data size = 128*128*128, tb size = 16*16, num_stream = 8

Exp1	GPU_EX	GPU_MEM_EX	CPU_EX	ERR (%)
Naive	2.0221ms	6.17862ms	0.070565s	0
Const_mem	2.1154ms	6.032ms	0.070653s	0
Shared_mem	2.8694ms	6.94928ms	0.064532s	4.1758e
Stream	3.5132ms	8.70301ms	0.064741s	0.5768e
Const_shared	2.8338ms	6.76592ms	0.067444s	4.1758e
Const_stream	3.5602ms	9.14406ms	0.065138s	0.5768e
Final	3.8964ms	9.10422ms	0.068103s	4.7296e

data size = 128*128*128, tb size = 16*16, num_stream = 8

Exp2	GPU_EX	GPU_MEM_EX	CPU_EX	ERR
Naive	9.1145ms	36.2694ms	0.543665s	0
Const_mem	8.9798ms	35.6648ms	0.562625s	0
Shared_mem	10.5724ms	37.4979ms	0.565357s	2.8894e
Stream	12.5182ms	37.0535ms	0.555889s	0.2907e
Const_shared	10.3687ms	37.2831ms	0.533377s	2.8894e
Const_stream	12.5590ms	37.2117ms	0.538992s	0.2907e
Final	12.0498ms	36.2961ms	0.544550s	3.1721e

data size = 512*512*512, tb size = 16*16, num_stream = 8

Exp1	GPU_EX	GPU_MEM_EX	CPU_EX	ERR (%)
Naive	61.0724ms	260.83ms	4.467628s	0
Const_mem	60.9842ms	263.436ms	4.406488s	0
Shared_mem	48.7500ms	219.978ms	4.272825s	2.2298e
Stream	48.0653ms	171.017ms	4.476446s	0.1459e
Const_shared	44.6679ms	198.839ms	4.374590s	2.2298e
Const_stream	69.2234ms	232.557ms	4.470986s	0.1459e
Final	56.1388ms	201.359ms	4.280215s	2.3725e

data size = 512*512*512, tb size = 32*32, num_stream = 8

Exp2	GPU_EX	GPU_MEM_EX	CPU_EX	ERR
Naive	34.2448ms	182.273ms	4.437371s	0
Const_mem	32.1693ms	170.14ms	4.418088s	0
Shared_mem	45.5213ms	243.074ms	4.321182s	1.1138e
Stream	42.2627ms	169.97ms	4.454116s	0.1459e
Const_shared	37.6447ms	208.041ms	4.343832s	1.1138e
Const_stream	39.0565ms	162.332ms	4.466611s	0.1459e
Final	48.8889ms	213.304ms	4.413843s	1.2582e

data size = 256*256*256, tb size = 32*32, num_stream = 16

Exp1	GPU_EX	GPU_MEM_EX	CPU_EX	ERR (%)
Naive	6.9841ms	31.3284ms	0.521924s	0
Const_mem	6.9799ms	31.3233ms	0.525852s	0
Shared_mem	7.8154ms	32.5605ms	0.527173s	1.8262e
Stream	10.5160ms	33.7835ms	0.538448s	0.2907e
Const_shared	8.2629ms	32.4601ms	0.522917s	1.8262e
Const_stream	10.1855ms	33.2503ms	0.536323s	0.2907e
Final	9.3261ms	32.1395ms	0.570333s	2.1122e

data size = 256*256*256, tb size = 32*32, num_stream = 4

Exp2	GPU_EX	GPU_MEM_EX	CPU_EX	ERR
Naive	6.9619ms	31.1165ms	0.537680s	0
Const_mem	7.0144ms	31.341ms	0.545599s	0
Shared_mem	7.8233ms	31.8002ms	0.545417s	1.8262e
Stream	10.8128ms	33.4929ms	0.567121s	0.2907e
Const_shared	7.7876ms	32.4957ms	0.545293s	1.8262e
Const_stream	10.8479ms	33.9258ms	0.531705s	0.2907e
Final	9.4358ms	32.2699ms	0.545630s	2.1122e