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mixbench/alternating (v0.03)
----- Device specifications -----
Device:          GeForce RTX 2080
CUDA driver version: 10.0
GPU clock rate:  1710 MHz
Memory clock rate: 3500 MHz
Memory bus width: 256 bits
WarpSize:       32
L2 cache size:  4096 KB
Total global mem: 7952 MB
ECC enabled:    No
Compute Capability: 7.5
Total SPs:      5888 (46 MPs x 128 SPs/MP)
Compute throughput: 20136.96 GFlops (theoretical single precision FMAs)
Memory bandwidth: 448.00 GB/sec

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Total GPU memory 8338604032, free 8183611392
Buffer size:      64MB
Trade-off type:   compute with global memory (block strided)

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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 | 16.84 | 0 | 509.98 | 0 | 42.76 | 0 | 401.78 | 0 | 16.79 | 0 | 511.51 | 0 | 16.88 | 0 | 508.77 |
| 1 | 0.129 | 16.22 | 66.21 | 513.16 | 0.065 | 44.83 | 23.95 | 371.24 | 0.258 | 16.31 | 131.66 | 510.17 | 0.129 | 16.33 | 65.74 | 509.49 |
| 2 | 0.267 | 15.54 | 138.17 | 518.14 | 0.133 | 41.02 | 52.35 | 392.65 | 0.533 | 15.5 | 277.13 | 519.62 | 0.267 | 15.56 | 138.01 | 517.53 |
| 3 | 0.414 | 14.48 | 222.53 | 537.79 | 0.207 | 39.43 | 81.69 | 394.82 | 0.828 | 14.5 | 444.37 | 536.94 | 0.414 | 14.49 | 222.34 | 537.31 |
| 4 | 0.571 | 13.24 | 324.33 | 567.58 | 0.286 | 38.26 | 112.26 | 392.9 | 1.143 | 13.2 | 650.66 | 569.33 | 0.571 | 13.21 | 325.19 | 569.08 |
| 5 | 0.741 | 12.11 | 443.38 | 598.56 | 0.37 | 36.81 | 145.85 | 393.79 | 1.481 | 12.07 | 889.81 | 600.62 | 0.741 | 12.06 | 445.09 | 600.87 |
| 6 | 0.923 | 10.93 | 589.3 | 638.4 | 0.462 | 35.46 | 181.67 | 393.63 | 1.846 | 10.85 | 1187.98 | 643.49 | 0.923 | 10.9 | 590.85 | 640.08 |
| 7 | 1.12 | 9.59 | 783.89 | 699.9 | 0.56 | 34.07 | 220.59 | 393.91 | 2.24 | 9.64 | 1558.61 | 695.81 | 1.12 | 9.66 | 777.96 | 694.61 |
| 8 | 1.333 | 8.34 | 1030.39 | 772.79 | 0.667 | 25.92 | 331.45 | 497.17 | 2.667 | 8.33 | 2061.8 | 773.18 | 1.333 | 8.39 | 1024.3 | 768.23 |
| 9 | 1.565 | 7.15 | 1351.32 | 863.35 | 0.783 | 29.09 | 332.2 | 424.48 | 3.13 | 7.15 | 2702.52 | 863.3 | 1.565 | 7.14 | 1354.28 | 865.24 |
| 10 | 1.818 | 5.99 | 1793.3 | 986.31 | 0.909 | 32.26 | 332.87 | 366.16 | 3.636 | 6 | 3579.98 | 984.49 | 1.818 | 5.98 | 1794.95 | 987.22 |
| 11 | 2.095 | 5.16 | 2290.48 | 1093.18 | 1.048 | 35.45 | 333.15 | 318.01 | 4.19 | 5.13 | 4607.23 | 1099.45 | 2.095 | 5.14 | 2295.85 | 1095.75 |
| 12 | 2.4 | 4.34 | 2969.22 | 1237.18 | 1.2 | 38.73 | 332.68 | 277.24 | 4.8 | 4.31 | 5978.47 | 1245.52 | 2.4 | 4.37 | 2945.44 | 1227.27 |
| 13 | 2.737 | 3.89 | 3590.07 | 1311.76 | 1.368 | 41.81 | 333.85 | 243.97 | 5.474 | 3.9 | 7152.53 | 1306.71 | 2.737 | 3.86 | 3615.12 | 1320.91 |
| 14 | 3.111 | 3.34 | 4506.54 | 1448.53 | 1.566 | 44.92 | 334.65 | 215.13 | 6.222 | 3.37 | 8919.82 | 1433.54 | 3.111 | 3.38 | 4450.27 | 1430.45 |
| 15 | 3.529 | 3.08 | 5222.48 | 1479.7 | 1.765 | 48.07 | 335.04 | 189.86 | 7.059 | 3.07 | 10483.79 | 1485.2 | 3.529 | 3.11 | 5179.59 | 1467.55 |
| 16 | 4 | 8.63 | 1990.14 | 497.54 | 2 | 51.23 | 335.36 | 167.68 | 8 | 8.66 | 3969.06 | 496.13 | 4 | 8.76 | 1961.92 | 490.48 |
| 17 | 4.533 | 7.01 | 2603.59 | 574.32 | 2.267 | 54.41 | 335.45 | 147.99 | 9.067 | 7.04 | 5183.47 | 571.71 | 4.533 | 7.02 | 2599.27 | 573.71 |
| 18 | 5.143 | 6.55 | 2951.01 | 573.81 | 2.571 | 57.72 | 334.87 | 130.23 | 10.286 | 6.55 | 5897.58 | 573.38 | 5.143 | 6.68 | 2891.61 | 562.26 |
| 19 | 5.846 | 4.72 | 4319.51 | 738.86 | 2.923 | 60.9 | 334.98 | 114.6 | 11.692 | 4.68 | 8717.64 | 745.59 | 5.846 | 4.71 | 4333.58 | 741.27 |
| 20 | 6.667 | 4.16 | 5161.27 | 774.19 | 3.333 | 64.08 | 335.12 | 100.54 | 13.333 | 4.14 | 10382.34 | 778.68 | 6.667 | 4.3 | 4997.57 | 749.64 |
| 21 | 7.636 | 2.25 | 10000.89 | 1309.64 | 3.818 | 67.15 | 335.8 | 87.95 | 15.273 | 2.25 | 20085.31 | 1315.11 | 7.636 | 2.27 | 9918.82 | 1298.89 |
| 22 | 8.8 | 5.25 | 4497.06 | 511.03 | 4.4 | 70.33 | 335.89 | 76.34 | 17.6 | 5.24 | 9014.45 | 512.18 | 8.8 | 5.33 | 4432.58 | 503.7 |
| 23 | 10.222 | 2.62 | 9429.2 | 922.42 | 5.111 | 73.52 | 335.93 | 65.72 | 20.444 | 2.45 | 20196.32 | 987.86 | 10.222 | 2.44 | 10133.16 | 991.29 |
| 24 | 12 | 4.62 | 5575.02 | 464.59 | 6 | 76.66 | 336.15 | 56.02 | 24 | 4.66 | 11059.93 | 460.83 | 12 | 4.72 | 5456.6 | 454.72 |
| 25 | 14.286 | 3.77 | 7111.88 | 497.83 | 7.143 | 79.88 | 336.04 | 47.05 | 28.571 | 3.78 | 14220.27 | 497.71 | 14.286 | 3.77 | 7115.8 | 498.11 |
| 26 | 17.333 | 3.42 | 8169.22 | 471.3 | 8.667 | 83.04 | 336.2 | 38.79 | 34.667 | 3.42 | 16335.22 | 471.21 | 17.333 | 3.52 | 7928.52 | 457.41 |
| 27 | 21.6 | 2.8 | 10363.53 | 479.79 | 10.8 | 86.21 | 336.28 | 31.14 | 43.2 | 2.81 | 20623.03 | 477.38 | 21.6 | 2.8 | 10341.17 | 478.76 |
| 28 | 28 | 2.88 | 10432.9 | 372.6 | 14 | 89.39 | 336.33 | 24.02 | 56 | 2.9 | 20721.98 | 370.04 | 28 | 2.96 | 10148.79 | 362.46 |
| 29 | 38.667 | 2.99 | 10418.07 | 269.43 | 19.333 | 92.59 | 336.29 | 17.39 | 77.333 | 3.01 | 20671.25 | 267.3 | 38.667 | 2.99 | 10418.51 | 269.44 |
| 30 | 60 | 3.09 | 10409.1 | 173.49 | 30 | 95.75 | 336.42 | 11.21 | 120 | 3.08 | 20934.45 | 174.45 | 60 | 3.16 | 10205.74 | 170.1 |
| 31 | 124 | 3.11 | 10714.08 | 86.4 | 62 | 98.97 | 336.33 | 5.42 | 248 | 3.11 | 21372.03 | 86.18 | 124 | 3.12 | 10666.62 | 86.02 |
| 32 | inf | 3.2 | 10735.59 | 0 | inf | 102.14 | 336.4 | 0 | inf | 3.23 | 21302.08 | 0 | inf | 3.43 | 10020.45 | 0 |