

DTS202TC Foundation of Parallel Computing

Lab 1: C Programming Basics

Task 1

Please setup your C development environment base on your OS. Please use **Jetbrains Clion** as the IDE and **GCC** as the compiler.

Jetbrains Clion is a non-free application, however it provides free educational licenses for students and teachers, please apply the license using your XJTLU email (<https://www.jetbrains.com/community/education/#students>).

Use **Homebrew** on Mac and **Cygwin** on Windows to install GCC.

Mac:

```
Brew install GCC
```

Windows:

```
Launch the downloaded setup-x86_64.exe from above link. Make sure you select and install  
packages in the Select Packages dialog.  
gcc-core, make and gdb
```

Verify the installation by:

```
gcc --version
```

Task 2

Once you have your environment setup, please complete the following programming task:

```
Write a C program to count the number of characters and words in a file. The program should be  
able to compile and run by:
```

```
make  
./wc path_to_text.txt
```