Page: Details | Levels: 1 | Grid Baseline | Apply Zoom | Save as PNG

	Name	Duration	Start	Time	Index	Page	GPU	Std Frequency	CU	Process
Current	DCLaw	865	<timestamp>0x0D_Bam0_1E_1A0C0_A_1E	9.28 seconds	5.560	45	NVIDIA GeForce GTX 1050	999.15 cycle/nsecond	5.16	21W0QD DCLaw
Baseline 1	DCLaw	865	<timestamp>0x0D_Bam0_1E_1A0C0_A_1E	9.28 seconds	7.551	108	NVIDIA GeForce GTX 1050	999.15 cycle/nsecond	7.51	21W0QD DCLaw

GPU Speed of Light Throughput

GPU Speed of Light Throughput is a composite of many metrics of the GPU. For each unit, the throughput reports the achieved percentage of utilization with respect to the theoretical maximum. Breakdowns show the throughput for each individual sub-metric of Compute and Memory to locate the highest contributor. High level overview of the utilization for compute and memory resources of the GPU presented as a roofline chart.

Compute (SM) Throughput [%]	25.69	[125.0%] Function [second]
Memory Throughput [%]	25.69	[125.0%] Function [second]
Compute Throughput [%]	1.05	[125.0%] Duration [nsecond]
L1/TEX Throughput [%]	25.69	[125.0%] Function [second]
Driver Throughput [%]	0.07	[125.0%] DRAM Frequency [cycle/nsecond]

Memory Throughput Memory is more heavily utilized than Compute: Look at the memory section to analyze the memory access patterns in your kernel.

Roofline Analysis The ratio of peak float (fp32) to double (fp64) performance on this device is 32:1. The kernel achieved 11% of this device's fp32 peak performance and 0% of its fp64 peak performance.

Compute Throughput Breakdown

Speed of Light [% of SOL]	
SM Instruction Fetch [%]	25.69 [125.0%]
SM Issue Active [%]	25.69 [125.0%]
SM Inst Executed [%]	25.69 [125.0%]
SM Pipe Fma Cycles Active [%]	25.69 [125.0%]
SM Pipe Lsu Cycles Active [%]	25.69 [125.0%]
SM Mio Inst Issued [%]	25.69 [125.0%]
SM Sched Warpslots Active [%]	1.05 [125.0%]
SM Sched Inst Issued [%]	1.05 [125.0%]
SM Inst Executed Pipe Fma Pred On Active [%]	1.05 [125.0%]
SM Mio Pq Write Cycles Active [%]	1.05 [125.0%]
SM Pipe Fma Cycles Active [%]	1.05 [125.0%]
SM Pipe Fma Fma Cycles Active [%]	1.05 [125.0%]
SM Pipe Shared Cycles Active [%]	0 [0.0%]
SM Pipe Fp64 Cycles Active [%]	0 [0.0%]
SM Inst Executed Pipe Fma Pred On [%]	0 [0.0%]
SM Inst Executed Pipe Fp64 [%]	0 [0.0%]
SM Inst Executed Pipe Fp64 Pred On [%]	0 [0.0%]
SM Inst Executed Pipe Lsu [%]	0 [0.0%]
SM Inst Executed Pipe Lsu Pred On [%]	0 [0.0%]
SM Inst Executed Pipe Tex [%]	0 [0.0%]

Memory Throughput Breakdown

Speed of Light [% of SOL]	
DRAM [%]	25.69 [125.0%]
L2 Cache [%]	25.69 [125.0%]
DRAM Cycles Active [%]	10.07 [125.0%]
L2 Cycles Active [%]	25.69 [125.0%]
L2 Lookup Requests [%]	25.69 [125.0%]
L2 Lookup Hits [%]	25.69 [125.0%]
L2 Lookup Misses [%]	16.28 [125.0%]
L2 Write Cycles Active [%]	1.31 [125.0%]
L2 Sysmem Write Cycles Active [%]	0.07 [125.0%]
L2 Sysmem Write Sectors [%]	0.07 [125.0%]
L2 Lookup Misses [%]	9.41 [125.0%]
L2 Fill Requests [%]	9.41 [125.0%]
L2 Fill Sectors [%]	9.41 [125.0%]
L2 Fill Cycles Active [%]	9.41 [125.0%]
L2 Sysmem Fill Cycles Active [%]	0 [0.0%]
L2 Sysmem Fill Sectors [%]	0 [0.0%]
L2 Evict Cycles Active [%]	0 [0.0%]
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L2 Evict Sysmem Fill Cycles Active [%]	0 [0.0%]
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L2 Evict Sysmem Write Sectors [%]	0 [0.0%]
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L2 Evict Write Cycles Active [%]	0 [0.0%]
L2 Sysmem Read Cycles Active [%]	0 [0.0%]
L2 Sysmem Read Sectors [%]	0 [0.0%]
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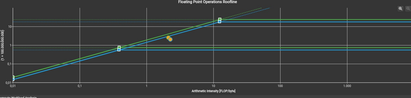
L2 Read Sectors [%]	0 [0.0%]
L2 Write Cycles Active [%]	0 [0.0%]
L2 Write Sectors [%]	0 [0.0%]


Floating Point Operations Roofline
Performance [Flop/second]
Arithmetic Intensity [Flop/Byte]
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