mixbench (v0.04-1-g7a068df)
---------- Device specifications ----------
Device: NVIDIA RTX A4000
CUDA driver version: 11.70
GPU clock rate: 1560 MHz
Memory clock rate: 3500 MHz
Memory bus width: 256 bits
WarpSize: 32
L2 cache size: 4096 KB
Total global mem: 16107 MB
ECC enabled: No
Compute Capability: 8.6
Total SPs: 6144 (48 MPs x 128 SPs/MP)
Compute throughput: 19169.28 GFlops (theoretical single precision FMAs)
Memory bandwidth: 448.06 GB/sec

Total GPU memory 16890396672, free 16722886656
Buffer size: 256MB
Trade-off type: compute with global memory (block strided)
Elements per thread: 8
Thread fusion degree: 4
---------- CSV data ----------

	Single Precision ops				Double precision ops				Half precision ops				Integer operations			
Compute iters	Flops/byte	ex.time	GFLOPS	GB/sec	Flops/byte	ex.time	GFLOPS	GB/sec	Flops/byte	ex.time	GFLOPS	GB/sec	Iops/byte	ex.time	GIOPS	GB/sec
0	0.25	0.34	99.9	399.61	0.125	0.66	50.57	404.54	0.5	0.33	200.42	400.83	0.25	0.33	100.42	401.68
1	0.75	0.33	301.55	402.06	0.375	0.67	151	402.68	1.5	0.33	603.09	402.06	0.75	0.33	300.88	401.18
2	1.25	0.33	502.58	402.06	0.625	0.7	240.23	384.38	2.5	0.33	1008.25	403.3	1.25	0.33	502.67	402.14
3	1.75	0.33	703.61	402.06	0.875	0.97	242.98	277.69	3.5	0.33	1407.21	402.06	1.75	0.33	701.52	400.87
4	2.25	0.33	904.55	402.02	1.125	1.23	244.8	217.6	4.5	0.33	1809.28	402.06	2.25	0.33	904.64	402.06
5	2.75	0.33	1109.07	403.3	1.375	1.5	245.71	178.7	5.5	0.33	2211.34	402.06	2.75	0.34	1089.58	396.21
6	3.25	0.33	1302.7	400.83	1.625	1.77	246.52	151.7	6.5	0.33	2614.15	402.18	3.25	0.34	1290.86	397.19
7	3.75	0.33	1504.56	401.22	1.875	2.04	246.89	131.67	7.5	0.33	3015.46	402.06	3.75	0.34	1480.48	394.8
8	4.25	0.33	1708.76	402.06	2.125	2.31	247.47	116.46	8.5	0.33	3407.07	400.83	4.25	0.34	1678.83	395.02
9	4.75	0.33	1910.16	402.14	2.375	2.57	247.65	104.27	9.5	0.33	3807.9	400.83	4.75	0.34	1875.28	394.8
10	5.25	0.33	2110.82	402.06	2.625	2.84	247.88	94.43	10.5	0.33	4221.64	402.06	5.25	0.34	2068.2	393.94
11	5.75	0.33	2311.85	402.06	2.875	3.11	248.02	86.27	11.5	0.33	4624.15	402.1	5.75	0.34	2272.43	395.2
12	6.25	0.33	2512.88	402.06	3.125	3.38	248.23	79.43	12.5	0.33	5010.4	400.83	6.25	0.34	2469.56	395.13
13	6.75	0.33	2713.91	402.06	3.375	3.65	248.45	73.62	13.5	0.33	5414.85	401.1	6.75	0.34	2665.37	394.87
14	7.25	0.33	2914.94	402.06	3.625	3.92	248.5	68.55	14.5	0.33	5809.84	400.68	7.25	0.36	2708.29	373.56
15	7.75	0.33	3117.17	402.22	3.875	4.18	248.67	64.17	15.5	0.33	6212.89	400.83	7.75	0.34	3050.47	393.61
16	8.25	0.33	3306.86	400.83	4.125	4.45	248.72	60.3	16.5	0.33	6613.73	400.83	8.25	0.34	3247.28	393.61
17	8.75	0.33	3518.04	402.06	4.375	4.72	248.79	56.87	17.5	0.33	7014.56	400.83	8.75	0.35	3363.28	384.38
18	9.25	0.34	3629.99	392.43	4.625	4.99	248.94	53.82	18.5	0.33	7415.39	400.83	9.25	0.34	3641.23	393.65
20	10.25	0.33	4108.53	400.83	5.125	5.52	249.06	48.6	20.5	0.33	8217.05	400.83	10.25	0.34	4035.63	393.72
22	11.25	0.33	4510.22	400.91	5.625	6.06	249.14	44.29	22.5	0.33	9018.72	400.83	11.25	0.34	4441.45	394.8
24	12.25	0.34	4884.52	398.74	6.125	6.6	249.24	40.69	24.5	0.33	9820.38	400.83	12.25	0.34	4821.72	393.61
28	14.25	0.33	5711.85	400.83	7.125	7.67	249.37	35	28.5	0.34	11360.74	398.62	14.25	0.34	5560.93	390.24
32	16.25	0.33	6516.63	401.02	8.125	8.74	249.47	30.7	32.5	0.34	12987.32	399.61	16.25	0.35	6301.54	387.79
40	20.25	0.33	8116.84	400.83	10.125	10.89	249.64	24.66	40.5	0.34	16101.36	397.56	20.25	0.37	7372.8	364.09
48	24.25	0.34	9692.38	399.69	12.125	13.03	249.8	20.6	48.5	0.37	17609.4	363.08	24.25	0.42	7752.43	319.69
56	28.25	0.34	11288.98	399.61	14.125	15.17	249.87	17.69	56.5	0.42	18185.72	321.87	28.25	0.48	7895.06	279.47
64	32.25	0.34	12848.24	398.4	16.125	17.32	249.93	15.5	64.5	0.47	18260.72	283.11	32.25	0.54	7960.59	246.84
80	40.25	0.34	15854.69	393.91	20.125	21.61	250	12.42	80.5	0.59	18446.32	229.15	40.25	0.67	8029.91	199.5
96	48.25	0.37	17289.63	358.33	24.125	25.9	250.05	10.36	96.5	0.7	18536.77	192.09	48.25	0.8	8076.91	167.4
128	64.25	0.48	17956.03	279.47	32.125	28.77	299.74	9.33	128.5	0.76	22822.16	177.6	64.25	0.87	9861.82	153.49
192	96.25	0.76	17071.29	177.36	48.125	42.29	305.46	6.35	192.5	1.14	22612.55	117.47	96.25	1.3	9964.99	103.53
256	128.25	0.96	17845.59	139.15	64.125	56.35	305.49	4.76	256.5	1.51	22811.56	88.93	128.25	1.72	10029.82	78.21