

Array addition execution time vs kernel block dimension / local size

Test name	Device type	Device info	Dim grid / global size	Dim block / local size	Data size	Number of iterations	Mean execution time (s)	Variance of execution time	Number of operations (per iteration)	Throughput (MFLOPS)	CUDA speed-up respect to OpenCLIPER
./arrayAddOpenCLIPER_GPU	CL_DEVICE_TYPE_GPU	NVIDIA Corporation GeForce GTX 760	4096	1	4096	10	0.1294431488	0.0000216071	16777216	129.6106913000	
./arrayAddOpenCLIPER_GPU	CL_DEVICE_TYPE_GPU	NVIDIA Corporation GeForce GTX 760	4096	2	4096	10	0.0666132225	0.0000090856	16777216	251.8601468000	
./arrayAddOpenCLIPER_GPU	CL_DEVICE_TYPE_GPU	NVIDIA Corporation GeForce GTX 760	4096	4	4096	10	0.0342512257	0.0000025531	16777216	489.8281932000	
./arrayAddOpenCLIPER_GPU	CL_DEVICE_TYPE_GPU	NVIDIA Corporation GeForce GTX 760	4096	8	4096	10	0.0176120639	0.0000004172	16777216	952.5979519000	
./arrayAddOpenCLIPER_GPU	CL_DEVICE_TYPE_GPU	NVIDIA Corporation GeForce GTX 760	4096	16	4096	10	0.0090509887	0.0000000011	16777216	1853.6335150000	
./arrayAddOpenCLIPER_GPU	CL_DEVICE_TYPE_GPU	NVIDIA Corporation GeForce GTX 760	4096	32	4096	10	0.0046990911	0.0000000007	16777216	3570.3108630000	
./arrayAddOpenCLIPER_GPU	CL_DEVICE_TYPE_GPU	NVIDIA Corporation GeForce GTX 760	4096	64	4096	10	0.0025004876	0.0000000002	16777216	6709.5777640000	
./arrayAddOpenCLIPER_GPU	CL_DEVICE_TYPE_GPU	NVIDIA Corporation GeForce GTX 760	4096	128	4096	10	0.0015354220	0.0000000003	16777216	10926.7784400000	
./arrayAddOpenCLIPER_GPU	CL_DEVICE_TYPE_GPU	NVIDIA Corporation GeForce GTX 760	4096	256	4096	10	0.0016161148	0.0000000003	16777216	10381.2031200000	
./arrayAddOpenCLIPER_GPU	CL_DEVICE_TYPE_GPU	NVIDIA Corporation GeForce GTX 760	4096	512	4096	10	0.0017189363	0.0000000013	16777216	9760.2313710000	
./arrayAddOpenCLIPER_GPU	CL_DEVICE_TYPE_GPU	NVIDIA Corporation GeForce GTX 760	4096	1024	4096	10	0.0017865405	0.0000000018	16777216	9390.8959800000	
./arrayAddCUDA	GPU	Nvidia	4096	1	4096	10	0.1234176703	0.0000226057	16777216	135.9385245000	1.0488218459182
./arrayAddCUDA	GPU	Nvidia	2048	2	4096	10	0.0362438142	0.0000035606	16777216	462.8987417000	1.83791976452545
./arrayAddCUDA	GPU	Nvidia	1024	4	4096	10	0.0109146464	0.0000000156	16777216	1537.1286830000	3.13809761124219
./arrayAddCUDA	GPU	Nvidia	512	8	4096	10	0.0031318816	0.0000000294	16777216	5356.9125770000	5.62347689947831
./arrayAddCUDA	GPU	Nvidia	256	16	4096	10	0.0016879648	0.0000000155	16777216	9939.3161510000	5.36207188236991
./arrayAddCUDA	GPU	Nvidia	128	32	4096	10	0.0017315936	0.0000000154	16777216	9688.8878460000	2.7137378838376
./arrayAddCUDA	GPU	Nvidia	64	64	4096	10	0.0000047456	0.0000000000	16777216	3535320.2840000000	526.906522042063
./arrayAddCUDA	GPU	Nvidia	32	128	4096	10	0.0000027808	0.0000000000	16777216	6033233.6210000000	552.151181075838
./arrayAddCUDA	GPU	Nvidia	16	256	4096	10	0.0000040768	0.0000000000	16777216	4115290.3240000000	396.41747458651
./arrayAddCUDA	GPU	Nvidia	8	512	4096	10	0.0000030624	0.0000000000	16777216	5478453.5350000000	561.303654263546
./arrayAddCUDA	GPU	Nvidia	4	1024	4096	10	0.0000027232	0.0000000000	16777216	6160846.0170000000	656.044538255018

