

README

```
// This file is the HW3 manual
// copyright by zhen shao
// 11/02/2015
```

--**** What is the file structure for this program? ****--

The file structure is:

-hw3	
-build	contains the MAKEFILE
-common	contains the common used library
-config	contains the config file. The default value is on purpose for test. Please change when need
-doc	contains the documentation
-peer	contains the peer client source code

--**** How to compiler the program? ****--

```
Assume you are in the hw3 directory and have install the ghthash
cd build
make clean;make
```

After this command, you would automatically has executable peer in the build directory and distribute to the eight test directory which names peer0 to peer7

--**** Before run the code, What does the config file contains and how to change? ****--

You may only need to concern those two config items:

```
servernum = 1           // this specify the number of peer nodes in the whole
system
testmode = 1            // this specify whether it is in the test mode
```

Please note: the config file is in the ./config directory. You need to change all the 8 config files. Each config file you may need to change two items as above shows.

--**** How to run the program ****--

After make, and change the config file in the ./config directory if need, you can enter to the build directory:

And open 8 terminals, each one please cd to the corresponding peer directory, named peer0 to peer7. And execute:

```
sudo ./peer ../../config/peer0.conf
sudo ./peer ../../config/peer1.conf
...
```

Important note 1: must start the command with sudo. (since if the file number is large, it's necessary to adjust system resource, like number of file can be opened)

Important note 2: It is must to start all the 8 nodes in 15 secondes. This is a very primitive strategy for now to coordinate those nodes.

Thank you for your patience!

--*** How to start the test mode, that's to say, the Performance evaluation? ****--
Change the config file for each peer node. Modify the 'testmode's value to 1.

--**** Other resource to consider? ****--
The output file can be viewed about the program process.