
Installation Guide

Cgminer & Cpuminer

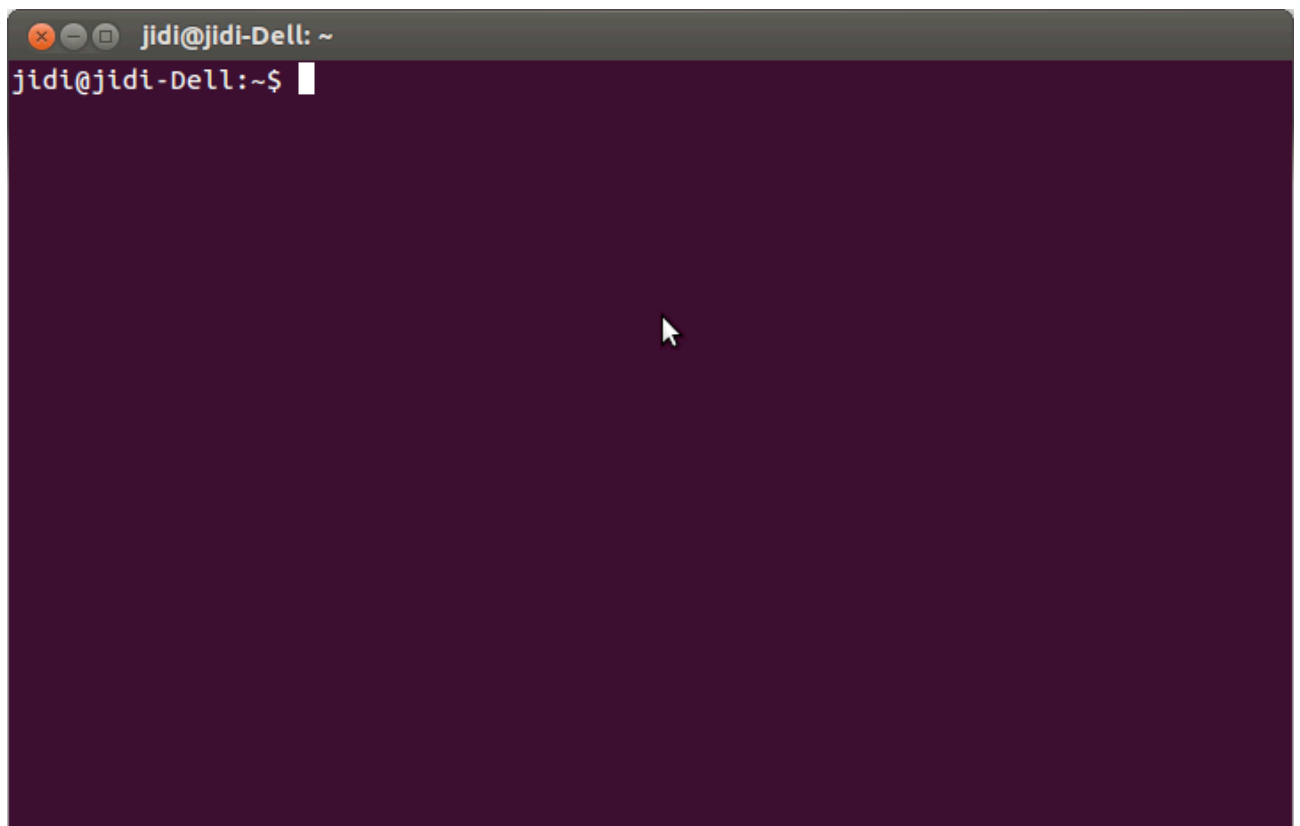
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Author	Gridseed

Installation Guide of Cgminer & Cpuminer

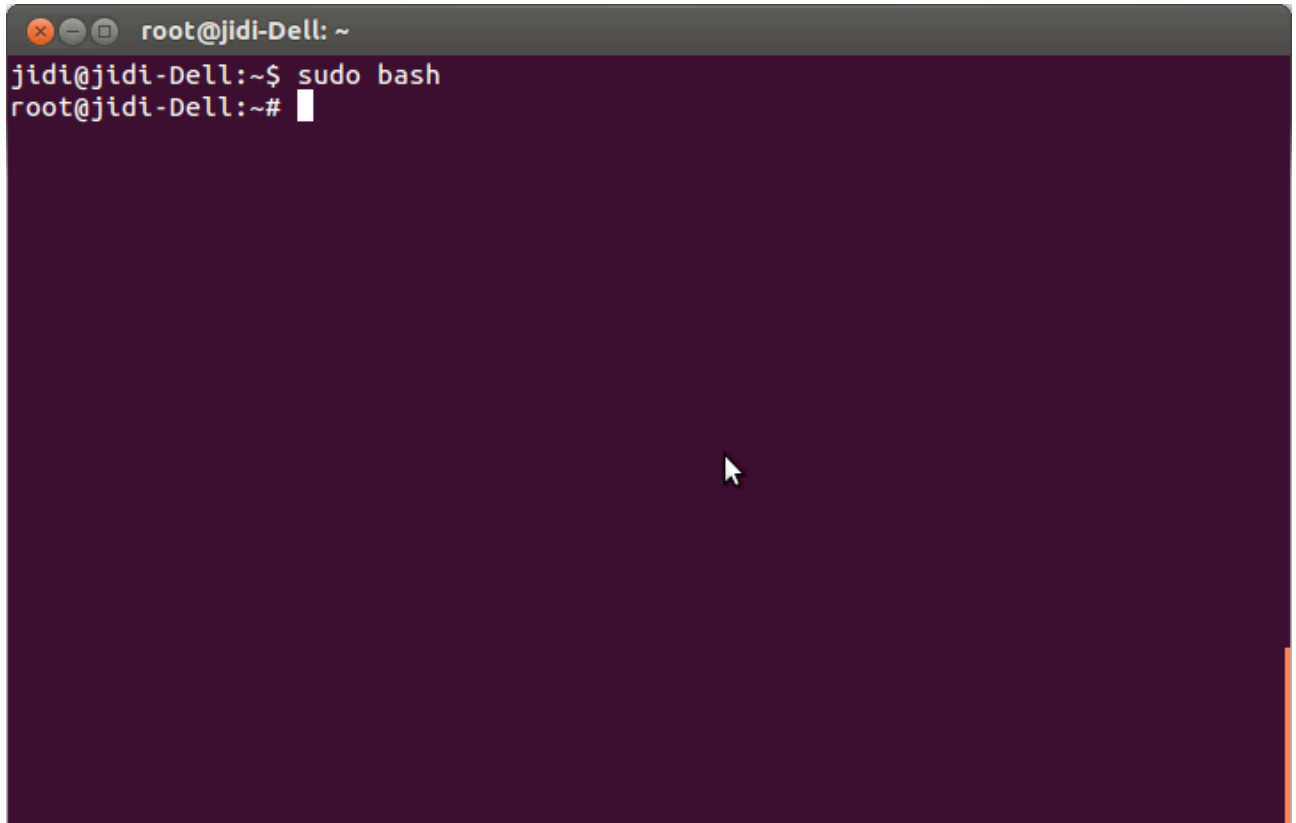
The installation guide is for [Ubuntu](#) 12.04 , for installation of [Ubuntu](#) operation system, please see <http://www.ubuntu.org.cn/download/desktop/zh-CN>

1) Prepare to install cgminer and cpuminer

1. Open terminal(Shotrt cut: ctrl+alt+t)



2.Switch to Root(sudo bash) , enter username and password at first time log in :

A terminal window with a dark purple background. The title bar shows window control buttons and the text 'root@jidi-Dell: ~'. The terminal content shows the user 'jidi' at 'jidi-Dell' with a tilde prompt, typing 'sudo bash', and then becoming 'root' with a hash prompt. A mouse cursor is visible in the center of the terminal area.

```
root@jidi-Dell: ~
jidi@jidi-Dell:~$ sudo bash
root@jidi-Dell:~#
```

3.Create directory /opt , Create cgminer,cpuminer directory under /opt ;

```
mkdir -p /opt/cgminer
mkdir -p /opt.cpuminer
```

Get in opt directory , check if it is created :

```
cd /opt
ls /opt
```

```
root@jidi-Dell: /opt
root@jidi-Dell: /opt
root@jidi-Dell:/opt# ls
cgminer                                cpuminer                                google
cgminer-3.8.5-usb.20140212.tar.bz2    cpuminer-usb-dual.20140115.tgz          README
root@jidi-Dell:/opt#
```

4.Download cgminer-3.8.5-usb.20140212.tar.bz2、cpuminer-usb-dual.20140115.tgz to /opt ;

5.Download cgminer & cpuminer installation package curl,jansson ;

```
cd /opt
```

```
wget http://curl.haxx.se/download/curl-7.34.0.tar.bz2
```

```
wget http://www.digip.org/jansson/releases/jansson-2.5.tar.bz2
```

```
root@jidi-Dell: /opt
正在连接 curl.haxx.se (curl.haxx.se)|80.67.6.50|:80... 已连接。
已发出 HTTP 请求, 正在等待回应... 200 OK
长度: 2770438 (2.6M) [application/x-bzip2]
正在保存至: "curl-7.34.0.tar.bz2"

100%[=====>] 2,770,438    622K/s   用时 4.4s
2014-02-27 15:19:26 (622 KB/s) - 已保存 "curl-7.34.0.tar.bz2" [2770438/2770438])

root@jidi-Dell:/opt# wget http://www.digip.org/jansson/releases/jansson-2.5.tar.
bz2
--2014-02-27 15:19:38-- http://www.digip.org/jansson/releases/jansson-2.5.tar.b
z2
正在解析主机 www.digip.org (www.digip.org)... 217.30.184.170
正在连接 www.digip.org (www.digip.org)|217.30.184.170|:80... 已连接。
已发出 HTTP 请求, 正在等待回应... 200 OK
长度: 312937 (306K) [application/x-bzip2]
正在保存至: "jansson-2.5.tar.bz2"

100%[=====>] 312,937    70.7K/s   用时 4.3s
2014-02-27 15:19:58 (70.7 KB/s) - 已保存 "jansson-2.5.tar.bz2" [312937/312937])

root@jidi-Dell:/opt#
```

As above, 100% downloaded, then install curl software, as following:

```
tar vxf curl-7.34.0.tar.bz2
```

```
cd curl-7.34.0/
```

```
./configure
```

```
make
```

```
make install
```

```

root@jidi-Dell: /opt/curl-7.34.0
l_multi_add_handle.3 curl_multi_cleanup.3 curl_multi_fdset.3 curl_multi_info_rea
d.3 curl_multi_init.3 curl_multi_perform.3 curl_multi_remove_handle.3 curl_share
_cleanup.3 curl_share_init.3 curl_share_setopt.3 libcurl.3 libcurl-easy.3 libcur
l-multi.3 libcurl-share.3 libcurl-errors.3 curl_easy_strerror.3 curl_multi_strerror.3 curl_share_strerror.3 curl_global_init_mem.3 '/usr/local/share/man/man3'
/usr/bin/install -c -m 644 libcurl-tutorial.3 curl_easy_reset.3 curl_easy_escap
e.3 curl_easy_unescape.3 curl_multi_setopt.3 curl_multi_socket.3 curl_multi_time
out.3 curl_formget.3 curl_multi_assign.3 curl_easy_pause.3 curl_easy_recv.3 curl
_easy_send.3 curl_multi_socket_action.3 curl_multi_wait.3 '/usr/local/share/man/
man3'
make[6]:正在离开目录 `/opt/curl-7.34.0/docs/libcurl'
make[5]:正在离开目录 `/opt/curl-7.34.0/docs/libcurl'
make[5]:正在进入目录 `/opt/curl-7.34.0/docs'
make[6]:正在进入目录 `/opt/curl-7.34.0/docs'
make[6]:没有什么可以做的为 `install-exec-am'。
/bin/mkdir -p '/usr/local/share/man/man1'
/usr/bin/install -c -m 644 curl.1 curl-config.1 '/usr/local/share/man/man1'
make[6]:正在离开目录 `/opt/curl-7.34.0/docs'
make[5]:正在离开目录 `/opt/curl-7.34.0/docs'
make[4]:正在离开目录 `/opt/curl-7.34.0/docs'
make[3]:正在离开目录 `/opt/curl-7.34.0'
make[2]:正在离开目录 `/opt/curl-7.34.0'
make[1]:正在离开目录 `/opt/curl-7.34.0'
root@jidi-Dell:/opt/curl-7.34.0#

```

If no errors after the above installation, then curl is successfully installed. Then install jansson, as following:

```

cd /opt
tar vxvf jansson-2.5.tar.bz2
cd jansson-2.5/

./configure
make
make install

```

```
root@jidi-Dell: /opt/jansson-2.5
make[4]: 正在离开目录 `/opt/jansson-2.5/test/suites/api'
make[3]: 正在离开目录 `/opt/jansson-2.5/test/suites/api'
make[3]: 正在进入目录 `/opt/jansson-2.5/test/suites'
make[4]: 正在进入目录 `/opt/jansson-2.5/test/suites'
make[4]: 没有什么可以做的为 `install-exec-am'。
make[4]: 没有什么可以做的为 `install-data-am'。
make[4]: 正在离开目录 `/opt/jansson-2.5/test/suites'
make[3]: 正在离开目录 `/opt/jansson-2.5/test/suites'
make[2]: 正在离开目录 `/opt/jansson-2.5/test/suites'
make[2]: 正在进入目录 `/opt/jansson-2.5/test'
make[3]: 正在进入目录 `/opt/jansson-2.5/test'
make[3]: 没有什么可以做的为 `install-exec-am'。
make[3]: 没有什么可以做的为 `install-data-am'。
make[3]: 正在离开目录 `/opt/jansson-2.5/test'
make[2]: 正在离开目录 `/opt/jansson-2.5/test'
make[1]: 正在离开目录 `/opt/jansson-2.5/test'
make[1]: 正在进入目录 `/opt/jansson-2.5'
make[2]: 正在进入目录 `/opt/jansson-2.5'
make[2]: 没有什么可以做的为 `install-exec-am'。
/bin/mkdir -p '/usr/local/lib/pkgconfig'
/usr/bin/install -c -m 644 jansson.pc '/usr/local/lib/pkgconfig'
make[2]: 正在离开目录 `/opt/jansson-2.5'
make[1]: 正在离开目录 `/opt/jansson-2.5'
root@jidi-Dell: /opt/jansson-2.5#
```

After above command made, if no erros, then the software is successfully installed.

Attention : Jansson does not automatically link so filed under /usr/bin directory, which will create errors when compiling. The following should be done:

```
ln -s /usr/local/lib/libjansson.* /usr/lib/
```

```
root@jidi-Dell: /opt/jansson-2.5
make[4]: 正在离开目录 `/opt/jansson-2.5/test/suites/api'
make[3]: 正在离开目录 `/opt/jansson-2.5/test/suites/api'
make[3]: 正在进入目录 `/opt/jansson-2.5/test/suites'
make[4]: 正在进入目录 `/opt/jansson-2.5/test/suites'
make[4]: 没有什么可以做的为 `install-exec-am'。
make[4]: 没有什么可以做的为 `install-data-am'。
make[4]: 正在离开目录 `/opt/jansson-2.5/test/suites'
make[3]: 正在离开目录 `/opt/jansson-2.5/test/suites'
make[2]: 正在离开目录 `/opt/jansson-2.5/test/suites'
make[2]: 正在进入目录 `/opt/jansson-2.5/test'
make[3]: 正在进入目录 `/opt/jansson-2.5/test'
make[3]: 没有什么可以做的为 `install-exec-am'。
make[3]: 没有什么可以做的为 `install-data-am'。
make[3]: 正在离开目录 `/opt/jansson-2.5/test'
make[2]: 正在离开目录 `/opt/jansson-2.5/test'
make[1]: 正在离开目录 `/opt/jansson-2.5/test'
make[1]: 正在进入目录 `/opt/jansson-2.5'
make[2]: 正在进入目录 `/opt/jansson-2.5'
make[2]: 没有什么可以做的为 `install-exec-am'。
/bin/mkdir -p '/usr/local/lib/pkgconfig'
/usr/bin/install -c -m 644 jansson.pc '/usr/local/lib/pkgconfig'
make[2]: 正在离开目录 `/opt/jansson-2.5'
make[1]: 正在离开目录 `/opt/jansson-2.5'
root@jidi-Dell:/opt/jansson-2.5# ln -s /usr/local/lib/libjansson.* /usr/lib/
```

Now, preparation is done. We can start to install cgminer and cpuminer.

1. Installation of cgminer

a.Extract cgminer-3.8.5-usb.20140212.tar.bz2 to /opt/cgminer directory ;

```
tar jvfx cgminer-3.8.5-usb.20140212.tar.bz2 -C ./cgminer/

cd /opt/cgminer

./configure

make
```



```
root@jjidi-Dell: /opt
root@jjidi-Dell:/opt# clear

root@jjidi-Dell:/opt# tar jvfx cgminer-3.8.5-usb.20140212.tar.bz2 -C ./cgminer/
./
./uthash.h
./warn-on-use.h
./cgminer.c
./run.sh
./elist.h
./configure
./aclocal.m4
./ccan/
./ccan/compiler/
./ccan/compiler/compiler.h
./ccan/Makefile.am
./ccan/Makefile.in
./ccan/opt/
./ccan/opt/private.h
./ccan/opt/opt.c
./ccan/opt/opt.h
./ccan/opt/usage.c
./ccan/opt/parse.c
./ccan/opt/helpers.c
./ccan/typesafe_cb/
```

b.Enter /opt/cgminer directory , compile and install cgminer

```
./configure --enable-gridseed
```

```
root@jidi-Dell: /opt/cgminer
BFL.ASICs.....: Disabled
BitForce.FPGAs.....: Disabled
BitFury.ASICs.....: Disabled
GridSeed.ASICs.....: Enabled
ST3210.MCU.....: Disabled
LED.Control.....: Disabled
Hashfast.ASICs.....: Disabled
Icarus.ASICs/FPGAs...: Disabled
Klondike.ASICs.....: Disabled
KnC.ASICs.....: Disabled
ModMiner.FPGAs.....: Disabled

Compilation.....: make (or gmake)
CPPFLAGS.....:
CFLAGS.....: -g -O2
LDFLAGS.....: -lpthread
LDADD.....: -ldl -L/usr/local/lib -lcurl  compat/jansson-2.5/src/.
libs/libjansson.a -lpthread  -lm compat/libusb-1.0/libusb/.libs/libusb-1.0.a -
ludev -lrt

Installation.....: make install (as root if needed, with 'su' or 'sudo')
prefix.....: /usr/local

root@jidi-Dell:/opt/cgminer#
```

If shows above, then successfully compiled, then command: make, start to install cgminer.

```
make
```

```
root@jidi-Dell: /opt/cgminer
al *'
cgminer.c:353:3: 警告: 传递'cgtimer_sub'的第 2 个参数时在不兼容的指针类型间转换
[默认启用]
./util.h:120:6: 附注: 需要类型'struct cgtimer_t *', 但实参的类型为'struct timev
al *'
cgminer.c:353:3: 警告: 传递'cgtimer_sub'的第 3 个参数时在不兼容的指针类型间转换
[默认启用]
./util.h:120:6: 附注: 需要类型'struct cgtimer_t *', 但实参的类型为'struct timev
al *'
cgminer.c:360:10: 警告: 忽略声明有 warn_unused_result 属性的'system'的返回值 [-
Wunused-result]
CC      cgminer-util.o
CC      cgminer-sha2.o
CC      cgminer-api.o
api.c: 在函数'message'中:
api.c:1332:7: 警告: 格式字符串不是一个字面字符串而且没有待格式化的实参 [-Wforma
t-security]
CC      cgminer-logging.o
CC      cgminer-usbutils.o
CC      cgminer-driver-gridseed.o
CCLD    cgminer
make[2]:正在离开目录 `/opt/cgminer'
make[1]:正在离开目录 `/opt/cgminer'
root@jidi-Dell:/opt/cgminer#
```

(If shows above, then successfully installed)

Now, cgminer is installed. Command the following after connect mining device

```
./cgminer
--gridseed-options=baud=115200,freq=750,chips=5,modules=1,usefifo=0,btc=11
--hotplug=0 -o stratum+tcp://stratum.f2pool.com:25 -u bittest111.111 -p 123456
```

```
root@jidi-Dell: /opt/cgminer
config.guess hexdump.c
root@jidi-Dell:/opt/cgminer# ./cgminer --gridseed-options=baud=115200,freq=750,chi
hips=5,modules=1,usefifo=0,btc=11 --hotplug=0 -o stratum+tcp://stratum.f2pool.co
m:25 -u bittest111.1 -p 123456
[2014-02-27 17:07:10] Started cgminer 3.8.5
[2014-02-27 17:07:10] GridSeed options: 'baud=115200,freq=750,hips=5,modules=1
,usefifo=0,btc=11'
[2014-02-27 17:07:10] System resetting
[2014-02-27 17:07:11] Device found, firmware version 0x13011401, driver version
v3.8.5.20140210.02.am3352
[2014-02-27 17:07:11] Create LTC proxy on 3350/UDP for 2:6(0)

[2014-02-27 17:07:11] GridSeed: send thread running, GridSeed_Send/0

[2014-02-27 17:07:11] GridSeed device opened on 2:6
[2014-02-27 17:07:11] Probing for an alive pool
[2014-02-27 17:07:11] GridSeed: rcv thread running, GridSeed_Recv/0

[2014-02-27 17:07:11] Pool 0 difficulty changed to 256
[2014-02-27 17:07:11] Network diff set to 3.13G
[2014-02-27 17:07:32] Accepted d7292b66 Diff 305/256 GSD 0
[2014-02-27 17:08:16] Stratum from pool 0 detected new block

[2014-02-27 17:08:35] Accepted 2c3d8161 Diff 1.48K/256 GSD 0

[2014-02-27 17:09:29] Pool 0 difficulty changed to 192
[2014-02-27 17:10:45] Accepted 010e6def Diff 242/192 GSD 0
```

CG3355 x UBUNTU 配置 cgm x 【转贴】高级比特 x 用cgminer挖矿CPU x Ubuntu: 用cgminer x 收到 2封新邮件 x 矿工管理 - F2Pool x PTSPool - 比特挖矿

www.f2pool.com/user/worker

工作 无线 翻墙 学习 ldap squid cisco dhcp服务器安装 CA认证 iptables kindle 虚拟化 windows封装 电影 英语 其他书签

F2Pool BETA 我的首页 矿工管理 付款记录 帮助 转至 PTS 矿池 bittest111

矿工管理

全部 BTC LTC

矿工	币种	20分钟平均速度	接受数	拒绝数	拒绝率	最近提交时间	
bittest111.1	BTC	4581.4 Mhash/s	6	0	0.0%	2014-02-27 17:15	
bittest111.111	BTC	1832.5 Mhash/s	2	0	0.0%	2014-02-27 17:19	
bittest111.bt1	BTC	32985.9 Mhash/s	7275	8	0.1%	2014-02-27 17:19	
bittest111.k1	LTC	573.2 Khash/s	10147	6	0.1%	2014-02-27 17:20	
bittest111.k2	LTC	258.7 Khash/s	9771	2	0.0%	2014-02-27 17:20	
bittest111.k3	LTC	188.7 Khash/s	5026	5	0.1%	2014-02-27 17:20	
bittest111.k4	LTC	244.7 Khash/s	4608	5	0.1%	2014-02-27 17:20	
bittest111.k5	LTC	251.7 Khash/s	5116	4	0.1%	2014-02-27 17:20	

请选择...

使用采矿软件连接至 stratum+tcp://stratum.f2pool.com BTC 端口 3333 LTC 端口 8888 以“bittest111”或“bittest111.矿工名”并任意密码开始采矿即可自动创建矿工。矿工名须由数字或小写字母组成，最长15个字符。除非您连接了8888端口，否则新建的矿工默认为BTC矿工。如果您需要其它币种，请注意在本页更改。如果您收到大量“H-not-zero”或“high-hash”的错误信息，请检查币种是否匹配。如果您无法连接至3333或8888端口，也可以尝试25端口。

(As shows above, mining device is start working.

Reference:

Freq——Frequency of the device

Chips——Numbers of chips

Btc—— control the calculation power of btc, when 0, only ltc mining

Hotplug——scan usb device, when 0, no scanning

-u—— to appoint miner

-p—— to make password

2. Installation cpuminer (similar to cgminer)

a.Extract cpuminer-usb-dual.20140115.tgz;

```
cd /opt/
```

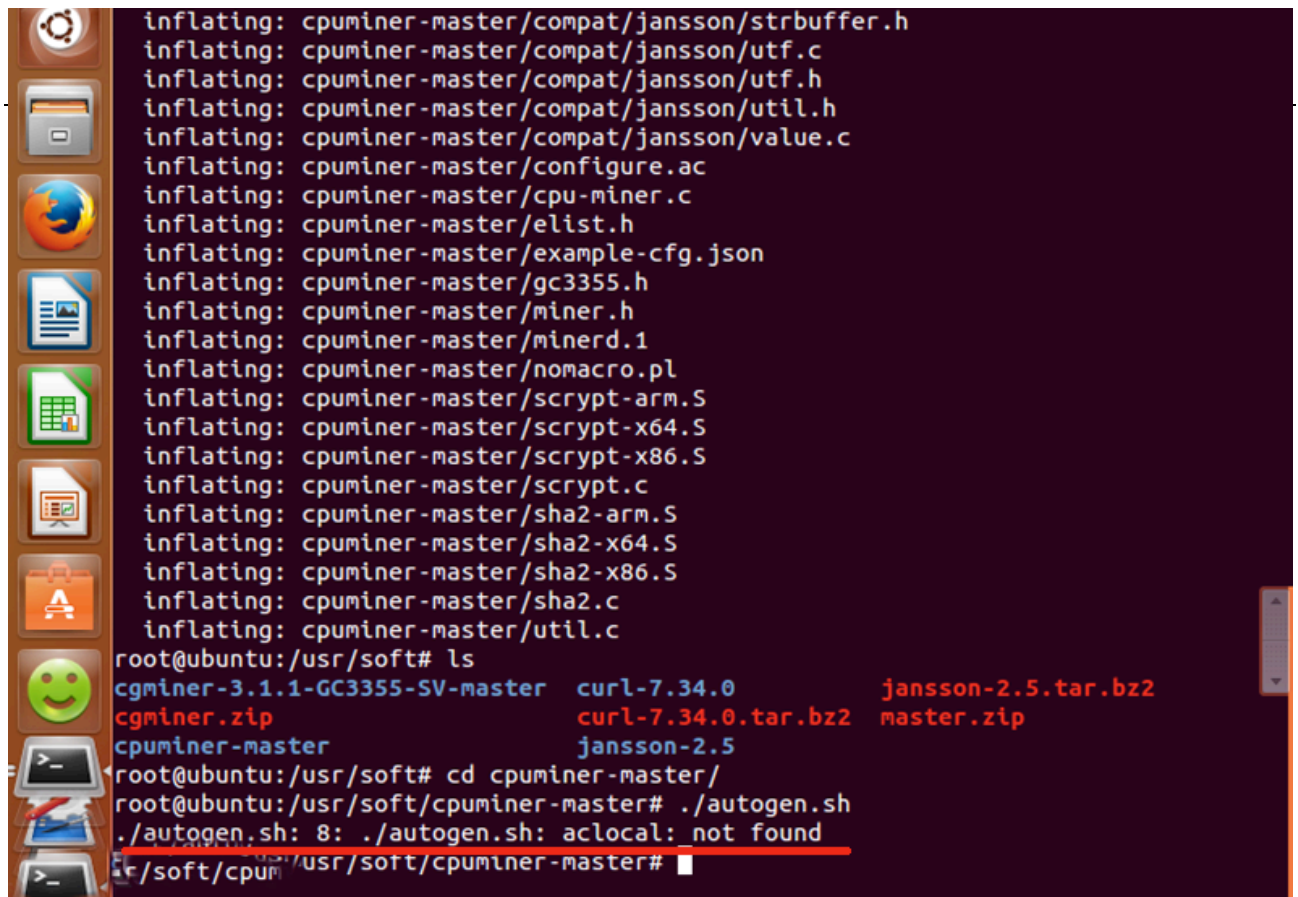
```
tar vxf cpuminer-usb-dual.20140115.tgz -C /opt/cpuminer
```

```
ls /opt/cpuminer
```

```
root@jidi-Dell: /opt/cpuminer
root@jidi-Dell:/opt/cpuminer# ls /opt/cpuminer
aclocal.m4      config.sub      example-cfg.json  miner.h         scrypt-x64.S
AUTHORS         configure       gc3355.h          missing         scrypt-x86.S
autogen.sh      configure.ac    INSTALL          NEWS           sha2-arm.S
ChangeLog       COPYING        install-sh       nomacro.pl     sha2.c
compat          cpu-miner.c    LICENSE          README         sha2-x64.S
compat.h        cpuminer-config.h.in  Makefile.am      run.sh         sha2-x86.S
compile         depcomp        Makefile.in      scrypt-arm.S  util.c
config.guess    elist.h        minerd.1         scrypt.c

root@jidi-Dell:/opt/cpuminer#
```

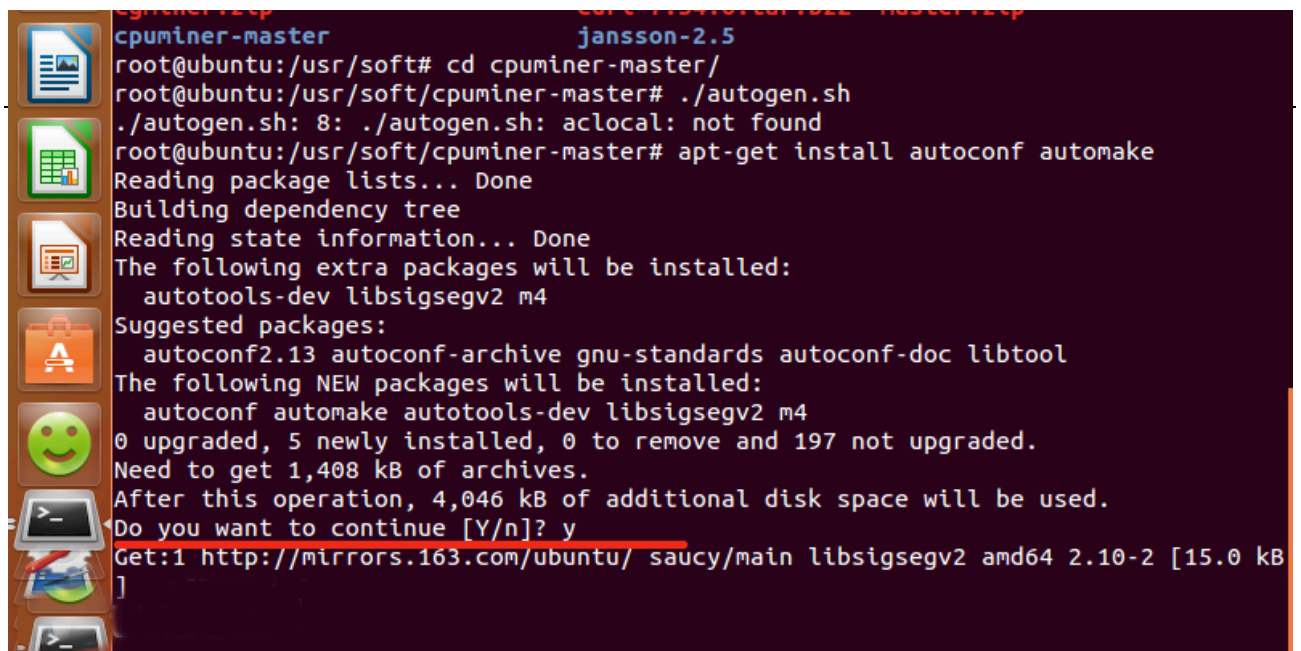
(Extracted)



```
inflating: cpuminer-master/compat/jansson/strbuffer.h
inflating: cpuminer-master/compat/jansson/utf.c
inflating: cpuminer-master/compat/jansson/utf.h
inflating: cpuminer-master/compat/jansson/util.h
inflating: cpuminer-master/compat/jansson/value.c
inflating: cpuminer-master/configure.ac
inflating: cpuminer-master/cpu-miner.c
inflating: cpuminer-master/elist.h
inflating: cpuminer-master/example-cfg.json
inflating: cpuminer-master/gc3355.h
inflating: cpuminer-master/miner.h
inflating: cpuminer-master/minerd.1
inflating: cpuminer-master/nomacro.pl
inflating: cpuminer-master/scrypt-arm.S
inflating: cpuminer-master/scrypt-x64.S
inflating: cpuminer-master/scrypt-x86.S
inflating: cpuminer-master/scrypt.c
inflating: cpuminer-master/sha2-arm.S
inflating: cpuminer-master/sha2-x64.S
inflating: cpuminer-master/sha2-x86.S
inflating: cpuminer-master/sha2.c
inflating: cpuminer-master/util.c
root@ubuntu:/usr/soft# ls
cgminer-3.1.1-GC3355-SV-master  curl-7.34.0      jansson-2.5.tar.bz2
cgminer.zip                    curl-7.34.0.tar.bz2  master.zip
cpuminer-master                jansson-2.5
root@ubuntu:/usr/soft# cd cpuminer-master/
root@ubuntu:/usr/soft/cpuminer-master# ./autogen.sh
./autogen.sh: 8: ./autogen.sh: aclocal: not found
root@ubuntu:/usr/soft/cpuminer-master#
```

If there are errors above, we need to install autoconf and automake installation package , as following :

```
apt-get install autoconf automake
```

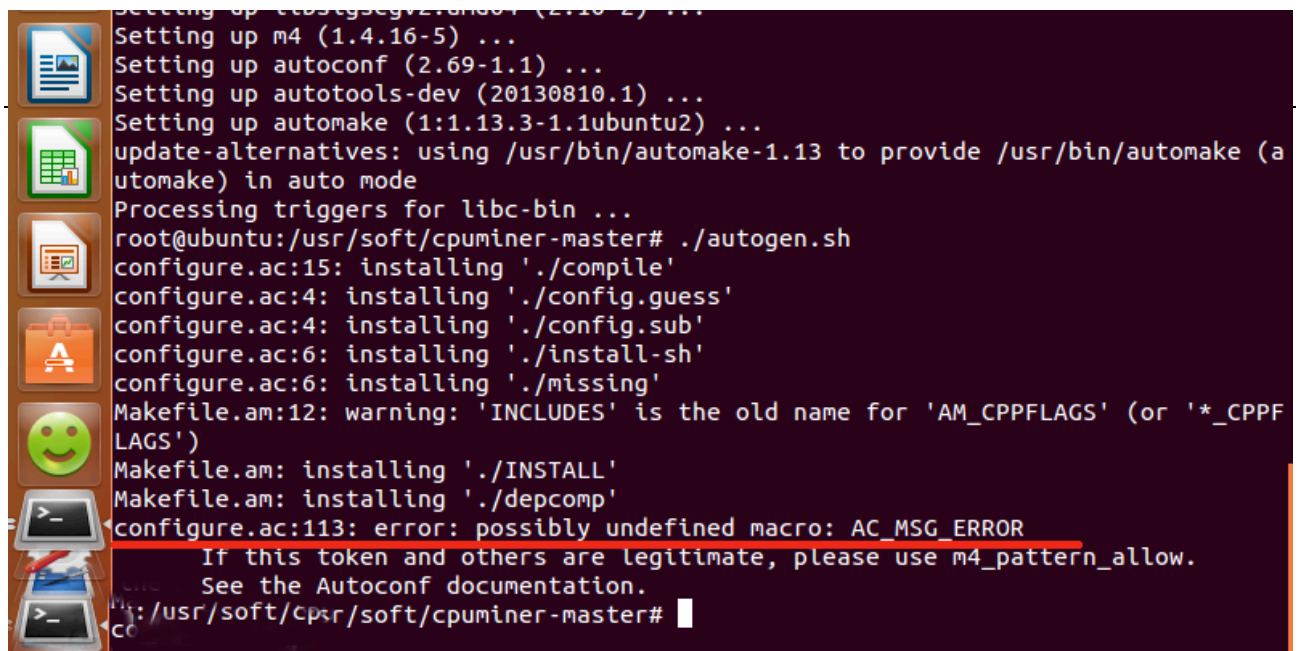


```
cpuminer-master jansson-2.5
root@ubuntu:/usr/soft# cd cpuminer-master/
root@ubuntu:/usr/soft/cpuminer-master# ./autogen.sh
./autogen.sh: 8: ./autogen.sh: aclocal: not found
root@ubuntu:/usr/soft/cpuminer-master# apt-get install autoconf automake
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  autotools-dev libsigsegv2 m4
Suggested packages:
  autoconf2.13 autoconf-archive gnu-standards autoconf-doc libtool
The following NEW packages will be installed:
  autoconf automake autotools-dev libsigsegv2 m4
0 upgraded, 5 newly installed, 0 to remove and 197 not upgraded.
Need to get 1,408 kB of archives.
After this operation, 4,046 kB of additional disk space will be used.
Do you want to continue [Y/n]? y
Get:1 http://mirrors.163.com/ubuntu/ saucy/main libsigsegv2 amd64 2.10-2 [15.0 kB]
```

enter" y" to continue installation , when finished , run autogen.sh again;

```
./autogen.sh
```

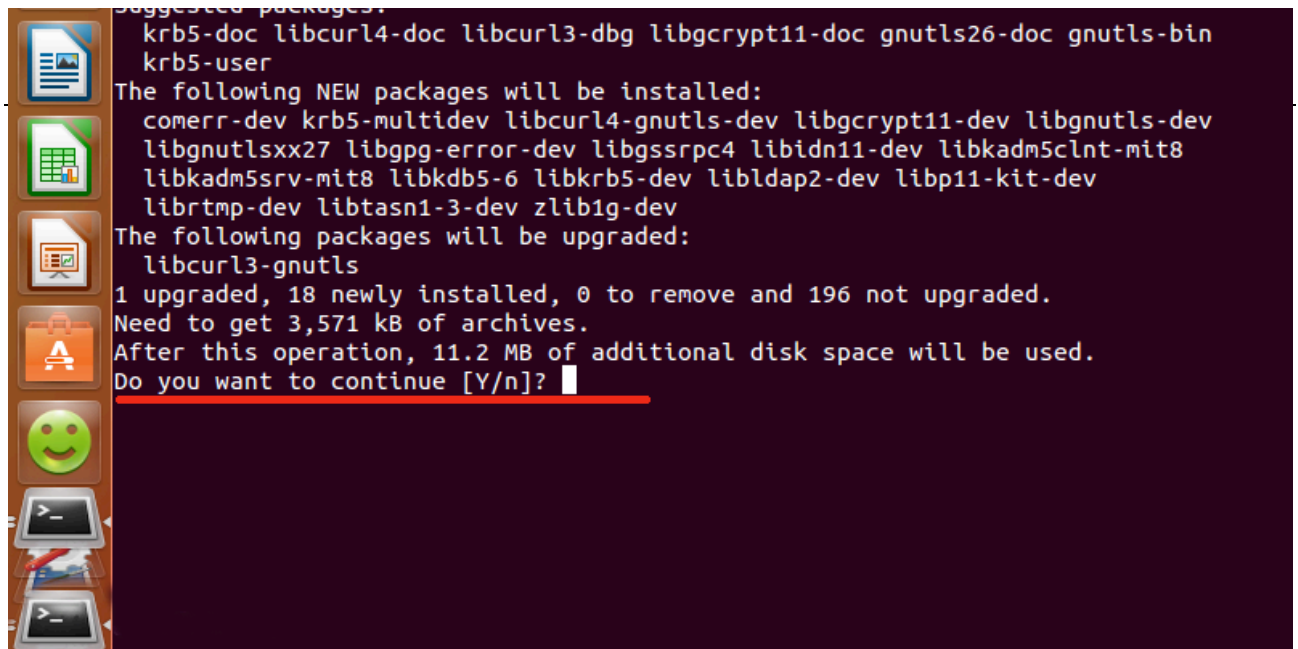
Errors again as following :



```
Setting up libstdc++6 (4.8.4-2ubuntu1) ...  
Setting up m4 (1.4.16-5) ...  
Setting up autoconf (2.69-1.1) ...  
Setting up autotools-dev (20130810.1) ...  
Setting up automake (1:1.13.3-1.1ubuntu2) ...  
update-alternatives: using /usr/bin/automake-1.13 to provide /usr/bin/automake (a  
utomake) in auto mode  
Processing triggers for libc-bin ...  
root@ubuntu:/usr/soft/cpuminer-master# ./autogen.sh  
configure.ac:15: installing './compile'  
configure.ac:4: installing './config.guess'  
configure.ac:4: installing './config.sub'  
configure.ac:6: installing './install-sh'  
configure.ac:6: installing './missing'  
Makefile.am:12: warning: 'INCLUDES' is the old name for 'AM_CPPFLAGS' (or '*_CPPF  
LAGS')  
Makefile.am: installing './INSTALL'  
Makefile.am: installing './depcomp'  
configure.ac:113: error: possibly undefined macro: AC_MSG_ERROR  
If this token and others are legitimate, please use m4_pattern_allow.  
See the Autoconf documentation.  
root@ubuntu:/usr/soft/cpuminer-master#
```

If see errors above, then need to install libcurl4-gnutls-dev;

```
apt-get install libcurl4-gnutls-dev
```

A terminal window with a dark purple background and a vertical sidebar on the left containing various application icons. The terminal text shows the installation of several packages. It lists suggested packages, then the new packages to be installed, followed by packages to be upgraded. It provides a summary of the operation, including disk space requirements, and asks for confirmation to continue.

```
suggested packages:
krb5-doc libcurl4-doc libcurl3-dbg libgcrypt11-doc gnutls26-doc gnutls-bin
krb5-user
The following NEW packages will be installed:
comerr-dev krb5-multidev libcurl4-gnutls-dev libgcrypt11-dev libgnutls-dev
libgnutlsxx27 libgpg-error-dev libgssrpc4 libidn11-dev libkadm5clnt-mit8
libkadm5srv-mit8 libkdb5-6 libkrb5-dev libldap2-dev libp11-kit-dev
librtmp-dev libtasn1-3-dev zlib1g-dev
The following packages will be upgraded:
libcurl3-gnutls
1 upgraded, 18 newly installed, 0 to remove and 196 not upgraded.
Need to get 3,571 kB of archives.
After this operation, 11.2 MB of additional disk space will be used.
Do you want to continue [Y/n]? 
```

Enter y to continue installation, when finished, run autogen.sh again, approved

Start to compile cpuminer, as following:

```
./configure
```

```
root@jidi-Dell: /opt/cpuminer
checking for syslog.h... yes
checking for sys/sysctl.h... yes
checking whether be32dec is declared... no
checking whether le32dec is declared... no
checking whether be32enc is declared... no
checking whether le32enc is declared... no
checking for size_t... yes
checking for working alloca.h... yes
checking for alloca... yes
checking for getopt_long... yes
checking whether we can compile AVX code... yes
checking whether we can compile XOP code... yes
checking whether we can compile AVX2 code... yes
checking for json_loads in -ljansson... yes
checking for pthread_create in -lpthread... yes
checking for gawk... (cached) mawk
checking for curl-config... /usr/local/bin/curl-config
checking for the version of libcurl... 7.34.0
checking for libcurl >= version 7.15.2... yes
checking whether libcurl is usable... yes
checking for curl_free... yes
configure: creating ./config.status
config.status: creating Makefile
config.status: creating compat/Makefile
config.status: creating compat/jansson/Makefile
config.status: creating cpuminer-config.h
config.status: executing depfiles commands
root@jidi-Dell:/opt/cpuminer#
```

If no errors, then the result is as above:

```
make
```

```

root@jidi-Dell: /opt/cpuminer
minerd-cpu-miner.o `test -f 'cpu-miner.c' || echo './'`cpu-miner.c
mv -f .deps/minerd-cpu-miner.Tpo .deps/minerd-cpu-miner.Po
gcc -std=gnu99 -DHAVE_CONFIG_H -I. -pthread -fno-strict-aliasing -I/usr/local/inc
lude -g -O2 -MT minerd-util.o -MD -MP -MF .deps/minerd-util.Tpo -c -o minerd-uti
l.o `test -f 'util.c' || echo './'`util.c
mv -f .deps/minerd-util.Tpo .deps/minerd-util.Po
gcc -std=gnu99 -DHAVE_CONFIG_H -I. -pthread -fno-strict-aliasing -I/usr/local/inc
lude -g -O2 -MT minerd-sha2.o -MD -MP -MF .deps/minerd-sha2.Tpo -c -o minerd-sha
2.o `test -f 'sha2.c' || echo './'`sha2.c
mv -f .deps/minerd-sha2.Tpo .deps/minerd-sha2.Po
gcc -std=gnu99 -DHAVE_CONFIG_H -I. -pthread -fno-strict-aliasing -I/usr/local/inc
lude -g -O2 -MT minerd-scrypt.o -MD -MP -MF .deps/minerd-scrypt.Tpo -c -o minerd
-scrypt.o `test -f 'scrypt.c' || echo './'`scrypt.c
mv -f .deps/minerd-scrypt.Tpo .deps/minerd-scrypt.Po
gcc -std=gnu99 -DHAVE_CONFIG_H -I. -pthread -fno-strict-aliasing -I/usr/local/inc
lude -g -O2 -MT minerd-sha2-x64.o -MD -MP -MF .deps/minerd-sha2-x64.Tpo -c -o mi
nerd-sha2-x64.o `test -f 'sha2-x64.S' || echo './'`sha2-x64.S
mv -f .deps/minerd-sha2-x64.Tpo .deps/minerd-sha2-x64.Po
gcc -std=gnu99 -DHAVE_CONFIG_H -I. -pthread -fno-strict-aliasing -I/usr/local/inc
lude -g -O2 -MT minerd-scrypt-x64.o -MD -MP -MF .deps/minerd-scrypt-x64.Tpo -c -
o minerd-scrypt-x64.o `test -f 'scrypt-x64.S' || echo './'`scrypt-x64.S
mv -f .deps/minerd-scrypt-x64.Tpo .deps/minerd-scrypt-x64.Po
gcc -std=gnu99 -g -O2 -pthread -o minerd minerd-cpu-miner.o minerd-util.o minerd
-sha2.o minerd-scrypt.o minerd-sha2-x64.o minerd-scrypt-x64.o -L/usr/local/lib -
lcurl -ljansson -lpthread
make[2]: 正在离开目录 `/opt/cpuminer'
make[1]: 正在离开目录 `/opt/cpuminer'
root@jidi-Dell:/opt/cpuminer#

```

If no errors, then the result is as above, installation completed.

Start ltc mining, command as following:

```
cd /opt/cpuminer
```

```
./minerd -o stratum+tcp://stratum.f2pool.com:8888 -u bittest111.333 -p 123456
```

```
-dual
```
