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mixbench (v0.04-5-g8a3585e)
----- Device specifications -----
Device:          NVIDIA GeForce RTX 4090
CUDA driver version: 12.10
GPU clock rate:  2520 MHz
Memory clock rate: 5250 MHz
Memory bus width: 384 bits
WarpSize:       32
L2 cache size:  73728 KB
Total global mem: 24217 MB
ECC enabled:    No
Compute Capability: 8.9
Total SPs:      16384 (128 MPs x 128 SPs/MP)
Compute throughput: 82575.36 GFlops (theoretical single precision FMAs)
Memory bandwidth: 1008.10 GB/sec

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Total GPU memory 25393692672, free 24988155904
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	174.12	696.5	0.125	0.29	117.45	939.58	0.5	0.14	464.79	929.59	0.25	0.14	232.4	929.59
1	0.75	0.14	697.19	929.59	0.375	0.29	352.34	939.58	1.5	0.14	1394.38	929.59	0.75	0.14	697.19	929.59
2	1.25	0.14	1161.99	929.59	0.625	0.29	583.06	932.9	2.5	0.14	2325.52	930.21	1.25	0.15	1154.06	923.25
3	1.75	0.14	1626.78	929.59	0.875	0.29	807.66	923.04	3.5	0.14	3273.15	935.18	1.75	0.14	1626.78	929.59
4	2.25	0.14	2091.57	929.59	1.125	0.3	1009.76	897.56	4.5	0.14	4183.15	929.59	2.25	0.14	2091.57	929.59
5	2.75	0.14	2556.37	929.59	1.375	0.35	1045.25	760.18	5.5	0.14	5146.96	935.81	2.75	0.15	2520.62	916.59
6	3.25	0.14	3021.16	929.59	1.625	0.41	1054.42	648.87	6.5	0.14	6042.33	929.59	3.25	0.26	1651.1	508.03
7	3.75	0.15	3392.72	904.72	1.875	0.48	1059.31	564.97	7.5	0.14	6970.37	929.38	3.75	0.15	3461.41	923.04
8	4.25	0.14	3976.31	935.6	2.125	0.54	1061.19	499.38	8.5	0.14	7901.5	929.59	4.25	0.15	3922.93	923.04
9	4.75	0.15	4384.45	923.04	2.375	0.6	1064.26	448.11	9.5	0.14	8894.17	936.23	4.75	0.15	4326.37	910.82
10	5.25	0.14	4880.34	929.59	2.625	0.66	1066.87	406.42	10.5	0.14	9760.68	929.59	5.25	0.15	4812.08	916.59
11	5.75	0.14	5345.13	929.59	2.875	0.72	1069.03	371.84	11.5	0.14	10687.9	929.38	5.75	0.15	5272.68	916.99
12	6.25	0.14	5809.93	929.59	3.125	0.78	1070.85	342.67	12.5	0.15	11538.03	923.04	6.25	0.15	5728.67	916.59
13	6.75	0.14	6274.72	929.59	3.375	0.85	1069.81	316.98	13.5	0.14	12549.45	929.59	6.75	0.15	6186.97	916.59
14	7.25	0.14	6742.51	930	3.625	0.91	1072.54	295.87	14.5	0.15	13384.11	923.04	7.25	0.15	6645.26	916.59
15	7.75	0.14	7204.31	929.59	3.875	0.97	1073.79	277.11	15.5	0.15	14307.15	923.04	7.75	0.15	7103.55	916.59
16	8.25	0.14	7718.72	935.6	4.125	1.03	1073.96	260.35	16.5	0.14	15338.21	929.59	8.25	0.15	7561.85	916.59
17	8.75	0.14	8133.9	929.59	4.375	1.09	1073.86	245.45	17.5	0.15	16153.24	923.04	8.75	0.15	7964.44	910.22
18	9.25	0.14	8598.7	929.59	4.625	1.15	1075.79	232.6	18.5	0.15	17076.28	923.04	9.25	0.15	8478.43	916.59
20	10.25	0.14	9528.28	929.59	5.125	1.28	1076.51	210.05	20.5	0.15	18922.37	923.04	10.25	0.15	9331.8	910.42
22	11.25	0.14	10457.87	929.59	5.625	1.4	1077.11	191.49	22.5	0.15	20768.45	923.04	11.25	0.15	10311.61	916.59
24	12.25	0.15	11307.27	923.04	6.125	1.53	1077.61	175.94	24.5	0.15	22456.39	916.59	12.25	0.15	11150.22	910.22
28	14.25	0.15	13153.35	923.04	7.125	1.77	1078.39	151.35	28.5	0.15	26300.92	922.84	14.25	0.15	12798.46	898.14
32	16.25	0.15	14999.44	923.04	8.125	2.02	1080.08	132.93	32.5	0.15	29802.12	916.99	16.25	0.15	14673.29	902.97
40	20.25	0.15	18691.61	923.04	10.125	2.51	1081.14	106.78	40.5	0.15	36864	910.22	20.25	0.15	18179.51	897.75
48	24.25	0.15	22383.77	923.04	12.125	3.01	1082.59	89.29	48.5	0.15	43541.04	897.75	24.25	0.15	21622.42	891.65
56	28.25	0.15	25899.25	916.79	14.125	3.5	1083.64	76.72	56.5	0.15	50410.16	892.22	28.25	0.15	25189.01	891.65
64	32.25	0.15	29354.67	910.22	16.125	3.99	1083.86	67.22	64.5	0.15	57511.18	891.65	32.25	0.15	28561.3	885.62
80	40.25	0.15	36892.64	916.59	20.125	4.98	1083.96	53.86	80.5	0.16	69416.42	862.32	40.25	0.17	32372.15	804.28
96	48.25	0.15	43316.6	897.75	24.125	5.97	1084.77	44.96	96.5	0.18	72276.85	748.98	48.25	0.19	33285.39	689.85
128	64.25	0.15	57680.66	897.75	32.125	7.95	1084.95	33.77	128.5	0.22	76929.5	598.67	64.25	0.25	33820.79	526.39
192	96.25	0.18	72089.6	748.98	48.125	11.9	1085.59	22.56	192.5	0.33	78358.26	407.06	96.25	0.37	34563.51	359.1
256	128.25	0.23	73406.04	572.37	64.125	15.85	1085.85	16.93	256.5	0.43	79668.17	310.6	128.25	0.49	34803.28	271.37