

Basic benchmarks

GK20A (Jetson)	vs	GeForce GTX 980
<p>CUDA Capability Major/Minor version number: 3.2</p> <p>Total amount of global memory: 1892 MBytes (1984397312 bytes)</p> <p>(1) Multiprocessors, (192) CUDA Cores/MP: 192 CUDA Cores</p> <p>GPU Clock rate: 852 MHz (0.85 GHz)</p> <p>Memory Clock rate: 924 Mhz</p> <p>Memory Bus Width: 64-bit</p> <p>L2 Cache Size: 131072 bytes</p> <p>Maximum Texture Dimension Size (x,y,z) 1D=(65536), 2D=(65536, 65536), 3D=(4096, 4096, 4096)</p> <p>Maximum Layered 1D Texture Size, (num) layers 1D=(16384), 2048 layers</p> <p>Maximum Layered 2D Texture Size, (num) layers 2D=(16384, 16384), 2048 layers</p> <p>Total amount of constant memory: 65536 bytes</p> <p>Total amount of shared memory per block: 49152 bytes</p> <p>Total number of registers available per block: 32768</p> <p>Warp size: 32</p> <p>Maximum number of threads per multiprocessor: 2048</p>		<p>CUDA Capability Major/Minor version number: 5.2</p> <p>Total amount of global memory: 4096 MBytes (4294770688 bytes)</p> <p>(16) Multiprocessors, (128) CUDA Cores/MP: 2048 CUDA Cores</p> <p>GPU Max Clock rate: 1216 MHz (1.22 GHz)</p> <p>Memory Clock rate: 3505 Mhz</p> <p>Memory Bus Width: 256-bit</p> <p>L2 Cache Size: 2097152 bytes</p> <p>Maximum Texture Dimension Size (x,y,z) 1D=(65536), 2D=(65536, 65536), 3D=(4096, 4096, 4096)</p> <p>Maximum Layered 1D Texture Size, (num) layers 1D=(16384), 2048 layers</p> <p>Maximum Layered 2D Texture Size, (num) layers 2D=(16384, 16384), 2048 layers</p> <p>Total amount of constant memory: 65536 bytes</p> <p>Total amount of shared memory per block: 49152 bytes</p> <p>Total number of registers available per block: 65536</p> <p>Warp size: 32</p> <p>Maximum number of threads per multiprocessor: 2048</p> <p>Maximum number of threads per block: 1024</p>
<p>./bandwidthTest</p>		
<p>Host to Device Bandwidth, 1 Device(s)</p> <p>PINNED Memory Transfers</p> <p>Transfer Size (Bytes) Bandwidth(MB/s)</p> <p>33554432 985.3</p> <p>Device to Host Bandwidth, 1 Device(s)</p> <p>PINNED Memory Transfers</p> <p>Transfer Size (Bytes) Bandwidth(MB/s)</p> <p>33554432 3383.1</p> <p>Device to Device Bandwidth, 1 Device(s) PINNED Memory Transfers</p> <p>Transfer Size (Bytes) Bandwidth(MB/s)</p> <p>33554432 2603.8</p>		<p>Host to Device Bandwidth, 1 Device(s)</p> <p>PINNED Memory Transfers</p> <p>Transfer Size (Bytes) Bandwidth(MB/s)</p> <p>33554432 5159.2</p> <p>Device to Host Bandwidth, 1 Device(s)</p> <p>PINNED Memory Transfers</p> <p>Transfer Size (Bytes) Bandwidth(MB/s)</p> <p>33554432 3953.4</p> <p>Device to Device Bandwidth, 1 Device(s) PINNED Memory Transfers</p> <p>Transfer Size (Bytes) Bandwidth(MB/s)</p> <p>33554432 76000.5</p>