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mixbench/read-only (v0.03)
----- Device specifications -----
Device: Tesla V100-PCIE-32GB
CUDA driver version: 10.10
GPU clock rate: 1380 MHz
Memory clock rate: 438 MHz
Memory bus width: 4096 bits
WarpSize: 32
L2 cache size: 6144 KB
Total global mem: 32480 MB
ECC enabled: Yes
Compute Capability: 7.0
Total SPs: 10240 (80 MPs x 128 SPs/MP)
Compute throughput: 28262.40 GFlops (theoretical single precision FMAs)
Memory bandwidth: 898.05 GB/sec
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Total GPU memory 34058272768
Buffer size: 256MB
Trade-off type: compute with global memory (block strided)
Elements per thread: 8
Thread fusion degree: 4

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| Compute iters | Single Precision ops | | | | Double precision ops | | | | Half precision ops | | | | Integer operations | | | |
|---------------|----------------------|---------|----------|--------|----------------------|---------|---------|--------|--------------------|---------|----------|--------|--------------------|---------|----------|--------|
| | Flops/byte | ex.time | GFLOPS | GB/sec | Flops/byte | ex.time | GFLOPS | GB/sec | Flops/byte | ex.time | GFLOPS | GB/sec | lops/byte | ex.time | GIOPS | GB/sec |
| 0 | 0.25 | 0.17 | 202.27 | 809.09 | 0.125 | 0.31 | 107.44 | 859.49 | 0.5 | 0.16 | 422.81 | 845.63 | 0.25 | 0.16 | 208.71 | 834.85 |
| 1 | 0.75 | 0.16 | 626.14 | 834.85 | 0.375 | 0.32 | 317.11 | 845.63 | 1.5 | 0.16 | 1244.35 | 829.57 | 0.75 | 0.16 | 630.15 | 840.21 |
| 2 | 1.25 | 0.16 | 1050.26 | 840.21 | 0.625 | 0.31 | 533.68 | 853.89 | 2.5 | 0.16 | 2100.51 | 840.21 | 1.25 | 0.16 | 1037.17 | 829.73 |
| 3 | 1.75 | 0.16 | 1470.36 | 840.21 | 0.875 | 0.31 | 752.05 | 859.49 | 3.5 | 0.16 | 2941.31 | 840.37 | 1.75 | 0.16 | 1460.99 | 834.85 |
| 4 | 2.25 | 0.16 | 1854.79 | 824.35 | 1.125 | 0.31 | 963.76 | 856.68 | 4.5 | 0.16 | 3733.06 | 829.57 | 2.25 | 0.16 | 1890.46 | 840.21 |
| 5 | 2.75 | 0.16 | 2295.85 | 834.85 | 1.375 | 0.31 | 1177.93 | 856.68 | 5.5 | 0.16 | 4506.48 | 819.36 | 2.75 | 0.16 | 2295.85 | 834.85 |
| 6 | 3.25 | 0.16 | 2731.21 | 840.37 | 1.625 | 0.31 | 1387.57 | 853.89 | 6.5 | 0.16 | 5392.2 | 829.57 | 3.25 | 0.16 | 2713.27 | 834.85 |
| 7 | 3.75 | 0.16 | 3130.7 | 834.85 | 1.875 | 0.32 | 1595.84 | 851.12 | 7.5 | 0.16 | 6221.77 | 829.57 | 3.75 | 0.16 | 3110.89 | 829.57 |
| 8 | 4.25 | 0.16 | 3547.42 | 834.69 | 2.125 | 0.31 | 1820.44 | 856.68 | 8.5 | 0.16 | 6964.56 | 819.36 | 4.25 | 0.19 | 3027.48 | 712.35 |
| 9 | 4.75 | 0.16 | 3940.46 | 829.57 | 2.375 | 0.31 | 2027.99 | 853.89 | 9.5 | 0.16 | 7734.06 | 814.11 | 4.75 | 0.16 | 3940.46 | 829.57 |
| 10 | 5.25 | 0.16 | 4382.98 | 834.85 | 2.625 | 0.32 | 2219.77 | 845.63 | 10.5 | 0.16 | 8548.17 | 814.11 | 5.25 | 0.16 | 4328.7 | 824.51 |
| 11 | 5.75 | 0.16 | 4740.03 | 824.35 | 2.875 | 0.32 | 2439.04 | 848.36 | 11.5 | 0.17 | 9247.41 | 804.12 | 5.75 | 0.16 | 4710.4 | 819.2 |
| 12 | 6.25 | 0.16 | 5184.81 | 829.57 | 3.125 | 0.32 | 2660.01 | 851.2 | 12.5 | 0.17 | 10051.53 | 804.12 | 6.25 | 0.19 | 4334.39 | 693.5 |
| 13 | 6.75 | 0.16 | 5495.25 | 814.11 | 3.375 | 0.32 | 2863.22 | 848.36 | 13.5 | 0.19 | 9616.7 | 712.35 | 6.75 | 0.16 | 5496.32 | 814.27 |
| 14 | 7.25 | 0.16 | 5976.55 | 824.35 | 3.625 | 0.32 | 3085.3 | 851.12 | 14.5 | 0.19 | 10163.34 | 700.92 | 7.25 | 0.16 | 5976.55 | 824.35 |
| 15 | 7.75 | 0.16 | 6388.73 | 824.35 | 3.875 | 0.32 | 3255.79 | 840.21 | 15.5 | 0.21 | 9767.38 | 630.15 | 7.75 | 0.16 | 6310.59 | 814.27 |
| 16 | 8.25 | 0.16 | 6802.24 | 824.51 | 4.125 | 0.32 | 3465.85 | 840.21 | 16.5 | 0.21 | 10347.79 | 627.14 | 8.25 | 0.2 | 5573.04 | 675.52 |
| 17 | 8.75 | 0.17 | 6950.79 | 794.38 | 4.375 | 0.32 | 3664.15 | 837.52 | 17.5 | 0.24 | 9844.46 | 562.54 | 8.75 | 0.17 | 6993.17 | 799.22 |
| 18 | 9.25 | 0.17 | 7484.05 | 809.09 | 4.625 | 0.32 | 3898.44 | 842.91 | 18.5 | 0.24 | 10451.86 | 564.97 | 9.25 | 0.17 | 7484.05 | 809.09 |
| 20 | 10.25 | 0.17 | 8293.14 | 809.09 | 5.125 | 0.32 | 4306.05 | 840.21 | 20.5 | 0.26 | 10538.45 | 514.07 | 10.25 | 0.21 | 6684.02 | 652.1 |
| 22 | 11.25 | 0.16 | 9158.76 | 814.11 | 5.625 | 0.32 | 4666.33 | 829.57 | 22.5 | 0.29 | 10532.57 | 468.11 | 11.25 | 0.17 | 8725.21 | 775.57 |
| 24 | 12.25 | 0.16 | 9972.87 | 814.11 | 6.125 | 0.32 | 5081.11 | 829.57 | 24.5 | 0.31 | 10598.23 | 432.58 | 12.25 | 0.21 | 7682.45 | 627.14 |
| 28 | 14.25 | 0.18 | 10550.54 | 740.39 | 7.125 | 0.33 | 5836.8 | 819.2 | 28.5 | 0.37 | 10405.44 | 365.1 | 14.25 | 0.23 | 8375.68 | 587.77 |
| 32 | 16.25 | 0.2 | 11035.85 | 679.13 | 8.125 | 0.37 | 5900.06 | 726.16 | 32.5 | 0.41 | 10757.17 | 330.99 | 16.25 | 0.24 | 8911.8 | 548.42 |
| 40 | 20.25 | 0.24 | 11490.08 | 567.41 | 10.125 | 0.46 | 5964.51 | 589.09 | 40.5 | 0.51 | 10616.83 | 262.14 | 20.25 | 0.29 | 9445.58 | 466.45 |
| 48 | 24.25 | 0.28 | 11772.21 | 485.45 | 12.125 | 0.54 | 6008.85 | 495.58 | 48.5 | 0.62 | 10490.09 | 216.29 | 24.25 | 0.34 | 9691.46 | 399.65 |
| 56 | 28.25 | 0.32 | 11906.06 | 421.45 | 14.125 | 0.63 | 6020.79 | 426.25 | 56.5 | 0.73 | 10371.94 | 183.57 | 28.25 | 0.39 | 9795.72 | 346.75 |
| 64 | 32.25 | 0.36 | 11940.88 | 370.26 | 16.125 | 0.71 | 6073.38 | 376.64 | 64.5 | 0.85 | 10198 | 158.11 | 32.25 | 0.44 | 9852.6 | 305.51 |
| 80 | 40.25 | 0.45 | 12017.42 | 298.57 | 20.125 | 0.89 | 6099.01 | 303.06 | 80.5 | 1.11 | 9697.6 | 120.47 | 40.25 | 0.54 | 10010.72 | 248.71 |
| 96 | 48.25 | 0.54 | 12069.13 | 250.14 | 24.125 | 1.06 | 6116.27 | 253.52 | 96.5 | 1.37 | 9446.19 | 97.89 | 48.25 | 0.65 | 9943.75 | 206.09 |
| 128 | 64.25 | 0.71 | 12151.51 | 189.13 | 32.125 | 1.41 | 6133.56 | 190.93 | 128.5 | 1.91 | 9016.46 | 70.17 | 64.25 | 0.85 | 10121.85 | 157.54 |
| 192 | 96.25 | 1.06 | 12224.5 | 127.01 | 48.125 | 2.1 | 6160 | 128 | 192.5 | 3.32 | 7780.25 | 40.42 | 96.25 | 1.29 | 10036.34 | 104.27 |
| 256 | 128.25 | 1.41 | 12243.53 | 95.47 | 64.125 | 2.93 | 5865.31 | 91.47 | 256.5 | 4.12 | 8348.64 | 32.55 | 128.25 | 1.68 | 10268.77 | 80.07 |