C++ threads

Mark Bull

m.bull@epcc.ed.ac.uk

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

`git clone https://github.com/EPCCed/archer2-CPP-2021-07-20`

or update your existing one with

`git pull`

then you can

`cd archer2-CPP-2021-07-20/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.