

Array addition performance tests

Test name	Device type	Device info	Data size	Number of iterations	Mean execution time per iteration (s)	Variance execution time per iteration	Number of operations (per iteration)	Throughput (MFLOPS)	Speed-up
./arrayAddSerial	CPU	Intel	512	10	0.5859290256	0.0240036985	262144	0.4473988974	1.0000000000
./arrayAddOpenMP_CPU	CPU	Intel	512	10	0.1456153072	0.0000016119	262144	1.8002502970	4.0238147820
./arrayAddOpenCLIPER_CPU	CL_DEVICE_TYPE_CPU	Intel(R) Corporation Intel(R) Core(TM) i7-4790 CPU @ 3.60GHz	512	10	0.0004940042	0.0000000016	262144	530.6513588000	1186.0810608493
./arrayAddOpenCLIPER_GPU	CL_DEVICE_TYPE_GPU	NVIDIA Corporation GeForce GTX 760	512	10	0.0000922298	0.0000000007	262144	2842.2917540000	6352.9252540936
./arrayAddCUDA	CL_DEVICE_TYPE_GPU	NVIDIA Corporation GeForce GTX 760	512	10	0.0011941472	0.0000000356	262144	219.5240261000	490.6673382087
./arrayAddSerial	CPU	Intel	1024	10	3.9656504230	0.0008647633	1048576	0.2644146327	1.0000000000
./arrayAddOpenMP_CPU	CPU	Intel	1024	10	1.5791266600	0.0000579184	1048576	0.6640227327	2.5112934405
./arrayAddOpenCLIPER_CPU	CL_DEVICE_TYPE_CPU	Intel(R) Corporation Intel(R) Core(TM) i7-4790 CPU @ 3.60GHz	1024	10	0.0019344911	0.0000000134	1048576	542.0422973000	2049.9708801969
./arrayAddOpenCLIPER_GPU	CL_DEVICE_TYPE_GPU	NVIDIA Corporation GeForce GTX 760	1024	10	0.0001674512	0.0000000010	1048576	6261.9796100000	23682.4246287874
./arrayAddCUDA	CL_DEVICE_TYPE_GPU	NVIDIA Corporation GeForce GTX 760	1024	10	0.0029032544	0.0000000260	1048576	361.1726148000	1365.9327817780
./arrayAddSerial	CPU	Intel	2048	10	114.7386943000	0.1249159964	4194304	0.0365552705	1.0000000000
./arrayAddOpenMP_CPU	CPU	Intel	2048	10	41.5081496800	0.0191295105	4194304	0.1010477227	2.7642449780
./arrayAddOpenCLIPER_CPU	CL_DEVICE_TYPE_CPU	Intel(R) Corporation Intel(R) Core(TM) i7-4790 CPU @ 3.60GHz	2048	10	0.0063846170	0.0000000016	4194304	656.9390145000	17971.1162470670
./arrayAddOpenCLIPER_GPU	CL_DEVICE_TYPE_GPU	NVIDIA Corporation GeForce GTX 760	2048	10	0.0004556718	0.0000000008	4194304	9204.6600210000	251801.174223240
./arrayAddCUDA	CL_DEVICE_TYPE_GPU	NVIDIA Corporation GeForce GTX 760	2048	10	0.0098129630	0.0000001452	4194304	427.4248253000	11692.5636216877
./arrayAddSerial	CPU	Intel	4096	10	1022.5413040000	19.7683575700	16777216	0.0164073724	1.0000000000
./arrayAddOpenMP_CPU	CPU	Intel	4096	10	370.1671398000	33.6470309100	16777216	0.0453233532	2.7623772995
./arrayAddOpenCLIPER_CPU	CL_DEVICE_TYPE_CPU	Intel(R) Corporation Intel(R) Core(TM) i7-4790 CPU @ 3.60GHz	4096	10	0.0250602533	0.0000000400	16777216	669.4751166000	40803.3107949471
./arrayAddOpenCLIPER_GPU	CL_DEVICE_TYPE_GPU	NVIDIA Corporation GeForce GTX 760	4096	10	0.0016119610	0.0000000003	16777216	10407.9540400000	634346.1808319180
./arrayAddCUDA	CL_DEVICE_TYPE_GPU	NVIDIA Corporation GeForce GTX 760	4096	10	0.0359067418	0.0000000906	16777216	467.2441768000	28477.6967665256

