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mixbench/read-only (v0.03-21-gd04caf3)
----- Device specifications -----
Device:          NVIDIA RTX A5000
CUDA driver version: 11.50
GPU clock rate:  1695 MHz
Memory clock rate: 4000 MHz
Memory bus width: 384 bits
WarpSize:       32
L2 cache size:  6144 KB
Total global mem: 24256 MB
ECC enabled:    No
Compute Capability: 8.6
Total SPs:      8192 (64 MPs x 128 SPs/MP)
Compute throughput: 27770.88 GFlops (theoretical single precision FMAs)
Memory bandwidth: 768.10 GB/sec
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Total GPU memory 25434652672, free 25221005312
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 | 0.19 | 172.46 | 689.85 | 0.125 | 0.38 | 87.85 | 702.8 | 0.5 | 0.19 | 348.6 | 697.19 | 0.25 | 0.19 | 174.36 | 697.42 |
| 1 | 0.75 | 0.19 | 522.89 | 697.19 | 0.375 | 0.39 | 260.88 | 695.69 | 1.5 | 0.19 | 1045.79 | 697.19 | 0.75 | 0.19 | 520.13 | 693.5 |
| 2 | 1.25 | 0.19 | 871.49 | 697.19 | 0.625 | 0.51 | 327.68 | 524.29 | 2.5 | 0.19 | 1734.62 | 693.85 | 1.25 | 0.19 | 871.49 | 697.19 |
| 3 | 1.75 | 0.19 | 1220.29 | 697.31 | 0.875 | 0.71 | 331.95 | 379.37 | 3.5 | 0.19 | 2428.06 | 693.73 | 1.75 | 0.19 | 1213.63 | 693.5 |
| 4 | 2.25 | 0.19 | 1567.64 | 696.73 | 1.125 | 0.91 | 333.61 | 296.54 | 4.5 | 0.19 | 3154.14 | 700.92 | 2.25 | 0.19 | 1568.68 | 697.19 |
| 5 | 2.75 | 0.19 | 1917.28 | 697.19 | 1.375 | 1.1 | 335.61 | 244.08 | 5.5 | 0.19 | 3814.9 | 693.62 | 2.75 | 0.2 | 1877.33 | 682.67 |
| 6 | 3.25 | 0.19 | 2265.87 | 697.19 | 1.625 | 1.3 | 336.48 | 207.06 | 6.5 | 0.19 | 4531.74 | 697.19 | 3.25 | 0.2 | 2195.79 | 675.63 |
| 7 | 3.75 | 0.19 | 2628.45 | 700.92 | 1.875 | 1.49 | 337.16 | 179.82 | 7.5 | 0.19 | 5204.71 | 693.96 | 3.75 | 0.2 | 2544.68 | 678.58 |
| 8 | 4.25 | 0.19 | 2963.06 | 697.19 | 2.125 | 1.69 | 337.81 | 158.97 | 8.5 | 0.19 | 5898.67 | 693.96 | 4.25 | 0.2 | 2871.42 | 675.63 |
| 9 | 4.75 | 0.19 | 3294.14 | 693.5 | 2.375 | 1.89 | 338.18 | 142.39 | 9.5 | 0.19 | 6588.28 | 693.5 | 4.75 | 0.2 | 3209.24 | 675.63 |
| 10 | 5.25 | 0.19 | 3660.26 | 697.19 | 2.625 | 2.08 | 338.65 | 129.01 | 10.5 | 0.19 | 7281.78 | 693.5 | 5.25 | 0.2 | 3531.69 | 672.7 |
| 11 | 5.75 | 0.19 | 4008.85 | 697.19 | 2.875 | 2.28 | 338.88 | 117.87 | 11.5 | 0.19 | 7975.28 | 693.5 | 5.75 | 0.2 | 3864.94 | 672.16 |
| 12 | 6.25 | 0.19 | 4361.07 | 697.77 | 3.125 | 2.47 | 339.21 | 108.55 | 12.5 | 0.19 | 8631.68 | 690.53 | 6.25 | 0.2 | 4201.03 | 672.16 |
| 13 | 6.75 | 0.19 | 4707.61 | 697.42 | 3.375 | 2.67 | 339.38 | 100.56 | 13.5 | 0.19 | 9362.29 | 693.5 | 6.75 | 0.2 | 4513.96 | 668.73 |
| 14 | 7.25 | 0.19 | 5032.05 | 694.08 | 3.625 | 2.86 | 339.65 | 93.7 | 14.5 | 0.19 | 10055.79 | 693.5 | 7.25 | 0.2 | 4823.72 | 665.34 |
| 15 | 7.75 | 0.19 | 5407.73 | 697.77 | 3.875 | 3.06 | 339.85 | 87.7 | 15.5 | 0.19 | 10749.29 | 693.5 | 7.75 | 0.2 | 5156.39 | 665.34 |
| 16 | 8.25 | 0.19 | 5724.24 | 693.85 | 4.125 | 3.26 | 340.15 | 82.46 | 16.5 | 0.19 | 11442.79 | 693.5 | 8.25 | 0.2 | 5466.51 | 662.61 |
| 17 | 8.75 | 0.19 | 6037.2 | 689.97 | 4.375 | 3.45 | 340.32 | 77.79 | 17.5 | 0.19 | 12136.3 | 693.5 | 8.75 | 0.2 | 5767.74 | 659.17 |
| 18 | 9.25 | 0.19 | 6381.14 | 689.85 | 4.625 | 3.65 | 340.28 | 73.57 | 18.5 | 0.19 | 12766.47 | 690.08 | 9.25 | 0.2 | 6092.54 | 658.65 |
| 20 | 10.25 | 0.19 | 7108.4 | 693.5 | 5.125 | 4.04 | 340.55 | 66.45 | 20.5 | 0.19 | 14216.8 | 693.5 | 10.25 | 0.21 | 6650.93 | 648.87 |
| 22 | 11.25 | 0.19 | 7807.07 | 693.96 | 5.625 | 4.43 | 340.62 | 60.56 | 22.5 | 0.2 | 15442.95 | 686.35 | 11.25 | 0.21 | 7263.84 | 645.67 |
| 24 | 12.25 | 0.19 | 8540.6 | 697.19 | 6.125 | 4.73 | 347.46 | 56.73 | 24.5 | 0.19 | 16901.39 | 689.85 | 12.25 | 0.21 | 7909.52 | 645.67 |
| 28 | 14.25 | 0.19 | 9888.95 | 693.96 | 7.125 | 5.26 | 363.81 | 51.06 | 28.5 | 0.2 | 19557.86 | 686.24 | 14.25 | 0.22 | 8894.17 | 624.15 |
| 32 | 16.25 | 0.19 | 11269.42 | 693.5 | 8.125 | 5.99 | 364.1 | 44.81 | 32.5 | 0.2 | 22302.83 | 686.24 | 16.25 | 0.22 | 9770.28 | 601.25 |
| 40 | 20.25 | 0.19 | 14043.43 | 693.5 | 10.125 | 7.46 | 364.34 | 35.98 | 40.5 | 0.21 | 25399.12 | 627.14 | 20.25 | 0.25 | 10751.22 | 530.92 |
| 48 | 24.25 | 0.19 | 16728.93 | 689.85 | 12.125 | 8.93 | 364.63 | 30.07 | 48.5 | 0.25 | 26268.56 | 541.62 | 24.25 | 0.29 | 11152.62 | 459.9 |
| 56 | 28.25 | 0.2 | 19386.3 | 686.24 | 14.125 | 10.4 | 364.73 | 25.82 | 56.5 | 0.28 | 26734.9 | 473.18 | 28.25 | 0.33 | 11358.23 | 402.06 |
| 64 | 32.25 | 0.2 | 21909.02 | 679.35 | 16.125 | 11.86 | 364.87 | 22.63 | 64.5 | 0.32 | 26753.62 | 414.78 | 32.25 | 0.38 | 11455.48 | 355.21 |
| 80 | 40.25 | 0.22 | 24311.74 | 604.02 | 20.125 | 14.8 | 364.95 | 18.13 | 80.5 | 0.4 | 26848.08 | 333.52 | 40.25 | 0.47 | 11594.83 | 288.07 |
| 96 | 48.25 | 0.26 | 25080.58 | 519.8 | 24.125 | 17.74 | 365.01 | 15.13 | 96.5 | 0.48 | 27084.47 | 280.67 | 48.25 | 0.55 | 11689.88 | 242.28 |
| 128 | 64.25 | 0.33 | 25911.93 | 403.3 | 32.125 | 23.28 | 370.5 | 11.53 | 128.5 | 0.57 | 30128.46 | 234.46 | 64.25 | 0.67 | 12837.46 | 199.8 |
| 192 | 96.25 | 0.47 | 27681.14 | 287.6 | 48.125 | 31.98 | 404 | 8.39 | 192.5 | 0.87 | 29683.95 | 154.2 | 96.25 | 0.99 | 13005.86 | 135.13 |
| 256 | 128.25 | 0.62 | 27930.81 | 217.78 | 64.125 | 42.6 | 404.05 | 6.3 | 256.5 | 1.15 | 29883.59 | 116.51 | 128.25 | 1.31 | 13122.55 | 102.32 |