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Milestone 2 Report

In this machine problem for part 2, we put timers on 2 of our functions in order to compare the overhead of calling a local function, versus trying to call that function in a different process.

The 2 functions that we compared were the Generate_Request() functions and the Send_Request() functions. Our experiment revealed that (unsurprisingly) the Send_Request() function had a lot more overhead than the Generate_Request(). This is due to the fact that Send_Request() had to make a function call to a function in a different process, versus Generate_Request() which only had to call a function in its own process.

To test this, I put a clock at the beginning and end of each function call (within the function) and calculated the time elapsed in microseconds. This allowed for the most accurate measurement since I wouldn't have to take into account the time it takes to actually call the function. On average, Send_Request() function took about 7.048077 microseconds while the Generate_Request() function took about 1.784314 microseconds to complete. The results of multiple runs are shown below