



# COMPSCI4081 Systems Programming H 2022-23

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## Coursework 2 Frequently Asked Questions

***The university servers throws an error saying that C++17 is not available.***

You need to use a more recent version of Clang. To obtain it, run the following in the shell:

```
source /usr/local/bin/clang9.setup
```

***I'm unsure what is meant by making the program threaded - does this mean threading only the process function or should we also be threading helper functions such as print dependencies?***

You only need to create worker threads that parallelise the "process" function. You do not need to parallelise other functions.

***Do I need to use C++ asynchronous tasks for the coursework?***

No. Threads and thread-safe data structures are sufficient.

***I don't understand how to configure CRAWLER\_THREADS.***

You can set an environment variable in shell with the following command:

```
export CRAWLER_THREADS=3
```

***In section 3(c) of the report, what times should I record for my dependencyDiscoverer: real, user or system?***

Real, as it is the wall clock time to run the program.

***What are the sequential & 1-Thread dependencyDiscoverer?***

Sequential is the original dependencyDiscoverer you are supplied with. 1-thread is your threaded dependencyDiscoverer with CRAWLER\_THREADS=1.

***Wouldn't the sequential and 1-crawler have the same runtime?***

The sequential and 1-thread programs should have similar runtimes, but introducing thread(s) can slow down a program as they must wait for each other.

***Do we have to submit two .ccp files or just one?***

You are expected to submit only one file. We provide the space to submit a second file just in case anyone has split their solution over two files. Doing so is not expected.

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