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mixbench/read-only (v0.03-13-gf65df9d)
----- Device specifications -----
Device:          A100-SXM4-40GB
CUDA driver version: 11.0
GPU clock rate:  1410 MHz
Memory clock rate: 607 MHz
Memory bus width: 5120 bits
WarpSize:       32
L2 cache size:  40960 KB
Total global mem: 40537 MB
ECC enabled:    Yes
Compute Capability: 8.0
Total SPs:      13824 (108 MPs x 128 SPs/MP)
Compute throughput: 38983.68 GFlops (theoretical single precision FMAs)
Memory bandwidth: 1555.20 GB/sec
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Total GPU memory 42506321920, free 42068017152
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	0.11	300.62	1202.5	0.125	0.19	178.09	1424.7	0.5	0.1	668.73	1337.47	0.25	0.1	330.99	1323.96
1	0.75	0.1	992.97	1323.96	0.375	0.19	534.26	1424.7	1.5	0.1	1966.08	1310.72	0.75	0.1	1003.1	1337.47
2	1.25	0.1	1671.84	1337.47	0.625	0.19	895.3	1432.48	2.5	0.1	3343.67	1337.47	1.25	0.1	1689.07	1351.26
3	1.75	0.1	2293.76	1310.72	0.875	0.19	1246.61	1424.7	3.5	0.1	4587.52	1310.72	1.75	0.1	2316.93	1323.96
4	2.25	0.1	2978.91	1323.96	1.125	0.19	1594.12	1416.99	4.5	0.1	5957.82	1323.96	2.25	0.1	2978.91	1323.96
5	2.75	0.1	3640.89	1323.96	1.375	0.19	1948.37	1416.99	5.5	0.1	7281.78	1323.96	2.75	0.1	3640.89	1323.96
6	3.25	0.1	4259.84	1310.72	1.625	0.19	2315.13	1424.7	6.5	0.1	8605.74	1323.96	3.25	0.1	4302.87	1323.96
7	3.75	0.1	4964.85	1323.96	1.875	0.19	2671.3	1424.7	7.5	0.1	9830.4	1310.72	3.75	0.1	5015.51	1337.47
8	4.25	0.1	5570.56	1310.72	2.125	0.19	3011.11	1416.99	8.5	0.1	11030.81	1297.74	4.25	0.14	4126.34	970.9
9	4.75	0.1	6553.6	1379.71	2.375	0.19	3347.27	1409.38	9.5	0.1	12705.96	1337.47	4.75	0.1	6164.28	1297.74
10	5.25	0.1	6813.15	1297.74	2.625	0.19	3699.61	1409.38	10.5	0.1	13762.56	1310.72	5.25	0.1	6881.28	1310.72
11	5.75	0.1	7612.77	1323.96	2.875	0.19	4008.85	1394.38	11.5	0.1	15225.54	1323.96	5.75	0.1	7536.64	1310.72
12	6.25	0.1	8110.89	1297.74	3.125	0.19	4357.45	1394.38	12.5	0.1	16384	1310.72	6.25	0.14	5809.93	929.59
13	6.75	0.1	9120.99	1351.26	3.375	0.19	4706.04	1394.38	13.5	0.1	17873.46	1323.96	6.75	0.1	8759.76	1297.74
14	7.25	0.11	8964.83	1236.53	3.625	0.19	5027.89	1387.01	14.5	0.1	18817.27	1297.74	7.25	0.11	9225.94	1272.54
15	7.75	0.11	9862.21	1272.54	3.875	0.19	5374.65	1387.01	15.5	0.1	20316.16	1310.72	7.75	0.1	9958.9	1285.02
16	8.25	0.11	10498.49	1272.54	4.125	0.19	5691.28	1379.71	16.5	0.1	21845.33	1323.96	8.25	0.15	7306.38	885.62
17	8.75	0.1	11702.86	1337.47	4.375	0.2	6004.61	1372.48	17.5	0.1	23405.72	1337.47	8.75	0.11	11027.69	1260.31
18	9.25	0.11	11546.82	1248.3	4.625	0.2	6314.67	1365.33	18.5	0.1	24008.24	1297.74	9.25	0.11	11226.07	1213.63
20	10.25	0.11	12103.5	1180.83	5.125	0.2	6751.2	1317.31	20.5	0.1	27141.17	1323.96	10.25	0.16	8723.95	851.12
22	11.25	0.12	12391.26	1101.45	5.625	0.22	6890.47	1224.97	22.5	0.1	30720	1365.33	11.25	0.12	12496.27	1110.78
24	12.25	0.13	12743.11	1040.25	6.125	0.24	6981.01	1139.76	24.5	0.1	33450.67	1365.33	12.25	0.17	9790.44	799.22
28	14.25	0.15	13061.37	916.59	7.125	0.27	7074.91	992.97	28.5	0.1	37732.85	1323.96	14.25	0.18	10612.36	744.73
32	16.25	0.16	13312	819.2	8.125	0.31	7147.38	879.68	32.5	0.1	43028.69	1323.96	16.25	0.2	11093.33	682.67
40	20.25	0.2	13824	682.67	10.125	0.38	7232.17	714.29	40.5	0.11	48258.33	1191.56	20.25	0.23	11641.26	574.88
48	24.25	0.23	14189.71	585.14	12.125	0.45	7240.31	597.14	48.5	0.13	50055.05	1032.06	24.25	0.27	11949.23	492.75
56	28.25	0.27	14296.46	506.07	14.125	0.52	7303.32	517.05	56.5	0.15	51072.88	903.94	28.25	0.31	12140.28	429.74
64	32.25	0.3	14377.8	445.82	16.125	0.59	7338.67	455.11	64.5	0.17	52186.08	809.09	32.25	0.35	12216.97	378.82
80	40.25	0.37	14493.54	360.09	20.125	0.73	7378.53	366.63	80.5	0.2	53559.88	665.34	40.25	0.43	12442.57	309.13
96	48.25	0.44	14605.6	302.71	24.125	0.87	7414.1	307.32	96.5	0.24	54285.18	562.54	48.25	0.52	12573.01	260.58
128	64.25	0.59	14696.99	228.75	32.125	1.16	7445.96	231.78	128.5	0.31	55586.64	432.58	64.25	0.68	12759.66	198.59
192	96.25	0.87	14824.54	154.02	48.125	1.73	7487.05	155.58	192.5	0.45	56827.39	295.21	96.25	1	12925.9	134.3
256	128.25	1.17	14719.78	114.77	64.125	2.31	7461.16	116.35	256.5	0.65	53280.46	207.72	128.25	1.32	13020.9	101.53