C++ threads

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Source for this can be obtained from Github. Get a new copy with:

`git clone https://github.com/EPCCed/cpp4hpc`

or update your existing one with

`git pull`

then you can

`cd cpp4hpc/exercises/threads`

`area.cpp` contains a C++ version of the Mandelbrot example which you used in Threaded Programming.

Parallelise the outer loop of the main computation using C++ threads. Try using either a function pointer or a lambda expression.

Try different mechanisms for synchronising the update to the shared counter: a mutex, and lock guard or an atomic int.