Particle Simulations with OpenACC
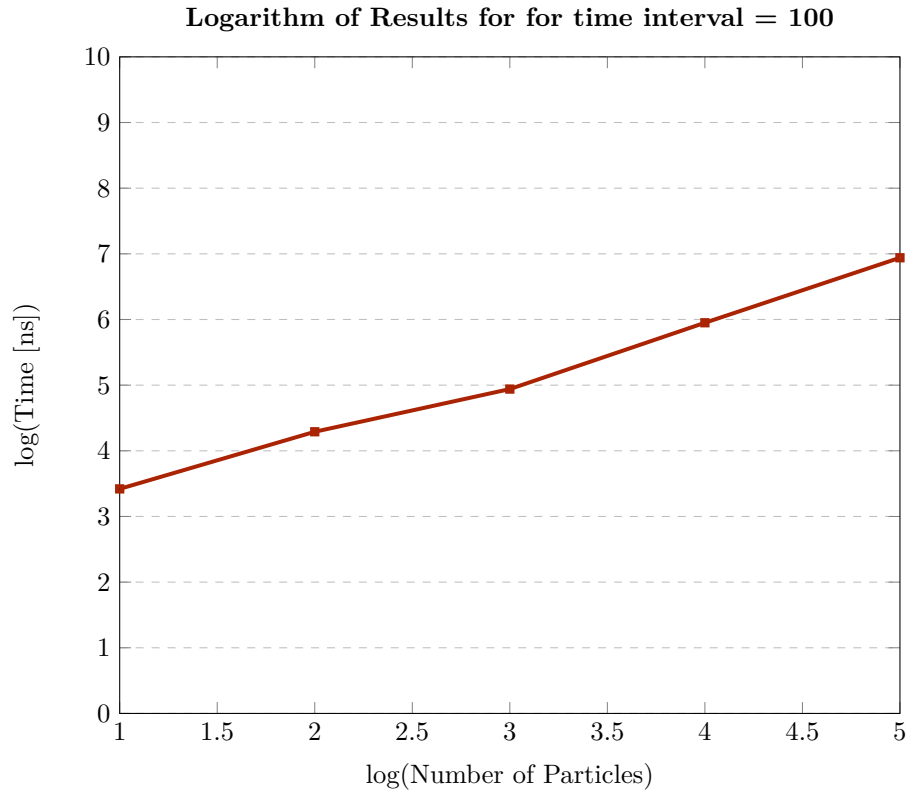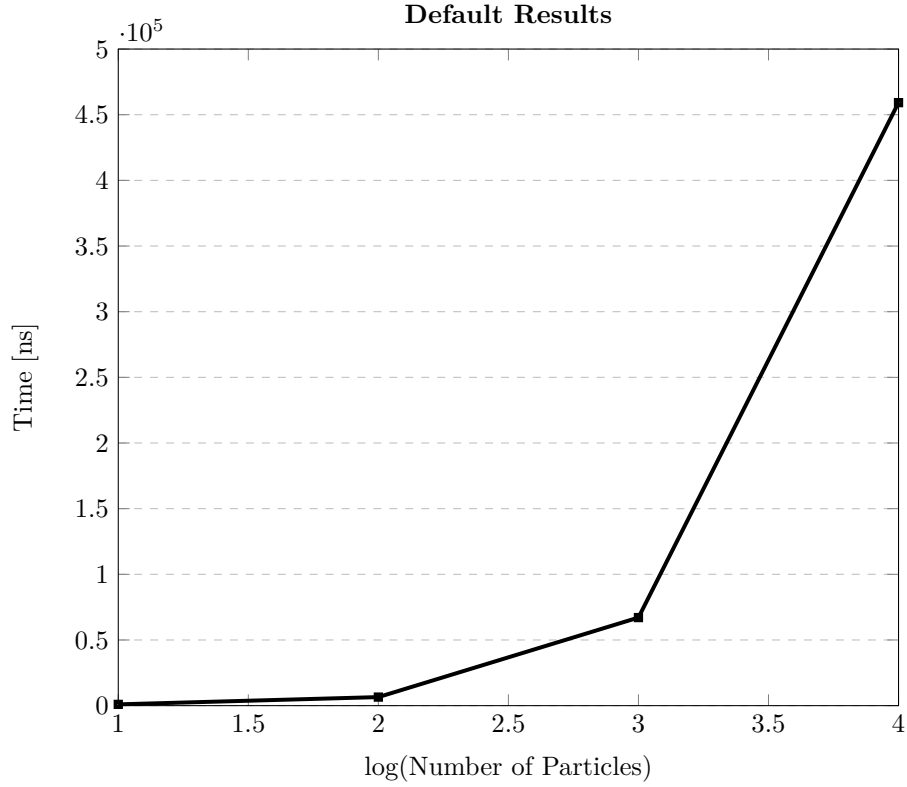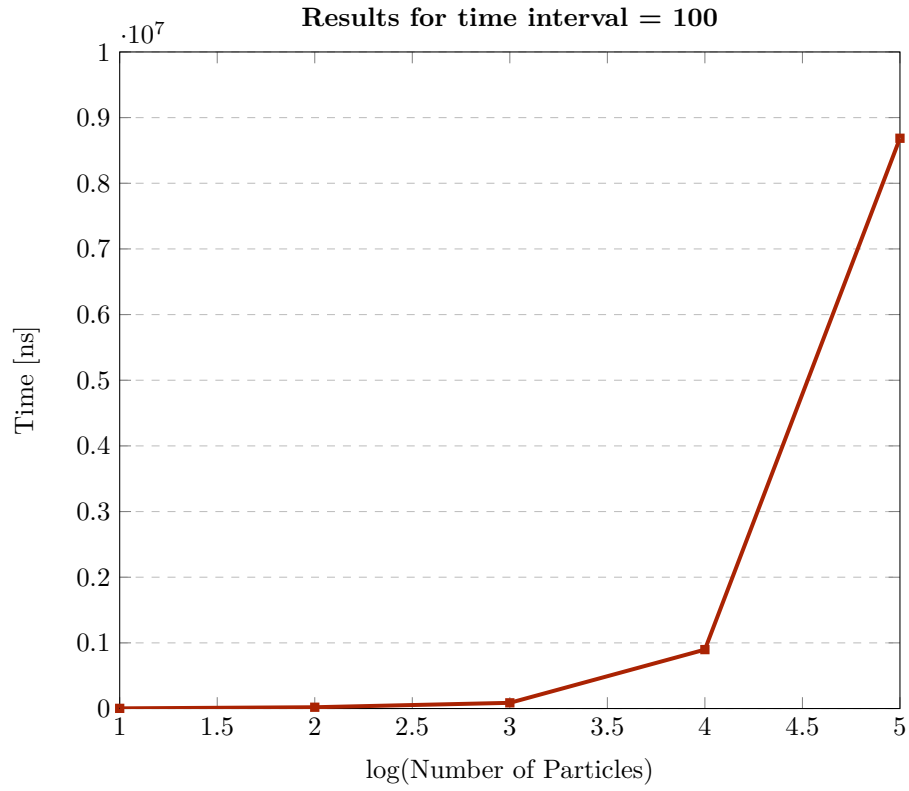
Benchmarks

Authors: *Samuel A. Cruz Alegría, Alessandra M. de Felice, Hrishikesh R. Gupta*

Default Results

Logarithm of Results for for time interval = 100

Results for time interval = 100

Number of particles	Log(Number of particles)	Average time (ns)
10	1	968
100	2	6504
1000	3	67058
10000	4	459200

Serial Particle simulation results for default parameters

Number of particles	Log(Number of particles)	Average time (ns)
10	1	2640
100	2	19681
1000	3	86771
10000	4	897462
100000	5	8685599

Serial Particle simulation results for delta=0.5, total time interval=100