyes/lib -lyes/lib -lyes/lib -lyes/lib -o cpuminer cpuminer-cpu-miner.o cpuminer-util.o cpuminer-api.o cpuminer-sysinfos.o cpuminer-uint256.o crypto/cpuminer-oes lib.o crypto/cpuminer-aesb.o algo/cpuminer-scrypt.o algo/cpuminer-sha2.o asm/cpuminer-sha2-x64.o asm/cpuminer-scrypt-x64.o asm/cpuminer-aesb-x64.o -lcurl -lz -lssl -lcrypto -ljson -lthread
make[2]: Leaving directory '/home/verium/veriumMiner'
make[1]: Leaving directory '/home/verium/veriumMiner'
verium@verium:~/veriumMiner$
```

8. Within the terminal window enter the whole command shown below and press enter:

make

```
verium@verium:~/veriumMiner$ make
make all-recursive
make[1]: Entering directory '/home/verium/veriumMiner'
Making all in compat
make[2]: Entering directory '/home/verium/veriumMiner/compat'
make[3]: Entering directory '/home/verium/veriumMiner/compat'
make[3]: Nothing to be done for 'all-am'.
make[3]: Leaving directory '/home/verium/veriumMiner/compat'
make[2]: Leaving directory '/home/verium/veriumMiner/compat'
make[2]: Entering directory '/home/verium/veriumMiner'
make[2]: Leaving directory '/home/verium/veriumMiner'
make[1]: Leaving directory '/home/verium/veriumMiner'
verium@verium:~/veriumMiner$ █
```

Assuming no horrible errors have appeared you will now have downloaded and compiled verium cpu miner. This completes the setup