Module 4
Arunsundar Kannan
Sarah Stephany

1a)

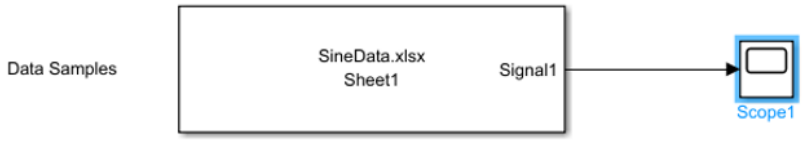

Figure 2: Simulink Block Diagram.

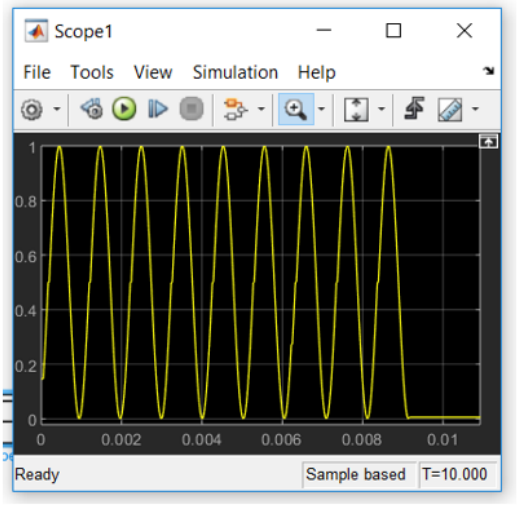

Figure 3: Scope inspection of sine wave.

1b)

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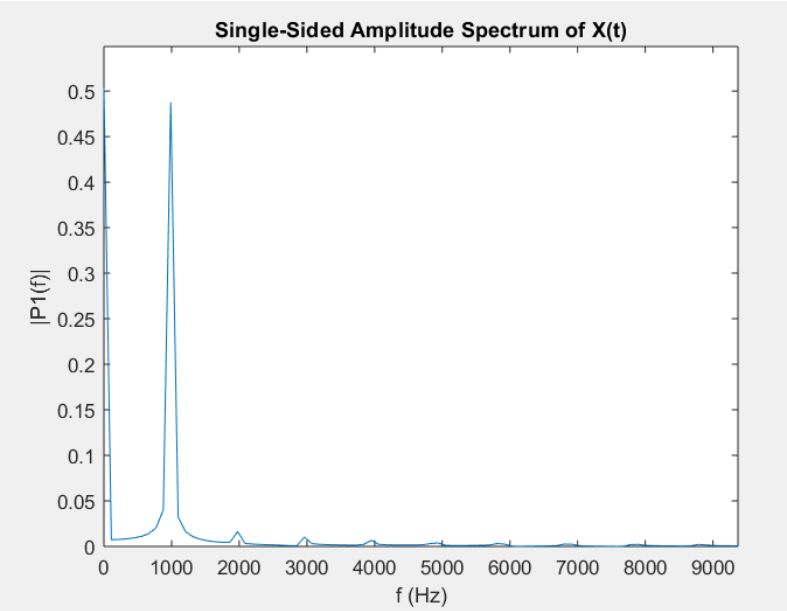
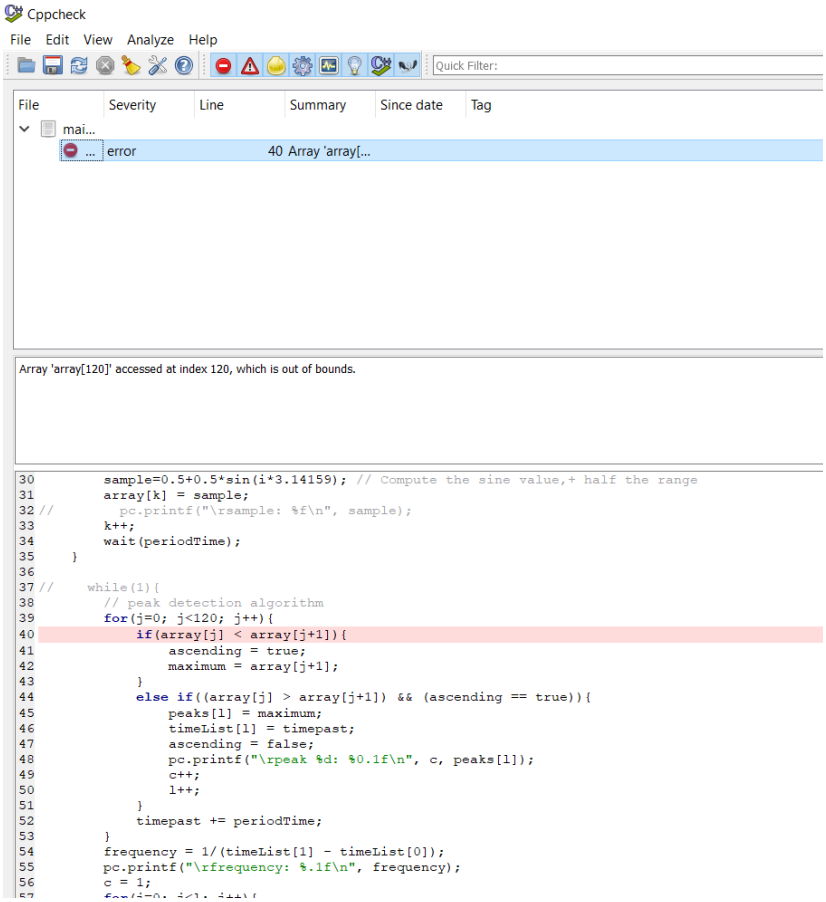


2) The first time through Cppcheck gave an error. After the error was fixed, Cppcheck was again run with no errors.



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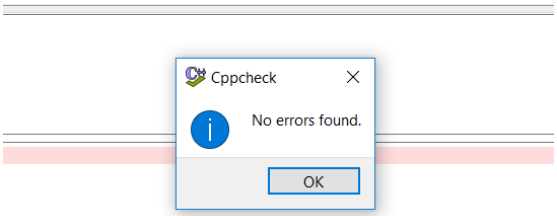

4) Taking the amount of time it took to go through the program, 0.145843 seconds, and dividing that by the wait time of 1 second gives a processor load of 14.6% in % of CPU cycles.