Scientific Computing HW 5

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The digits of pi were calculated using the Montecarlo method discussed in class. I found that to get 2 digits of accuracy consistently, I needed around 1 million points, and to get 4 digits of accuracy consistently, I needed 8 x 10^8 points. I was unable to do any more digits of accuracy because my computer simply couldn’t handle the load. I suspect that 6 and 8 digits of accuracy would take many orders of magnitude more iterations.