10000 Samples ($t_{int} = 10 \, ms$) With Uniform Distribution

MATLAB vs FPGA AutoCorrelation Function
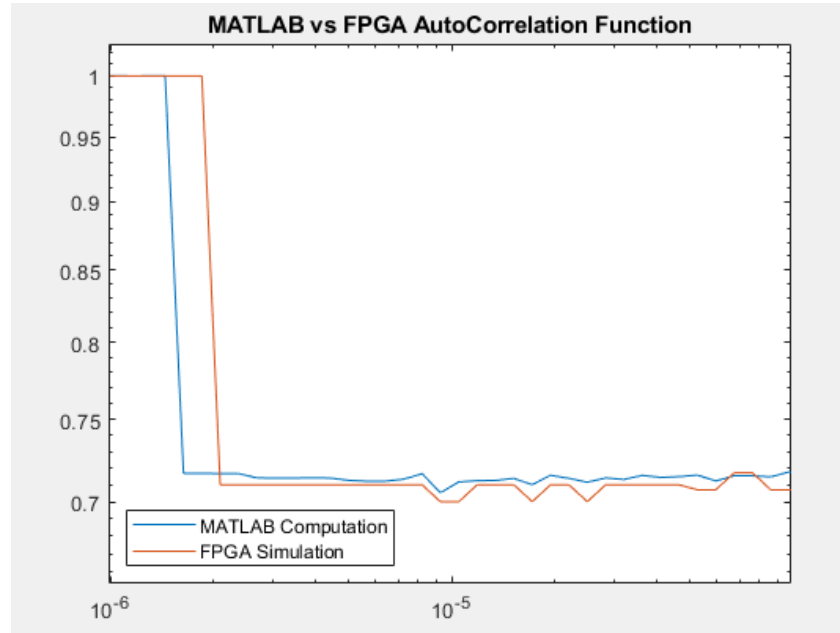
Observed average percent error: 1.3752%

1000 Samples ($t_{int} = 1 \, ms$) With Uniform Distribution

MATLAB vs FPGA AutoCorrelation Function
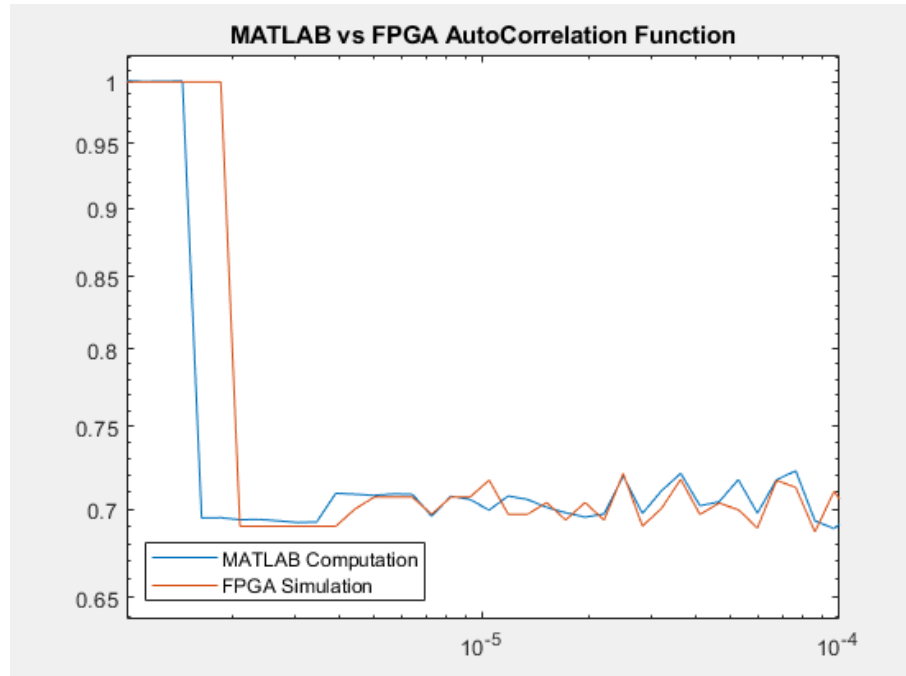
Observed average percent error: 1.832%

100 Samples ($t_{int} = 0.1\ ms$) With Uniform Distribution

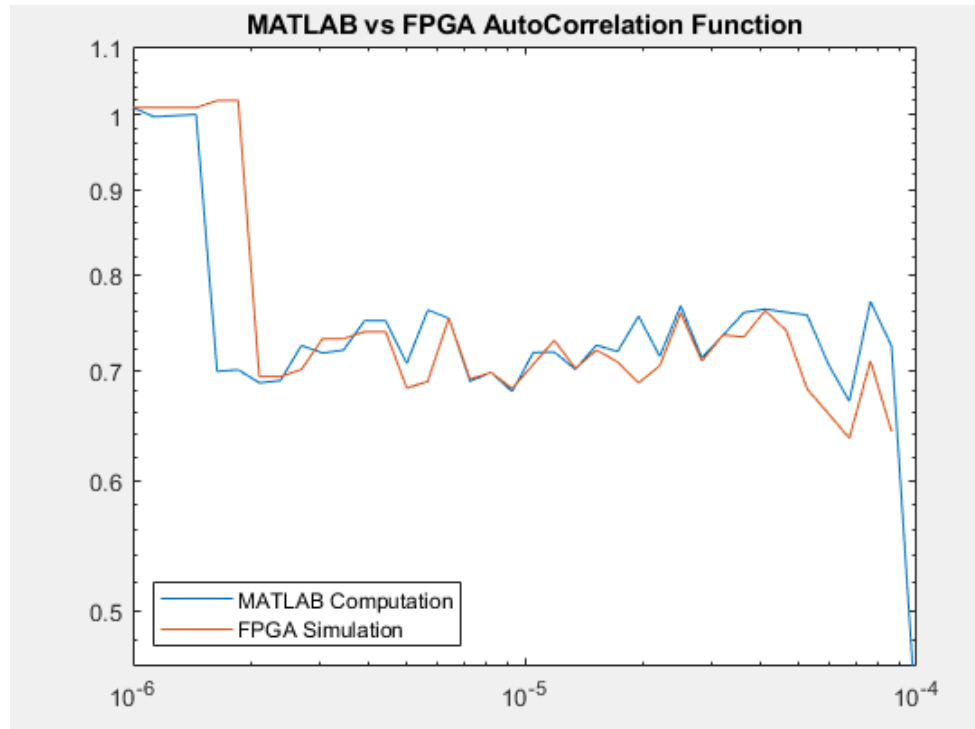Observed average percent error: -2.0762%