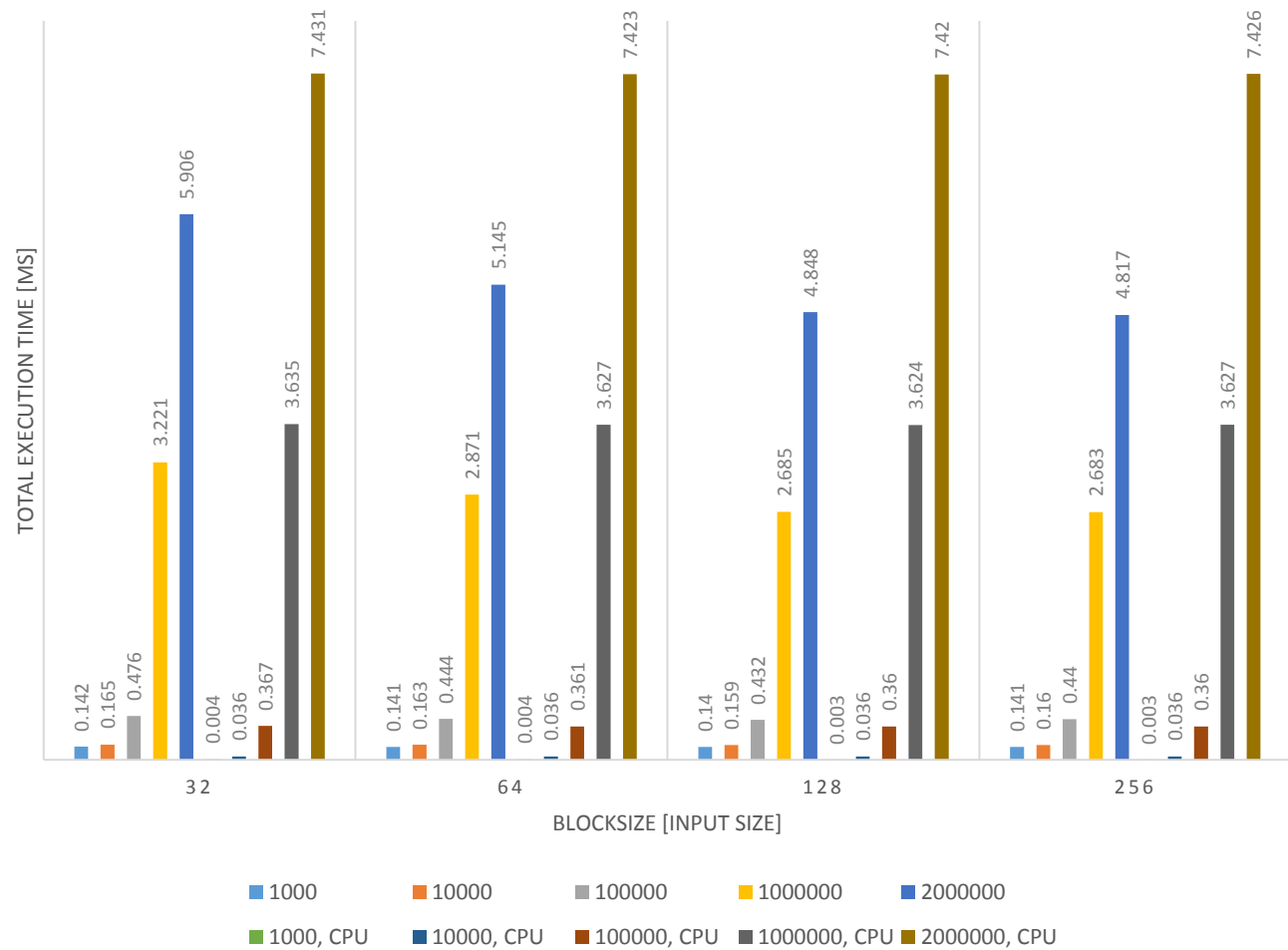


## Original Timing Results

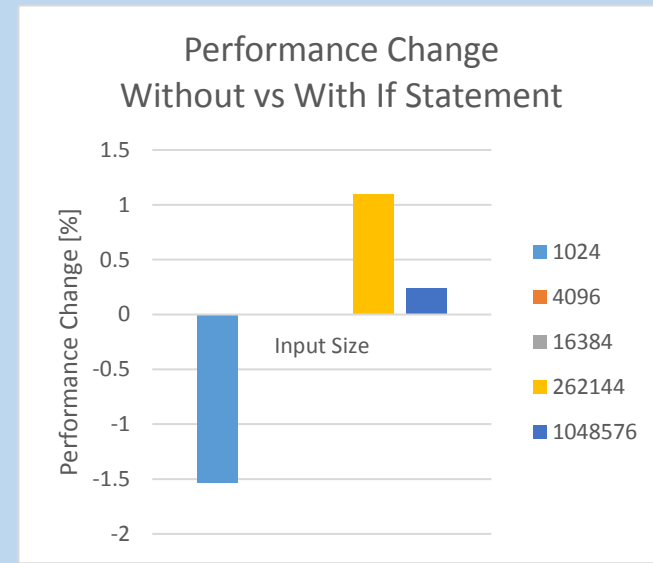
Input Size	Block size	CPU Results	GPU Results	Difference	CPU Execution Time	GPU Execution Time	Transfer Time	Adding Sums	Total
1000	32	508.125519	508.125549	3E-05	0.004	0.063	0.079	0	0.142
10000	32	4971.319336	4971.321777	0.002441	0.036	0.068	0.097	0.001	0.165
100000	32	49986.67188	49986.85156	0.179687	0.367	0.149	0.323	0.005	0.476
1000000	32	500003.75	500006.2813	2.53125	3.635	0.78	2.394	0.046	3.221
2000000	32	999969.375	999936.75	-32.625	7.423	1.36	4.455	0.091	5.906
1000	64	508.125519	508.125519	0	0.004	0.064	0.075	0.001	0.141
10000	64	4971.319336	4971.321289	0.001953	0.036	0.066	0.095	0.001	0.163
100000	64	49986.67188	49986.82031	0.148437	0.361	0.124	0.318	0.002	0.444
1000000	64	500003.75	500005.1875	1.4375	3.627	0.514	2.335	0.023	2.871
2000000	64	999969.375	999935.8125	-33.5625	7.431	0.829	4.271	0.045	5.145
1000	128	508.125519	508.125488	-3.1E-05	0.003	0.064	0.077	0	0.14
10000	128	4971.319336	4971.321777	0.002441	0.036	0.064	0.094	0	0.159
100000	128	49986.67188	49986.80469	0.132813	0.36	0.119	0.312	0.001	0.432
1000000	128	500003.75	500006.1875	2.4375	3.624	0.409	2.263	0.012	2.685
2000000	128	999969.375	999934.3125	-35.0625	7.42	0.617	4.207	0.023	4.848
1000	256	508.125519	508.125458	-6.1E-05	0.003	0.064	0.075	0.001	0.141
10000	256	4971.319336	4971.321289	0.001953	0.036	0.065	0.095	0	0.16
100000	256	49986.67188	49986.80859	0.136719	0.36	0.12	0.32	0.001	0.44
1000000	256	500003.75	500006.6563	2.90625	3.627	0.429	2.247	0.006	2.683
2000000	256	999969.375	999936.5	-32.875	7.426	0.659	4.147	0.012	4.817

## VECTOR REDUCE RESULTS



## If Statement Evaluation Timing Results

Input Size	Block size	GPU Time With If	GPU Time Without If	Speedup [%]
1024	32	0.064	0.065	-1.5384615
4096	32	0.066	0.066	0
16384	32	0.072	0.072	0
262144	32	0.369	0.365	1.09589041
1048576	32	0.844	0.842	0.23752969



## Atomic Add Timing Results

Input Size	Block size	Previous Total Time	New Total Time	Speedup
1000	32	0.142	0.142	0
10000	32	0.165	0.164	-0.6060606
100000	32	0.476	0.482	1.2605042
1000000	32	3.221	3.199	-0.6830177
2000000	32	5.906	5.897	-0.1523874
1000	64	0.141	0.142	0.70921986
10000	64	0.163	0.164	0.61349693
100000	64	0.444	0.447	0.67567568
1000000	64	2.871	2.851	-0.6966214
2000000	64	5.145	5.16	0.29154519
1000	128	0.14	0.141	0.71428571
10000	128	0.159	0.166	4.40251572
100000	128	0.432	0.436	0.92592593
1000000	128	2.685	2.688	0.11173184
2000000	128	4.848	4.837	-0.2268977
1000	256	0.141	0.142	0.70921986
10000	256	0.16	0.16	0
100000	256	0.44	0.437	-0.6818182
1000000	256	2.683	2.678	-0.1863586
2000000	256	4.817	4.811	-0.1245589

## ATOMIC VECTOR REDUCE RESULTS

