## **CUDA Occupancy Calculator**

Compute Capability version 6.1 Threads per block 256 Registers per thread 8 Shared memory per block 256 bytes Calculate GPU Occupancy Data is displayed here and in the graphs

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Active Threads per Multiprocessor	2048
Active Warps per Multiprocessor	64
Active Thread Blocks per Multiprocessor	8
Occupancy of each Multiprocessor	1
Physical Limits for GPU Compute Capability	
Version	6.1
Threads per Warp	32
Warps per Multiprocessor	64
Threads per Multiprocessor	2048
Thread Blocks per Multiprocessor	32
Total # of 32-bit registers per Multiprocessor	65536
Register allocation unit size	256
Register allocation granularity	warp
Max registers per Block	65536
Max registers per thread	255
Shared Memory per Multiprocessor (bytes)	98304
Shared Memory Allocation unit size	256
Warp allocation granularity (for register allocation)	4
Max thread block size	1024
Allocation Per Thread Block	
Warps	8
Registers	2048
61 124	25.0

Maximum Thread Blocks Per Multiprocessor

**Shared Memory** 

Limited by Max Warps / Blocks per Multiprocessor	8
Limited by Registers per Multiprocessor	32

256

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