2018-12-25

Nankai-Baidu
Joint Laboratory

Parallel and Distributed
Software Technology Lab

IDASH2017

- IDASH2017是Makefile Project　学习makefile以及g++ 参数命令

- Xshell 6 通过SSH在服务器上使用vi编辑并调试程序
  主要是配置makefile文件

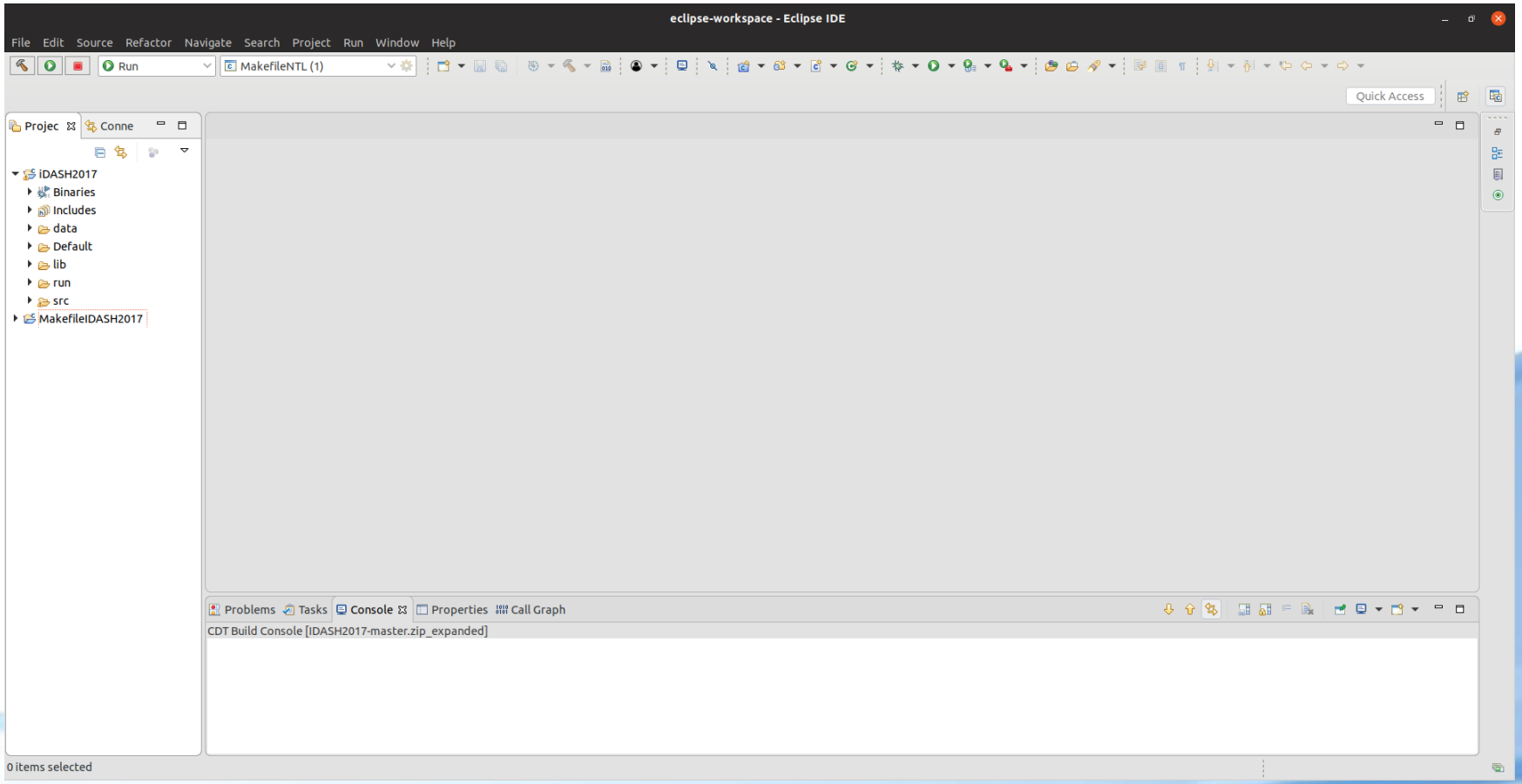
- make是一个依赖关系检查工具，經由讀取叫做“makefile”的文件，自動化建構軟體
  它使用叫做“makefile”的文件来确定一个target文件的依赖关系，然后把生成这个target的相关命令传给shell去执行。

IDASH2017

- IDASH2017里面的makefile文件命令比较复杂，可能部分是由Eclipse IDE生成的。

- IDASH2017:　Ubuntu + Eclipse CDT + Makefile Project
- 配置 Win10 + Ubuntu　Eclipse CDT　Makefile Project

- 学习 Eclipse CDT 构建 C++ Project（Makefile Project）



Nankai-Baidu Joint Laboratory

Parallel and Distributed Software Technology Lab

eclipse-workspace - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Run | MakefileNTL (1) | Quick Access

Problems Tasks Console Properties Call Graph

CDT Build Console [iDASH2017]

```
../src/TestGD.cpp:72:10: warning: unused variable ‘cvData’ [-Wunused-variable]
  double* cvData = new double[factorDim];
          ^~~~~~
../src/TestGD.cpp: In static member function ‘static void TestGD::testEncNLGDFOLD(long int, double**, long int, long int, bool, long int, l
../src/TestGD.cpp:213:7: warning: unused variable ‘lBits’ [-Wunused-variable]
  long lBits = 5;
       ^~~~~
../src/TestGD.cpp:215:7: warning: unused variable ‘kBits’ [-Wunused-variable]
  long kBits = (long)ceil(log2(kdeg));
       ^~~~~
../src/TestGD.cpp:255:10: warning: unused variable ‘cvData’ [-Wunused-variable]
  double* cvData = new double[factorDim];
          ^~~~~~
In file included from ../src/TestGD.cpp:19:
../src/GD.h: At global scope:
../src/GD.h:16:15: warning: ‘degree7’ defined but not used [-Wunused-variable]
 static double degree7[5] = {-0.5,0.216884,-0.00819276,0.000165861,-0.00000119581};
               ^~~~~~~
../src/GD.h:15:15: warning: ‘degree5’ defined but not used [-Wunused-variable]
 static double degree5[4] = {-0.5,0.19131,-0.0045963, 0.0000412332};
               ^~~~~~~
../src/GD.h:14:15: warning: ‘degree3’ defined but not used [-Wunused-variable]
 static double degree3[3] = {-0.5,0.15012,-0.001593};
               ^~~~~~~
In file included from ../src/TestGD.cpp:13:
/home/tree/Downloads/HEAAN/HEAAN/src/Scheme.h:28:13: warning: ‘CONJUGATION’ defined but not used [-Wunused-variable]
 static long CONJUGATION = 2;
             ^~~~~~~~~~~
/home/tree/Downloads/HEAAN/HEAAN/src/Scheme.h:27:13: warning: ‘MULTIPLICATION’ defined but not used [-Wunused-variable]
 static long MULTIPLICATION  = 1;
             ^~~~~~~~~~~~~~
/home/tree/Downloads/HEAAN/HEAAN/src/Scheme.h:26:13: warning: ‘ENCRYPTION’ defined but not used [-Wunused-variable]
 static long ENCRYPTION = 0;
             ^~~~~~~~~~
Finished building: ../src/TestGD.cpp

Building target: iDASH2017
Invoking: GCC C++ Linker
g++ -L/usr/local/lib -L/home/tree/Downloads/HEAAN/HEAAN/lib -pthread -o "iDASH2017"  ./src/CipherGD.o ./src/GD.o ./src/IDASH2017.o ./src/Te
Finished building target: iDASH2017


11:07:31 Build Finished. 0 errors, 21 warnings. (took 10s.369ms)
```

tree@tree: ~/eclipse-workspace/IDASH2017-master.zip_expanded/IDASH2017-master/IDAS...

File Edit View Search Terminal Help

```
tree@tree:~/eclipse-workspace/IDASH2017-master.zip_expanded/IDASH2017-master/IDASH201
7/Debug$ ./IDASH2017 "../data/data103x1579.txt" 1 7 5 1 -1 1 5 1
isYfirst = 1, number of iterations = 7, g_k = 5
factors = 104, samples = 1579, fold = 5
gammaUp = 1, gammaDown = -1, isInitZero = 1
batch = 16, slots = 32768, cnum = 7
------------------
Start Scheme generating...
Scheme generation time = 42077.8 ms
------------------
------------------
Start Polynomial generating...
Polynomial generation time = 52.086 ms
------------------
 !!! START 1 FOLD !!!
------------------
Start Encrypting zData...
zData encryption time = 8365.64 ms
------------------
------------------
Start Encrypting wData and vData...
wData and vData encryption time = 43941.9 ms
------------------
 !!! START 1 ITERATION !!!
encWData.logq before: 1200
------------------
Start Enc NLGD
Killed
tree@tree:~/eclipse-workspace/IDASH2017-master.zip_expanded/IDASH2017-master/IDASH201
7/Debug$
```

IDASH2017

- 本地　　Ubuntu Eclipse CDT
- 服务器 CentOS 没有desktop　配置IDASH2017

- 打算这周先写一下关于HEAAN的文档