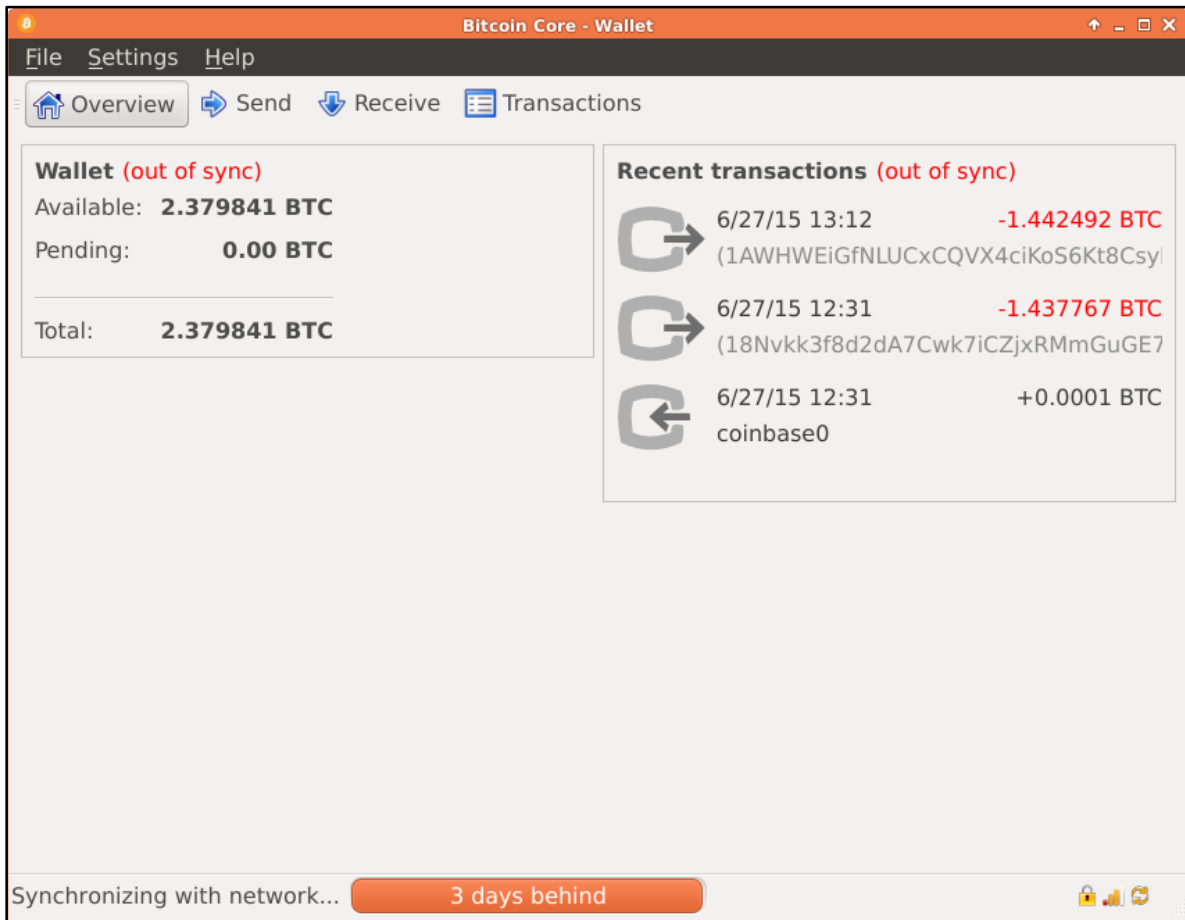


# Chapter 1 Bitcoin Wallets and Mining Software



Bitcoin Core - Wallet

File Settings Help

Overview Send Receive Transactions

Pay To: Enter a Bitcoin address (e.g. 1NS17iag9jJgTHD1VXjvLCEEnZuQ3rJDE9L)

Label: Enter a label for this address to add it to your address book

Amount: BTC

Send Clear All Add Recipient

Balance: 2.379841 BTC

Synchronizing with network... 3 days behind

Bitcoin Core - Wallet

File Settings Help

Overview Send Receive Transactions

Use this form to request payments. All fields are **optional**.

Label:

Amount:  BTC

Message:

Reuse an existing receiving address (not recommended)

### Requested payments history

Date	Label	Message	Amount
------	-------	---------	--------

Synchronizing with network... 3 days behind

Request payment to 18rr7MNNdxJZYCHShyXGY5fVTMMBaG4TPG



**Payment information**

**URI:**

<bitcoin:18rr7MNNdxJZYCHShyXGY5fVTMMBaG4TPG?amount=0.10000000&message=please%20send>

**Address:** 18rr7MNNdxJZYCHShyXGY5fVTMMBaG4TPG

**Amount:** 0.10000000 BTC

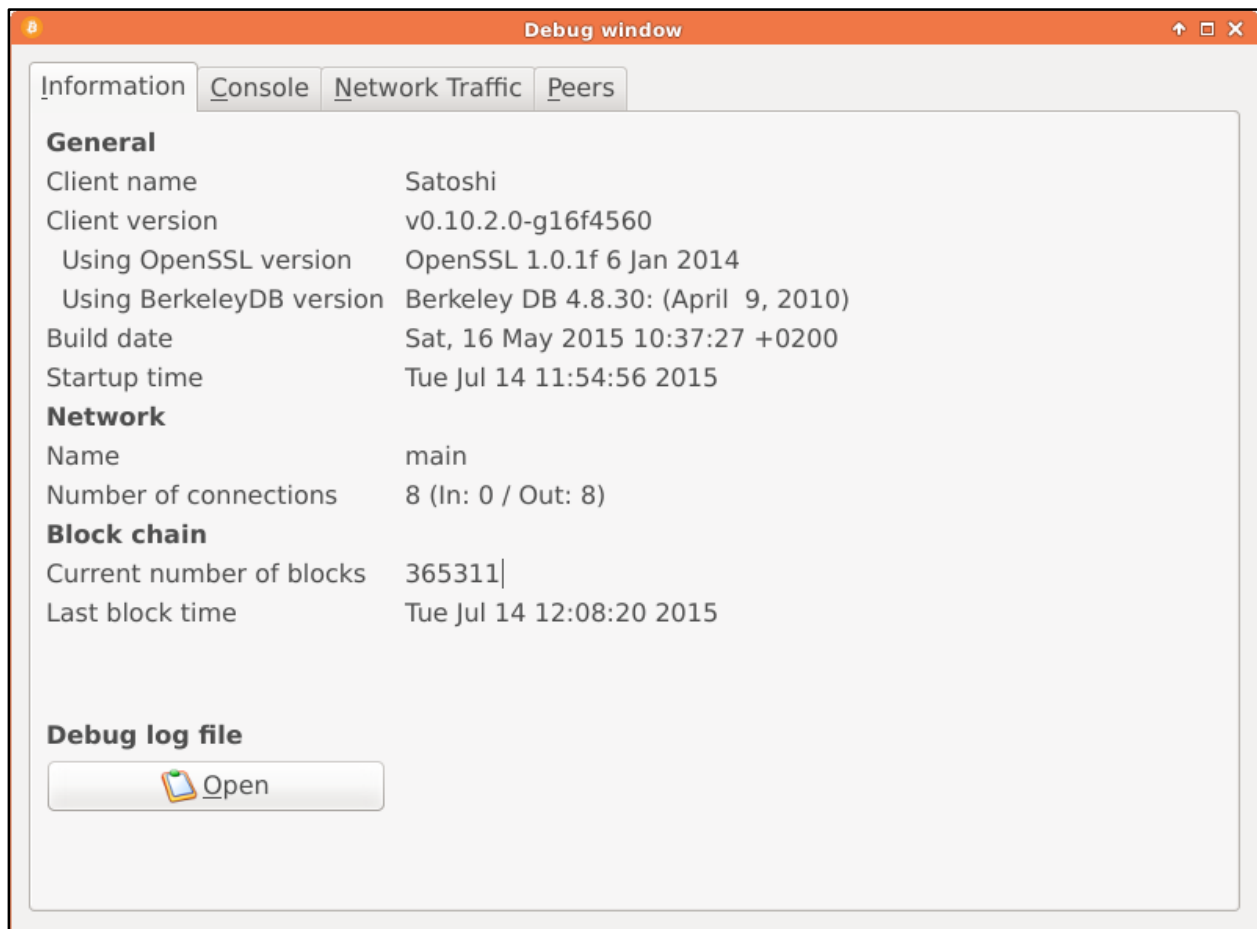
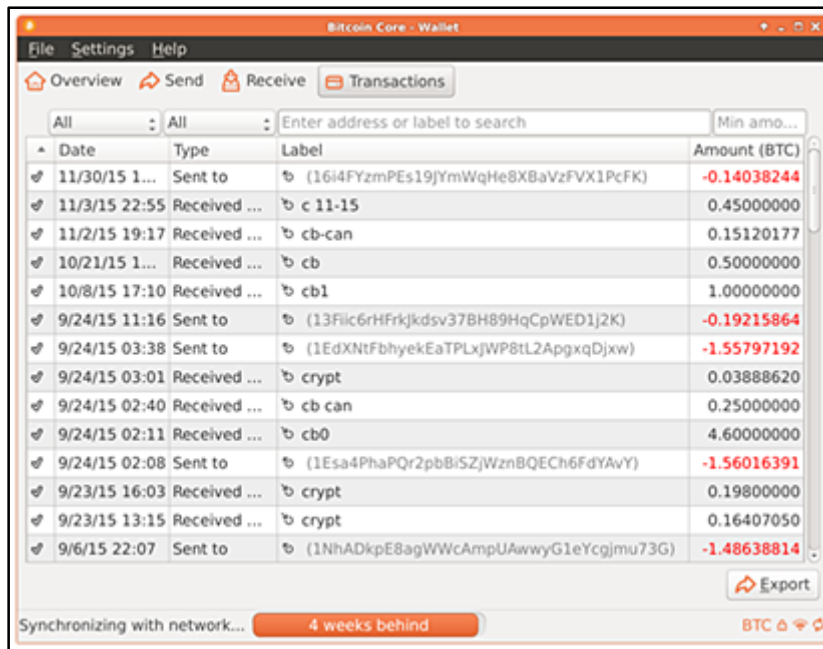
**Message:** please send

Copy URI

Copy Address

Save Image...

Close



```
Debug window
Information Console Network Traffic Peers
type help for an overview of available commands.
11:56:32 ↻ help
11:56:32 ↻ == Blockchain ==
getbestblockhash
getblock "hash" ( verbose )
getblockchaininfo
getblockcount
getblockhash index
getchaintips
getdifficulty
getmempoolinfo
getrawmempool ( verbose )
gettxout "txid" n ( includemempool )
gettxoutproof ["txid",...] ( blockhash )
gettxoutsetinfo
verifychain ( checklevel numblocks )
verifytxoutproof "proof"

== Control ==
getinfo
help ( "command" )
stop

== Generating ==
generate numblocks
getgenerate
setgenerate generate ( genproclimit )

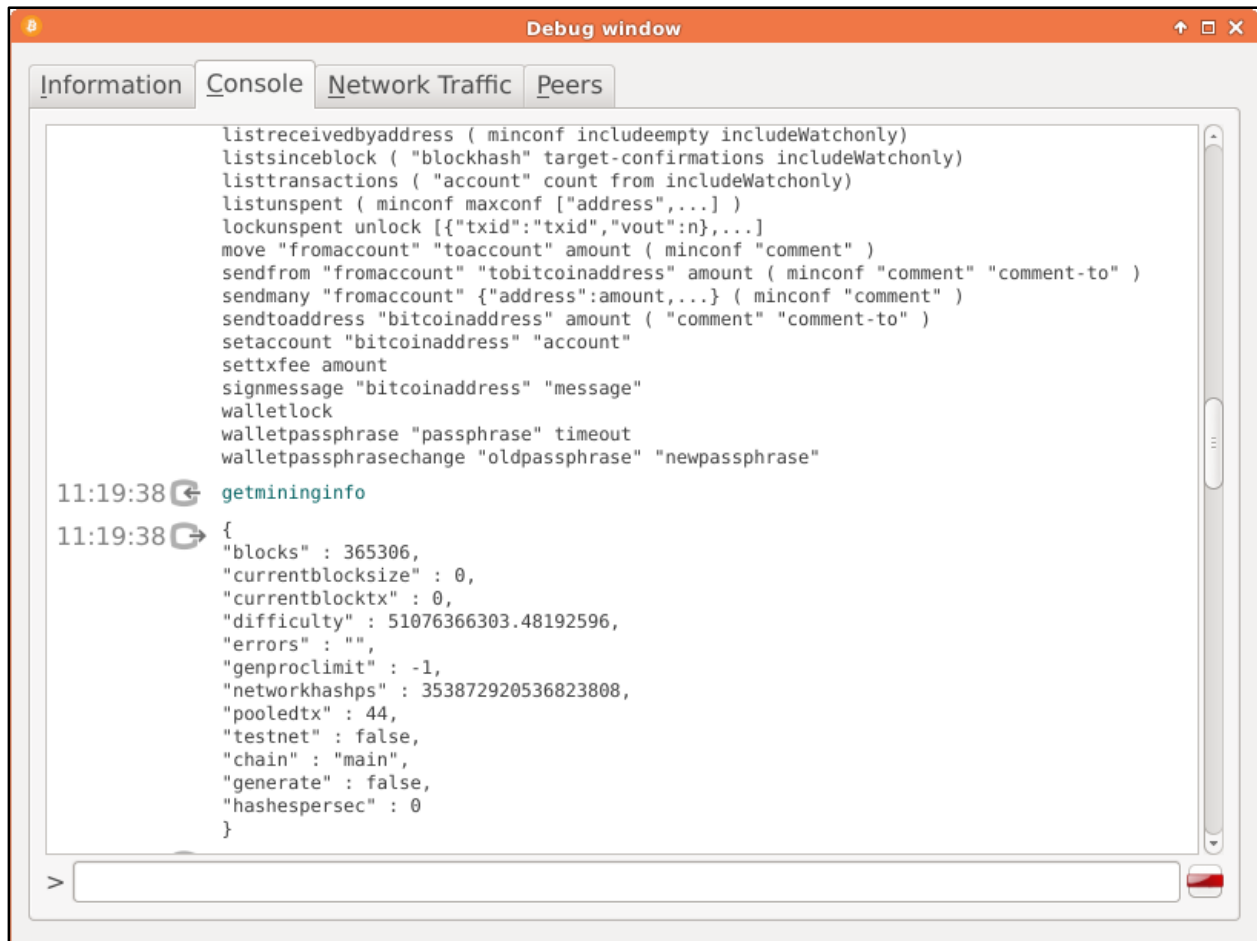
== Mining ==
getblocktemplate ( "jsonrequestobject" )
getmininginfo
getnetworkhashps ( blocks height )
prioritisetransaction <txid> <priority delta> <fee delta>
submitblock "hexdata" ( "jsonparametersobject" )

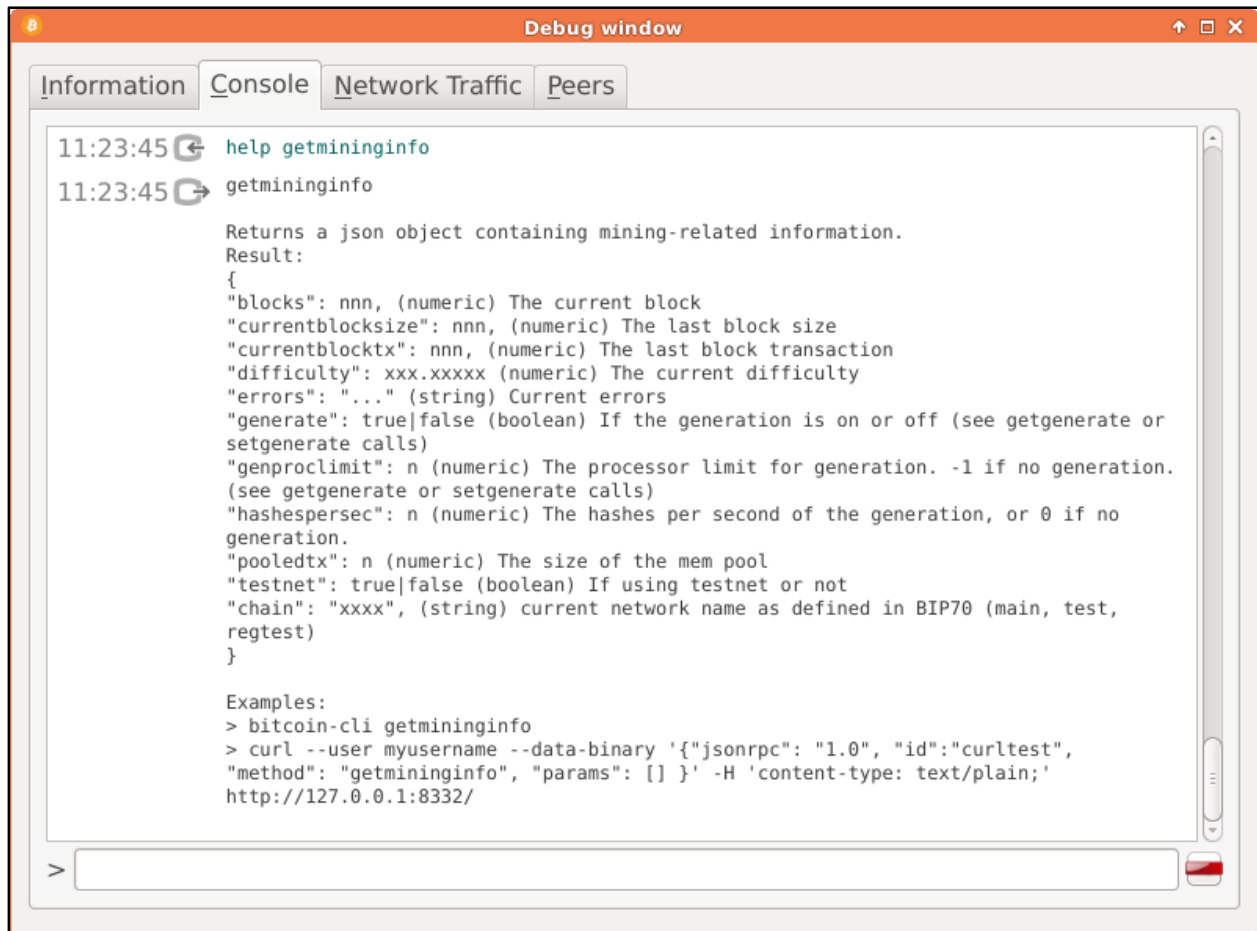
== Network ==
addnode "node" "add|remove|onetry"
getaddednodeinfo dns ( "node" )
getconnectioncount
getnettotals
getnetworkinfo
getpeerinfo
ping
> 
```













Command Prompt - cgminer -c C:\CRYPTO\cgminer-config\cgminer-multi... — □ ×

```
cgminer version 3.7.2 - Started: [2015-07-22 13:23:30]
```

```
-----  
(15s):136.7M (avg):350.4Mh/s | A:0 R:0 HW:0 WU:3.9/m
```

```
ST: 2 SS: 0 NB: 1 LW: 6 GF: 0 RF: 0
```

```
Connected to us-west.multipool.us diff 256 with stratum as user 0xfffff.280x
```

```
Block: 1d4d1f7d... Diff:1.9K Started: [13:23:30] Best share: 2
```

```
-----  
[P]ool management [G]PU management [$]ettings [D]isplay options [Q]uit
```

```
GPU 0: 52.0C 1151RPM | 212.8M/613.2Mh/s | A:0 R:0 HW:0 WU: 7.8/m I:13
```

```
-----  
[2015-07-22 13:23:26] Started cgminer 3.7.2
```

```
[2015-07-22 13:23:26] Loaded configuration file C:\CRYPTO\cgminer-config\cgminer-  
r-multipool-sha256-q6600.conf
```

```
[2015-07-22 13:23:29] Probing for an alive pool
```

```
[2015-07-22 13:23:29] Pool 0 difficulty changed to 16384
```

```
[2015-07-22 13:23:30] Pool 0 difficulty changed to 256
```

```
[2015-07-22 13:23:30] Network diff set to 1.9K
```

```
Command Prompt - cgminer -c C:\CRYPTO\cgminer-config\cgminer-multipo...
cgminer version 3.7.2 - Started: [2015-07-22 13:23:30]
-----
(15s):326.5M (avg):346.2Mh/s | A:0 R:0 HW:0 WU:4.6/m
ST: 2 SS: 0 NB: 1 LW: 27 GF: 0 RF: 0
Connected to us-west.multipool.us diff 256 with stratum as user 0xffff.280x
Block: 1d4d1f7d... Diff:1.9K Started: [13:23:30] Best share: 14
-----
[P]ool management [G]PU management [$]ettings [D]isplay options [Q]uit
GPU 0: 63.0C 1371RPM | 349.1M/401.0Mh/s | A:0 R:0 HW:0 WU: 6.1/m I:13
-----
0: Enabled Alive Quota 1 Prio 0: stratum+tcp://us-west.multipool.us:7777 User:0
xffff.280x

Current pool management strategy: Failover
[F]ailover only enabled
Pool [A]dd [R]emove [D]isable [E]nable [Q]uota change
[C]hange management strategy [S]witch pool [I]nformation
Or press any other key to continue
```

Command Prompt - cgminer -c C:\CRYPTO\cgminer-config\cgminer-multipo... - [X]

cgminer version 3.7.2 - Started: [2015-07-22 13:23:30]

(15s):355.4M (avg):352.5Mh/s | A:0 R:0 HW:0 WU:3.2/m

ST: 2 SS: 0 NB: 1 LW: 51 GF: 0 RF: 0

Connected to us-west.multipool.us diff 256 with stratum as user 0xffff.280x

Block: 1d4d1f7d... Diff:1.9K Started: [13:23:30] Best share: 14

[P]ool management [G]PU management [S]ettings [D]isplay options [Q]uit

GPU 0: 67.0C 1818RPM | 352.9M/352.5Mh/s | A:0 R:0 HW:0 WU: 3.2/m I:13

0: Enabled Alive Quota 1 Prio 0: stratum+tcp://us-west.multipool.us:7777 User:0xffff.280x

Current pool management strategy: Failover

[F]ailover only enabled

Pool [A]dd [R]emove [D]isable [E]nable [Q]uota change

[C]hange management strategy [S]witch pool [I]nformation

Or press any other key to continue

0: Failover

1: Round Robin

2: Rotate

3: Load Balance

4: Balance

Select strategy number type:

-

Command Prompt - cgminer -c C:\CRYPTO\cgminer-config\cgminer-multipo... - [X]

```
cgminer version 3.7.2 - Started: [2015-07-22 13:23:30]
-----
(15s):354.2M (avg):352.8Mh/s | A:0 R:0 HW:0 WU:2.8/m
ST: 2 SS: 0 NB: 1 LW: 69 GF: 0 RF: 0
Connected to us-west.multipool.us diff 256 with stratum as user 0xfffff.280x
Block: 1d4d1f7d... Diff:1.9K Started: [13:23:30] Best share: 14
-----
[P]ool management [G]PU management [$]ettings [D]isplay options [Q]uit
GPU 0: 68.0C 1973RPM | 354.9M/357.5Mh/s | A:0 R:0 HW:0 WU: 3.0/m I:13
-----
GPU 0: 354.3 / 367.8 Mh/s | A:0 R:0 HW:0 U:0.00/m I:13
68.0 C F: 47% (1974 RPM) E: 1000 MHz M: 1400 Mhz U: 1.206U A: 99% P: 0%
Last initialised: [2015-07-22 13:23:30]
Intensity: 13
Thread 0: 173.7 Mh/s Enabled ALIVE
Thread 1: 180.5 Mh/s Enabled ALIVE

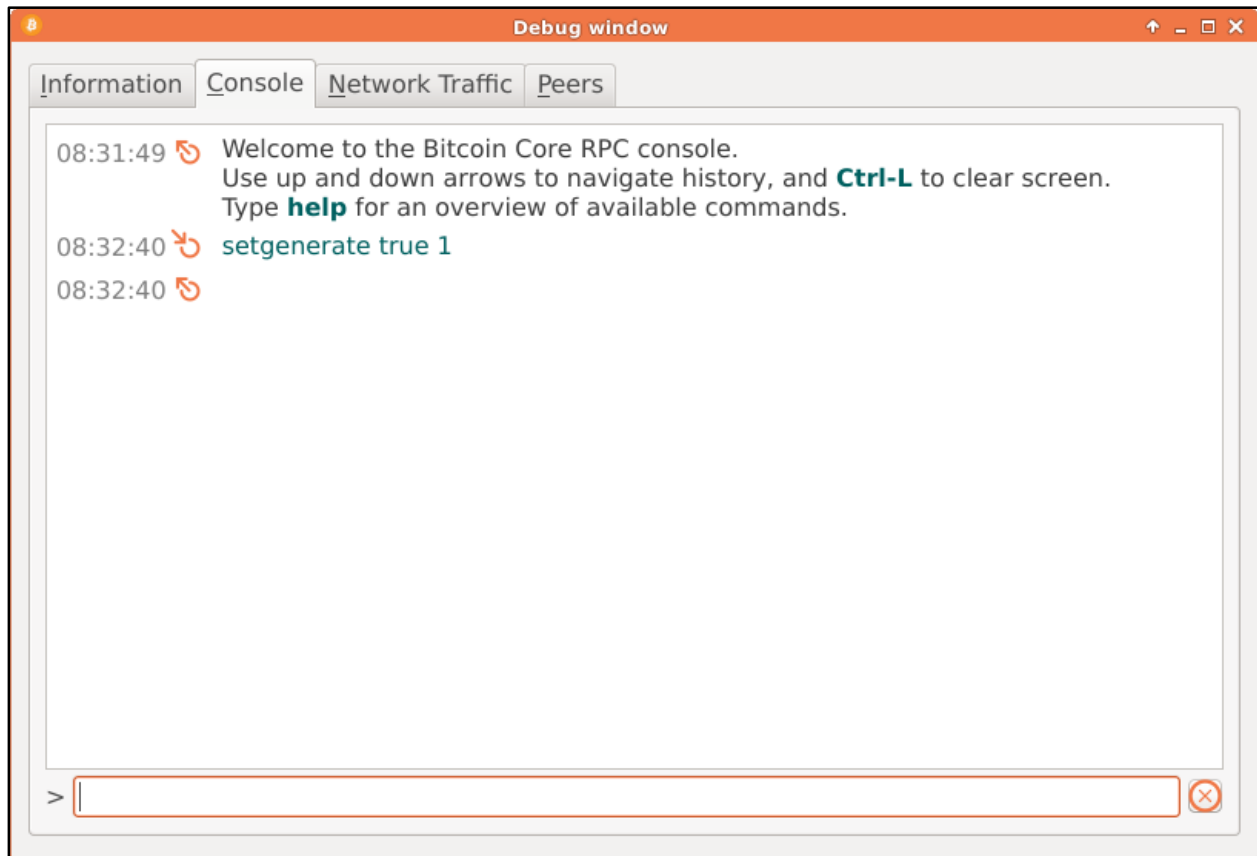
[E]nable [D]isable [I]ntensity [R]estart GPU [C]hange settings
Or press any other key to continue
```

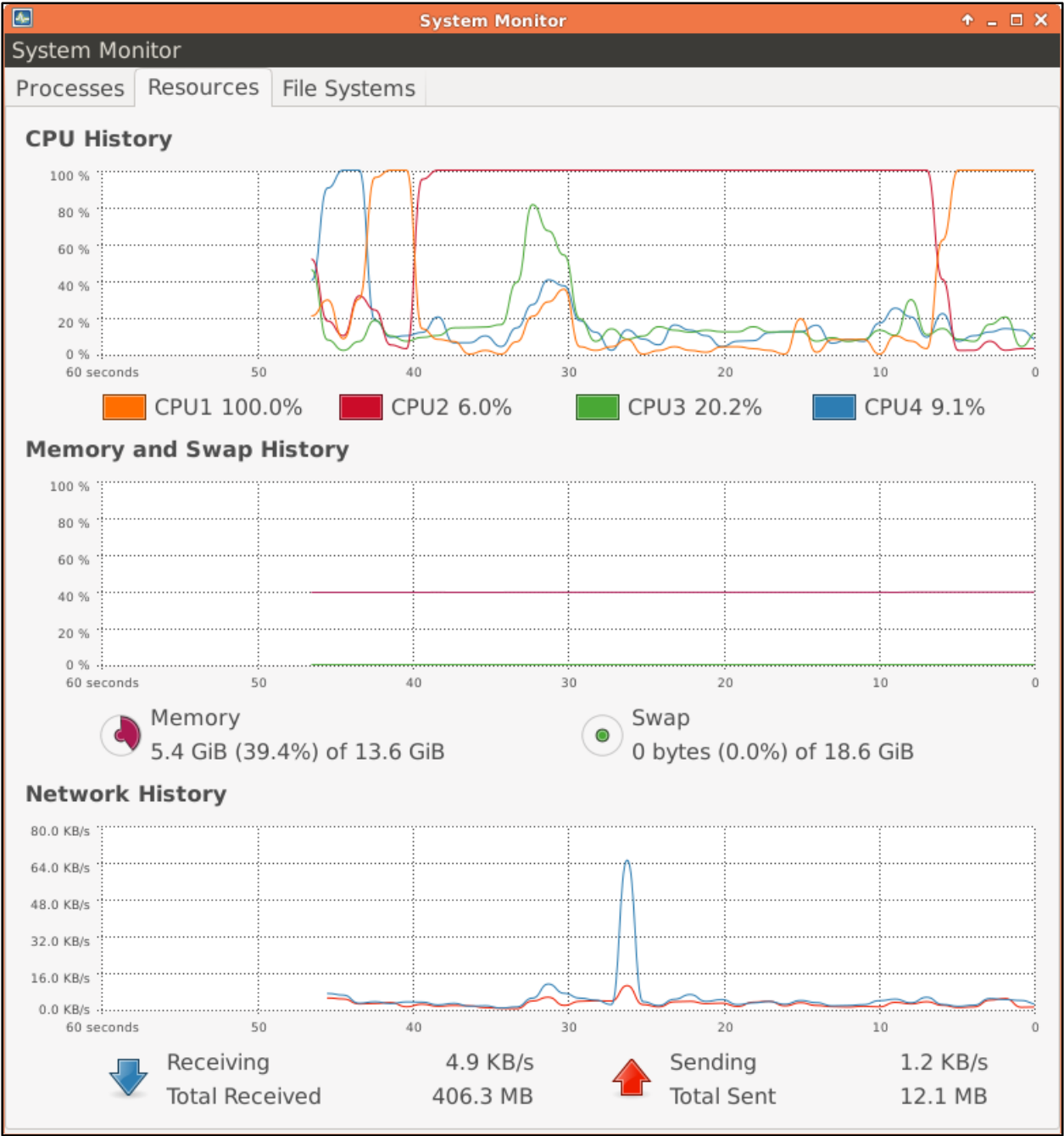
```
Command Prompt - cgminer -c C:\CRYPTO\cgminer-config\cgminer-multipo... - [X]
cgminer version 3.7.2 - Started: [2015-07-22 13:23:30]
-----
(15s):355.2M (avg):351.8Mh/s | A:0 R:0 HW:0 WU:2.8/m
ST: 2 SS: 0 NB: 1 LW: 65 GF: 0 RF: 0
Connected to us-west.multipool.us diff 256 with stratum as user 0xffff.280x
Block: 1d4d1f7d... Diff:1.9K Started: [13:23:30] Best share: 14
-----
[P]ool management [G]PU management [$]ettings [D]isplay options [Q]uit
GPU 0: 67.0C 1974RPM | 356.1M/365.5Mh/s | A:0 R:0 HW:0 WU: 2.8/m I:13
-----
[Q]ueue: 1
[S]cantime: 60
[E]xpiry: 120
[W]rite config file
[C]gminer restart
Select an option or any other key to return
```

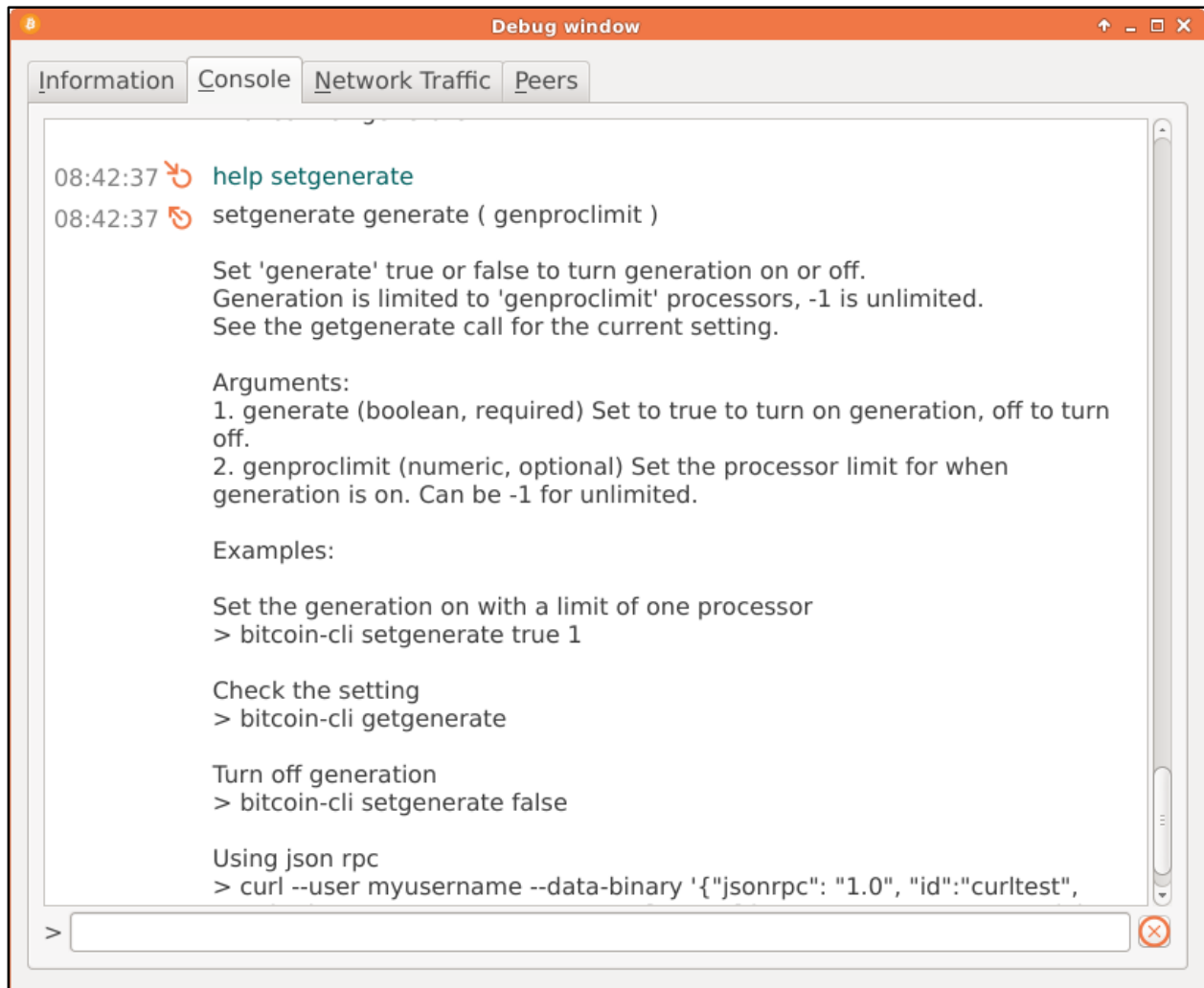


```
Command Prompt - cgminer -c C:\CRYPTO\cgminer-config\cgminer-multipo... - [X]
cgminer version 3.7.2 - Started: [2015-07-22 13:23:30]
-----
(15s):336.2M (avg):350.4Mh/s | A:0 R:0 HW:0 WU:2.9/m
ST: 2 SS: 0 NB: 1 LW: 84 GF: 0 RF: 0
Connected to us-west.multipool.us diff 256 with stratum as user 0xfffff.280x
Block: 1d4d1f7d... Diff:1.9K Started: [13:23:30] Best share: 14
-----
[P]ool management [G]PU management [$]ettings [D]isplay options [Q]uit
GPU 0: 68.0C 1965RPM | 353.4M/364.9Mh/s | A:0 R:0 HW:0 WU: 3.4/m I:13
-----
[N]ormal [C]lear [S]ilent mode (disable all output)
[D]ebug:off
[P]er-device:off
[Q]uiet:off
[U]erbose:off
[R]PC debug:off
[W]orkTime details:off
co[M]pact: off
[L]og interval:15
[Z]ero statistics
Select an option or any other key to return
```

## Chapter 2: CPU Mining







```
Terminal
File Edit View Search Terminal Help
>>cd Programs/CRYPTO/MINING/
>>ls
minerd
>>minerd --help
minerd: command not found
>>./minerd --help
Usage: minerd [OPTIONS]
Options:
  -a, --algo=ALGO          specify the algorithm to use
                           scrypt      scrypt(1024, 1, 1) (default)
                           scrypt:N    scrypt(N, 1, 1)
                           sha256d    SHA-256d
  -o, --url=URL            URL of mining server
  -O, --userpass=U:P       username:password pair for mining server
  -u, --user=USERNAME      username for mining server
  -p, --pass=PASSWORD      password for mining server
  --cert=FILE              certificate for mining server using SSL
  -x, --proxy=[PROTOCOL://]HOST[:PORT] connect through a proxy
  -t, --threads=N          number of miner threads (default: number of processor
  -r, --retries=N          number of times to retry if a network call fails
                           (default: retry indefinitely)
  -R, --retry-pause=N      time to pause between retries, in seconds (default: 3
  -T, --timeout=N          timeout for long polling, in seconds (default: none)
  -s, --scantime=N         upper bound on time spent scanning current work when
                           long polling is unavailable, in seconds (default: 5
  --coinbase-addr=ADDR     payout address for solo mining
  --coinbase-sig=TEXT      data to insert in the coinbase when possible
  --no-longpoll            disable long polling support
  --no-getwork             disable getwork support
  --no-gbt                 disable getblocktemplate support
  --no-stratum             disable X-Stratum support
  --no-redirect            ignore requests to change the URL of the mining serve
  -q, --quiet              disable per-thread hashmeter output
  -D, --debug              enable debug output
  -P, --protocol-dump      verbose dump of protocol-level activities
  -S, --syslog             use system log for output messages
  -B, --background        run the miner in the background
  --benchmark              run in offline benchmark mode
  -c, --config=FILE        load a JSON-format configuration file
  -V, --version            display version information and exit
  -h, --help               display this help text and exit
>>
```

```
Terminal
File Edit View Search Terminal Help
[2015-07-31 14:24:11] Binding thread 1 to cpu 1
[2015-07-31 14:24:11] 4 miner threads started, using 'sha256d' algorithm.
[2015-07-31 14:24:11] Starting Stratum on stratum+tcp://us-west.multipool.us:
9999
[2015-07-31 14:24:11] Binding thread 0 to cpu 0
[2015-07-31 14:24:11] Binding thread 2 to cpu 2
[2015-07-31 14:24:11] Binding thread 3 to cpu 3
[2015-07-31 14:24:12] Stratum requested work restart
[2015-07-31 14:24:13] thread 3: 2097152 hashes, 5466 khash/s
[2015-07-31 14:24:13] thread 0: 2097152 hashes, 5346 khash/s
[2015-07-31 14:24:13] thread 1: 2097152 hashes, 5285 khash/s
[2015-07-31 14:24:13] thread 2: 2097152 hashes, 5095 khash/s
[2015-07-31 14:24:40] Stratum requested work restart
[2015-07-31 14:24:40] thread 0: 130436820 hashes, 4786 khash/s
[2015-07-31 14:24:40] thread 1: 144247016 hashes, 5294 khash/s
[2015-07-31 14:24:40] thread 2: 138369740 hashes, 5081 khash/s
[2015-07-31 14:24:40] thread 3: 137903896 hashes, 5059 khash/s
[2015-07-31 14:25:10] Stratum requested work restart
[2015-07-31 14:25:10] thread 3: 142947720 hashes, 4782 khash/s
[2015-07-31 14:25:10] thread 1: 155934900 hashes, 5217 khash/s
[2015-07-31 14:25:10] thread 2: 149922832 hashes, 5016 khash/s
[2015-07-31 14:25:10] thread 0: 144871752 hashes, 4847 khash/s
```

## Chapter 3: GPU Mining

```
Terminal
File Edit View Search Terminal Help
>> lspci | grep VGA
00:01.0 VGA compatible controller: Advanced Micro Devices, Inc. [AMD/ATI] Richland [Radeon HD 8670D]
01:00.0 VGA compatible controller: Advanced Micro Devices, Inc. [AMD/ATI] Tahiti XT [Radeon HD 7970/8970 OEM / R9 280X]
>>
```

```
Terminal
File Edit View Search Terminal Help
>> sudo aticonfig --adapter=1 --odgt

Adapter 1 - AMD Radeon R9 200 Series
          Sensor 0: Temperature - 37.00 C
>>
```

```
Terminal
File Edit View Search Terminal Help
>> cgminer -V
cgminer 3.7.2
>>
```

```
Terminal
File Edit View Search Terminal Help
>> cgminer -n
[2016-01-07 15:10:18] CL Platform 0 vendor: Advanced Micro Devices, Inc.
[2016-01-07 15:10:18] CL Platform 0 name: AMD Accelerated Parallel Processing
[2016-01-07 15:10:18] CL Platform 0 version: OpenCL 2.0 AMD-APP (1642.5)
[2016-01-07 15:10:18] Platform 0 devices: 2
[2016-01-07 15:10:18] 0 Tahiti
[2016-01-07 15:10:18] 1 Devastator
[2016-01-07 15:10:18] GPU 0 AMD Radeon R9 200 Series hardware monitoring enabled
[2016-01-07 15:10:18] GPU 1 AMD Radeon HD 8670D hardware monitoring enabled
[2016-01-07 15:10:18] 2 GPU devices max detected
>>
```

```
Terminal
File Edit View Search Terminal Help
cgminer 3.7.2
-----

Configuration Options Summary:

libcurl(GBT+getwork)..: Enabled: -lcurl
curses.TUI.....: FOUND: -lcurses
OpenCL.....: FOUND. GPU mining support enabled
script.....: Enabled
ADL.....: SDK found, GPU monitoring support enabled

Avalon.ASICs.....: Disabled
BFL.ASICs.....: Disabled
KnC.ASICs.....: Disabled
BitForce.FPGAs.....: Disabled
BitFury.ASICs.....: Disabled
Hashfast.ASICs.....: Disabled
BlackArrow.ASICs.....: Disabled
Icarus.ASICs/FPGAs...: Disabled
Klondike.ASICs.....: Disabled
ModMiner.FPGAs.....: Disabled

Compilation.....: make (or gmake)
CPPFLAGS.....:
CFLAGS.....: -g -O2
LDFLAGS.....: -lpthread
LDADD.....: -ldl -lcurl  compat/jansson-2.5/src/.libs/libjansso
.a -lpthread -lopenCL  -lm -lrt

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

>>
```



Command Prompt - cgminer -o stratum+tcp://us-west.multipool.us:9999 -u 0xffff.280x -p x -l 11 --thread-con... - □ ×

cgminer version 3.7.2 - Started: [2015-08-15 16:58:58]

-----  
(5s):381.3M (avg):390.6Mh/s | A:0 R:0 HW:0 WU:5.3/m

ST: 2 SS: 0 NB: 1 LW: 20 GF: 0 RF: 0

Connected to us-west.multipool.us diff 256 with stratum as user 0xffff.280x

Block: 1fd4930d... Diff:52.7G Started: [16:58:59] Best share: 14

-----  
[P]ool management [G]PU management [S]ettings [D]isplay options [Q]uit

GPU 0: 68.0C 1953RPM | 398.4M/406.3Mh/s | A:0 R:0 HW:0 WU:5.3/m I:11

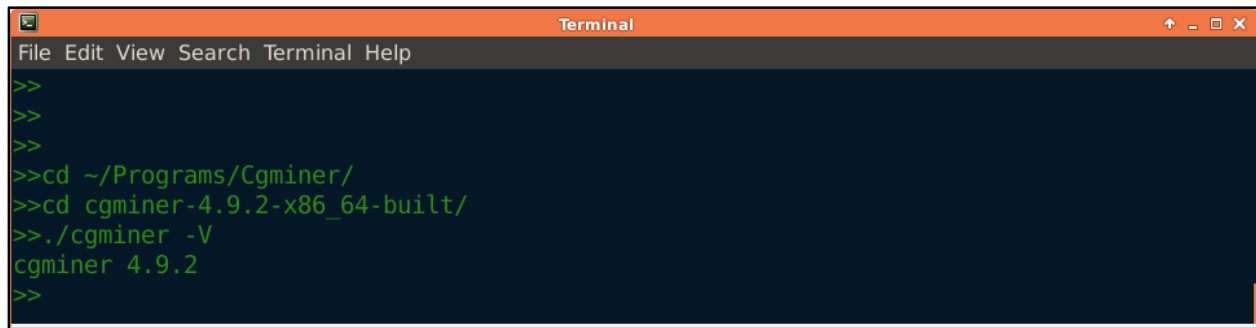
-----  
[2015-08-15 16:58:55] Started cgminer 3.7.2

[2015-08-15 16:58:57] Probing for an alive pool

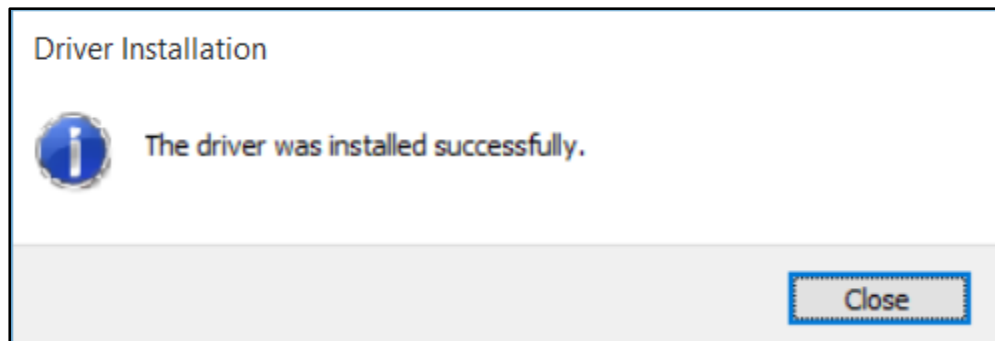
[2015-08-15 16:58:58] Pool 0 difficulty changed to 256

[2015-08-15 16:58:59] Network diff set to 52.7G

## Chapter 4: FPGA Mining



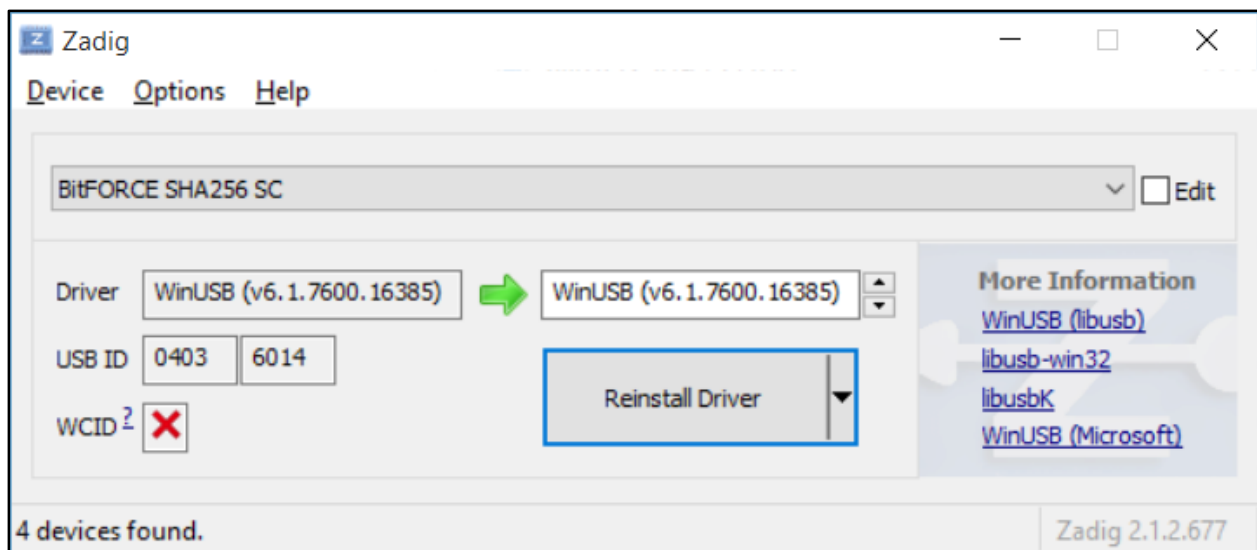
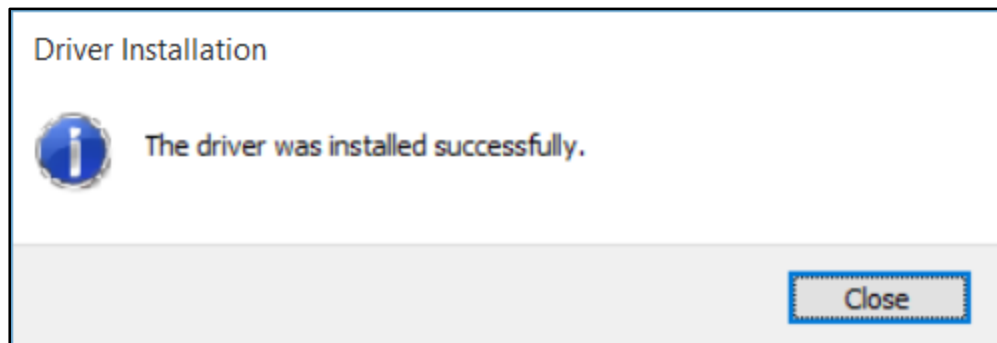
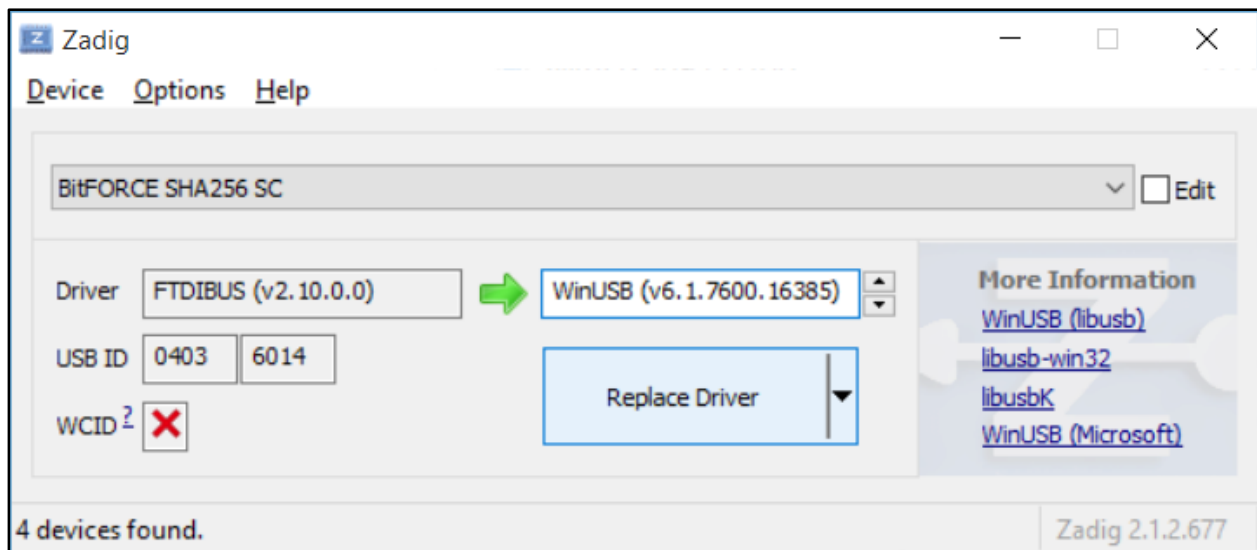
```
Terminal
File Edit View Search Terminal Help
>>
>>
>>
>>cd ~/Programs/Cgminer/
>>cd cgminer-4.9.2-x86_64-built/
>>./cgminer -V
cgminer 4.9.2
>>
```



## Chapter 5: ASIC Mining

```
Terminal
File Edit View Search Terminal Help
>>
>>
>>
>>cd ~/Programs/Cgminer/
>>cd cgminer-4.9.2-x86_64-built/
>>./cgminer -V
cgminer 4.9.2
>>
```

```
Terminal
File Edit View Search Terminal Help
>>cd ~/Programs/Cgminer/cgminer-4.9.2-x86_64-built/
>>./cgminer -n
[2015-08-30 15:59:05] USB all: found 13 devices - listing known devices
,USB dev 0: Bus 2 Device 2 ID: 0403:6014
  Manufacturer: 'Butterfly Labs'
  Product: 'BitFORCE SHA256 SC'
[2015-08-30 15:59:05] 1 known USB devices
>>
```



```
Command Prompt
08/23/2015 09:09 PM          11,166 linux-usb-cgminer.txt
08/23/2015 09:09 PM           5,678 MCast.class
08/23/2015 09:09 PM          80,998 miner.php
08/23/2015 09:09 PM         357,242 NEWS.txt
08/23/2015 09:09 PM          48,448 README.txt
08/23/2015 09:09 PM        364,544 ssleay32.dll
08/23/2015 09:09 PM         19,079 windows-build.txt
08/23/2015 09:09 PM          84,992 zlib1.dll
      26 File(s)          4,995,476 bytes
      2 Dir(s)  149,735,645,184 bytes free

C:\CRYPTO\cgminer-4.9.2-windows\cgminer-4.9.2-windows>cgminer -n
[2015-08-23 21:13:58] USB all: found 12 devices - listing known devices
.USB dev 0: Bus 2 Device 2 ID: 0403:6014
** dev 0: Failed to open, err -12
[2015-08-23 21:13:58] 1 known USB devices

C:\CRYPTO\cgminer-4.9.2-windows\cgminer-4.9.2-windows>cgminer -n
[2015-08-23 21:28:33] USB all: found 12 devices - listing known devices
.USB dev 0: Bus 2 Device 2 ID: 0403:6014
Manufacturer: 'Butterfly Labs'
Product: 'BitFORCE SHA256 SC'
[2015-08-23 21:28:33] 1 known USB devices

C:\CRYPTO\cgminer-4.9.2-windows\cgminer-4.9.2-windows>
```

```
Terminal
File Edit View Search Terminal Help
cgminer version 4.9.2 - Started: [2015-08-30 16:03:25]
-----
(15s):53.49G (1m):46.12G (5m):17.54G (15m):6.639G (avg):53.06Gh/s
A:2560 R:0 HW:4 WU:775.4/m
Connected to us-west.multipool.us diff 256 with stratum as user 0xffff.280x
Block: 960fbd6... Diff:54.3G Started: [16:03:25] Best share: 6.85K
-----
[U]SB management [P]ool management [S]ettings [D]isplay options [Q]uit
0: BAS FTWVRJ1R: max 70C 0.98V | 53.66G / 53.09Gh/s WU:775.4/m
-----
[2015-08-30 16:03:25] Network diff set to 54.3G
[2015-08-30 16:03:29] Accepted 722938c1 Diff 574/256 BAS 0
[2015-08-30 16:03:29] Stratum from pool 0 requested work restart
[2015-08-30 16:03:54] Accepted fbb028b9 Diff 260/256 BAS 0
[2015-08-30 16:03:54] Accepted d348e57f Diff 310/256 BAS 0
[2015-08-30 16:04:18] Accepted a50662a4 Diff 397/256 BAS 0
[2015-08-30 16:04:33] Accepted 79c0e937 Diff 538/256 BAS 0
[2015-08-30 16:04:39] Accepted 0990801c Diff 6.85K/256 BAS 0
[2015-08-30 16:04:58] Accepted 56b80ab9 Diff 756/256 BAS 0
[2015-08-30 16:05:12] Accepted e5a7b95b Diff 285/256 BAS 0
[2015-08-30 16:05:17] Accepted 1c1169b8 Diff 2.33K/256 BAS 0
[2015-08-30 16:05:27] Accepted ff3e4e82 Diff 257/256 BAS 0
```

Command Prompt - cgminer -o stratum+tcp://us-west.multipool.us:9999 -O 0xffff.280xx

cgminer version 4.9.2 - Started: [2015-08-23 21:31:24]

(5s):53.31G (1m):53.32G (5m):49.66G (15m):31.50G (avg):53.29Gh/s

A:11008 R:0 HW:26 WU:735.4/m

Connected to us-west.multipool.us diff 256 with stratum as user 0xffff.280x

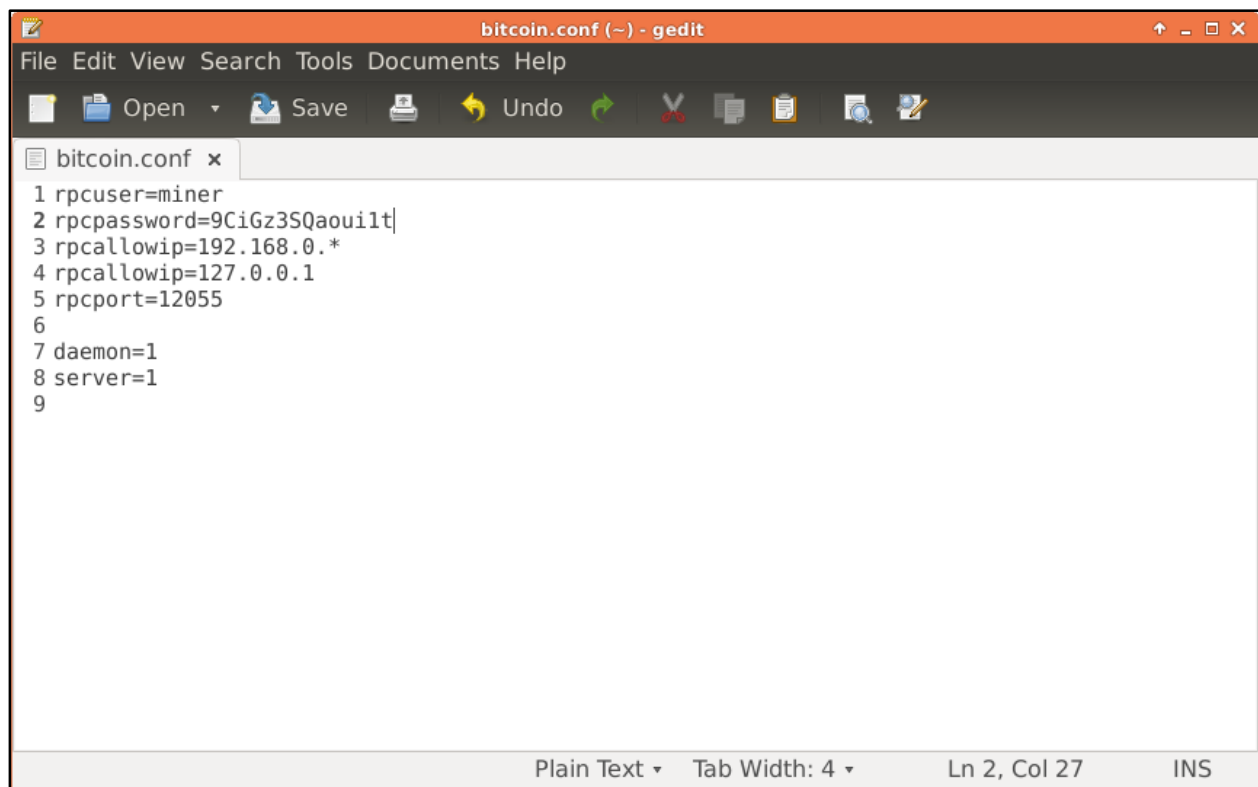
Block: 59f3fed9... Diff:54.3G Started: [21:39:11] Best share: 36.6K

[U]SB management [P]ool management [S]ettings [D]isplay options [Q]uit

0: BAS FTWVRJ1R: max 77C 0.98V | 52.67G / 53.29Gh/s WU:735.4/m

[2015-08-23 21:40:36] Accepted c64fad1e Diff 330/256 BAS 0  
[2015-08-23 21:41:01] Accepted 8638947f Diff 488/256 BAS 0  
[2015-08-23 21:41:41] Accepted 280336ea Diff 1.64K/256 BAS 0  
[2015-08-23 21:41:54] Accepted c1790063 Diff 339/256 BAS 0  
[2015-08-23 21:41:55] Accepted 9930478d Diff 428/256 BAS 0  
[2015-08-23 21:42:05] Accepted ddbb6c02 Diff 296/256 BAS 0  
[2015-08-23 21:42:22] Accepted a72ee5e3 Diff 392/256 BAS 0  
[2015-08-23 21:42:58] Accepted f001745f Diff 273/256 BAS 0  
[2015-08-23 21:42:59] Accepted 7c66d667 Diff 527/256 BAS 0  
[2015-08-23 21:43:02] Accepted dcd07c3f Diff 297/256 BAS 0  
[2015-08-23 21:43:08] Accepted 93d33807 Diff 443/256 BAS 0  
[2015-08-23 21:43:47] Accepted deb85d2b Diff 294/256 BAS 0  
[2015-08-23 21:44:00] Accepted 01ca73a7 Diff 36.6K/256 BAS 0  
[2015-08-23 21:44:00] Accepted 44c97ff1 Diff 953/256 BAS 0

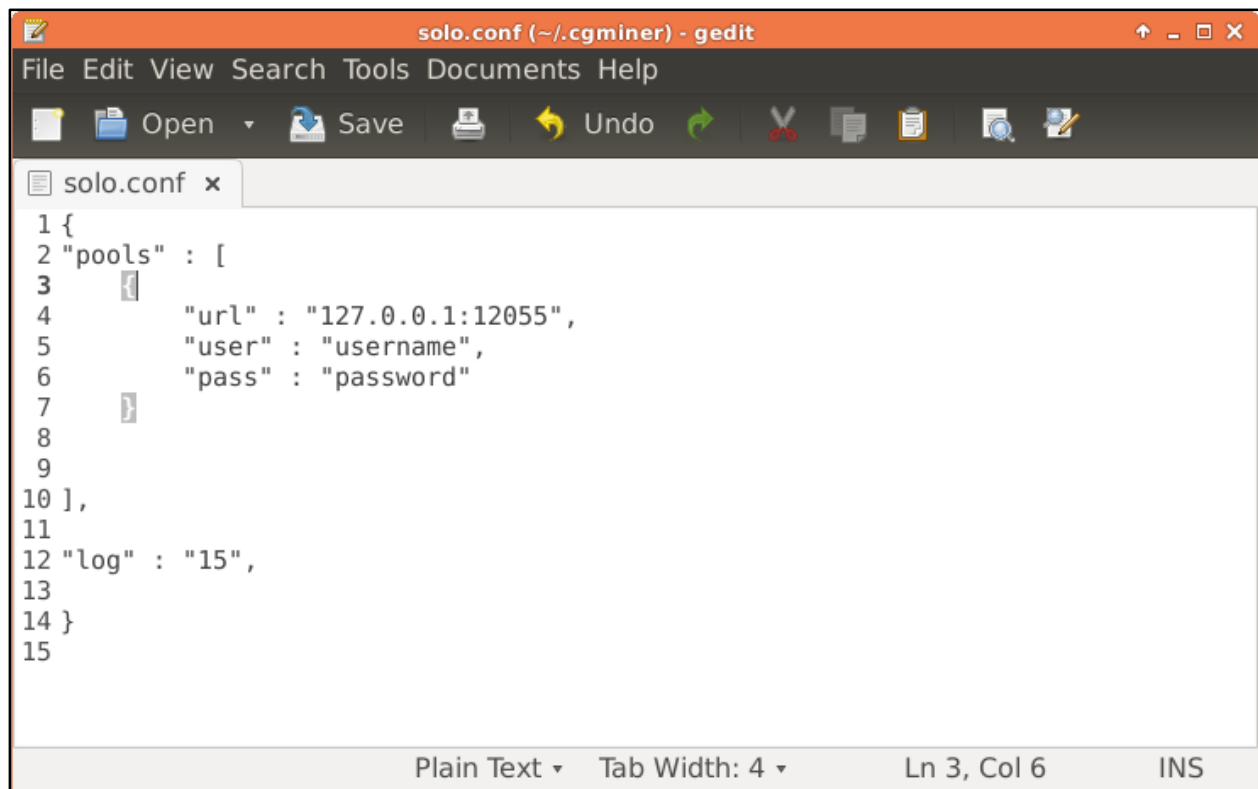
## Chapter 6: Solo Versus Pool Mining



The screenshot shows a gedit editor window titled "bitcoin.conf (~) - gedit". The menu bar includes File, Edit, View, Search, Tools, Documents, and Help. The toolbar contains icons for Open, Save, Undo, and other standard editing functions. The main text area displays the following configuration lines:

```
1 rpcuser=miner
2 rpcpassword=9CiGz3Sqaoui1t|
3 rpcallowip=192.168.0.*
4 rpcallowip=127.0.0.1
5 rpcport=12055
6
7 daemon=1
8 server=1
9
```

The status bar at the bottom indicates "Plain Text", "Tab Width: 4", "Ln 2, Col 27", and "INS".



The screenshot shows a gedit editor window titled "solo.conf (~/.cgminer) - gedit". The menu bar includes File, Edit, View, Search, Tools, Documents, and Help. The toolbar contains icons for Open, Save, Undo, and other standard editing functions. The main text area displays the following configuration in JSON format:

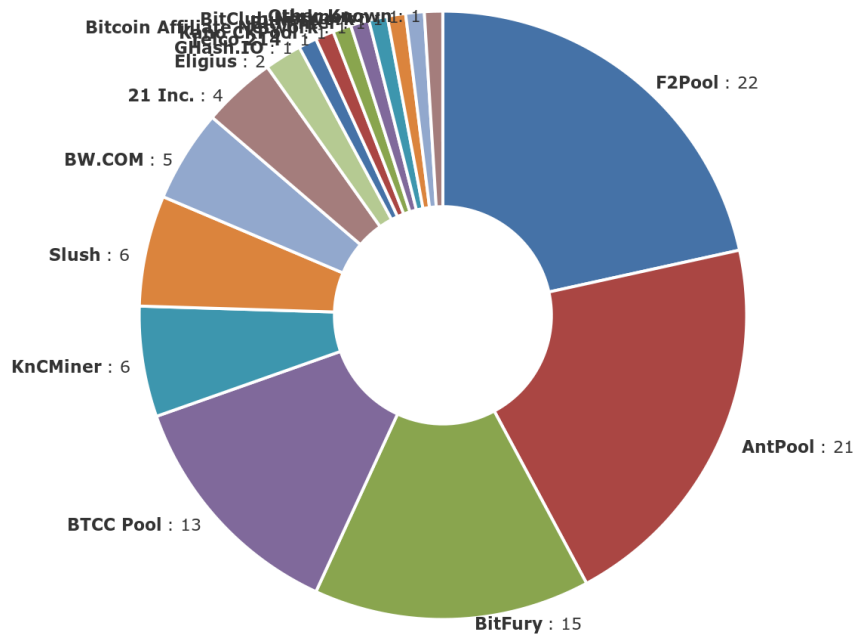
```
1 {
2   "pools" : [
3     {
4       "url" : "127.0.0.1:12055",
5       "user" : "username",
6       "pass" : "password"
7     }
8   ],
9
10 ],
11
12 "log" : "15",
13
14 }
15
```

The status bar at the bottom indicates "Plain Text", "Tab Width: 4", "Ln 3, Col 6", and "INS".

```
multipool.conf (~/.cgminer) - gedit
File Edit View Search Tools Documents Help
Open Save Undo
multipool.conf x
1 {
2 "pools" : [
3   {
4     "url" : "127.0.0.1:12055",
5     "user" : "username",
6     "pass" : "password"
7   },
8   {
9     "url" : "stratum+tcp://us-west.multipool.us:9999",
10    "user" : "miner.bit",
11    "pass" : "x"
12  },
13  {
14    "url" : "stratum+tcp://pool2",
15    "user" : "miner.bit",
16    "pass" : "x"
17  },
18  {
19    "url" : "stratum+tcp://pool3",
20    "user" : "miner.bit",
21    "pass" : "x"
22  }
23 ]
24
25 ],
26
27 "failover-only" : true,
28 "log" : "15",
29
30 }
31

Plain Text Tab Width: 4 Ln 4, Col 27 INS
```





# Chapter 7: Large Scale Mining

