Lab 7

## 2a. Code is contained in lab7\_2.cu

2b. The gpu code lacks a test for convergence. This means its final answers may be incorrect when compared to the serial answer. This is especially so around the edge cases of the 16 x 16 block. CPU code is contained in *Serial\_SOR.c* 

## 2c.

Row Length	CPU Serial Time (sec)	GPU Simplified SOR Time (sec)
2048	255.1	0.002453

Executing SOR on the GPU takes much less time than that of the serial equivalent.

3a-3b. Code in lab7\_3b.cu

## 3d.

Row Length	CPU Serial Time (sec)	GPU Simplified SOR Time (sec)	GPU Multiple Blocks Time (sec)
2048	255.1	0.002453	0.0000523

Using multiple GPU blocks seems to be the most efficient and fastest way of running code on the GPU.