Use commands to run the CPU version:
nvcc -o cgl cgl.cu
./cgl

Use commands to run the GPU version:
nvcc -o cglgpu cglgpu.cu
./cglgpu

Use commands to run the GPUSharedMemory version:
nvcc -o cglsharedmemory cglsharedmemory.cu
./cglsharedmemory

Execution time record in milliseconds:

Generations	CPU	GPU	GPUSharedMemory
1	25.901659	0.207470	0.215080
2	25.422342	0.121471	0.125195
3	25.456868	0.120967	0.124178
4	25.472965	0.121100	0.123643
5	25.440151	0.120298	0.124425
6	25.454412	0.120301	0.124305
7	25.399603	0.120704	0.123775
8	25.528057	0.120571	0.124066
9	25.505825	0.119893	0.124647
10	25.596776	0.119969	0.124297

OpenCL	CUDA	Note
kernel	global	CUDA uses the keyword `__global__` to define a kernel
work item	thread	In CUDA, a work item is analogous to a thread
work group	block	In CUDA, a work group is analogous to a block of threads
compute unit	multiprocessor	A compute unit in OpenCL corresponds to a streaming multiprocessor in CUDA
processing element	core	A processing element typically refers to a CUDA core in NVIDIA terminology
local memory	shared memory	In CUDA, local memory refers to the shared memory accessible by threads in a block
global memory	global memory	Both OpenCL and CUDA use global memory to refer to memory accessible by all threads across all work groups/blocks
constant memory	constant memory	Memory that is read-only for the kernel and cached on the chip; useful for broadcasting the same value to all threads
private memory	local memory	In CUDA, private memory refers to memory that is private to each thread

OpenCL
CUDA
Note

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