

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	1.6508ms	22.4093ms	0.1709s	0		7.1625ms	91.1022ms	0.6864s	0
Const_mem	1.5765ms	22.5876ms	0.1773s	0		7.3542ms	92.4974ms	0.6902s	0
Shared_mem	2.0552ms	22.7007ms	0.1705s	0.48		9.3047ms	97.0219ms	0.6804s	0.43
Stream	1.8904ms	15.4516ms	0.1727s	0.33		7.9312ms	64.0635ms	0.6903s	0.16
Const_shared	2.3233ms	23.0463ms	0.1930s	0.48		8.2083ms	90.5866ms	0.7092s	0.43
Const_stream	1.8391ms	15.1542ms	0.1808s	0.33		10.1412ms	67.181ms	0.7311s	0.16
Final	2.0027ms	15.5503ms	0.1731s	6.5		8.3230ms	67.5193ms	0.6958s	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	21.8749ms	360.29ms	3.2252s	0		1.4427ms	24.0375ms	0.1717s	0
Const_mem	24.8440ms	359.802ms	2.7415s	0		1.4835ms	24.8059ms	0.1682s	0
Shared_mem	35.8436ms	384.393ms	2.7346s	0.41		2.4279ms	23.0385ms	0.1675s	1.64
Stream	28.5529ms	253.627ms	2.6718s	0.08		1.3280ms	14.814ms	0.1673s	0.33
Const_shared	27.6338ms	365.855ms	2.6573s	0.41		2.5740ms	23.1521ms	0.1706s	1.64
Const_stream	30.1452ms	255.776ms	2.6979s	0.08		1.3258ms	15.2904ms	0.1691s	0.33
Final	34.1689ms	258.693ms	2.6834s	6.33		2.1913ms	15.616ms	0.1673s	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	2.6772ms	23.2169ms	0.1692s	0	Stream	1.8711ms	15.0522ms	0.1672s	0.72
Const_mem	2.8291ms	24.8681ms	0.1719s	0	Const_stream	1.8854ms	17.3483ms	0.1691s	0.72
Shared_mem	3.9892ms	26.12ms	0.1713s	6.30	Final	2.0447ms	15.8904ms	0.1681s	6.95s
Stream	1.2572ms	14.8951ms	0.1668s	0.33					
Const_shared	3.7577ms	26.9494ms	0.1676s	6.30					
Const_stream	1.3087ms	16.1852ms	0.1679s	0.33					
Final	3.3178ms	XXXX	0.1743s	6.70					
problem size = 4096*4096, TB == 32*32 and stream = 32									
Exp7	GPU_EX	GPU_MEM_EX	CPU_EX	ERR					
Stream	1.9874ms	16.1377ms	0.1728s	1.49					
Const_stream	1.9282ms	15.7879ms	0.1933s	1.49					
Final	2.0450ms	XX	0.1737s	2.62					