AMS 148 HW 2

5.2.1a) Serial Saxpy times: Serial Saxpy time for n = 16 is 0 msSerial Saxpy time for n = 128 is 1ms Serial Saxpy time for n = 1024 is 2ms Serial Saxpy time for n = 2048 is 2ms Serial Saxpy time for n = 65536 is 86ms 5.2.1b) GPU Saxpy times: GPU Saxpy time for n = 16 is 0.01024ms GPU Saxpy time for n = 128 is 0.00304ms GPU Saxpy time for n = 1024 is 0.029696ms GPU Saxpy time for n = 2048 is 0.00816ms GPU Saxpy time for n = 65536 is 0.009856ms 5.2.2) Serial Mandelbrot times: Serial Mandelbrot time for height/width = 1024 is 340000ms Serial Mandelbrot time for height/width = 2048 is 1.44e+06ms Serial Mandelbrot time for height/width = 4096 is 5.93e+06ms Serial Mandelbrot time for height/width = 8192 is 2.381e+07ms 5.2.2) GPU Mandelbrot times: GPU Mandelbrot for width 1024 and height 1024 time = 0.167936ms GPU Mandelbrot for width 2048 and height 2048 time = 0.39696ms GPU Mandelbrot for width 4096 and height 4096 time = 1.28266ms GPU Mandelbrot for width 8192 and height 8192 time = 4.80682ms