

problem size = 4096*4096, TB == 32*32 and stream = 8					problem size = 8192*8192, TB == 32*32 and stream = 8				
Exp1	GPU_EX	GPU_MEM_EX	CPU_EX	ERR (%)	Exp2	GPU_EX	GPU_MEM_EX	CPU_EX	ERR
Naive	3.2688ms	30.2615ms	0.3566s	0		12.5926ms	117.421ms	1.4072s	0
Const_mem	3.2513ms	30.0847ms	0.3451s	0		12.6932ms	117.2ms	1.359s	0
Shared_mem	2.6737ms	29.4238ms	0.3482s	0.48		10.2627ms	116.083ms	1.3647s	0.43
Stream	3.4787ms	24.0182ms	0.3411s	0.33		13.1499ms	92.1539ms	1.3695s	0.16
Const_shared	2.6816ms	29.4479ms	0.3520s	0.48		9.3679ms	103.716ms	1.3670s	0.43
Const_stream	3.4865ms	23.7832ms	0.3404s	0.33		11.8408ms	81.8116ms	1.3709s	0.16
Final	2.8050ms	23.4483ms	0.3536s	6.5		9.3608ms	80.4958ms	1.372s	6.4
problem size = 16384*16384, TB == 32*32 and stream = 8					problem size = 4096*4096, TB == 16*16 and stream = 8				
Exp3	GPU_EX	GPU_MEM_EX	CPU_EX	ERR (%)	Exp4	GPU_EX	GPU_MEM_EX	CPU_EX	ERR
Naive	46.0393ms	391.313ms	6.4922s	0		4.2292ms	30.8333ms	0.3468s	0
Const_mem	51.2228ms	438.462ms	5.4011s	0		4.2203ms	30.923ms	0.3447s	0
Shared_mem	29.9667ms	327.321ms	5.3962s	0.41		3.2902ms	30.1169ms	0.3410s	1.64
Stream	51.9297ms	347.486ms	5.3786s	0.08		3.3594ms	24.0073ms	0.3461s	0.33
Const_shared	33.4686ms	360.862ms	5.4509s	0.41		3.2532ms	30.3154ms	0.3519s	1.64
Const_stream	51.2900ms	343.426ms	5.4373s	0.08		3.3797ms	23.8716ms	0.3439s	0.33
Final	32.1359ms	276.871ms	5.4874s	6.33		3.3329ms	23.9412ms	0.3371s	12.81
problem size = 4096*4096 and TB == 8*8, stream = 8					problem size = 4096*4096, TB == 32*32 and stream = 16				
Exp5	GPU_EX	GPU_MEM_EX	CPU_EX	ERR (%)	Exp6	GPU_EX	GPU_MEM_EX	CPU_EX	ERR
Naive	6.9169ms	33.6978ms	0.3430s	0	Stream	3.6271ms	23.958ms	0.3403s	0.72
Const_mem	6.9086ms	33.6259ms	0.3372s	0	Const_stream	3.6561ms	24.1307ms	0.3491s	0.72
Shared_mem	4.9967ms	31.7291ms	0.3451s	6.30	Final	2.9421ms	23.4134ms	0.3414s	6.95s
Stream	3.5481ms	23.8226ms	0.3340s	0.33					
Const_shared	4.9901ms	31.8875ms	0.3478s	6.30					
Const_stream	3.5161ms	23.9299ms	0.3489s	0.33					
Final	5.1255ms	25.5612ms	0.3462s	6.70					
problem size = 4096*4096, TB == 32*32 and stream = 32									
Exp7	GPU_EX	GPU_MEM_EX	CPU_EX	ERR					
Stream	3.9977ms	24.6584ms	0.3425s	1.49					
Const_stream	3.9777ms	25.1979ms	0.3441s	1.49					
Final	3.2693ms	24.2655ms	0.3486s	2.62					