

Mandelbrot image Generation using Thread Pools

First off I just want to say that there was a lot of data generated by this assignment. To make my code work all you have to do is type “make”, but that will only run the program, produce the output and generate a single Mandelbrot image using a row by row implementation.

To be brief in writing, This assignment used a pool of available threads to “attack” a queue of functions which comprised the work to do. We varied the work to be done by computing the image on a

1. Pixel by pixel basis
 2. SubRow by SubRow basis
 3. Row by Row basis
- and finally
4. Multi-row by Multi-row basis... in this case (nRows = 5)

Here are some of the results:

1. Fastest time to finish----- Multi-row by Multi-row basis
2. 2nd place ---- Row by Row
3. 3rd Place ---- SubRow by SubRow
4. And coming in dead last, with the worst performance ---- Pixel by Pixel

GRAPHS!

