

The Common error running the palisade library on Mac OS X machine are displayed when the executing the make file

```
MacAdmins-mbp:lbcrypto MacAdminuser$ make

-n Generating dependencies...
clang: error: no such file or directory: '*.o'
clang: error: no input files
c++ -Wall -O3 -std=gnu++11 -w -g -c -o binint.o binint.cpp
c++ -Wall -O3 -std=gnu++11 -w -g -c -o binmat.o binmat.cpp
c++ -Wall -O3 -std=gnu++11 -w -g -c -o binvect.o binvect.cpp
c++ -Wall -O3 -std=gnu++11 -w -g -c -o mempool.o mempool.cpp
c++ -Wall -O3 -std=gnu++11 -w -g -c -o nbtheory.o nbtheory.cpp
c++ -Wall -O3 -std=gnu++11 -w -g -c -o dtstruct.o dtstruct.cpp
c++ -Wall -O3 -std=gnu++11 -w -g -c -o transfrm.o transfrm.cpp
c++ -Wall -O3 -std=gnu++11 -w -g -c -o distrngen.o distrngen.cpp
c++ -Wall -O3 -std=gnu++11 -w -g -c -o lwecrypt.o lwecrypt.cpp
c++ -Wall -O3 -std=gnu++11 -w -g -c -o lwepre.o lwepre.cpp
c++ -Wall -O3 -std=gnu++11 -w -g -c -o il2n.o il2n.cpp
c++ -Wall -O3 -std=gnu++11 -w -g -c -o utilities.o utilities.cpp
c++ -Wall -O3 -std=gnu++11 -w -g -c -o Source.o Source.cpp
Source.cpp:103:55: error: no member named 'to_time_t' in 'std::__1::chrono::steady_clock'
    time_t tnow = std::chrono::high_resolution_clock::to_time_t(now);
                                              ^
Source.cpp:109:21: error: no member named 'from_time_t' in 'std::__1::chrono::steady_clock'; did you mean
'std::chrono::system_clock::from_time_t'?
    auto midnight = std::chrono::high_resolution_clock::from_time_t(mktime(date));
                      ^
Source.cpp:109:21: note: 'std::chrono::system_clock::from_time_t' declared here
Source.cpp:109:21: note: static time_point from_time_t(time_t __t) NOEXCEPT;
Source.cpp:109:21: note: ^
2 errors generated.
make: *** [Source.o] Error 1
```

The usual gcc version is

```
MacAdmins-mbp:lbcrypto MacAdminuser$ gcc --version

Configured with: --prefix=/Applications/Xcode.app/Contents/Developer/usr
--with-gxx-include-dir=/Applications/Xcode.app/Contents/Developer/Platforms/MacOSX.platform/Developer/SDKs/MacOS
X10.11.sdk/usr/include/c++/4.2.1
Apple LLVM version 7.0.0 (clang-700.0.72)
Target: x86_64-apple-darwin14.5.0
Thread model: posix
```

## THE FIX

As per Hadi's suggestion we decided to upgrade the gcc version to latest version

To upgrade GCC I had to install brew first using the following command  
`ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"`

Then the following command (could take up to 1 hour)

`brew install gcc`

Installs the latest GCC 5.2.1 to the folder  
`/usr/local/Cellar/gcc/5.2.0`

Even after installing the latest gcc for Mac , the path of gcc is set to old version in XCODE directory. To solve that the following list of commands will delete all old versions and add the updated version

Then change the path of latest GCC to the `usr/bin/` directory

```
cd /usr/bin rm cc gcc c++ g++ ln -s /usr/local/Cellar/gcc/5.2.0/gcc-5 cc
ln -s /usr/local/Cellar/gcc/5.2.0/gcc-5 gcc
ln -s /usr/local/Cellar/gcc/5.2.0/c++-5 c++
ln -s /usr/local/Cellar/gcc/5.2.0/g++-5 g++
```

While executing the makefile, the gcc still showed error about the `-lrt` command on the makefile. Bobby's suggestion we comment the following line in Makefile.  
`#TimeLDFLAGS = -lm -lrt`